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

national**grid**

February 10, 2022

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

<u>Re:</u> National Grid Little Falls (Mill Street) Non-Owned Former MGP Site Little Falls, New York 2021 Groundwater and NAPL Monitoring Results VCO Index No. D0-0001-0011 Site No. V00470

Dear Mr. Squire:

Attached for your information is the 2021 Groundwater Monitoring Report detailing the annual groundwater monitoring event and OM&M activities conducted from January 1, 2021, to December 31, 2021, 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 9, 2021. 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,

. UT/2-

for SPS

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

2021 Groundwater Monitoring Report



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

February 2022

Version 1





2021 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: 0603275.125340.221

Date: February 10, 2022

Devin T. Shay, PG Program Manager / Principal Hydrogeologist



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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 OM&M	New York State Department of Environmental Conservation 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 2021 Groundwater Monitoring Report (covering January 1, 2021 – December 31, 2021) 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 30, September 9, and December 8, 2021.

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 2021. 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 2021 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 2021 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-1, 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 during each annual monitoring event. NAPL observations were documents on the Site inspection forms as presented in **Appendix A**. A summary of NAPL observations where



NAPL was present from April 2011 through the 2021 monitoring event (including NAPL thickness measured for previous monitoring events) is presented below.

Based on the absence of detected NAPL at recovery wells RW-1, RW-2, RW-3, and monitoring well MW-101RD, no NAPL recovery efforts were attempted during the September 2021 gauging event.

	Oct	Dec	June	Dec	Aug	Dec	June	Oct	Oct	Oct	Oct	Oct	Sept	Sept
Well	2011	2011	2012	2012	2013	2013	2014	2015	2016	2017	2018	2019	2020	2021
RW-1	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
RW-2	NP	NP	NP	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	NP	Trace	NP
MW-101RD	NP	NP	NP	NP	NP	Trace	NP	NP	NP	NP	NP	NP	NP	NP

Presence/Thickness of NAPL (in inches)

NP - NAPL was not present

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 9, 2021. 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 seven of the eight groundwater monitoring wells that were sampled during the September 2021 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, vinyl chloride, and xylenes. SVOCs were detected in three of the eight groundwater samples collected. Detections of SVOCs include acenaphthene, anthracene, carbazole, dibenzofuran, flurorathene, fluorene, phenanthrene, and pyrene.

TAT inorganics were detected in all eight groundwater samples collected in September 2021. Iron concentrations in six of the eight samples exceeded the AWQS criteria. Detections of sodium exceeded in all samples, except in monitoring wells B-MW-3 and FWMW-1. Manganese



exceeded the quality criteria in FWMW-2, MW-101RD, and MW-103R. Nickel 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 during the September 2021 monitoring event.
- BTEX was detected in FWMW-3, FWMW-5, MW-101RD, MW-102R, and MW-103R. Naphthalene was not detected in any monitoring well. These detections are generally consistent with previous sampling events.

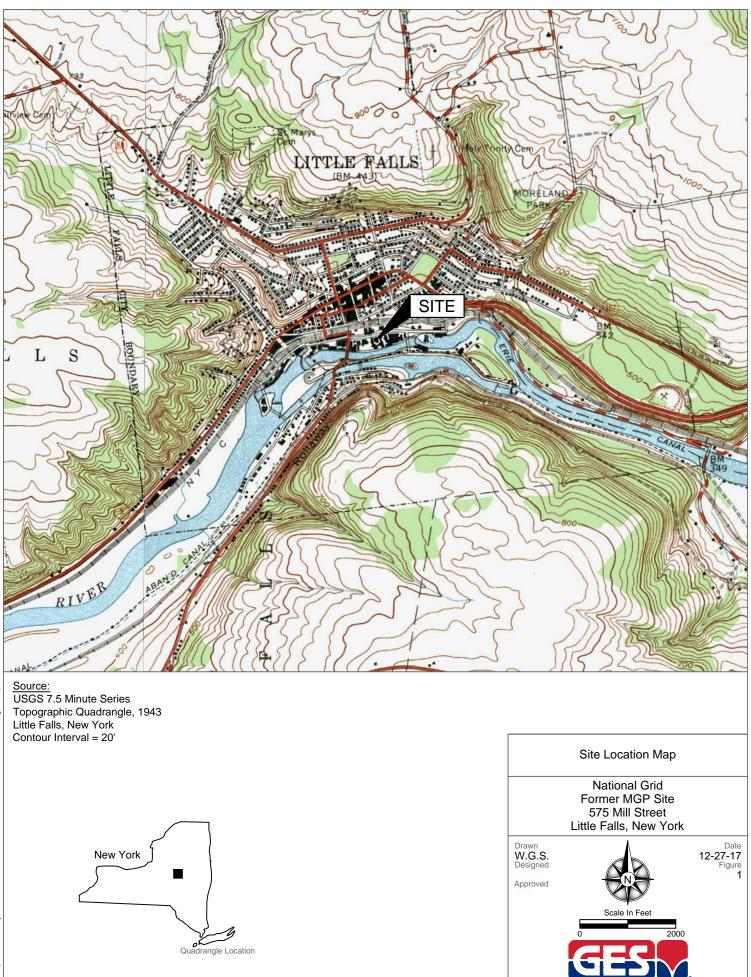
3.2 Recommendations

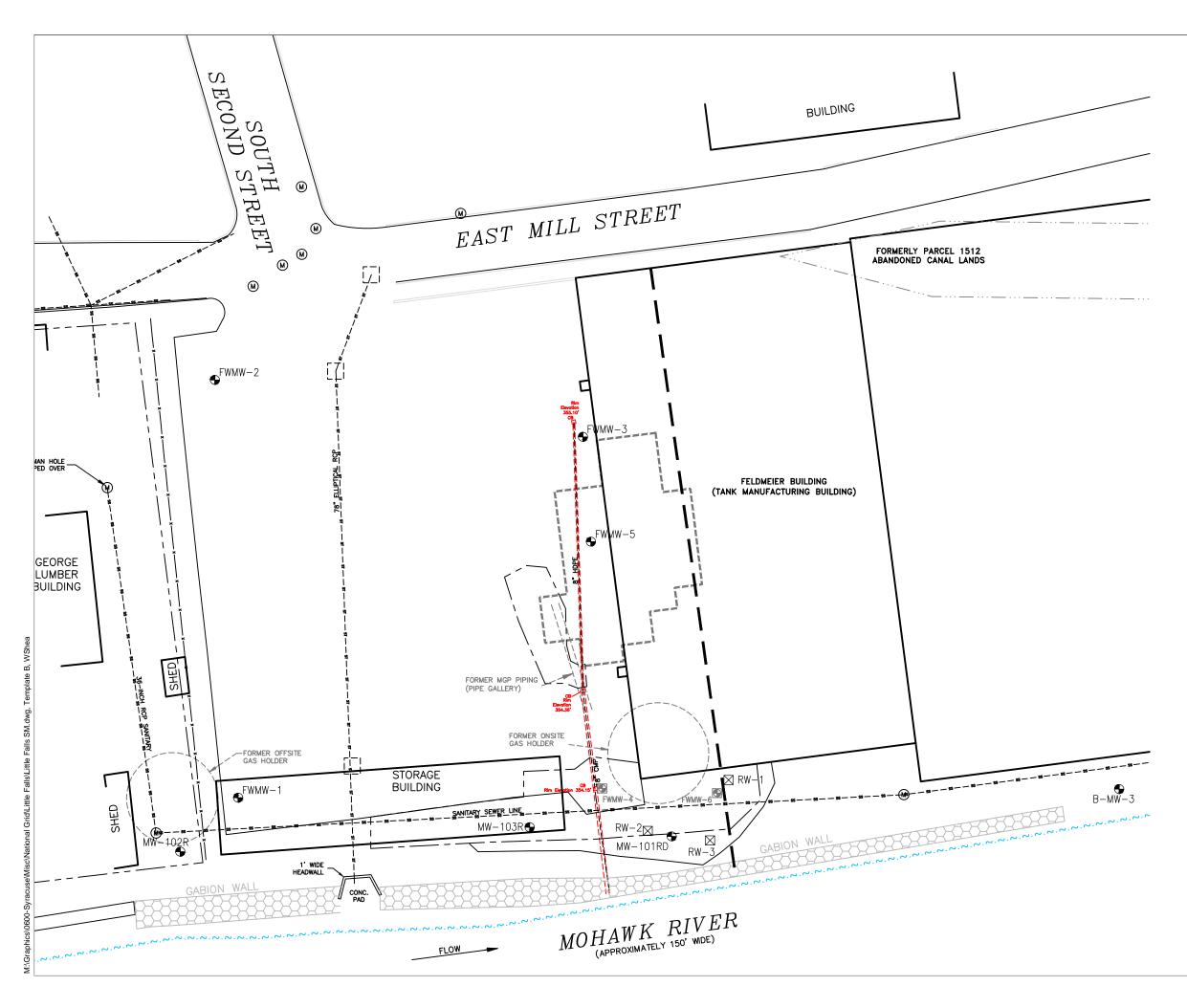
It is recommended that all OM&M activities continue, with the next report due in January 2023.

