

2021 Annual Report

**Dansville Former Manufactured Gas Plant Site
NYSDEC Site Number: 8-26-012**

March 2023

2021 Annual Report

Dansville Former Manufactured Gas Plant Site
NYSDEC Site Number: 8-26-012

March 2023

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Acronyms and Abbreviations

AW	application well
BTEX	benzene, toluene, ethylbenzene, and xylenes
DNAPL	dense non-aqueous phase liquid
DO	dissolved oxygen
LNAPL	light non-aqueous phase liquid
MGP	manufactured gas plant
MW	monitoring well
NAPL	non-aqueous phase liquid
NRW	NAPL recovery well
NYSDEC	New York State Department of Environmental Conservation
NYSEG	New York State Electric & Gas
O&M	operation and maintenance
ORS	oxygen-releasing substrate
OU-1	Operable Unit 1
OU-2	Operable Unit 2
PAH	polycyclic aromatic hydrocarbon
PMW	performance monitoring well
PZ	piezometer
Q1	first quarter
Q2	second quarter
Q3	third quarter
Q4	fourth quarter
reporting period	January 2021 through December 2021
SMP	Site Management Plan

1 Introduction

This Annual Report summarizes monitoring results obtained and operation and maintenance (O&M) activities conducted during the 2021 reporting period for the New York State Department of Environmental Conservation- (NYSDEC-) selected remedy at the New York State Electric & Gas (NYSEG) Dansville former manufactured gas plant (MGP) site. The former MGP site is located in the Village of Dansville, Livingston County, New York (Figure 1). The site is an approximately 2.25-acre area bounded by Battle Street to the north, Ossian Street to the south, a former commercial dry-cleaning business and residential properties to the east, and residential properties to the west. A site layout is provided as Figure 2.

This report covers the period from January 2021 through December 2021 (reporting period) and includes data collected during the 2021 quarterly visits (i.e., Q1 through Q4 2021). Activities completed during the reporting period were consistent with the first year of Post-Remediation Media Monitoring and Sampling described in the Site Management Plan (SMP) (Arcadis 2022). However, the groundwater sampling component was not completed because NYSEG was in the process of obtaining/renewing access agreements with property owners for off-site wells. Access to off-site wells was secured in 2022, and quarterly components of the first year Post-Remediation Media Monitoring and Sampling will be repeated in 2022. Groundwater sampling will also be repeated in 2022, as described in Section 4.4.1.2 of the SMP, now that off-site well access has been secured.

1.1 Background

The Operable Unit 1 (OU-1) and Operable Unit 2 (OU-2) NYSDEC-selected remedies are presented in the 2008 and 2017 Record of Decision documents (NYSDEC 2008, 2017), respectively. The soil remedy for the site consisted of excavation and off-site treatment or disposal of MGP-impacted soil and was completed in 2015. Remedial components associated with the groundwater treatment and non-aqueous phase liquid (NAPL) recovery systems were subsequently installed in May 2015 (NAPL recovery wells [NRWs] NRW-01 and NRW-02), October and December 2018 (monitoring wells [MWs] MW-1801 through MW-1810), and July 2020 (application wells [AWs] AW-01 through AW-26 and performance monitoring wells [PMWs] PMW-01 through PMW-06).

Relevant site background information is presented in the following subsections.

1.1.1 Remedial Construction

This section presents the primary OU-1 and OU-2 remedial components completed in accordance with the NYSDEC-selected remedies.

1.1.1.1 Operable Unit 1

NYSEG implemented the OU-1 NYSDEC-selected remedy from February 2014 to April 2015. OU-1 remedial construction activities generally consisted of the following:

- Removing and demolishing foundations/structures, concrete slabs, and the concrete loading dock, as well as existing asphalt, site fencing, and site drainage features, as necessary; and
- Excavating and disposing of MGP waste, NAPL, and contaminated soils meeting one or more of the following criteria: visible tar or oil; the presence of sheens or odors and total polycyclic aromatic hydrocarbon (PAH) concentrations greater than 1,000 milligrams per kilogram; or total benzene, toluene, ethylbenzene, and

xylylene (BTEX) concentrations above 10 milligrams per kilogram. NYSEG excavated approximately 24,446 cubic yards of material as part of remedial construction activities.

1.1.1.2 Operable Unit 2

NYSEG implemented the OU-2 NYSDEC-selected remedy from July to August 2020. OU-2 remedial construction activities generally consisted of the following:

- Installing coal tar NRWs to facilitate manual mobile coal tar recovery (if present);
- Installing 10 MWs (MW-1801 through MW-1810), each with a 2-foot sump, within OU-2 during the pre-design investigation to facilitate groundwater monitoring and manual recovery of potentially mobile NAPL;
- Installing 26 AWs to administer oxygen-releasing substrate (ORS) sleeves in groundwater to facilitate in-situ enhanced biodegradation of BTEX and PAH compounds; and
- Installing six PMWs (as pairs) immediately upgradient and downgradient of the AWs to facilitate groundwater dissolved oxygen (DO) monitoring.

Site well construction details are provided in the SMP (Arcadis 2022). The associated site well network locations are presented on Figures 2 and 3.

1.1.2 Post-Remediation Groundwater Treatment

The OU-2 Record of Decision (NYSDEC 2017) identifies the following constituents of concern for groundwater:

- BTEX; and
- PAHs – benzo(a)anthracene, chrysene, dibenz(a,h)anthracene, naphthalene, phenanthrene, indeno(1,2,3-cd)pyrene, and acenaphthene.

To implement the NYSDEC-selected in-situ enhanced biodegradation groundwater remedy, ORS sleeves (i.e., Provectus® ORS™ sleeves) were deployed in twenty-six 4-inch-diameter AWs during the reporting period. Treatment system performance was measured using PMW pairs located hydraulically upgradient and downgradient from the AWs.

Enhancing the population of naturally occurring indigenous bacteria targets the single-ringed, less complex, more mobile BTEX compounds rather than the multi-ringed, complex PAH compounds. However, PAHs (particularly the seven identified as constituents of concern) are also considered when evaluating the groundwater remedy.

NAPL monitoring and passive recovery during the reporting period was completed at NRW-01, NRW-02, MW-1802, MW-1803, PMW-03, PMW-04, AW-13, AW-21, and AW-22.

1.2 Objectives

As presented in the SMP (Arcadis 2022), groundwater remedy objectives at the site are to:

- Passively remove recoverable NAPL, if encountered.
- Assess groundwater movement patterns at the site.
- Monitor groundwater quality to document dissolved BTEX and PAH concentrations at the site.

- Perform annual inspections of the site well network.
- Conduct an annual comprehensive site condition inspection.

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

- Site-wide data collected during the monitoring period, including DO and groundwater elevation data; and
- Conclusions and recommendations for modifications to the monitoring requirements, if required.

For comparison purposes and to support the conclusions and recommendations presented in Section 5, data collected during the site visits are included in tables, where appropriate. Monitoring, NAPL gauging, and O&M activities for the reporting period were conducted in accordance with the SMP (Arcadis 2022) and are presented in this report.

2 Monitoring and Results

Monitoring, gauging, and O&M tasks completed during the reporting period covered by this report are summarized in Table 1 below.

Table 1 – Monitoring, Operation, and Maintenance Tasks

Event	Dates Completed	Monitoring and Gauging	Treatment System Maintenance	Site Inspection	Well Inspections
Monitoring (Annual)	February 23-25, 2021	X	X		
Monitoring (Quarterly)	May 18, 2021	X	X		
Monitoring (Semi-Annual)	August 11-12, 2021	X	X	X	
Monitoring (Quarterly)	November 22-23, 2021	X	X		X

Monitoring and gauging during the reporting period consisted of:

- Quarterly groundwater elevation measurements in 14 MWs, 10 piezometers (PZs), 26 AWs, six PMWs, and two NRWs; and
- Quarterly NAPL gauging and passive NAPL removal at NRW-01, NRW-02, MW-1802, MW-1803, PMW-03, PMW-04, AW-13, AW-21, and AW-22.

Monitoring and gauging results are presented below.

2.1 Potentiometric Surfaces and Groundwater Flow

Field personnel measured the relative depth to groundwater from surveyed measuring points during the quarterly (Q1 through Q4) monitoring events from the following locations, as described in the SMP (Arcadis 2022):

- 11 site MWs (MW04S, MW-1801, MW-1802, MW-1803, MW-1804, MW-1805, MW-1806, MW-1807, MW-1808, MW-1809, and MW-1810); and
- 13 PZs (PZ13, PZ14, PZ17, PZ18, PZ19, PZ24, PZ25, PZ26, PZ29, PZ31, PZ32, PZ35, and PZ36).

Water elevations measured during this reporting period are summarized in Table 2.

Some of the locations (i.e., PZ13, PZ14, PZ17, PZ18, PZ19, PZ24, PZ25, PZ26, PZ31, PZ32, PZ35, and PZ36) were not gauged during all the quarterly monitoring events due to not having an approved access agreement, as noted in Table 2.

The water table surface and groundwater flow directions for each quarterly gauging event during the reporting period are presented on Figures 4 through 7, respectively. As shown on the figures, the general groundwater flow direction at the site was to the northwest during all four gauging events.

2.2 Non-Aqueous Phase Liquid Monitoring

NAPL monitoring was conducted quarterly during the reporting period. Field personnel gauged the following locations for the presence of NAPL:

- Two NRWs (NRW-01 and NRW-02);
- 11 site MWs (MW04S, MW-1801, MW-1802, MW-1803, MW-1804, MW-1805, MW-1806, MW-1807, MW-1808, MW-1809, and MW-1810);
- 13 PZs (PZ13, PZ14, PZ17, PZ18, PZ19, PZ24, PZ25, PZ26, PZ29, PZ31, PZ32, PZ35, and PZ36);
- 26 AWs (AW-01 through AW-26); and
- Six PMWs (PMW-01 through PMW-06).

The locations of the NRWs, MWs, PZs, AWs, and PMWs are shown on Figures 2 and 3. NAPL gauging data are presented in Table 2. Some locations (i.e., PZ13, PZ14, PZ17, PZ18, PZ19, PZ24, PZ25, PZ26, PZ31, PZ32, PZ35, and PZ36) were not gauged during all the quarterly monitoring events due to not having an approved access agreement, as noted in Table 2.

NAPL was not observed in the NRWs during the reporting period; however, light NAPL (LNAPL) was observed in MW-1802, MW-1803, PMW-03, PMW-04, AW-13, AW-21, and AW-22, and trace dense NAPL (DNAPL) was observed in MW-1802 and AW-13. Sorbent socks were installed in MW-1802, MW-1803, PMW-03, PMW-04, AW-13, AW-21, and AW-22 to passively remove LNAPL. The quantity of LNAPL observed in AW-13 did not warrant installing a sorbent sock until the Q4 site visit. Sorbent socks were replaced during each quarterly visit, as needed. As a Green Remediation effort, after a sorbent sock was used to passively remove LNAPL for a quarter, the sock was inverted in the well to allow both ends of the sock to absorb LNAPL at the water interface before being replaced.

The results of NAPL monitoring during the reporting period are as follows:

February 2021

- MW-1802 – Measured approximately 1.7 feet (apparent thickness) of LNAPL. Removal was attempted with a bailer; however, no LNAPL was recovered. Reddish brown LNAPL was observed on the outside of the bailer. It is believed that the February 2021 LNAPL measurement was erroneous and the result of a malfunctioning interface probe, considering trace LNAPL was observed at this location during the remaining quarterly 2021 gauging events (summarized below). Additionally, approximately 0.12 feet of dark reddish brown DNAPL was observed on the bottom of interface probe (no removal performed).
- PMW-03 – Observed trace reddish brown LNAPL (no removal performed).
- AW-12 – Observed trace dark brown DNAPL on bottom of interface probe (no removal performed).
- AW-21 – Observed trace reddish brown LNAPL (installed sorbent sock).
- AW-22 – Observed trace black LNAPL (installed sorbent sock).

May 2021

- MW-1802 – Observed trace LNAPL (installed sorbent sock);
- MW-1803 – Observed trace LNAPL (installed sorbent sock);
- PMW-03 – Observed trace dark reddish brown LNAPL (installed sorbent sock);
- PMW-04 – Observed trace LNAPL (installed sorbent sock);

- AW-21 – Observed trace dark brown LNAPL (inverted and re-installed sorbent sock); and
- AW-22 – Observed trace dark brown LNAPL (inverted and re-installed sorbent sock).

August 2021

- MW-1802 – Observed trace LNAPL (inverted and re-installed sorbent sock);
- MW-1803 – Observed trace LNAPL (inverted and re-installed sorbent sock);
- PMW-03 – Observed trace LNAPL (inverted and re-installed sorbent sock);
- PMW-04 – Observed trace LNAPL (inverted and re-installed sorbent sock);
- AW-21 – Observed trace LNAPL (installed new sorbent sock); and
- AW-22 – Observed trace LNAPL (installed new sorbent sock).

November 2021

- MW-1802 – Observed trace LNAPL (installed new sorbent sock);
- MW-1803 – Observed trace LNAPL (installed new sorbent sock);
- PMW-03 – Observed trace dark orange LNAPL (approximately 0.008 gallons of LNAPL removed with bailer; installed new sorbent sock);
- PMW-04 – Observed trace LNAPL (installed new sorbent sock);
- AW-12 – Observed trace LNAPL (installed new sorbent sock);
- AW-21 – Observed trace LNAPL (installed new sorbent sock); and
- AW-22 – Observed trace LNAPL (installed new sorbent sock).

As presented in Table 2, NAPL has not been observed in either of the NRWs. DNAPL has not been observed in MW-1802 or AW-12 since the February 2021 monitoring event.

Spent sorbent socks were containerized in a 55-gallon drum and staged on site in a secure area for disposal by NYSEG.

2.3 Groundwater Quality

Groundwater samples were not collected during the reporting period because NYSEG was in the process of obtaining/renewing access agreements for off-site MWs used to assess remedy effectiveness.

Post-Remediation Media Monitoring and Sampling during the first year of groundwater treatment was limited to groundwater elevation measurements at select wells to assess potentiometric surfaces and groundwater flow at the site. The planned sampling program to assess concentrations of BTEX and PAHs in on- and off-site groundwater was postponed due to the lack of approved access to off-site MWs.

3 Operation and Maintenance

O&M activities conducted during the reporting period are presented in Table 1 and included:

- ORS application and monitoring;
- The annual site well network inspection; and
- A comprehensive site condition inspection.

The annual site and well network inspections recommended in the SMP (Arcadis 2022) were completed during the Q3 and Q4 site visits, respectively. The site well network and comprehensive site inspections will occur during the Q3 (August) site visit for future monitoring periods.

A summary of these activities is presented in the following subsections.

3.1 Oxygen-Releasing Substrate Application and Monitoring

ORS application was initiated during the Q1 2021 site visit. Prior to initial ORS deployment in the AWs, DO concentrations were measured in each AW and PMW, using a DO field meter, on February 24, 2021. One ORS sleeve was deployed in a stainless-steel canister suspended within the saturated screened interval in each AW. DO was again measured in the AWs and PMWs on February 25, 2021.

The ORS was removed and replaced during the Q3 monitoring event. Prior to removing the spent ORS, DO was measured in the AWs and PMWs on August 11, 2021. Following DO measurements, the ORS was removed, the canisters were cleaned and rinsed, and a new ORS sleeve was deployed.

Additional DO measurements were collected during the Q2 and Q4 events on May 18 and November 23, 2021, respectively.

DO field measurements are provided in Table 3. When comparing DO data to the baseline results collected on February 24, 2021, data indicate ORS has increased DO in the AWs and, in general, has increased DO in the PMWs.

Spent ORS sleeves were placed in 55-gallon steel drums for waste characterization and disposal by NYSEG.

3.2 Well Network

Inspection activities/findings are presented in the following subsections.

3.2.1 Well Inspection

Arcadis visually inspected site wells during the Q4 site visit to confirm protective road box and surrounding concrete apron integrity and to identify potential repairs. A well integrity assessment form documenting the condition of each well in the well network (with access at the time of inspection), including protective covers, well caps, and general well integrity, was completed and is saved in the project file.

Arcadis observed the following deficiencies that require repair:

- MW01D – The locking well cap, lock, j-plug, and road box are missing.
- MW-1805 – Both bolts securing the road box lid are missing a bolt head and are rusted in the bolt tabs.

Recommendations to correct the deficiencies are provided in Section 5.2.

3.2.2 Depth to Bottom Assessment

Arcadis field personnel measured the depth to bottom and accumulated sediment thickness (e.g., silts, sands) at each well during each quarterly site visit, as presented in Table 2. Depth to bottom measurements were compared to the installed depth, as reported on each well's construction or development log, to determine whether re-development is needed. The most recent gauging event results are summarized below.

Monitoring Wells

- Ten of the 11 MWs contained less than 1 foot of accumulated sediments.
- MW04S had approximately 2 feet of accumulated sediments.

Piezometers

- Five of the nine PZs contained less than 1 foot of accumulated sediments (Note: PZ19, PZ25, PZ26, and PZ35 were not gauged).
- PZ13 and PZ14 had approximately 2 feet of accumulated sediments.
- PZ31 had approximately 3 feet of accumulated sediments.
- PZ32 had approximately 4.5 feet of accumulated sediments.
- PZ36 had approximately 5.5 feet of accumulated sediments.

Application Wells

- All 26 AWs contained less than 1 foot of accumulated sediments.

Performance Monitoring Wells

- All six PMWs contained less than 1 foot of accumulated sediments.

NAPL Recovery Wells

- The two NRWs contained less than 1 foot of accumulated sediments.

3.3 Annual Site Inspection

Arcadis completed an annual site inspection on August 11, 2021, to identify potential surface cover erosion, settling, or disturbance within the former MGP footprint. The 2021 reporting period Site Inspection Form is included as Appendix A. The annual site inspection indicated that the site cover is in good condition and maintenance to the soil and gravel cover across the site is not required.

4 Disturbance Activities in Potentially Impacted Areas

NYSEG is not aware of any intrusive activities that were conducted in potentially impacted areas during the reporting period.