2021 Groundwater Monitoring Report National Grid Little Falls (Mill Street) Site Little Falls, NY 13365





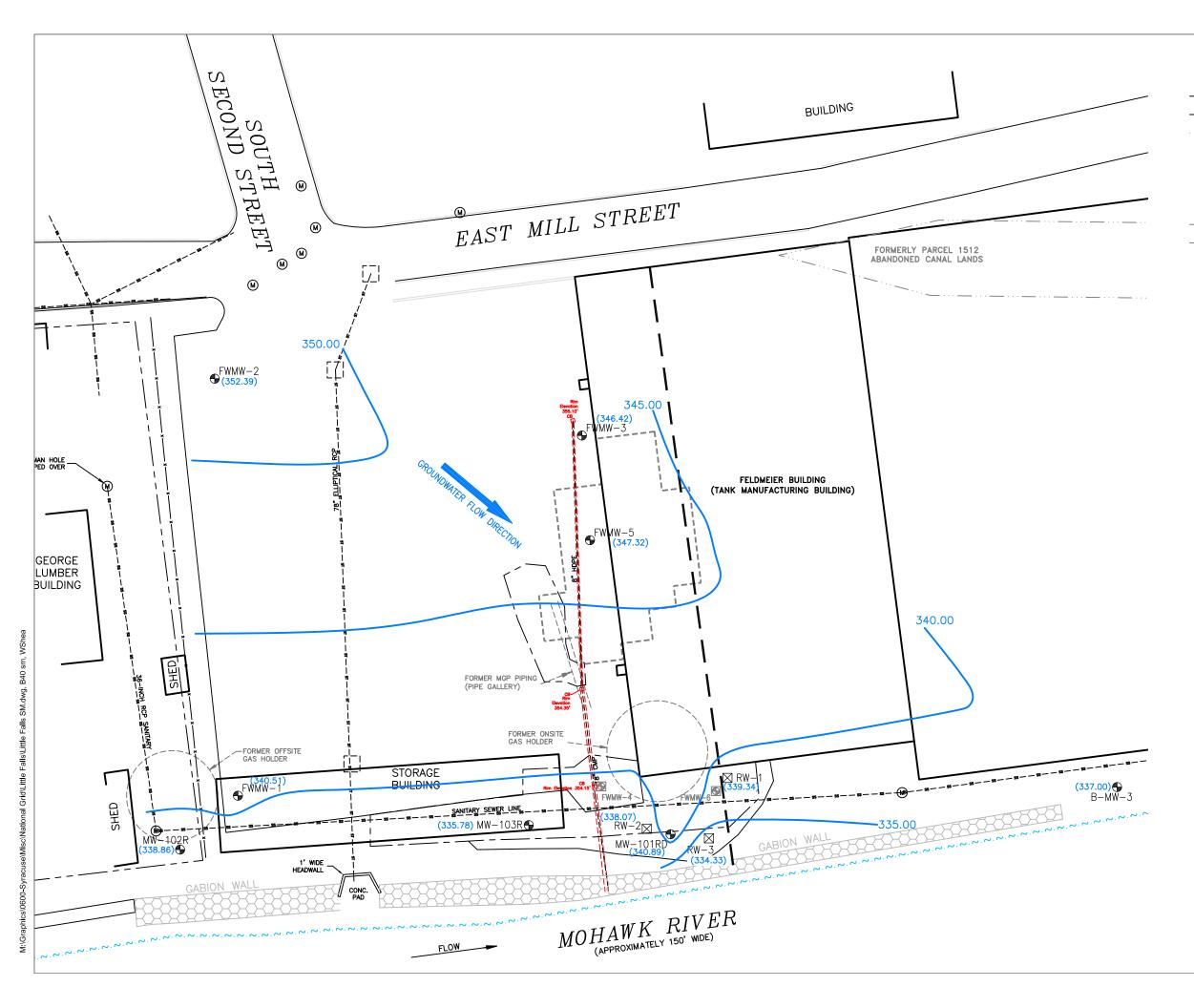






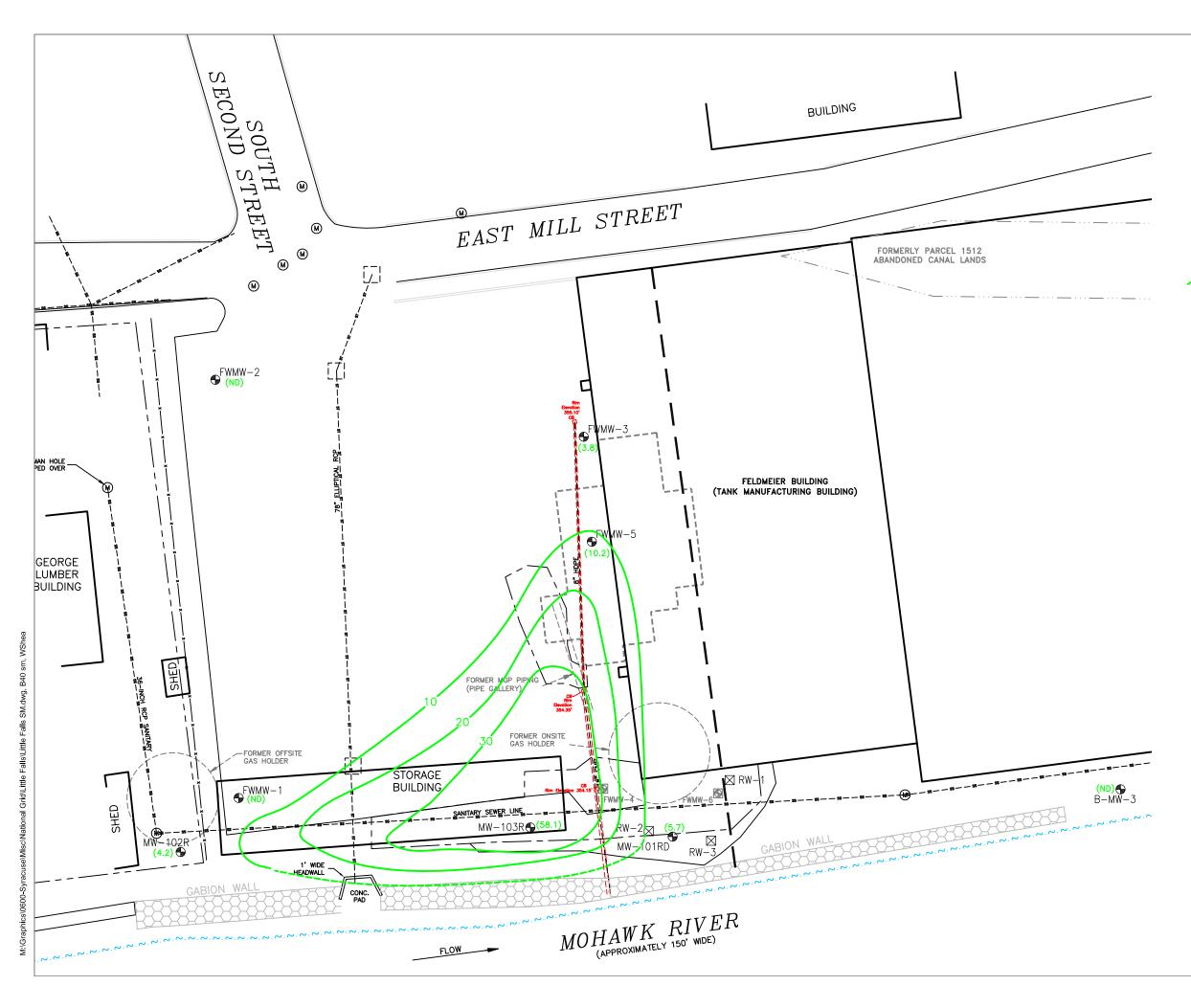
- PROPERTY BOUNDARY
- FENCE
- WATERS EDGE
- UTILITY MANHOLE
- MONITORING WELL
- RECOVERY WELL
- DESTROYED/ABANDONED WELL
- UNDERGROUND SANITARY SEWER LINE
- ST UNDERGROUND STORM SEWER LINE





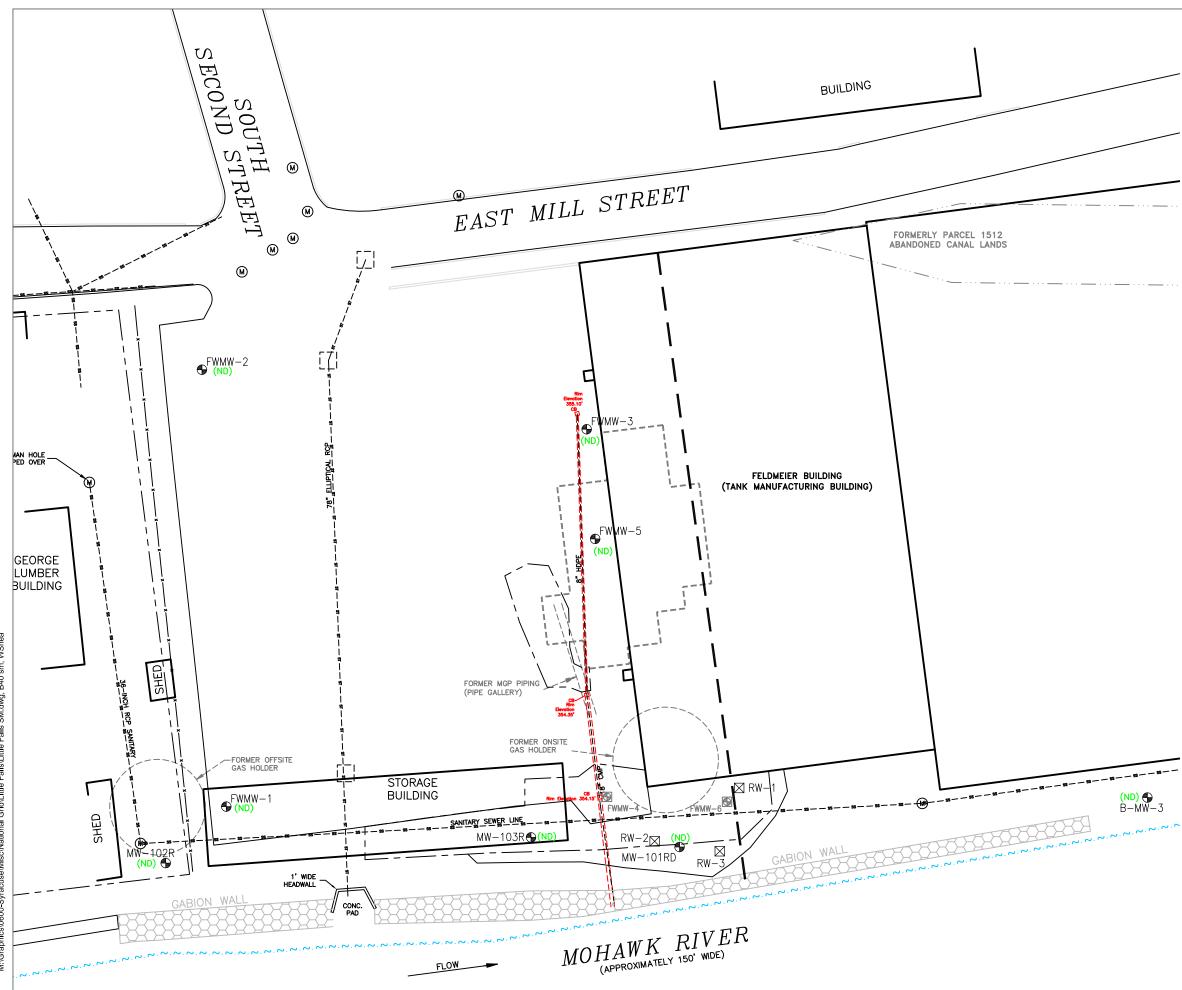
	PROPERTY BOUNDARY
x	FENCE
$\sim \sim \sim \sim \sim \sim$	WATERS EDGE
M	UTILITY MANHOLE
•	MONITORING WELL
\boxtimes	RECOVERY WELL
\bigcirc	DESTROYED/ABANDONED WELL
— ss — —	UNDERGROUND SANITARY SEWER LINE
— st — —	UNDERGROUND STORM SEWER LINE
(352.63)	GROUNDWATER ELEVATION (feet)
\sim	GROUNDWATER CONTOUR (FEET)
NG	NOT GAUGED