5 Conclusions and Recommendations

Conclusions and recommendations based on the treatment system monitoring and operation reporting period are presented below.

5.1 Conclusions

Conclusions based on the monitoring period are summarized below.

- Media Monitoring and Sampling requirements were met during the reporting period.
- Groundwater flow direction continues to be to the northwest; the groundwater movement pattern is consistent with previous monitoring events.
- NAPL Monitoring:
 - NAPL was not detected in either of the two NRWs during the reporting period.
 - LNAPL was not observed in measurable thicknesses in the wells monitored for LNAPL. Sorbent socks placed in the wells were successful at removing the minimal quantity of LNAPL entering the wells.
 - DNAPL is not present in sufficient quantity to be removed by active methods (e.g., pumping or bailing).
- Groundwater Quality:
 - As mentioned above in Section 2.3, groundwater samples were not collected during the reporting period.
- Oxygen-Releasing Substrate Monitoring:
 - ORS has increased DO in the AWs and, in general, has increased DO in the PMWs when compared to baseline DO measurements collected February 24, 2021.
- Well Network:
 - Deficiencies in the condition of two MW surface completions were identified during the site inspection. Recommendations for repair are provided in Section 5.2.
 - Accumulated sediment was observed in several site wells ranging in thicknesses from less than 1 foot to approximately 5.5 feet. Recommendations for sediment removal are provided in Section 5.2.
- Annual Site Inspection:
 - The soil and gravel cover across the site and above the groundwater treatment system was in good condition; no repairs were required.
 - Drainage features were clear of obstructions.

5.2 Recommendations

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

- Media Monitoring and Sampling:
 - Continue Media Monitoring and Sampling as described in the SMP (Arcadis 2022).
 - Continue quarterly well gauging as described in the SMP.
 - Initiate the first year of annual groundwater monitoring in August 2022, per the SMP, assuming NYSEG obtains access to off-site MWs.

- NAPL Monitoring:
 - Continue gauging NRWs, MWs, AWs, and PMWs quarterly for the presence of NAPL and, if present, remove to the extent practicable.
- O&M:
 - Continue conducting O&M as described in the SMP.
 - Continue using and replacing (as necessary) sorbent socks to remove trace LNAPL in wells.
 - Conduct the following repairs to address deficiencies in the well network observed during the reporting period:
 - MW01D – Remove debris from the old road box and install a new road box surface completion.
 - MW-1805 – Drill out rusted/stuck bolts from the bolt tabs and re-tap the threads for new bolts.
 - Perform sediment removal using manual methods (bailing) from the following locations:
 - MW01S;
 - MW01D;
 - MW02D;
 - MW04S;
 - PZ13;
 - PZ14;
 - PZ31;
 - PZ32; and
 - PZ36.
- Continue preparing annual reports as described in the SMP.

6 References

Arcadis. 2022. Site Management Plan. Prepared for New York State Electric & Gas Corporation, Dansville Manufactured Gas Plant Site, Dansville New York. November.

NYSDEC 2008. Record of Decision, NYSEG Dansville MGP Site Operable Unit No. 1, Site Number 8-26-012. March.

NYSDEC 2017. Record of Decision, Operable Unit Number 02: Onsite and Offsite Soil and Groundwater, State Superfund Project, Dansville, Livingston County, Site No. 826012. March.

Tables

Table 2
Gauging Data
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New York State Electric & Gas
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Well ID	Measuring Point Elevation	Actual Depth to Bottom (feet bTOC)	Date	Depth to Water (feet bTOC)	Groundwater Elevation	Depth to LNAPL (feet bTOC)	Depth to DNAPL (feet bTOC)	Depth to Bottom (feet bTOC)	Accumulated Thickness of Sediments (feet)	
PZ13	681.93	20.00	12/19/2018	10.05	671.94	NA	NA	18.22	1.78	
			2/23/2021	No access						
			5/18/2021	No access						
			8/11/2021	10.02	671.97	NA	NA	18.18	1.82	
			11/22/2021	9.90	672.09	NA	NA	18.18	1.82	
PZ14	678.37	20.00	2/23/2021	No access						
			5/18/2021	No access						
			8/11/2021	12.33	665.87	NA	NA	18.25	1.75	
			11/22/2021	12.32	665.88	NA	NA	18.24	1.76	
			2/23/2021	No access						
PZ17	684.47	16.00	5/18/2021	No access						
			8/11/2021	No access						
			11/22/2021	7.48	676.78	NA	NA	15.16	0.84	
			12/20/2018	9.97	676.74	NA	NA	18.71	0.29	
			2/23/2021	No access						
PZ18	686.91	19.00	5/18/2021	No access						
			8/11/2021	10.99	675.72	NA	NA	18.62	0.38	
			11/22/2021	9.74	676.97	NA	NA	18.62	0.38	
			2/23/2021	No access						
			5/18/2021	No access						
PZ19	685.29	20.00	8/11/2021	No access						
			11/22/2021	No access						
			12/19/2018	10.49	670.69	NA	NA	18.24	1.26	
			2/23/2021	No access						
			5/18/2021	No access						
PZ24	681.24	19.50	8/11/2021	10.51	670.67	NA	NA	17.70	1.80	
			11/22/2021	10.36	670.82	NA	NA	19.27	0.23	
			2/23/2021	No access						
			5/18/2021	No access						
			8/11/2021	No access						
PZ25	680.87	27.00	11/22/2021	No access						
			2/23/2021	No access						
			5/18/2021	No access						
			8/11/2021	No access						
			11/22/2021	No access						
PZ26	677.79	17.50	2/23/2021	No access						
			5/18/2021	No access						
			8/11/2021	No access						
			11/22/2021	No access						
			12/19/2018	9.20	680.13	NA	NA	19.63	0.37	
PZ29	689.38	20.00	2/23/2021	9.08	680.25	NA	NA	19.79	0.21	
			5/18/2021	8.34	680.99	NA	NA	19.67	0.33	
			8/11/2021	8.91	680.42	NA	NA	19.65	0.35	
			11/22/2021	8.56	680.77	NA	NA	19.66	0.34	
			2/23/2021	No access						
PZ31	687.21	23.50	5/18/2021	No access						
			8/11/2021	12.19	674.95	NA	NA	20.26	3.24	
			11/22/2021	12.14	675.00	NA	NA	20.35	3.15	
			12/19/2018	9.40	674.57	NA	NA	15.51	4.49	
			2/23/2021	No access						
PZ32	684.02	20.00	5/18/2021	No access						
			8/11/2021	9.41	674.56	NA	NA	15.51	4.49	
			11/22/2021	9.33	674.64	NA	NA	15.55	4.45	
			2/23/2021	No access						
			5/18/2021	No access						
PZ35	686.35	24.00	8/11/2021	No access						
			11/22/2021	No access						
			12/19/2018	10.26	676.34	NA	NA	17.01	5.49	
			2/23/2021	No access						
			5/18/2021	No access						
PZ36	686.73	22.50	8/11/2021	No access						
			11/22/2021	No access						
			10.14	676.46	NA	NA	16.98	5.52		
			2/23/2021	No access						
			5/18/2021	No access						

See Notes on Page 5.

Table 2
Gauging Data
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Well ID	Measuring Point Elevation	Actual Depth to Bottom (feet bTOC)	Date	Depth to Water (feet bTOC)	Groundwater Elevation	Depth to LNAPL (feet bTOC)	Depth to DNAPL (feet bTOC)	Depth to Bottom (feet bTOC)	Accumulated Thickness of Sediments (feet)
MW04S	686.01	20.00	12/19/2018	10.95	674.91	NA	NA	18.06	1.94
			2/23/2021	11.08	674.78	NA	NA	18.16	1.84
			5/18/2021	10.57	675.29	NA	NA	18.01	1.99
			8/11/2021	10.89	674.97	NA	NA	18.02	1.98
			11/22/2021	10.76	675.10	NA	NA	17.98	2.02
MW-1801	686.27	21.00	12/19/2018	9.95	676.27	NA	NA	20.77	0.23
			2/23/2021	10.31	675.91	NA	NA	20.91	0.09
			5/18/2021	9.85	676.37	NA	NA	20.79	0.21
			8/11/2021	9.40	676.82	NA	NA	20.78	0.22
			11/22/2021	9.74	676.48	NA	NA	20.78	0.22
MW-1802	688.10	19.00	12/19/2018	11.41	676.61	NA	NA	18.86	0.14
			2/23/2021	13.60	676.12	11.90	18.86	18.98	0.02
			5/18/2021	11.09	676.93	TR	NA	18.84	0.16
			8/11/2021	11.25	676.77	TR	NA	18.84	0.16
			11/22/2021	11.13	676.89	TR	NA	18.86	0.14
MW-1803	686.98	19.00	12/19/2018	9.91	677.05	NA	NA	18.49	0.51
			2/23/2021	10.65	676.31	NA	NA	18.61	0.39
			5/18/2021	9.51	677.45	TR	NA	18.49	0.51
			8/11/2021	9.75	677.21	TR	NA	18.51	0.49
			11/22/2021	9.53	677.43	TR	NA	18.60	0.40
MW-1804	686.67	13.00	12/19/2018	8.65	677.96	NA	NA	12.61	0.39
			2/23/2021	9.41	677.20	NA	NA	12.74	0.26
			5/18/2021	7.86	678.75	NA	NA	12.65	0.35
			8/11/2021	8.41	678.20	NA	NA	12.62	0.38
			11/22/2021	8.21	678.40	NA	NA	12.61	0.39
MW-1805	685.85	17.00	12/19/2018	11.43	674.37	NA	NA	16.58	0.42
			2/23/2021	11.66	674.14	NA	NA	16.73	0.27
			5/18/2021	11.15	674.65	NA	NA	16.66	0.34
			8/11/2021	11.42	674.38	NA	NA	16.62	0.38
			11/22/2021	11.39	674.41	NA	NA	16.61	0.39
MW-1806	686.87	15.00	12/19/2018	11.55	675.32	NA	NA	14.58	0.42
			2/23/2021	11.76	675.11	NA	NA	14.69	0.31
			5/18/2021	11.33	675.54	NA	NA	14.62	0.38
			8/11/2021	11.43	675.44	NA	NA	14.60	0.40
			11/22/2021	11.37	675.50	NA	NA	14.61	0.39
MW-1807	683.15	18.00	12/19/2018	9.82	673.34	NA	NA	17.66	0.34
			8/11/2021	9.94	673.22	NA	NA	17.36	0.64
			11/22/2021	9.83	673.33	NA	NA	17.41	0.59
MW-1808	686.68	21.00	12/19/2018	10.23	676.38	NA	NA	20.81	0.19
			2/23/2021	10.59	676.02	NA	NA	20.55	0.45
			5/18/2021	10.10	676.51	NA	NA	20.47	0.53
			8/11/2021	10.16	676.45	NA	NA	20.78	0.22
			11/22/2021	10.11	676.50	NA	NA	20.81	0.19
MW-1809	682.62	15.00	12/19/2018	9.40	673.09	NA	NA	14.54	0.46
			8/11/2021	9.50	672.99	NA	NA	14.55	0.45
			11/22/2021	9.41	673.08	NA	NA	14.52	0.48
MW-1810	689.19	22.15	12/19/2018	10.26	678.77	NA	NA	22.00	0.15
			2/23/2021	10.27	678.76	NA	NA	22.14	0.01
			5/18/2021	9.88	679.15	NA	NA	22.02	0.13
			8/11/2021	10.11	678.92	NA	NA	22.01	0.14
			11/22/2021	10.02	679.01	NA	NA	22.01	0.14
NRW-01	688.97	21.00	2/23/2021	9.28	679.69	NA	NA	20.52	0.48
			5/18/2021	7.87	681.10	NA	NA	20.71	0.29
			8/11/2021	8.43	680.54	NA	NA	20.61	0.39
			11/22/2021	6.44	682.53	NA	NA	20.58	0.42
NRW-02	689.01	24.00	2/23/2021	9.32	679.69	NA	NA	23.95	0.05
			5/18/2021	7.89	681.12	NA	NA	23.89	0.11
			8/11/2021	8.48	680.53	NA	NA	23.83	0.17
			11/22/2021	6.48	682.53	NA	NA	23.81	0.19

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Well ID	Measuring Point Elevation	Actual Depth to Bottom (feet bTOC)	Date	Depth to Water (feet bTOC)	Groundwater Elevation	Depth to LNAPL (feet bTOC)	Depth to DNAPL (feet bTOC)	Depth to Bottom (feet bTOC)	Accumulated Thickness of Sediments (feet)
AW-01	685.51	17.03	2/23/2021	10.52	674.99	NA	NA	17.09	-0.06
			5/18/2021	10.00	675.51	NA	NA	16.99	0.04
			8/11/2021	10.29	675.22	NA	NA	16.87	0.16
			11/22/2021	10.20	675.31	NA	NA	16.85	0.18
AW-02	685.59	19.52	2/23/2021	10.54	675.05	NA	NA	19.57	-0.05
			5/18/2021	10.02	675.57	NA	NA	19.46	0.06
			8/11/2021	10.32	675.27	NA	NA	19.41	0.11
			11/22/2021	10.29	675.30	NA	NA	19.45	0.07
AW-03	685.83	16.49	2/23/2021	10.59	675.24	NA	NA	16.55	-0.06
			5/18/2021	10.09	675.74	NA	NA	16.45	0.04
			8/11/2021	10.36	675.47	NA	NA	16.41	0.08
			11/22/2021	10.23	675.60	NA	NA	16.43	0.06
AW-04	686.01	16.48	2/23/2021	9.94	676.07	NA	NA	16.52	-0.04
			5/18/2021	9.49	676.52	NA	NA	16.45	0.03
			8/11/2021	9.58	676.43	NA	NA	16.39	0.09
			11/22/2021	9.37	676.64	NA	NA	16.34	0.14
AW-05	686.12	16.69	2/23/2021	9.84	676.28	NA	NA	16.81	-0.12
			5/18/2021	9.32	676.80	NA	NA	16.69	0.00
			8/11/2021	9.49	676.63	NA	NA	16.65	0.04
			11/22/2021	9.38	676.74	NA	NA	16.64	0.05
AW-06	686.20	16.48	2/23/2021	9.84	676.28	NA	NA	16.81	-0.12
			5/18/2021	9.32	676.80	NA	NA	16.69	0.00
			8/11/2021	9.49	676.63	NA	NA	16.65	0.04
			11/22/2021	9.38	676.74	NA	NA	16.64	0.05
AW-07	686.26	16.45	2/23/2021	9.79	676.47	NA	NA	16.41	0.04
			5/18/2021	9.32	676.94	NA	NA	16.30	0.15
			8/11/2021	9.43	676.83	NA	NA	16.30	0.15
			11/22/2021	9.37	676.89	NA	NA	16.24	0.21
AW-08	686.52	16.45	2/23/2021	10.05	676.47	NA	NA	16.51	-0.06
			5/18/2021	9.69	676.83	NA	NA	16.37	0.08
			8/11/2021	9.74	676.78	NA	NA	16.33	0.12
			11/22/2021	9.70	676.82	NA	NA	16.28	0.17
AW-09	686.57	16.56	2/23/2021	10.28	676.29	NA	NA	16.62	-0.06
			5/18/2021	9.81	676.76	NA	NA	16.51	0.05
			8/11/2021	9.95	676.62	NA	NA	16.49	0.07
			11/22/2021	9.80	676.77	NA	NA	16.51	0.05
AW-10	686.38	16.86	2/23/2021	10.09	676.29	NA	NA	16.92	-0.06
			5/18/2021	9.54	676.84	NA	NA	16.79	0.07
			8/11/2021	9.68	676.70	NA	NA	16.75	0.11
			11/22/2021	9.55	676.83	NA	NA	16.75	0.11
AW-11	686.52	16.20	2/23/2021	10.18	676.34	NA	NA	16.28	-0.08
			5/18/2021	9.63	676.89	NA	NA	16.18	0.02
			8/11/2021	9.74	676.78	NA	NA	16.14	0.06
			11/22/2021	9.63	676.89	NA	NA	16.12	0.08
AW-12	687.09	17.00	2/23/2021	10.71	676.38	NA	TR	17.05	-0.05
			5/18/2021	10.24	676.85	NA	NA	17.00	0.00
			8/11/2021	10.20	676.89	NA	NA	16.90	0.10
			11/22/2021	10.14	676.95	TR	NA	16.87	0.13
AW-13	687.05	18.00	2/23/2021	10.68	676.37	NA	NA	18.02	-0.02
			5/18/2021	10.17	676.88	NA	NA	17.98	0.02
			8/11/2021	10.13	676.92	NA	NA	17.84	0.16
			11/22/2021	10.11	676.94	NA	NA	17.84	0.16
AW-14	687.34	17.95	2/23/2021	11.03	676.31	NA	NA	18.04	-0.09
			5/18/2021	10.47	676.87	NA	NA	17.99	-0.04
			8/11/2021	10.50	676.84	NA	NA	17.86	0.09
			11/22/2021	10.39	676.95	NA	NA	17.85	0.10