	PROPERTY BOUNDARY
x	FENCE
. ~.~.~.~ .	WATERS EDGE
M	UTILITY MANHOLE
•	MONITORING WELL
\boxtimes	RECOVERY WELL
\bigcirc	DESTROYED/ABANDONED WELL
— ss — —	UNDERGROUND SANITARY SEWER LINE
— st — —	UNDERGROUND STORM SEWER LINE
(58.1)	BTEX CONCENTRATION (ug/L)
\sim	BTEX CONTOUR
ug/L	MICROGRAMS PER LITER
BTEX	BENZENE, TOLUENE, ETHYLBENZENE, XYLENES
ND	NOT DETECTED





ittle Falls\Little Falls SM.dwg, B40 sm, WS Grid/L S

	PROPERTY BOUNDARY
x	FENCE
. ~.~.~.~ .	WATERS EDGE
M	UTILITY MANHOLE
\bullet	MONITORING WELL
\boxtimes	RECOVERY WELL
\bigcirc	DESTROYED/ABANDONED WELL
— ss — —	UNDERGROUND SANITARY SEWER LINE
— st — —	UNDERGROUND STORM SEWER LINE
(2.1)	NAPHTHALENE CONCENTRATION (ug/L)
\sim	NAPHTHALENE CONTOUR
ug/L	MICROGRAMS PER LITER
ND	NOT DETECTED



2021 Groundwater Monitoring Report National Grid Little Falls (Mill Street) Site Little Falls, NY 13365

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
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
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
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
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
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
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
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
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
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
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
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

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 2021

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)	56.8	ND (<1.0)	ND (<1.0)				
1,1-Dichloroethane	5	ug/L	ND (<1.0)	84.2	ND (<1.0)	18.3				
1,1-Dichloroethene	5	ug/L	ND (<1.0)	14.3	ND (<1.0)	ND (<1.0)				
Benzene	1	ug/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	2.4	1.1	4.2	50.1
Chloroform	7	ug/L	31.1	24.3	ND (<1.0)					
cis-1,2-Dichloroethene	5	ug/L	ND (<1.0)	1,320	2.4	1.2				
Ethylbenzene	5	ug/L	ND (<1.0)	2.4	ND (<1.0)	2.5				
Toluene	5	ug/L	ND (<1.0)	ND (<1.0)	ND (<1.0)	ND (<1.0)	1.0	2.2	ND (<1.0)	ND (<1.0)
trans-1,2-Dichloroethene	5	ug/L	ND (<1.0)	5.9	ND (<1.0)	ND (<1.0)				
Trichloroethene	5	ug/L	ND (<1.0)	10.5	ND (<1.0)	ND (<1.0)				
Vinyl Chloride	2	ug/L	ND (<1.0)	144	ND (<1.0)	ND (<1.0)				
Xylene (Total)	5	ug/L	ND (<3.0)	ND (<3.0)	ND (<3.0)	3.8	6.8	ND (<3.0)	ND (<3.0)	5.5
SVOCs										
Acenaphthene	20	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	4.5	7.4	1.5	ND (<0.99)
Anthracene	50	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	2.9	ND (<0.98)	ND (<0.99)
Benzo(a)anthracene	0.002	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Benzo(a)pyrene	NA	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Benzo(b)fluoranthene	0.002	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Benzo(g,h,i)perylene	NA	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Benzo(k)fluoranthene	0.002	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
bis(2-Ethylhexyl)phthalate	5	ug/L	ND (<2.5)	ND (<2.5)	ND (<2.5)	ND (<25.3)	ND (<3.0)	ND (<2.6)	ND (<2.5)	ND (<2.5)
Carbazole	NA	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	2.1	ND (<0.98)	ND (<0.99)
Chrysene	0.002	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Dibenz(a,h)anthracene	NA	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Dibenzofuran	NA	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	6.0	ND (<0.98)	ND (<0.99)
Fluoranthene	50	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	3.0	ND (<0.98)	ND (<0.99)
Fluorene	50	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	7.6	ND (<0.98)	ND (<0.99)
Indeno(1,2,3-cd)pyrene	0.002	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Naphthalene	10	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	ND (<1.0)	ND (<0.98)	ND (<0.99)
Phenanthrene	50	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	7.0	ND (<0.98)	ND (<0.99)
Pyrene	50	ug/L	ND (<1.0)	ND (<0.99)	ND (<1.0)	ND (<10.1)	ND (<1.2)	2.2	ND (<0.98)	ND (<0.99)
Metals										
Aluminum	NA	ug/L	ND (<50.0)	ND (<50.0)	101	7,610	1,850	78.2	ND (<50.0)	ND (<50.0)
Barium	1,000	ug/L	16.2	54.0	248	100	64.1	245	108	236
Calcium	NA	ug/L	44,900	52,800	187,000	108,000	132,000	161,000	59,500	196,000
Chromium	50	ug/L	ND (<5.0)	ND (<5.0)	ND (<5.0)	12.0	12.0	ND (<5.0)	ND (<5.0)	ND (<5.0)
Cobalt	NA	ug/L	ND (<5.0)	ND (<5.0)	ND (<5.0)	ND (<5.0)	19.6	ND (<5.0)	ND (<5.0)	ND (<5.0)
Copper	200	ug/L	6.6	10.8	ND (<5.0)	17.6	14.0	ND (<5.0)	ND (<5.0)	ND (<5.0)
Iron	300	ug/L	ND (<70.0)	230	16,300	6,050	5,330	1,220	2,150	495
Lead	25	ug/L	ND (<5.0)	ND (<5.0)	ND (<5.0)	10.7	8.3	ND (<5.0)	ND (<5.0)	ND (<5.0)
Magnesium	35,000	ug/L	7,370	9,300	16,300	10,200	16,100	21,200	11,900	26,100
Manganese	300	ug/L	ND (<5.0)	9.6	1,270	194	172	641	298	929
Nickel	100	ug/L	ND (<10.0)							
Potassium	NA	ug/L	644	1,510	6,150	3,940	4,200	8,100	4,260	9,680
Sodium	20,000	ug/L	6,540	12,500	756,000	71,200	79,200	387,000	92,500	443,000
Vanadium	NA	ug/L	ND (<5.0)	ND (<5.0)	ND (<5.0)	15.2	6.0	ND (<5.0)	ND (<5.0)	ND (<5.0)
Zinc	2,000	ug/L	12.3	12.4	14.3	114	67.2	ND (<10.0)	ND (<10.0)	ND (<10.0)
Total Cyanide	200	ug/L	ND (<10.0)	ND (<10.0)	12	95	34	ND (<10.0)	ND (<10.0)	21

AWQS

= Ambient Water Quality Standards (from TOGS 1.1.1) = NYSDEC AWQS Not Applicable for this Constituent

NA NYSDEC

= New York State Department of Environmental Conservation

= Technical and Operational Guidance Series

TOGS Bolded

= values indicate exceedance of the NYSDEC AWQS



Appendix A – Quarterly Inspection Forms

Date: 12/8/2021 Technician: KL

Weather:

Time:

8:30 Snow 28

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.	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	N/A	NP	19.42							
RW-3 N/A NP 31.70										
			<u> </u>	A <i>i</i>						

Levels and Recovery in March and September Only

General Comments:

Date: 9/9/2021 Technician: KL

Weather:

Time:

8:30 Cloudy 64

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						

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.	Well ID. DTW DTP DTB Thicknes					
RW-1	14.69	NP	21.95			
RW-2	15.23	NP	19.42			
RW-3	18.08	NP	31.70			
			• • •	<u> </u>		

Levels and Recovery in March and September Only

General Comments:

Date: 6/30/2021 Technician: KL

Weather:

Time:

9:45 Partly Cloudy 88

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						

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					
	-		<u> </u>	<u> </u>	

Levels and Recovery in March and September Only

General Comments:

Date: 3/23/2021 Technician: KL

Weather:

Time:

8:15 Sunny 37

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						

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.	Well ID. DTW DTP DTB Thickness					
RW-1	14.63	n/a	21.95			
RW-2 15.23 n/a 19.42						
RW-3	18.35	trace	31.70	trace		
I avala and F		Manahanad	O and a make a	· • •		

Levels and Recovery in March and September Only

General Comments:

Asphalt breakup by catchbasin between lean-too and long storage barn.



Appendix B – Well Sampling Field Data

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

Well 1D.	Sample?	Well Size	Well Material	Stickup- Flush	DTP	DTW	DTP	DTB	Sump ?	Comments
B-MW-3	Yes	2"	PVC	Flush		14.40		16.14	No	Field Duplicate
FW-MW-1	Yes	2"	PVC	Flush		15.07	-	23.10	No	
FW-MW-2	Yes	2"	PVC	Flush		9.55		14.63	No	
FW-MW-3	Yes	2"	PVC	Flush		85		14.15	No	
FW-MW-5	Yes	2"	PVC	Flush		7.77		11.45	No	
MW-101RD	Yes	2"	PVC	Flush		10.69		51.35	Yes	MS/MSD
MW-102R	Yes	2"	PVC	Flush		17.24		38.42	Yes	
MW-103R	Yes	2"	PVC	Flush		18.05	•	35.53	Yes	
RW-1	No	4"	PVĊ	Flush		14.69		21.95	Yes	
RW-2	No	4"	PVC	Flush		1523		19.42	Yes	
RW-3	No	4"	PVC	Flush		18.08		31.70	Yes	

.....

National Grid Mill Street, Little Falls, New York

	0/0/01
Sampling Personnel:	Date: 9999
Job Number: 0603275-133650-221	Weather: Char lay
Well Id. B-MW-3	
Well Information	
TOC Other	Well Type: Flushmount Stick-Up
Depth to Water: (feet) 14.40	Well Locked: Yes No
Depth to Bottom: (feet) 16.14	Measuring Point Marked: Yes No
Depth to Product: (feet)	Well Material: PVC SS Other:
Length of Water Column: (feet) 1.74	Well Diameter: 1" 2" Other:
Volume of Water in Well: (gel) 279	Comments:
Three Well Volumes: (gal) 0.934	
Purging Information	
	Conversion Factors
Purging Method: Bailer Peristaltic Grundfo	
	ethylene of
	s Pump water 0.04 0.16 0.66 1.47
Average Pumping Rate: (ml/min) 280	1 gallon=3.785L=3785mL=1337cu. feet
Duration of Pumping: (min) 20	
Total Volume Removed: (gal) L Did well go dry?	Yes No
Horiba U-52 Water Quality Meter Used? Yes No	
Time DTW Temp pH ORP	Conductivity Turbidity DO TDS
(feet) (°C) (S.U.) (mV),	(mS/cm) (NTU) (mg/L) (g/L)
09:25 14:50 17.19 5.31 174	0.235 0.0 1.44 0.170
09:30 14.50 17.31 7.05 84	0210 449 10.22 0.136
09:35 14.50 17.31 7.16 77	0.198 163 10.700.128
09:40 14.50 17.35 7.21 76	0.196 29-7 11.12 0.129
09.45 14.50 17.42 7.25 76	0.197 0.7 11.02 0.128
09:50 14.50 17 43 7.27 77	0.197 0.5 11.40 0.128
	· · · · · · · · · · · · · · · · · · ·
Sampling Information:	
EPA SW-846 Method 8270 SVOC PAH's Including Total PAH's	4 - 100 ml amber Yes No
EPA SW-846 Method 8260 VOC's BTEX Including Total BTEX	6 - 40 ml vials Yes No
EPA SW-846 Method 9012 Total Cyanide	2 - 250 ml plastic Yes No
EPA SW-846 Methods 6010/7470 TAL Inorganics	2 - 250 ml plastic Yes 🔀 No 🔛
FD-0921	
Sample ID: B-MW-3-0921 Duplicate? Yes No	Shipped: Fed Ex
Sample Time: 09:50 MS/MSD? Yes No	Pick-up by PACE Courier
Comments/Notes:	Laboratory: PACE Analytical
	Greensburg, PA
\svrrmt88-vm3\syracuse-01\Dashboard\Planning\898671.xlsm	Page 7 of