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Well ID	Measuring Point Elevation	Actual Depth to Bottom (feet bTOC)	Date	Depth to Water (feet bTOC)	Groundwater Elevation	Depth to LNAPL (feet bTOC)	Depth to DNAPL (feet bTOC)	Depth to Bottom (feet bTOC)	Accumulated Thickness of Sediments (feet)
AW-15	687.51	16.44	2/23/2021	11.30	676.21	NA	NA	16.50	-0.06
			5/18/2021	10.51	677.00	NA	NA	16.50	-0.06
			8/11/2021	10.57	676.94	NA	NA	16.37	0.07
			11/22/2021	10.43	677.08	NA	NA	16.34	0.10
AW-16	687.75	16.19	2/23/2021	11.36	676.39	NA	NA	16.25	-0.06
			5/18/2021	10.51	677.24	NA	NA	16.18	0.01
			8/11/2021	10.62	677.13	NA	NA	16.08	0.11
			11/22/2021	10.53	677.22	NA	NA	16.09	0.10
AW-17	687.69	16.08	2/23/2021	11.19	676.50	NA	NA	16.14	-0.06
			5/18/2021	10.36	677.33	NA	NA	16.03	0.05
			8/11/2021	10.40	677.29	NA	NA	15.95	0.13
			11/22/2021	10.37	677.32	NA	NA	16.01	0.07
AW-18	687.74	16.22	2/23/2021	11.24	676.50	NA	NA	16.25	-0.03
			5/18/2021	10.32	677.42	NA	NA	16.15	0.07
			8/11/2021	10.43	677.31	NA	NA	16.12	0.10
			11/22/2021	10.35	677.39	NA	NA	16.05	0.17
AW-19	687.73	16.70	2/23/2021	11.20	676.53	NA	NA	16.79	-0.09
			5/18/2021	10.16	677.57	NA	NA	16.63	0.07
			8/11/2021	10.32	677.41	NA	NA	16.61	0.09
			11/22/2021	10.03	677.70	NA	NA	16.63	0.07
AW-20	687.59	16.70	2/23/2021	11.03	676.56	NA	NA	16.72	-0.02
			5/18/2021	9.95	677.64	NA	NA	16.55	0.15
			8/11/2021	10.10	677.49	NA	NA	16.56	0.14
			11/22/2021	9.97	677.62	NA	NA	16.58	0.12
AW-21	687.43	16.40	2/23/2021	10.93	676.50	TR	NA	16.46	-0.06
			5/18/2021	9.76	677.67	TR	NA	16.29	0.11
			8/11/2021	9.90	677.53	TR	NA	16.35	0.05
			11/22/2021	9.77	677.66	TR	NA	16.34	0.06
AW-22	687.12	19.30	2/23/2021	10.75	676.37	TR	NA	19.35	-0.05
			5/18/2021	9.56	677.56	TR	NA	19.16	0.14
			8/11/2021	9.74	677.38	TR	NA	19.16	0.14
			11/22/2021	9.58	677.54	TR	NA	19.16	0.14
AW-23	686.86	16.46	2/23/2021	10.44	676.42	NA	NA	16.54	-0.08
			5/18/2021	9.30	677.56	NA	NA	16.40	0.06
			8/11/2021	9.55	677.31	NA	NA	16.36	0.10
			11/22/2021	9.23	677.63	NA	NA	16.40	0.06
AW-24	686.89	16.50	2/23/2021	10.45	676.44	NA	NA	16.56	-0.06
			5/18/2021	9.23	677.66	NA	NA	16.31	0.19
			8/11/2021	9.51	677.38	NA	NA	16.38	0.12
			11/22/2021	9.21	677.68	NA	NA	16.34	0.16
AW-25	686.81	15.61	2/23/2021	10.08	676.73	NA	NA	15.72	-0.11
			5/18/2021	8.78	678.03	NA	NA	15.51	0.10
			8/11/2021	9.19	677.62	NA	NA	15.55	0.06
			11/22/2021	8.86	677.95	NA	NA	15.56	0.05
AW-26	686.95	17.94	2/23/2021	10.10	676.85	NA	NA	18.02	-0.08
			5/18/2021	8.79	678.16	NA	NA	17.76	0.18
			8/11/2021	9.14	677.81	NA	NA	17.80	0.14
			11/22/2021	8.85	678.10	NA	NA	17.79	0.15
PMW-01	685.87	19.65	2/23/2021	10.83	675.04	NA	NA	19.70	-0.05
			5/18/2021	10.33	675.54	NA	NA	19.59	0.06
			8/11/2021	10.63	675.24	NA	NA	19.58	0.07
			11/22/2021	10.49	675.38	NA	NA	19.58	0.07
PMW-02	685.70	19.06	2/23/2021	10.60	675.10	NA	NA	19.12	-0.06
			5/18/2021	10.09	675.61	NA	NA	19.05	0.01
			8/11/2021	10.32	675.38	NA	NA	19.02	0.04
			11/22/2021	10.26	675.44	NA	NA	19.00	0.06

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Well ID	Measuring Point Elevation	Actual Depth to Bottom (feet bTOC)	Date	Depth to Water (feet bTOC)	Groundwater Elevation	Depth to LNAPL (feet bTOC)	Depth to DNAPL (feet bTOC)	Depth to Bottom (feet bTOC)	Accumulated Thickness of Sediments (feet)
PMW-03	687.40	18.03	2/23/2021	11.02	676.38	TR	NA	17.67	0.36
			5/18/2021	10.51	676.89	TR	NA	17.44	0.59
			8/11/2021	10.59	676.81	TR	NA	17.48	0.55
			11/22/2021	10.49	676.91	TR	NA	17.41	0.62
PMW-04	687.35	18.15	2/23/2021	10.94	676.41	NA	NA	18.25	-0.10
			5/18/2021	10.34	677.01	TR	NA	18.03	0.12
			8/11/2021	10.42	676.93	TR	NA	17.98	0.17
			11/22/2021	10.33	677.02	TR	NA	18.00	0.15
PMW-05	687.01	16.65	2/23/2021	10.43	676.58	NA	NA	16.70	-0.05
			5/18/2021	9.24	677.77	NA	NA	16.58	0.07
			8/11/2021	9.54	677.47	NA	NA	16.55	0.10
			11/22/2021	9.28	677.73	NA	NA	16.58	0.07
PMW-06	686.91	17.22	2/23/2021	9.87	677.04	NA	NA	17.28	-0.06
			5/18/2021	8.57	678.34	NA	NA	17.17	0.05
			8/11/2021	9.04	677.87	NA	NA	17.15	0.07
			11/22/2021	8.64	678.27	NA	NA	17.15	0.07

Notes:

1. All measurements from bTOC.
2. Elevations referenced to North American Vertical Datum of 1988. Elevations resurveyed August 24, 2022.

Acronyms and Abbreviations:

bTOC - below Top of Casing
 DNAPL - dense non-aqueous phase liquid
 LNAPL - light non-aqueous phase liquid
 NA - Not available/applicable
 No access - No access agreement in place on gauging date.
 Not accessible - Location temporarily not accessible due to obstruction.
 TR - Trace

Table 3
Dissolved Oxygen Field Results
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Well ID	Gauging Date	Dissolved Oxygen (mg/L)
AW-01	2/24/2021	0.43
	2/25/2021	14.2
	5/18/2021	3.49
	8/11/2021	3.82
	11/23/2021	0.61
AW-02	2/24/2021	0.43
	2/25/2021	28.2
	5/18/2021	18.15
	8/11/2021	10.27
	11/23/2021	1.74
AW-03	2/24/2021	0.31
	2/25/2021	30.27
	5/18/2021	20.08
	8/11/2021	9.9
	11/23/2021	16.34
AW-04	2/24/2021	0.28
	2/25/2021	36.85
	5/18/2021	24.89
	8/11/2021	11.57
	11/23/2021	2.53
AW-05	2/24/2021	0.54
	2/25/2021	33.77
	5/18/2021	20.66
	8/11/2021	21.78
	11/23/2021	1.64
AW-06	2/24/2021	0.47
	2/25/2021	30.65
	5/18/2021	4.65
	8/11/2021	1.65
	11/23/2021	0.69
AW-07	2/24/2021	1.87
	2/25/2021	32.55
	5/18/2021	7.85
	8/11/2021	1.55
	11/23/2021	1.56
AW-08	2/24/2021	0.53
	2/25/2021	31.16
	5/18/2021	13.17
	8/11/2021	7.82
	11/23/2021	1.25
AW-09	2/24/2021	0.36
	2/25/2021	32.95
	5/18/2021	15
	8/11/2021	23.47
	11/23/2021	3.98
AW-10	2/24/2021	0.32
	2/25/2021	31.42
	5/18/2021	19
	8/11/2021	17.7
	11/23/2021	4.8
AW-11	2/24/2021	1.90
	2/25/2021	36.24
	5/18/2021	18.47
	8/11/2021	7.04
	11/23/2021	2.53

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Table 3
Dissolved Oxygen Field Results
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Well ID	Gauging Date	Dissolved Oxygen (mg/L)
AW-12	2/24/2021	0.33
	2/25/2021	33.45
	5/18/2021	21.5
	8/11/2021	17.59
	11/23/2021	13.00
AW-13	2/24/2021	1.17
	2/25/2021	27.78
	5/18/2021	6.45
	8/11/2021	0.56
	11/23/2021	2.06
AW-14	2/24/2021	1.55
	2/25/2021	32.65
	5/18/2021	16.92
	8/11/2021	16.35
	11/23/2021	6.41
AW-15	2/24/2021	0.79
	2/25/2021	31.48
	5/18/2021	16.15
	8/11/2021	18.57
	11/23/2021	12.7
AW-16	2/24/2021	0.29
	2/25/2021	32.21
	5/18/2021	20.04
	8/11/2021	27.69
	11/23/2021	15.31
AW-17	2/24/2021	0.35
	2/25/2021	30.63
	5/18/2021	23.4
	8/11/2021	20.54
	11/23/2021	17.03
AW-18	2/24/2021	0.38
	2/25/2021	19.36
	5/18/2021	18.83
	8/11/2021	20.72
	11/23/2021	15.28
AW-19	2/24/2021	0.34
	2/25/2021	24.35
	5/18/2021	31.22
	8/11/2021	27.31
	11/23/2021	6.2
AW-20	2/24/2021	0.34
	2/25/2021	32.25
	5/18/2021	19.52
	8/11/2021	11.20
	11/23/2021	8.87
AW-21	2/24/2021	0.31
	2/25/2021	32.29
	5/18/2021	16.17
	8/11/2021	13.17
	11/23/2021	14.43
AW-22	2/24/2021	0.49
	2/25/2021	32.12
	5/18/2021	12.96
	8/11/2021	16.98
	11/23/2021	3.82

See Notes on Page 3.