Sampling Personnel:		Date: 9/9/21							
Job Number: 0603275-133	650-221	·····	Weather: Club, 67						
Well Id. FW-MW-1		•							
			Time In: //.'4) Time Out: /230						
Well Information									
	、 TOC	Other							
Depth to Water:	(feet) 15.07		Well Type: Flushmount Stick-Up						
Depth to Bottom:	(feet) 23.10	f							
Depth to Product:	(feet)		Measuring Point Marked: Yes No Well Material: PVC SS Other:						
Length of Water Column:	(feet) 8,03	· · · · · · · · · · · · · · · · · · ·	Well Diameter: 1" 2" Other:						
Volume of Water in Well:	(gal) [-28		Comments:						
Three Well Volumes:	(gal) 3.85								
	······································								
Purging Information									
			Conversion Factors						
Purging Method:	Bailer Peris	taltic 🔀 Grui	ndfos Pump gal/ft. 1" ID 2" ID 4" ID 6" ID						
Tubing/Bailer Material:	Tefion Stainles		Polyethylene						
Sampling Method:	Bailer Perist	altic Gru	ndfos Pump water 0.04 0.16 0.66 1.47						
Average Pumping Rate:	(ml/min) 20		1 gallon=3.785L=3785mL=1337cu. feet						
Duration of Pumping: Total Volume Removed:	(min) 30 (gal) 2								
		Did well go dry							
Horiba U-52 Water Quality Me	eter Used?	Yes 🔀 No 📃							
Time DTW	Temp pH	ORP	Conductivity Turbidity DO TDS						
(feet)	(°C) (S.U.)	(mV)	(mS/cm) (NTU) (mg/L) (g/L)						
11:582 15.22	15.86 7.10		0-509 232 3.39 0.310						
11:55 15.27	15.80 7.3		0.281 61.0 2.48 0.183						
12:0 15.27	16.36 7-32		0.263 19.9 3.97 0.171 0.262 19.6 3.96 0.170						
12:05 5.27	16.39 7.3	2 - 50							
12:10 15.27	16.67. 7-3 16.106 7.3	$\frac{7}{2} - 70$	0.257 13.6 3.570.167						
12:20 15.27	16.67 7.3	2 -66	0.257 8.3 3.54 0.167						
10.00	10 e + 7.5	The state of the s	0.257 8.0 3.49 0.167						
	<u> </u>								
Sampling Information:									
EPA SW-846 Method 8270	SVOC PAH's Inc	luding Total PAH's	s 2 - 100 ml amber Yes No						
EPA SW-846 Method 8260 VOC's BTEX Including Total BTEX 3 - 40 ml vials Yes No									
EPA SW-846 Method 9012	Total Cyanide	1 - 250 ml plastic Yes No							
EPA SW-846 Methods 6010/7470 TAL Inorganics 1 - 250 ml plastic Yes No									
Sample ID: FWMW-1-0921 Duplicate? Yes No Shipped: Fed Ex Fed Ex <th< td=""></th<>									
Comments/Notes: Laboratory: PACE Analytical									
Greensburg PA									
svrrmt88-vm3\syracuse-01\Dashboard\	Planning\898671.xlsm,		Page 8 of						

Sampling Pers	sonnel: 21	v yon	Date: 9/9/21						
Job Number:	0603275-133			Weather: 69° Cloudy					
		000-221		Time In: /	L	Time Out:	1140		
Well Id.	FW-MW-2				nine in: 7			<u>t. 1.</u>	
Well Information									
	ormation		тос	Other	Well Type:	Flusi	hmount 🛛 s	tick-Up	
Depth to Wate		(feet)	9.55		Well Locke		Yes	No	
Depth to Botto		(feet)	14.63		Measuring P	oint Marked:	Yes 🔀	No	
Depth to Prod		(feet)			Well Materi	al: PVC		er:	
Length of Wa		(feet)	5.08		Well Diame	ter: 1"	2"\/Oth	er:	
Volume of Wa	ater in Well:	(gal)	.81		Comments:				
Three Well Vo	olumes:	(gal)	2.43						
Purging I	nformation	1				r		····.	
							Conversion F		
Purging Meth		Bailer	Peristaltic	<u> </u>	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID	
Tubing/Bailer		Teflon	Stainless St.		vethylene	of	0.04 0.16	0.66 1.47	
Sampling Met		Bailer	×	Grundf	os Pump	water	0.04 0.16 on=3.785L=3785m		
Average Pum			200			1 gallo	JN=3.785L=3785m	iL-1007CU. (eet	
Duration of P		(min)	<u>30</u>)id well go dry?	Yes No	\mathbf{x}			
Total Volume		(gal)				Ц			
Horiba U-52 \	Nater Quality N	leter Used?	Yes						
					· · · ·				
Time	DTW	Temp	pН	ORP	Conductivity	Turbidity	DO	TDS	
	feet)	(°C)	(S.U.)	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)	
1100	10.98	14.84	6.69	-159	4.47	608	.30	2.86	
1105	11.10	15.02	6.73	-161	4.47	562	0.00	2.86	
1110	11.20	15.69	6.75	-166	4.46	275	0.00	2.85	
1115	11.31	15.09	6.79	-179	4.47	11.2 3.8	0.00	2.86	
1120	11.31	15.07	6.82	-181	4.48 4.49	<u> </u>	0.00	2.87	
1125	11.51	15.05	6.84	-181	9.97 4.49	0.7	0.00	2.87 2.87	
11:30	11.51		6.85	-181	7.7/	U.Y			
	<u></u> .			+	 				
		· · · · · · · · · · · · · · · · · · ·		+					
 						·····			
	<u>1</u>	<u> </u>		<u></u>	······································			·	
Sampling In	Sampling Information:								
	ionnation.								
EPA SW-846 Method 8270 SVOC PAH's Including Total PAH's 2 - 100 ml amber Yes No									
EPA SW-846 Method 8260 VOC's BTEX Including Total BTEX 3 - 40 ml vials Yes No									
EPA SW-846 Method 9012 Total Cyanide 1 - 250 ml plastic Yes No									
1	EPA SW-846 Method 9012 Total Cyande EPA SW-846 Method 9012 Total Cyande I - 250 ml plastic Yes No								
Sample ID: FWMW-2-0921 Duplicate? Yes No Shipped: Fed Ex									
Sample Time:	1130		S/MSD?	Yes]	Pick	-up by PACE Co	ourier 🔀	
Comments/Notes: Laboratory: PACE Analytical									
Comments/N						add of the of y.	Greensbu		
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4