Table 3
Dissolved Oxygen Field Results
2021 Annual Report
New York State Electric & Gas
Dansville Former Manufactured Gas Plant Site



Well ID	Gauging Date	Dissolved Oxygen (mg/L)
AW-23	2/24/2021	0.26
	2/25/2021	20.31
	5/18/2021	5.24
	8/11/2021	2.95
	11/23/2021	1.23
AW-24	2/24/2021	0.60
	2/25/2021	37.05
	5/18/2021	15.78
	8/11/2021	16.53
	11/23/2021	3.9
AW-25	2/24/2021	0.38
	2/25/2021	40.48
	5/18/2021	34.52
	8/11/2021	46.23
	11/23/2021	9.78
AW-26	2/24/2021	0.27
	2/25/2021	37.55
	5/18/2021	20.46
	8/11/2021	11.3
	11/23/2021	3.22
PMW-01	2/24/2021	0.61
	2/25/2021	1.48
	5/18/2021	1.22
	8/11/2021	0.9
	11/23/2021	0.21
PMW-02	2/24/2021	0.32
	2/25/2021	0.3
	5/18/2021	1.31
	8/11/2021	0.31
	11/23/2021	0.23
PMW-03	2/24/2021	2.45
	2/25/2021	2.94
	5/18/2021	1.18
	8/11/2021	0.16
	11/23/2021	0.27
PMW-04	2/24/2021	0.87
	2/25/2021	0.22
	5/18/2021	0.76
	8/11/2021	0.19
	11/23/2021	0.26
PMW-05	2/24/2021	0.19
	2/25/2021	1.31
	5/18/2021	1.11
	8/11/2021	0.17
	11/23/2021	0.77
PMW-06	2/24/2021	0.19
	2/25/2021	0.29
	5/18/2021	4.67
	8/11/2021	0.12
	11/23/2021	0.87

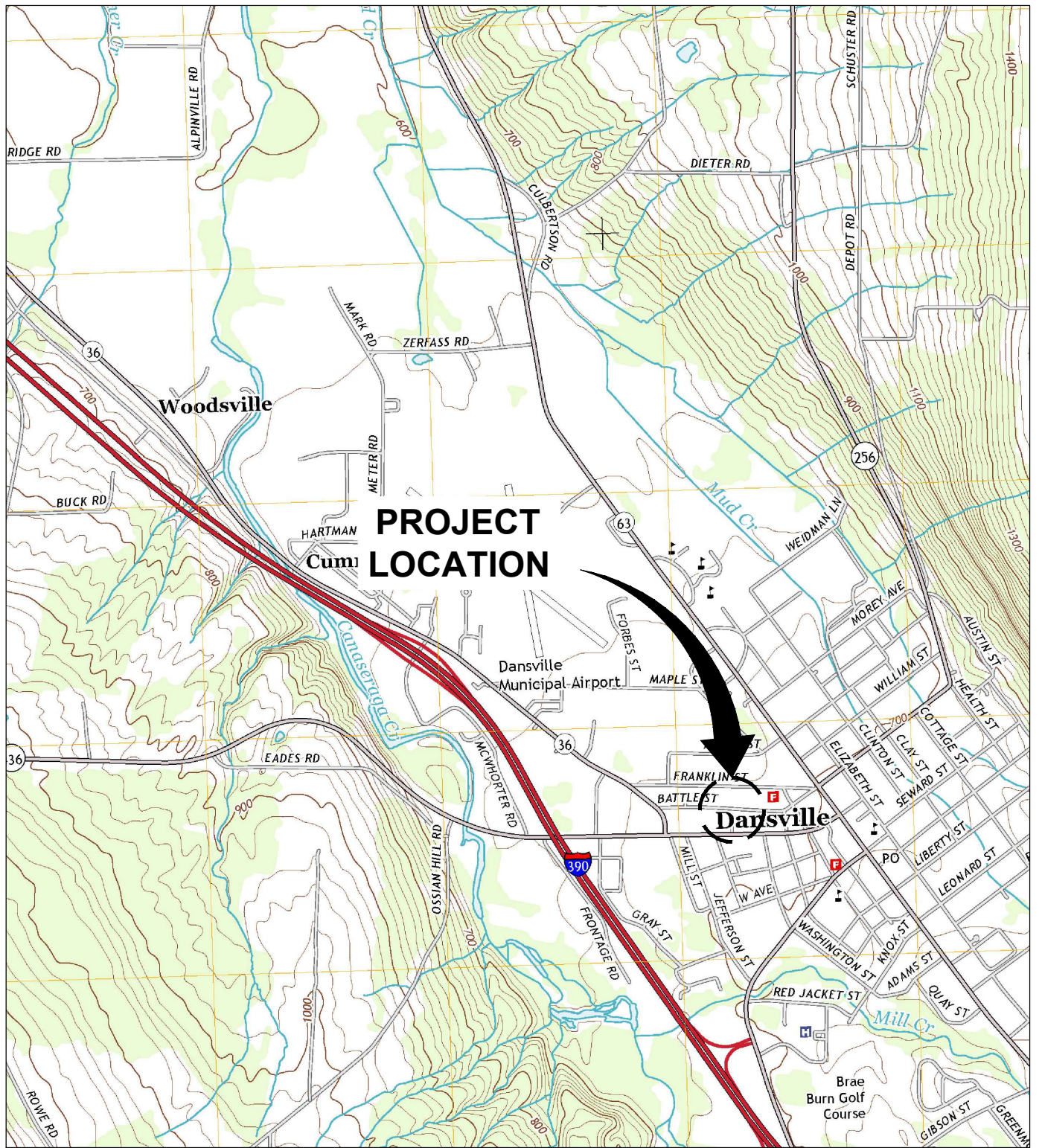
Notes:

Dissolved oxygen measurements recorded in the field using a digital water quality meter.

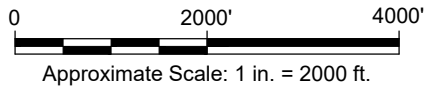
Acronyms and Abbreviations:

mg/L - micrograms per liter

Figures

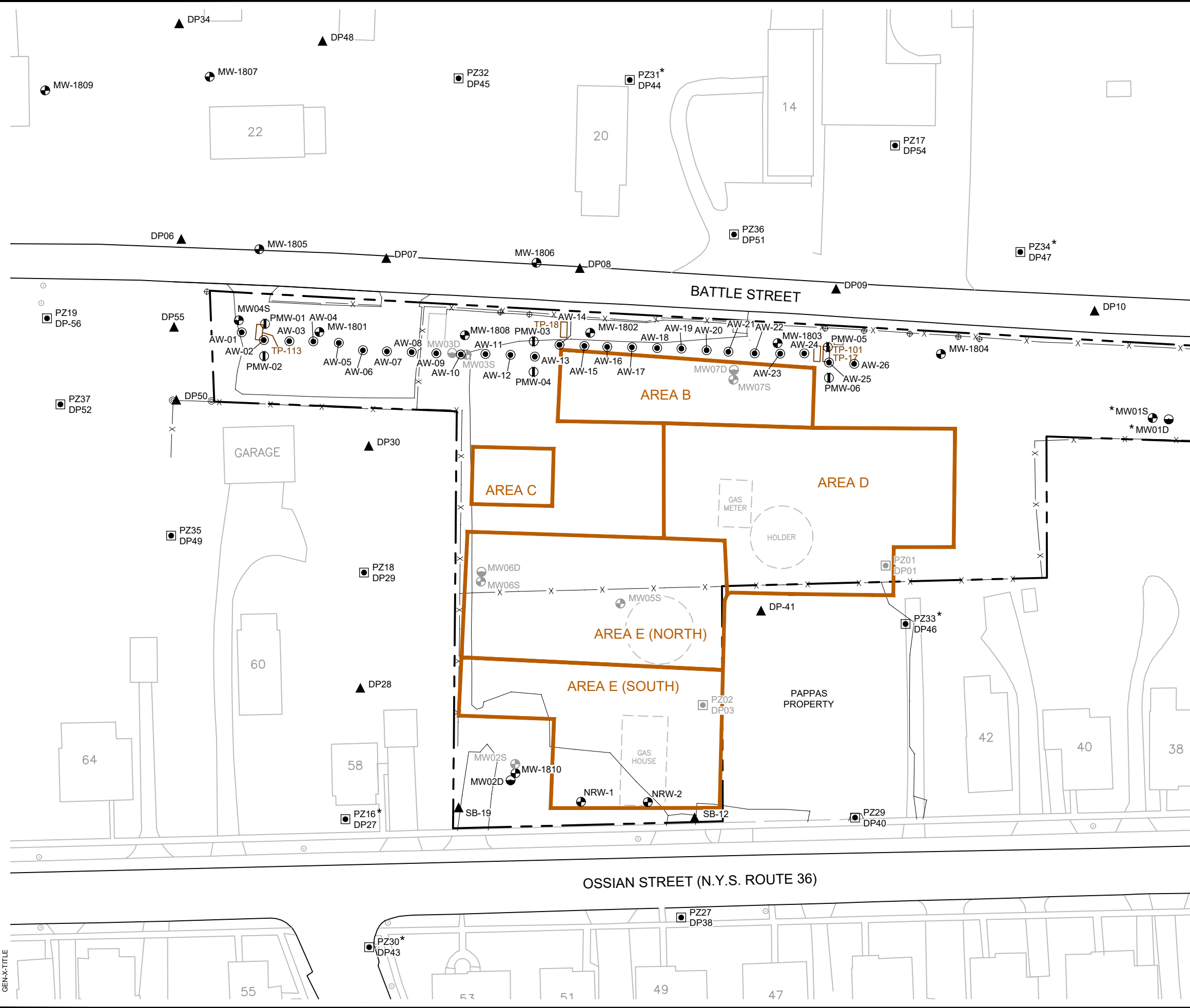


REFERENCE: BASE MAP USGS 7.5 MINUTE QUADRANGLE., DANSVILLE, N.Y. 2013.