Sampling Pers	sonnel: R	dre yon		Date: 9/9/21				
Job Number:	0603275-133			Weather: 68° Cloudy				
	FW-MW-3			Time In: 10		/ Time Out:	040	
	[44-III 44-5							· · ·
Well Info	ormation	<u> </u>						
			тос	Well Type:	Flus	hmount 🔀 🛛 S	tick-Up	
Depth to Wate	er:	(feet)	8.51		Well Locked: Yes No			
Depth to Botto		(feet)	14.15		Measuring P		_Yes 🔀	No
Depth to Prod		(feet)	-		Well Materi			
Length of Wat	ter Column:		5.64		Well Diame		2" 🔀 Oth	er:
Volume of Wo			.90		Comments:			
Three Well Volumes: (gal) 2-70								
					<u></u>	<u></u>		
Purging In	nformation						<u> </u>]
		r	— ·				Conversion F	
Purging Metho		Bailer	Peristaltic		os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID
Tubing/Bailer		Teflon	Stainless St.		ethylene	of	0.04 0.16	0.66 1.47
Sampling Met		Bailer		Grundl	os Pump	water		
Average Pum			2 20			_1 gai	on=3.785L=3785m	L=1337cu. feet
Duration of Pu		(min)	30			ন		
Total Volume	Removed:	(gal)		id well go dry?	Yes No	Ă.J		
Horiba U-52 V	Nater Quality N	Aeter Used?	Yes					
Time	DTW	Temp	pН	ORP	Conductivity	Turbidity	DO	TDS
Time	(feet)	(°C)	(S.U.)	(mV)	(mS/cm)	(ŇTU)	(mg/L)	(g/L)
1005	8.92	18.20	6.75	78	. 696	0.0	4.32	.455
1010	9.30	17.89	6.60	163	.721	274	218	.463
1015	9.66	17.87	6.55	186	.743	74.9	1.17	,476
1020	10.33	17.92	6.58	190	.728	30.9	2.45	.467
1025	10.88	17.33	6.60	146	.756	37.4	1.94	. 484
1030	11.42	17.32	6.58	167	.757	37.1	1.91	. 486
1035	12.47	17.27	6.62	146	.805	35.0	1.30	.513
								ļ
							l	
Sampling In	formation:							
<u></u>								
FPA SW-8	46 Method 8270) SVOC F	AH's Includ	ing Total PAH's		2 - 100 ml am	ber Yes	
								No
	346 Method 9012				1 - 250 mi pla	stic Yes		
EPA SW-846 Methods 6010/7470 TAL inorganics 1 - 250 ml plastic Yes No								
Sample ID: FWMW-3-1021 Duplicate? Yes No Shipped: Fed Ex								
Sample Time:	1035		-	Yes No	1		-up by PACE C	ourier 🔀
						Laboratory		alvitical
Comments/N	Comments/Notes: Laboratory: PACE Analytical Greensburg, PA							
			71				Greensb	urg, PA Page 10 of
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Sampling Pers									
	0603275-133	aso-221		Date: 9/9/21 Weather: 69 ³ Cloudy					
Job Number:		550-221		Time In: 0		Time Out:	0950		
Well Id. F	W-MW-5		· · · · · · · · ·	<u>_</u>				<u> </u>	
Well Information									
vveii into	mation		тос	Other	Well Type:	Flush	imount 🔀 🛛 Si	iick-Up	
Depth to Wate		(feet)	277		Well Locked	d:	Yes	No	
Depth to Botto			11.45		Measuring Pe	oint Marked:	_Yes 🔀	No	
Depth to Produ		(feet)	~		Well Materia	al: PVC	SSOthe		
Length of Wate		(feet) 3	. 68		Well Diame	ter: 1"	2" 🔀 Othe	er:	
Volume of Wa		(gal)	.58		Comments:				
Three Well Vo		(gal)	1.26			<u></u>			
					<u></u>		······		
Purging In	formation								
							Conversion Fa		
Purging Metho	od:	Bailer	Peristaltic	<u></u>	os Pump	gal/ft.	1" ID 2" ID	4" ID 6" ID	
Tubing/Bailer		Teflon	Stainless St.	<u></u>	rethylene	of	004 040	0.66 1.47	
Sampling Met	· · · · · · · · · · · · · · · · · · ·	Bailer		Grundf	os Pump	water	0.04 0.16		
Average Pum	oing Rate:		<u>?</u>			1 gallo	on=3.785L=3785m	L=133/CU. Teet	
Duration of Pu	imping:	(min)	30			∇		5	
Total Volume Removed: (gal) 2 Did well go dry? Yes No									
Horiba U-52 V	Vater Quality M	leter Used?	Yes						
Time	DTW	Temp	pН	ORP	Conductivity	Turbidity	DO	TDS	
time	(feet)	(°C)	(S.U.)	(mV)	(mS/cm)	(NTU)	(mg/L)	(g/L)	
0915	8.42	17.07	5.68	199	1.76	34.4	2.86	112	
0920	9.08	17.37	6.40	32	1.23	24.1	1.61	.77/	
0925	10,16	17.54	6.53	51	,824	17.6	. 99	.533	
0930	10.21	17.40	6.46	18	1.14	26.6	1.59	.744	
0935	10,54	17.42	6.55	11	1.29	27.4	.94	.812	
0940	p.78	17.59	6.58	11	.934	21.7	1.25	.593	
0915	10.80	17.80	6.60	-8	.857	19.0	1.53	. 544	
								·	
				ļ			<u> </u>	1	
Sampling In	formation:								
EPA SW-8	46 Method 8270	SVOC I		ling Total PAH's ling Total BTEX		2 - 100 ml am			
	346 Method 8260			3 - 40 ml via		K—≫I — 1			
EPA SW-846 Method 9012 Total Cyanide 1 - 250 ml plastic Yes No									
EPA SW-846 Methods 6010/7470 TAL Inorganics 1 - 250 ml plastic Yes No									
					7	sinnod:	Fed Ex		
Sample ID:	FWMW-5-09		iplicate?	Yes No		nipped: Bio	reu ⊑x k-up by PACE C		
Sample Time:	_0945_	M	5/MSD?						
Comments/Notes: Laboratory: PACE Analytical									
							Greensb	-	
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Sampling Personnel:	Date: 9/9/2/					
Sampling Personnel:		64				
		Time Out: 1012				
Well Id. MW-101RD						
Well Information						
тос	Other Well Type: Flushmo					
Depth to Water: (feet) 10-69		res No				
Depth to Bottom: (feet) 51.35	incace	Yes No No SS Other:				
Depth to Product: (feet)	Well Material: PVC X Well Diameter: 1"	2" Other:				
Length of Water Column: (feet) 40.46	Comments:					
Volume of Water in Well:(gel)6.50Three Well Volumes:(gel)19.51						
Purging Information						
		DIVERSION Factors				
		ID 2" ID 4" ID 6" ID				
	ess St. Polyethylene Of istaltic Grundfos Pump water 0.	04 0.16 0.66 1.47				
		3.785L=3785mL=1337cu. feet				
Average Pumping Rate:(ml/min)200Duration of Pumping:(min)30	<u> </u>					
Total Volume Removed: (gal) 2	 Did well go dry? Yes No					
Horiba U-52 Water Quality Meter Used?						
Honda 0-52 Water Quanty Meter Osed						
Time DTW Temp pH	ORP Conductivity Turbidity	DO TDS				
(feet) (°C) (S.U		(mg/L) (g/L)				
10:10 10.80 12.53 7.	8 91 0.254 88.01	2.96 0.183				
10:15 10.87 14.33 7.3		3.70 0.457				
10:10 10.95 13.63 7.	$\frac{17}{12} - \frac{107}{12} + \frac{191}{211} + \frac{91}{211} + 9$	1.37 $1.231.20$ 1.36				
10.25 10.97 13.45 7.		1.31 1.48				
10.30 10.97 13.38 7.	12 - 153 - 3.31 - 19.9	1.371.59				
10.35 1.03 13.10 3	1 -160 2:49 17.7	1.47 1.60				
10.40 11.06 13.13 4.						
Sampling Information:						
	Including Total PAH's 6 - 100 ml amber	Yes No				
EPA SW-846 Method 8270 SVOC PAH's EPA SW-846 Method 8260 VOC's BTEX	Including Total BTEX 9 - 40 ml vials	Yes No				
EPA SW-846 Method 9012 Total Cyanide	3 - 250 ml plastic	Yes 🗙 No				
EPA SW-846 Methods 6010/7470 TAL Inorganics	3 - 250 ml plastic	Yes No				
	101RD-MSD-0921	· ·				
Sample ID: MW-101RD-0921 Duplicate?	Yes No Shipped:	Fed Ex				
Sample Time: 16.40 MS/MSD?	Yes No Pick-up	by PACE Courier				
Comments/Notes:	Laboratory:	PACE Analytical				
		Greensburg, PA				
\\svrrmt88-vm3\syracuse-01\Dashboard\Planning\898671.xlsm						

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Weather: 0603275-133650/221 Weather: Cf ² Cloudit Weil Id MW-102R Tme In: If 47 Time Out. /232 Weil Information TOC Other Weil Type: Flushmount Stok-Up No Depth to Water: (teet) 7.2.7 Weil Cocket: Yes No No Depth to Bottom: (teet) 7.7.7 Weil Nametei: Yes No No Septh to Product: (teet) 7.7.7 Weil Nametei: Yes No No Outme of Water in Welt: (set) 3.3.5 Grandros Pump Grandros Pump Grandros Pump Grandros Pump Grandros Pump get/ft 1 ¹⁰ 10 10 10 10 10 10 10 10 11 13 12 0.04 0.16 0.65 1.47 Average Pumping Rate: (mem) 2.00 Vest No Vest No Vest No Vest No 12 10 10 10 10 10 10 10 10 10 10 10 12 10 10 10 10 1	Job Number:0603275-133650-221WeiWeil Id.MW-102RTimWeil InformationTOCOtherWeil InformationTOCOtherDepth to Water:(feet) $i 7.2 4'$ Depth to Bottom:(feet) $=$ Use to Product:(feet) $=$ Length of Water Column:(feet) $=$ Volume of Water Column:(feet) $2/.1 F$ Volume of Water Column:(feet) $2/.1 F$ Volume of Water in Well:(gal) 3.38 Three Well Volumes:(gal) $10.1 E$ Purging Method:BailerPeristalticSampling Method:BailerPeristalticSampling Method:BailerPeristalticDuration of Pumping:(min) 200 Duration of Pumping:(min) 30 Total Volume Removed:(gal) 2 Did well go dry?YesHoriba U-52 Water Quality Meter Used?Yes $1/55$ 17.99 13.92 2.50 -177 2.17 $1/55$ 17.97 2.17 $1/20$ 17.45 12.12 $1/20$ 17.45 12.12 $1/20$ 17.92 12.12 $1/210$ 17.92 12.12 $1/210$ 17.92 12.12 $1/215$ 12.12 17.23 $1/215$ 12.12 12.12 $1/215$ 12.12 12.12 $1/215$ 12.12 12.12 $1/215$ 12.12 12.12 <td< th=""><th>ather: 68° Cloudy a In: 1147 Time Out: 1230 I Type: Flushmount Stick-Up No I Locked: Yes No No I Locked: Yes Other: Other: I Material: PVC SS Other: I Diameter: 1" 2" Other: I ments: Conversion Factors gal/ft. 1" ID 2" ID 4" ID 6" ID of 0.04 0.16 0.66 1.47 I gallon=3.785L=3785mL=1337cu. feet</th></td<>	ather: 68° Cloudy a In: 1147 Time Out: 1230 I Type: Flushmount Stick-Up No I Locked: Yes No No I Locked: Yes Other: Other: I Material: PVC SS Other: I Diameter: 1" 2" Other: I ments: Conversion Factors gal/ft. 1" ID 2" ID 4" ID 6" ID of 0.04 0.16 0.66 1.47 I gallon=3.785L=3785mL=1337cu. feet							
Neil id MW-102R Time II: // 46 Time OU: // 23 Well Information TOC Other Well Type: Flushmouth Stock-Up No Depth to Notaer: (feet) 7/2,2 / // Well Type: Yes Stock-Up No Depth to Product: (feet) 3.42 Well Type: Yes Stock-Up No Depth to Dotact: (feet) 3.42 Well Type: Yes Stock-Up No Depth to Product: (feet) 3.42 Well Type: Yes Other: No Well Material: (feet) 3.32 Other: Yes Other: Well Dameter: Proceedings Purging Information Page Peristatic Grundtos Pump Gaintits Pump Pagetit to Stock Proceedings Gaintits Pump Yes No Yes <td< td=""><td>Stop Walneel Output Product 2 Intervention Time Well Information TOC Other We Depth to Water: (feet) $1 \overrightarrow{A_2} \cancel{A_2}$ We Depth to Bottom: (feet) $3 \cancel{A_2}$ We Depth to Product: (feet) $-$ We We Depth to Product: (feet) $-$ We We Length of Water Column: (feet) $2 \cancel{J} \cdot \cancel{J} \cancel{J}$ We Volume of Water in Well: (gal) $3 \cancel{J} \cancel{J} \cancel{J} \cancel{J}$ We Volume of Water in Well: (gal) $2 \cancel{J} \cancel{J} \cancel{J} \cancel{J}$ Cor Three Well Volumes: (gal) $1 o_{1} \cancel{L} \cancel{L}$ Grundfos Pump Purging Method: Bailer Peristaltic Grundfos Pump Average Pumping Rate: (m/min) $2 \cancel{D} o_{1} \cancel{J} o_{1} \cancel{J} \cancel{J} \cancel{J} \cancel{J} o_$</td><td>In: 1/47 Time Out: 1230 I Type: Flushmount Stick-Up I Locked: Yes No I Locked: Yes No suring Point Marked: Yes Other: I Material: PVC SS Other: I Diameter: 1" 2" Other: I Diameter: 1" 10 0.0 I gal/ft. 1" 1D 2" ID I gallon=3.785L=3785mL=1337cu. feet 1 gal7cu. feet</td></td<>	Stop Walneel Output Product 2 Intervention Time Well Information TOC Other We Depth to Water: (feet) $1 \overrightarrow{A_2} \cancel{A_2}$ We Depth to Bottom: (feet) $3 \cancel{A_2}$ We Depth to Product: (feet) $-$ We We Depth to Product: (feet) $-$ We We Length of Water Column: (feet) $2 \cancel{J} \cdot \cancel{J} \cancel{J}$ We Volume of Water in Well: (gal) $3 \cancel{J} \cancel{J} \cancel{J} \cancel{J}$ We Volume of Water in Well: (gal) $2 \cancel{J} \cancel{J} \cancel{J} \cancel{J}$ Cor Three Well Volumes: (gal) $1 o_{1} \cancel{L} \cancel{L}$ Grundfos Pump Purging Method: Bailer Peristaltic Grundfos Pump Average Pumping Rate: (m/min) $2 \cancel{D} o_{1} \cancel{J} o_{1} \cancel{J} \cancel{J} \cancel{J} \cancel{J} o_$	In: 1/47 Time Out: 1230 I Type: Flushmount Stick-Up I Locked: Yes No I Locked: Yes No suring Point Marked: Yes Other: I Material: PVC SS Other: I Diameter: 1" 2" Other: I Diameter: 1" 10 0.0 I gal/ft. 1" 1D 2" ID I gallon=3.785L=3785mL=1337cu. feet 1 gal7cu. feet							
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Engino IV value Coulumin. (eac) 2.32 Comments: Purging Information (gai) 10.16 Conversion Factors Purging Method: Baller Peristallic Grundfos Pump gai/ft 110.16 Purging Method: Baller Peristallic Grundfos Pump gai/ft 110.21 6 10 Sampling Method: Baller Teton Postetatic Grundfos Pump gai/ft 110.66 1.47 Average Pumping Rate: (mtmin) 20 Grundfos Pump 0.04 0.16 0.66 1.47 Tgaloes3.785L-3765mL=1337cs.fee 10 well go dry? Yes No 1	Length Of Water Column.(teel) 27.72 Volume of Water in Well:(gal) 3.38 CorThree Well Volumes:(gal) 10.16 CorPurging InformationBailerPeristalticGrundfos PumpTubing/Bailer Material:TeflonStainless St.PolyethyleneSampling Method:BailerPeristalticGrundfos PumpAverage Pumping Rate:(ml/min) 250 Grundfos PumpDuration of Pumping:(min) 30 Total Volume Removed:(gal)TimeDTWTemppHORPCondition1/5017.9013.90 2.50 -127 $2.$ 1/5519.0912.22 7.18 -183 $2.$ 1/20019.4512.47 7.15 -185 $2.$ 1/20519.86 12.07 7.20 -188 $1.$ 1/21519.93 12.12 7.20 -185 $1.$ 1/21519.93 12.12 7.20 -185 $1.$ 1/21519.93 12.12 7.20 -185 $1.$ 1/21519.93 12.12 7.20 -185 $1.$ 1/21519.93 12.12 7.20 -185 $1.$ 1/21519.93 12.12 7.23 -182 1.23	Conversion Factors gal/ft. 1" ID 2" ID 4" ID 6" ID of water 0.04 0.16 0.66 1.47 1 gallon=3.785L=3785mL=1337cu. feet							
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Durging Method: Bailer Perstatic Grundtos Pump Sampling Method: Tefon Stainless St. Polyeithylene Grundtos Pump Gru	Purging Method:BailerPeristalticGrundfos Pump Polyethylene Grundfos PumpTubing/Bailer Material:TeflonStainless St.Polyethylene Grundfos PumpSampling Method:BailerPeristalticGrundfos PumpAverage Pumping Rate:(ml/min) 200 Did well go dry?YesDuration of Pumping:(min) 30 Did well go dry?YesHoriba U-52 Water Quality Meter Used?YesNoImage: Stainless St.NoTimeDTWTemppHORPConduction(feet)(°C)(S.U.)(mV)(mS)1/5519.0913.902.50-17722.1/5519.0912.327.18-1832.12.0019.4512.477.15-1852.12.0519.8412.977.20-1581.12.1019.8412.077.20-1581.12.1519.9312.127.23-192.	gal/ft. 1" ID 2" ID 4" ID 6" ID of of 0.04 0.16 0.66 1.47 1 gallon=3.785L=3785mL=1337cu. feet							
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Durging Method: Bailer Perstatic Grundtos Pump Sampling Method: Tefon Stainless St. Polyeithylene Grundtos Pump Gru	Purging Method:BailerPeristalticGrundfos Pump Polyethylene Grundfos PumpTubing/Bailer Material:TeflonStainless St.Polyethylene Grundfos PumpSampling Method:BailerPeristalticGrundfos PumpAverage Pumping Rate:(ml/min) 200 Did well go dry?YesDuration of Pumping:(min) 30 Did well go dry?YesHoriba U-52 Water Quality Meter Used?YesNoImage: Stainless St.NoTimeDTWTemppHORPConduction(feet)(°C)(S.U.)(mV)(mS)1/5517.9013.902.50-17272.1/5519.0912.327.18-1832.12.0019.4512.497.15-1852.12.0119.8412.097.20-1581.12.1019.8412.097.20-1581.12.1519.9312.127.20-192.	gal/ft. 1" ID 2" ID 4" ID 6" ID of of 0.04 0.16 0.66 1.47 1 gallon=3.785L=3785mL=1337cu. feet							
Purging Method: Bailer Peristattic X Grund/os Pump Polyethylens X Grund/os Pump Tubing/Bailer Material: Bailer Tetion Stainless St. Polyethylens X Grund/os Pump Od 0.16 0.66 1.47 Average Pumping Rate: (mt/min) 280 Did well go dry? Yes No 1 gallon=3.785L=3785mL=1337cu. teet Duration of Pumping: (mn) 30 Did well go dry? Yes No No Time DTW Temp PH ORP Conductivity Tubidity DO TDS Horiba U-52 Water Quality Meter Used? Yes No No No If (feet) (for (feet) (for (feet) (for (feet)	Tubing/Bailer Material:TeflonStainless St.PolyethyleneSampling Method:BailerPeristalticGrundfos PumpAverage Pumping Rate:(ml/min) 280 Duration of Pumping:(min) 30 Total Volume Removed:(gal) 2 Did well go dry?YesHoriba U-52 Water Quality Meter Used?YesNo(feet)(°C) $1/50$ 17.90 13.90 2.50 -1272 2.55 -1272 2.55 -1272 2.55 19.99 12.32 7.18 12.55 19.99 12.12 7.20 12.55 19.99 12.12 7.20 12.15 19.99 12.12 7.20 12.12 7.20 12.12 12.12 12.12 19.92 12.12 7.20 12.12 7.20 12.12 12.12 12.12 12.12 12.12 12.23 12.12 12.12 12.12 12.12 12.12 12.12 12.12 12.23 12.12 12.12 12.12 12.12 12.12 12.12 12.12 12.23 12.12 12.23 12.12 12.23 12.12 12.23 12.12 12.23 12.12 12.23 12.12 12.23 12.12 12.23 12.12 12.23 <t< td=""><td>gal/ft. 1" ID 2" ID 4" ID 6" ID of of 0.04 0.16 0.66 1.47 1 gallon=3.785L=3785mL=1337cu. feet</td></t<>	gal/ft. 1" ID 2" ID 4" ID 6" ID of of 0.04 0.16 0.66 1.47 1 gallon=3.785L=3785mL=1337cu. feet							
Purging Wethod: Database St. Beiler Download Number Polyshylane Grundtos Pump Other St. Sampling Method: Difference St. Beiler Difference St. Polyshylane Grundtos Pump Of Grundtos Pump Of Water 0.04 0.16 0.66 1.47 Average Pumping Rate: (mtmin) 200 Did well go dry? Yes No No Duration of Pumping: (min) 200 Did well go dry? Yes No No Horiba U-52 Water Quality Meter Used? Yes No No (mS/cm) (NTU) (mg/L) (g/L) 1/55 1/2.02 1/3.02 2.50 -//27 3./17 54% //14/ //14/ 1/55 1/2.02 1/3.02 2.50 -//27 3./17 54% //14/ //14/ 1/55 1/2.07 1/2.12 7/2.0 -188 //11 0.0 0.00 /.1.32 1/2.20 1/7.15 1/2.12 7/2.3 -//9.2 .50 0.0 0.0 .515 1/2.20 1/2.12 7/2.20 -188 //11 0.0 0.0 .515 1/2.20 1/2.92 </td <td>Tubing/Bailer Material:TeflonStainless St.PolyethyleneSampling Method:BailerPeristalticGrundfos PumpAverage Pumping Rate:(ml/min)280Duration of Pumping:(min)30Total Volume Removed:(gal)2Did well go dry?YesHoriba U-52 Water Quality Meter Used?YesNo(feet)(°C)$1/50$$17.90$$13.90$$2.50$$-1272$$2.55$$-1272$$2.55$$-1272$$2.55$$19.99$$12.32$$7.18$$12.55$$19.99$$12.12$$7.20$$12.55$$19.99$$12.12$$7.20$$12.15$$19.99$$12.12$$7.20$$12.12$$7.20$$12.12$$12.12$$12.12$$19.92$$12.12$$7.20$$12.12$$7.20$$12.12$$12.12$$12.12$$12.12$$12.12$$12.23$$12.12$$12.12$$12.12$$12.12$$12.12$$12.12$$12.12$$12.23$$12.12$$12.12$$12.12$$12.12$$12.12$$12.12$$12.12$$12.23$$12.12$$12.23$$12.12$$12.23$$12.12$$12.23$$12.12$$12.23$$12.12$$12.23$$12.12$$12.23$$12.12$$12.23$$12.12$$12.23$<t< td=""><td>gaint gaint of </td></t<></td>	Tubing/Bailer Material:TeflonStainless St.PolyethyleneSampling Method:BailerPeristalticGrundfos PumpAverage Pumping Rate:(ml/min) 280 Duration of Pumping:(min) 30 Total Volume Removed:(gal) 2 Did well go dry?YesHoriba U-52 Water Quality Meter Used?YesNo(feet)(°C) $1/50$ 17.90 13.90 2.50 -1272 2.55 -1272 2.55 -1272 2.55 19.99 12.32 7.18 12.55 19.99 12.12 7.20 12.55 19.99 12.12 7.20 12.15 19.99 12.12 7.20 12.12 7.20 12.12 12.12 12.12 19.92 12.12 7.20 12.12 7.20 12.12 12.12 12.12 12.12 12.12 12.23 12.12 12.12 12.12 12.12 12.12 12.12 12.12 12.23 12.12 12.12 12.12 12.12 12.12 12.12 12.12 12.23 12.12 12.23 12.12 12.23 12.12 12.23 12.12 12.23 12.12 12.23 12.12 12.23 12.12 12.23 12.12 12.23 <t< td=""><td>gaint gaint of </td></t<>	gaint gaint of							
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Sampling Nettrod.	Output for the formula formula formula formula formula for the formula formula for	1 gallon=3.785L=3785mL=1337cu. feet							
KVerage P drinping: (minin) 300 Diration of Pumping: (minin) 300 Total Volume Removed: (gal) 2 Did well go dry? Yes No Total Volume Removed: (gal) 2 Did well go dry? Yes No Horiba U-52 Water Quality Meter Used? Yes No Time DTW Temp pH ORP Conductivity Turbidity DO TDS (feet) ('C) (S.U.) (mV) (mS/cm) (NTU) (mg/L) (g/L) ////////////////////////////////////	Duration of Pumping: (min) 30 Total Volume Removed: (gal) 2 Did well go dry? Yes Horiba U-52 Water Quality Meter Used? Yes No 100 Time DTW Temp pH ORP Conduction Model (feet) (°C) (S.U.) (mV) (mS) $1/5^{\circ}$ 17.90 13.90 2.50 -127 $2.$ $1/5^{\circ}$ 17.90 13.90 2.50 -127 $2.$ $1/5^{\circ}$ 17.90 13.90 2.50 -127 $2.$ $1/5^{\circ}$ 17.90 12.32 7.18 -183 $2.$ $1/200$ 19.45 12.47 7.12 -187 $2.$ 1205 19.771 12.17 7.12 -188 $1.$ 1210 19.86 12.07 7.20 -188 $1.$ 1215 19.93 12.12 7.23 -192 $.52$								
Total Volume Removed: (gal) 2 Did well go dry? Yes No Horiba U-52 Water Quality Meter Used? Yes No	Total Volume Removed: (gal) 2 Did well go dry? Yes Horiba U-52 Water Quality Meter Used? Yes No Yes No Time DTW Temp pH ORP Conduction (feet) (°C) (S.U.) (mV) (mS) //50 //2.90 /3.90 2.50 -1.77 $2.$ //55 /9.09 12.32 7.18 -183 $2.$ //55 /9.09 12.32 7.18 -183 $2.$ //200 /9.45 12.47 7.15 -185 $2.$ //205 /9.45 12.47 7.12 -188 $1.$ //205 /9.45 12.07 7.20 -188 $1.$ //205 /9.45 12.07 7.20 -188 $1.$ //210 /9.84 12.02 7.23 -192 $.5$	No							
Horiba U-52 Water Quality Meter Used? Yes No Time DTW Temp pH ORP Conductivity Turbidity DO TDS ////////////////////////////////////	Horiba U-52 Water Quality Meter Used? Yes No Time DTW Temp pH ORP Conduction $(feet)$ $(^{\circ}C)$ $(S.U.)$ (mV) (mS) $II5^{\circ}O$ $I7.9O$ $I3.9O$ $7.5O$ $-I77$ $2.$ $I200$ $I7.45$ $I2.47$ 7.15 $-I85$ $2.$ $I205$ $I7.77$ $I2.17$ 7.12 $-I88$ $1.$ $I210$ $I7.86$ $I2.07$ 7.20 $-I88$ $1.$ $I210$ $I7.93$ $I2.12$ 7.23 $-I92$ $$								
Time DTW Temp pH ORP Conductivity Turbidity DO TDS //?.90 /?.90 /?.90 /?.90 /?.90 /?.90 /?.90 (g/L) (g/L) ///50 /?.90 /?.90 /?.90 /?.90 /?.90 /?.90 /?.90 (g/L) (g/L) ///50 /?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90 ?.90	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$								
Imme DTW Terrip (Fill)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								
Imme DTW Terrip (Fill)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								
(feet) (°C) (S.U.) (mV) (mS/cm) (NTU) (mg/L) (g/L) //50 //290 /3.90 2.50 -/27 2.19 34% 1.14 1.41 //55 /9.09 /2.32 7.18 -/73 2.23 0.3 0.00 1.42 //200 /9.45 /3.49 7.15 -/85 2.02 0.0 0.00 1.42 //200 /9.45 /3.49 7.12 -/85 2.02 0.0 0.00 1.42 /200 /9.45 /3.247 7.20 -/85 1.11 0.0 2.28 .1/9 /210 /9.86 12.12 7.20 -/85 1.11 0.0 2.28 .1/9 /215 /9.93 /2.12 7.20 -/85 0.0 0.00 .5746 /220 /7.92 /2.02 -/93 .805 0.0 0.00 .5746 /220 /7.92 /2.20 -/93 .805 0.0 0.00 .00 .00 sampling Information:	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$								
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Sample ID: MW-102R-0921 Duplicate? Yes No Shipped: Fed Ex	EPA SW-846 Method 9012 Total Cyanide 1 - 250 ml plastic Yes No								
		3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No							
Sample Time: 1220 MS/MSD? Yes No Pick-up by PACE Courier	Sample Time: /220 MS/MSD? Yes No	3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No 1 - 250 ml plastic Yes No Shipped: Fed Ex							
Comments/Notes: Laboratory: PACE Analytical	3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No 1 - 250 ml plastic Yes No								
Comments/Notes. Greensburg, PA		3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No 1 - 250 ml plastic Yes No Shipped: Fed Ex Pick-up by PACE Courier							
Pere 13 of	svrrmt88-vm3\syracuse-01\Dashboard\Planning\898671.xlsm	3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No 1 - 250 ml plastic Yes No Shipped: Fed Ex Pick-up by PACE Courier Laboratory: PACE Analytical							