NYSEG DANSVILLE FORMER MGP SITE (OU-1 and OU-2) DANSVILLE, NEW YORK ANNUAL REPORT
SITE LOCATION MAP
ARCADIS
FIGURE 1

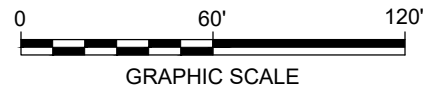
C:\Users\krahmer\ArcGIS\Projects\NYSEG\GIS\GEN-F03-SITE LAYOUT DETAIL.dwg LAYOUT: 3 SAVED: 12/7/2022 10:13 AM ACADIVER: 24.2S (LMS TECH) PAGES: 1-10 PLOTSTYLETABLE: PLT\FULL.CTB
 PLOTTED: 12/7/2022 10:14 AM BY: KRAHMER, ERIC
 XREFS: IMAGES: GEN-X-BASE MAP GEN-X-TITLE PROJECTNAME: ---



- LEGEND:**
- ▲ HISTORICAL SOIL BORING LOCATION
 - HISTORICAL TEST PIT LOCATION
 - DEEP MONITORING WELL LOCATION (GRAY = ABANDONED)
 - SHALLOW MONITORING WELL LOCATION (GRAY = ABANDONED)
 - PIEZOMETER LOCATION (GRAY = ABANDONED)
 - APPLICATION WELL
 - ⊕ PERFORMANCE WELL
 - NYSEG PROPERTY BOUNDARY
 - x- FENCE LINE
 - - - FORMER MGP STRUCTURE
 - ▭ LIMITS OF OU-1 EXCAVATION



- NOTES:**
1. ALL LOCATIONS ARE APPROXIMATE.
 2. ONLY SELECT MONITORING WELL, SOIL BORING, PIEZOMETER, AND TEST PIT LOCATIONS ARE SHOWN ON THE NYSEG PROPERTY AS A MAJORITY OF THE LOCATIONS WERE REMEDIATED IN 2014. SEE PREVIOUS SITE REPORTS FOR ADDITIONAL INVESTIGATION LOCATIONS.
 3. AN ASTERISK (*) INDICATES THAT THE CONDITION AND USABILITY OF THE WELL OR PIEZOMETER IS UNKNOWN. THE LOCATION MAY BE ABANDONED OR DESTROYED.
 4. BASE MAP PREPARED FROM DWG FILE PROVIDED BY NYSEG, DATED 10/2/2006, TITLED EXPANDED DANSVILLE MGP SITE, AT A SCALE OF 1"=100'.

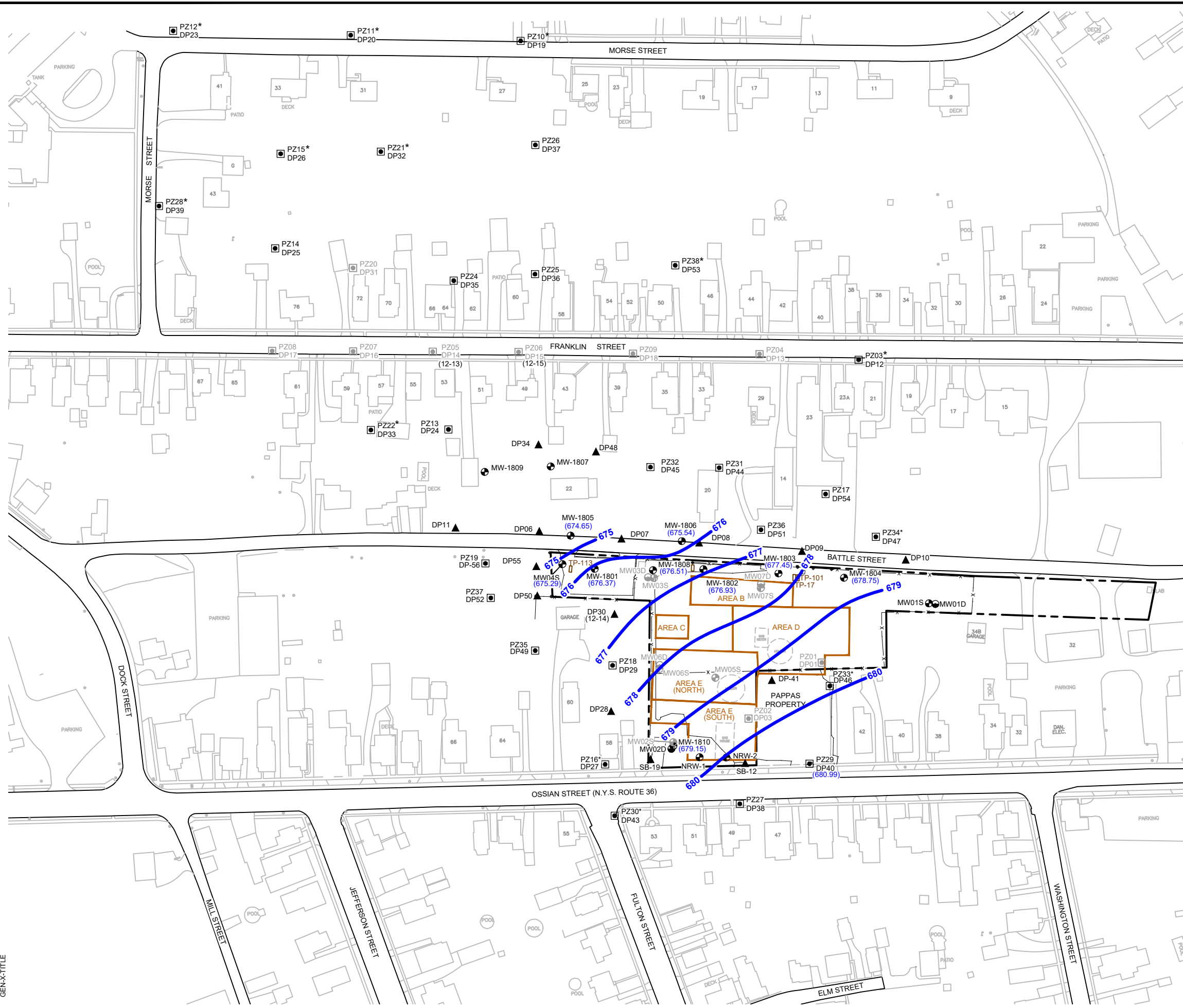


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SITE LAYOUT DETAIL

ARCADIS

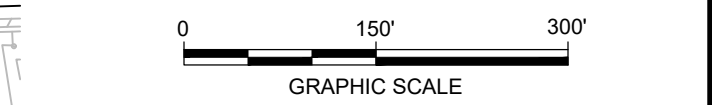
FIGURE
3



LEGEND:

- HISTORICAL SOIL BORING LOCATION
- DEEP MONITORING WELL LOCATION (GRAY = ABANDONED)
- SHALLOW MONITORING WELL LOCATION (GRAY = ABANDONED)
- PIEZOMETER LOCATION (GRAY = ABANDONED)
- NYSEG PROPERTY BOUNDARY
- FENCE LINE
- FORMER MGP STRUCTURE
- LIMITS OF OU-1 EXCAVATION
- POTENTIOMETRIC CONTOUR ELEVATION
- (680.99) GROUNDWATER ELEVATION