	a19/21			
Sampling Personnel:	Date: 9/7/~/			
Job Number: 0603275-133650-221	Weather: Crarky 69			
Well Id. MW-103R	Time In: 10:55 Time Out: 11-40			
Well Information TOC Other Depth to Water: (feet) 18-05 Depth to Bottom: (feet) 35.53 1 Depth to Product: (feet) 17-46 1 Length of Water Column: (feet) 17-46 1 Volume of Water in Well: (gal) 2-74 1 Three Well Volumes: (gal) 8-34 1	Well Type: Flushmount Stick-Up Well Locked: Yes No Measuring Point Marked: Yes No Well Material: PVC SS Well Diameter: 1" 2" Other:			
Purging Information Purging Method: Baller Tubing/Bailer Material: Teflon Sampling Method: Baller Sampling Method: Baller Baller Peristaltic Grundfo Average Pumping Rate: (ml/min) Duration of Pumping: (min) Total Volume Removed: (gal) Horiba U-52 Water Quality Meter Used? Yes No				
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
Sampling Information: EPA SW-846 Method 8270 SVOC PAH's Including Total PAH's EPA SW-846 Method 8260 VOC's BTEX Including Total PAH's EPA SW-846 Method 9012 Total Cyanide EPA SW-846 Methods 6010/7470 TAL Inorganics Sample ID: MW-103R-0921 Duplicate? Yes Sample Time: ((:: 2)) MS/MSD? Yes Comments/Notes:	2 - 100 ml amber Yes No 3 - 40 ml vials Yes No 1 - 250 ml plastic Yes No 1 - 250 ml plastic Yes No Shipped: Fed Ex Pick-up by PACE Courier Laboratory: PACE Analytical Greensburg, PA			
\\svrrmt88-vm3\syracuse-01\Dashboard\Planning\898671.xlsm	Page 14 of			



CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

+ 	Section P			Section C																			[Page:	1 of 1	
Section A Required Client Information:	Section 8 Required Project Information:			nvoice Infor	mation:																					
Company: GES - Syracuse	Report To: Devin Shay (GES) dshay@gesonline.com							il at ges-invo			com	_									REG	ULAT		GENCY		
Address: 6780 Northern Blvd, Suite 100 Report To: Tim Beaumont (GES) tibeaumont@gesonline.com		1	Company Name: Groundwater & Environmental Services, Inc.										I NPDE	s	GR	ol ID	WATE	R	DRIN	°√G WAT	ER					
East Syracuse, New York 13057 Annual GWS		5	1	Address: 6760 Northern Blvd, Suite 100, East Syracuse, NY 13057																OTH:						
Email To: dshay@gesonline.com	Purchase Order No.:			Pace Quote	Reference	;												S	ITE		1	GA	IL İ	IN	Mi	NC
Phone: 800.220.3069 Fax: None x4052	Project Name: National Grid Little Falls, NY			Pace Projec	t Manager	Rache	l Christ	ner									LOCAT	ION			1	он (SC	W!		<u>`</u>
Requested Due Date/TAT: Standard	Project Number: 0603275-133650-221			Pace Profile	}# :												Filtered (Y/	N)					\square	[] []	///	Щ
Section D Required Client Information SAMPLE ID One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE	Valid Haftri Codes <u>AATRIX</u> WWTPR WWTPR WWT PRIXACT P PRIXACT P P PRIXACT P P PRIXACT P P P P P P P P P P P P P P	MATRIX CODE	SAMPLE TYPE G+GRAB C=COMP	COMPOSITE AT	ART	GRAB			SAMPLE TEMP AT COLLECTION	#OF CONTAINERS	Dereserved	¹ SO ₄	Prese	Ŧ	35 (1975) (1975)	ethanol	Requested Analysis:		I AN A A A A A A A A A A A A A A A A A A	T We way and the second	In the second				Pac	be Project Number Lab LD
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Appendix C – Data Usability Summary Report and Analytical Data



1750 Kraft Drive, Suite 2700 • Blacksburg, Virginia 24060 • (866) 756 0788

February 3, 2022

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. 30440128

Groundwater & Environmental Services, Inc. (GES) reviewed one data packages (Laboratory Project Number 30440128) Pace Analytical Services, LLC. Greensburg, PA.

This reports detailed the analysis of groundwater samples collected from monitoring wells during on September 9, 2021 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
- Instrumental Tunes
- Instrument MDLs
- Sample Quantitation and Identification

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.

Sample ID	Qualifier	Analyte	Reason for qualification
	J	Aluminum	RPD > 30%
	UJ	Mercury	Post digestion spike and MS/MSD recoveries were out of compliance
	J+	Acenaphthylene	High MS/MSD
MW-101RD	UJ-	1,1,2-Trichlorotrifluoroethane Cyclohexane Vinyl Chloride	Low MS/MSD
	UJ-	Methylcyclohexane	Low continuing calibration recovery
	J-	Vinyl Chloride	Low MS/MSD
	J	Sodium	Low Post Digestion Spike Low MS/MSD
	J-	Calcium	Low Post Digestion Spike
FWMW-3	J- (detected) UJ- (non-detected)	All analytes	Dechlorination
B-MW-3 FD	UJ-	Cyanide	Low MS/MSD
All samples	UJ- J-	Methylcyclohexane	Low CCV recovery

Table 1 – Data Qualifications

Analytical Anomalies

- Bromomethane was high in the continuing calibration standard, non-detect in all the samples. No data is qualified.
- FWMW-3 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. 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.

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-"

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

• Bromomethane – no qualification; all samples are non-detect

MS/MSD recoveries associated with MW-101RD were generally within criteria. The following compounds had recoveries low out-of-specification:

- Dichlorodifluoromethane
- Vinyl chloride
- 1,1,2-Trichlorotrifluoroethane

The analytes are qualified as noted in **Table 1**.

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

The blind field duplicate correlations of BMW-3-1021, where applicable, fall within guidance limits.

PAHs by EPA8270D/NYSDEC ASP

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

Blanks show no contamination with the exception of a low-level detection of di-n-butyl phthalate in the method blank. There were no corresponding detections in the samples and data is unaffected. Calibrations standards show acceptable responses within analytical protocol and validation action limits.

LCS recoveries and RPD were reported within acceptable ranges.

MS/MSD associated with MW-101RD reported multiple high recoveries. Any corresponding detection in the sample is qualified and noted in Table 1. RPDs were within criteria.

The blind field duplicate correlations of BMW-3 -0921, where applicable, fall within guidance limits.

Metals by EPA 6010C/NYDESC ASP

The matrix spikes of **MW-101RD** recovered high for multiple metal analytes. The original concentrations for many of these analytes was greater than 4x the concentration spiked, and the high recoveries do not indicate an issue with accuracy. The following metals had high recoveries with spike concentrations within the EPA acceptable range. The following analytes are qualified as estimated with a possible high bias:

Sodium had a high MS recovery and a low PDS recovery. Calcium had a low PDS recovery. The data is qualified as estimated with an unknown bias.

The ICP Serial Dilution evaluations were within specification for samples with detections of the target elements above the action limit.

The blind field duplicate correlations of BMW-3-0921, where applicable, fall within guidance limits, with the exception of zinc, where the RPD was 44.3%. Zinc is qualified as estimated with an indeterminate bias.

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, with the flowing exceptions:

- Low recovery of cyanide in the MS/MSD prepared from the samples B-MW-3-0921 and FD-0921. Low recoveries indicate a possible low bias.
- High recovery of mercury in the post-digestion spike. There was no mercury reported in the sample. No data was qualified.

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-3-0921, 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.

fortwick >

Bonnie Janowiak, Ph.D. Senior Project Chemist 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,Pace Project No.:30440128

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30440128001	B-MW-3-0921	Water	09/09/21 09:50	09/10/21 09:30
30440128002	FWMW-1-0921	Water	09/09/21 12:20	09/10/21 09:30
30440128003	FWMW-2-0921	Water	09/09/21 11:30	09/10/21 09:30
30440128004	FWMW-3-0921	Water	09/09/21 10:35	09/10/21 09:30
30440128005	FWMW-5-0921	Water	09/09/21 09:35	09/10/21 09:30
30440128006	MW-101RD-0921	Water	09/09/21 10:40	09/10/21 09:30
30440128007	MW-101RD-MS-0921	Water	09/09/21 10:40	09/10/21 09:30
30440128008	MW-101RD-MSD-0921	Water	09/09/21 10:40	09/10/21 09:30
30440128009	MW-102R-0921	Water	09/09/21 12:20	09/10/21 09:30
30440128010	MW-103R-0921	Water	09/09/21 11:30	09/10/21 09:30
30440128011	FD-0921	Water	09/09/21 00:00	09/10/21 09:30
30440128012	TRIP BLANK	Water	09/09/21 00:01	09/10/21 09:30



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method: EPA 8270D

Description:8270D Organics Reduced VolumeClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 24, 2021

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-3-0921 (Lab ID: 30440128004)

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 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.

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: 464315

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- FWMW-3-0921 (Lab ID: 30440128004)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorobiphenyl (S)
 - 2-Fluorophenol (S)
 - Nitrobenzene-d5 (S)
 - Phenol-d6 (S)
 - Terphenyl-d14 (S)

Method Blank:

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

QC Batch: 464315

- B: Analyte was detected in the associated method blank.
 - BLANK for HBN 464315 [OEXT/448 (Lab ID: 2241855)
 - Di-n-butylphthalate



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method: EPA 8270D

Description:8270D Organics Reduced VolumeClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 24, 2021

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 464315

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: 2241856)
 - 2,4-Dichlorophenol
 - 2,4-Dimethylphenol
 - 2-Methylnaphthalene
 - Hexachlorocyclopentadiene
 - Isophorone
 - N-Nitrosodiphenylamine
 - Naphthalene
 - Pentachlorophenol

Matrix Spikes:

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

QC Batch: 464315

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30440128006

MH: Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.

- MS (Lab ID: 2241857)
 - 2,4-Dichlorophenol
 - 2,4-Dimethylphenol
 - Acenaphthylene
 - Biphenyl (Diphenyl)
 - Di-n-butylphthalate
 - Hexachlorocyclopentadiene
 - Naphthalene
- MSD (Lab ID: 2241858)
 - Biphenyl (Diphenyl)
 - Hexachlorocyclopentadiene
 - Naphthalene

Additional Comments:

Analyte Comments:

QC Batch: 464315

- 1c: De-Chlorinated
 - FWMW-3-0921 (Lab ID: 30440128004)
 - 2,4,6-Trichlorophenol
 - 2,4-Dichlorophenol
 - 2,4-Dimethylphenol
 - 2,4-Dinitrophenol



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method:	EPA 8270D
Description:	8270D Organics Reduced Volume
Client:	Groundwater & Environmental Services, Inc. (Syracuse)
Date:	September 24, 2021

Analyte Comments:

QC Batch: 464315

- 1c: De-Chlorinated
 - FWMW-3-0921 (Lab ID: 30440128004)
 - 2,4-Dinitrotoluene
 - 2,4,5-Trichlorophenol
 - 2,6-Dinitrotoluene
 - 2-Chloronaphthalene
 - 2-Chlorophenol
 - 2-Methylphenol(o-Cresol)
 - 2-Methylnaphthalene
 - 2-Nitroaniline
 - 2-Nitrophenol
 - 3,3'-Dichlorobenzidine
 - 3-Nitroaniline
 - 4,6-Dinitro-2-methylphenol
 - 4-Bromophenylphenyl ether
 - 4-Chloro-3-methylphenol
 - 4-Chloroaniline
 - 4-Chlorophenylphenyl ether
 - 4-Nitroaniline
 - 4-Nitrophenol
 - Acenaphthene
 - Acenaphthylene
 - Acetophenone
 - Anthracene
 - Atrazine
 - Butylbenzylphthalate
 - Benzo(k)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(a)anthracene
 - Benzo(b)fluoranthene
 - Benzo(a)pyrene
 - Biphenyl (Diphenyl)
 - bis(2-Chloroethoxy)methane
 - bis(2-Chloroethyl) ether
 - bis(2-Chloroisopropyl) ether
 - bis(2-Ethylhexyl)phthalate
 - Benzaldehyde
 - Carbazole
 - Chrysene
 - Dibenz(a,h)anthracene
 - Dibenzofuran
 - Dimethylphthalate
 - Di-n-butylphthalate
 - · Di-n-octylphthalate



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method:	EPA 8270D
Description:	8270D Organics Reduced Volume
Client:	Groundwater & Environmental Services, Inc. (Syracuse)
Date:	September 24, 2021

Analyte Comments:

QC Batch: 464315

- 1c: De-Chlorinated
 - FWMW-3-0921 (Lab ID: 30440128004)
 - Diethylphthalate
 - Fluorene
 - Fluoranthene
 - Hexachloro-1,3-butadiene
 - Hexachlorobenzene
 - Hexachlorocyclopentadiene
 - Hexachloroethane
 - Indeno(1,2,3-cd)pyrene
 - Isophorone
 - Naphthalene
 - N-Nitroso-di-n-propylamine
 - Nitrobenzene
 - N-Nitrosodiphenylamine
 - Phenol
 - Phenanthrene
 - Pentachlorophenol
 - Pyrene



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method: EPA 8260C

 Description:
 8260C MSV

 Client:
 Groundwater & Environmental Services, Inc. (Syracuse)

 Date:
 September 24, 2021

General Information:

12 samples were analyzed for EPA 8260C 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.

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: 464566

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- B-MW-3-0921 (Lab ID: 30440128001)
 - Bromomethane
- BLANK (Lab ID: 2243169)
 - Bromomethane
- FD-0921 (Lab ID: 30440128011)
- Bromomethane
- FWMW-1-0921 (Lab ID: 30440128002)
 Bromomethane
- FWMW-2-0921 (Lab ID: 30440128003) • Bromomethane
- FWMW-3-0921 (Lab ID: 30440128004)
 - Bromomethane
- FWMW-5-0921 (Lab ID: 30440128005)
 Bromomethane
- LCS (Lab ID: 2243170)
- Bromomethane
- MS (Lab ID: 2243171)
- Bromomethane
- MSD (Lab ID: 2243172)
- Bromomethane
- MW-101RD-0921 (Lab ID: 30440128006)
 Bromomethane
- MW-101RD-MS-0921 (Lab ID: 30440128007)
 - Bromomethane
- MW-101RD-MSD-0921 (Lab ID: 30440128008)
 Bromomethane
- MW-102R-0921 (Lab ID: 30440128009)
- Bromomethane
- MW-103R-0921 (Lab ID: 30440128010)
 - Bromomethane



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method: EPA 8260C Description: 8260C MSV
Client: Groundwater & Environmental Services, Inc. (Syracuse)
Date: September 24, 2021
QC Batch: 464566
CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
TRIP BLANK (Lab ID: 30440128012) Bromomethane
CL: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.
• B-MW-3-0921 (Lab ID: 30440128001)
Methylcyclohexane
• BLANK (Lab ID: 2243169)
Methylcyclohexane
• FD-0921 (Lab ID: 30440128011)
Methylcyclohexane FWMW-1-0921 (Lab ID: 30440128002)
Methylcyclohexane
• FWMW-2-0921 (Lab ID: 30440128003)
• Methylcyclohexane
• FWMW-3-0921 (Lab ID: 30440128004)
Methylcyclohexane
• FWMW-5-0921 (Lab ID: 30440128005)
Methylcyclohexane
• LCS (Lab ID: 2243170)
Methylcyclohexane
• MS (Lab ID: 2243171)
Methylcyclohexane MSD (Lab ID: 2243172)
Mod (Lab ID: 2243172) Methylcyclohexane
• MW-101RD-0921 (Lab ID: 30440128006)
Methylcyclohexane
• MW-101RD-MS-0921 (Lab ID: 30440128007)
Methylcyclohexane
• MW-101RD-MSD-0921 (Lab ID: 30440128008)
Methylcyclohexane
• MW-102R-0921 (Lab ID: 30440128009)
Methylcyclohexane
• MW-103R-0921 (Lab ID: 30440128010)
Methylcyclohexane TRIP BLANK (Lab ID: 30440128012)
Methylcyclohexane
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.



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method: EPA 8260C

Description:8260C MSVClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 24, 2021

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: 464566

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30440128006

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 2243171)
 - 1,1,2-Trichlorotrifluoroethane
 - Cyclohexane
 - Vinyl chloride
- MSD (Lab ID: 2243172)
 - Vinyl chloride

Additional Comments:



Project: National Grid - Little Falls,

Pace Project No.: 30440128

Method: EPA 9012B

Description:9012B Cyanide, TotalClient:Groundwater & Environmental Services, Inc. (Syracuse)Date:September 24, 2021

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.

QC Batch: 464030

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30440128001,30440128011

- ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
 - MS (Lab ID: 2240247)
 - Cyanide
 - MSD (Lab ID: 2240243)
 - Cyanide
 - MSD (Lab ID: 2240248)
 - Cyanide

Additional Comments:

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