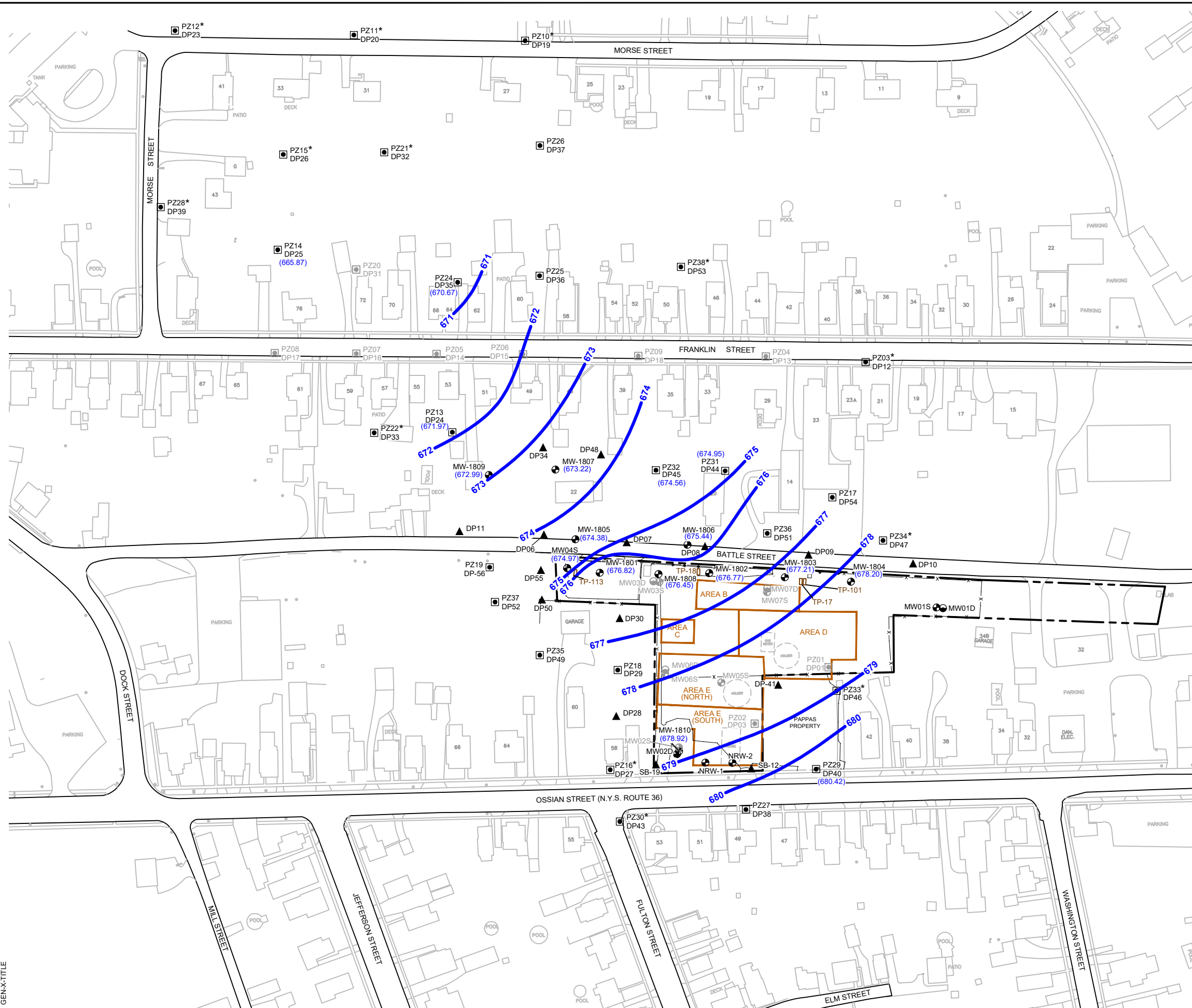
- NOTES:**
1. ALL LOCATIONS ARE APPROXIMATE.
 2. ONLY SELECT MONITORING WELL, SOIL BORING, PIEZOMETER, AND TEST PIT LOCATIONS ARE SHOWN ON THE NYSEG PROPERTY AS A MAJORITY OF THE LOCATIONS WERE REMEDIATED IN 2014. SEE PREVIOUS SITE REPORTS FOR ADDITIONAL INVESTIGATION LOCATIONS.
 3. AN ASTERISK (*) INDICATES THAT THE CONDITION AND USABILITY OF THE WELL OR PIEZOMETER IS UNKNOWN. THE LOCATION MAY BE ABANDONED OR DESTROYED.
 4. BASE MAP PREPARED FROM DWG FILE PROVIDED BY NYSEG, DATED 10/2/2006, TITLED EXPANDED DANSVILLE MGP SITE, AT A SCALE OF 1"=100'.
 5. ALL ELEVATIONS ARE REFERENCED TO NAVD88.



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GROUNDWATER ELEVATION CONTOURS
 MAY 18, 2021

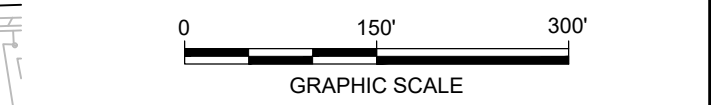
FIGURE
5



LEGEND:

- HISTORICAL SOIL BORING LOCATION
- HISTORICAL TEST PIT LOCATION
- DEEP MONITORING WELL LOCATION (GRAY = ABANDONED)
- SHALLOW MONITORING WELL LOCATION (GRAY = ABANDONED)
- PIEZOMETER LOCATION (GRAY = ABANDONED)
- NYSEG PROPERTY BOUNDARY
- FENCE LINE
- FORMER MGP STRUCTURE
- LIMITS OF OU-1 EXCAVATION
- 680 POTENTIOMETRIC CONTOUR ELEVATION
- (680.42) GROUNDWATER ELEVATION

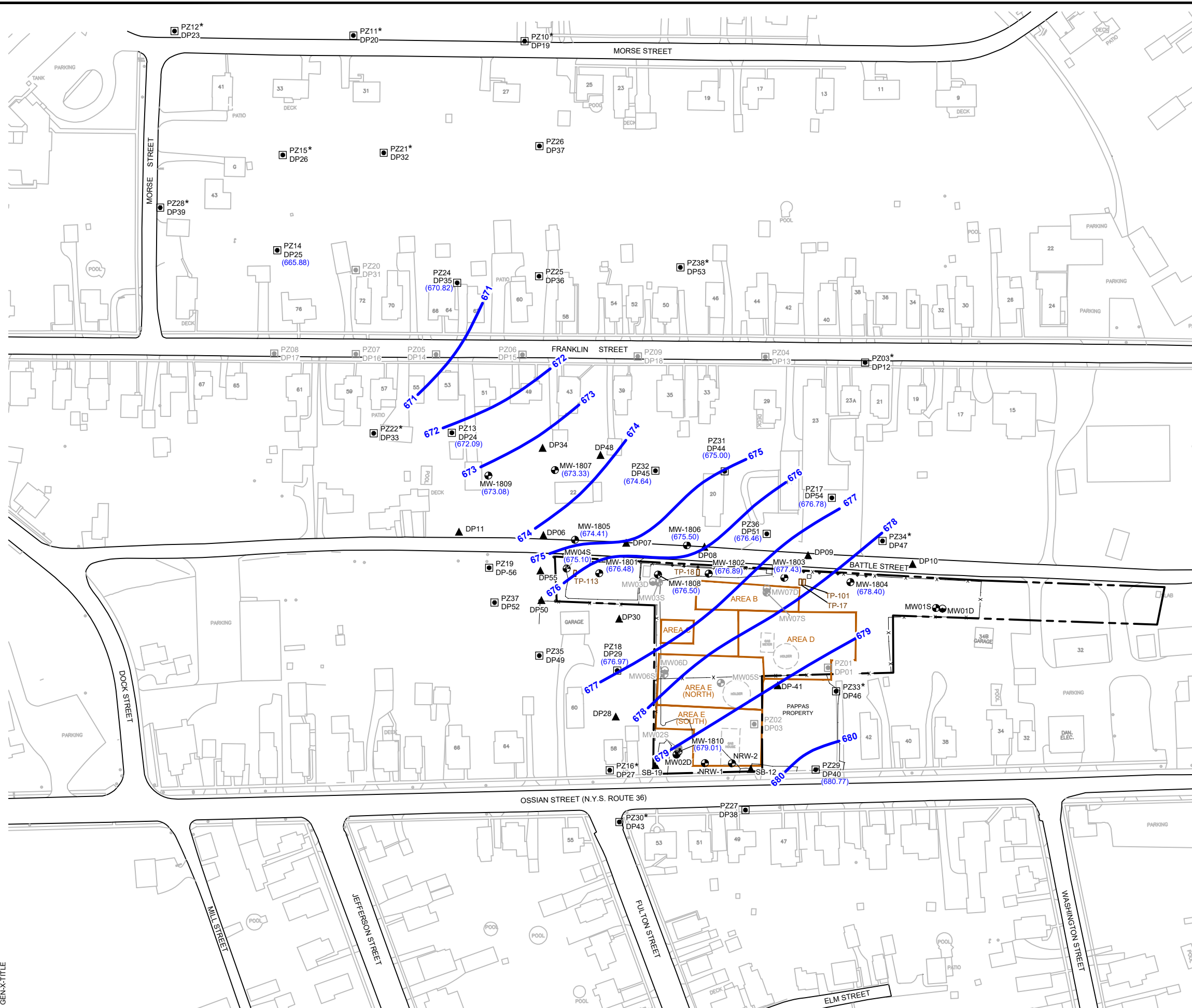
- NOTES:**
1. ALL LOCATIONS ARE APPROXIMATE.
 2. ONLY SELECT MONITORING WELL, SOIL BORING, PIEZOMETER, AND TEST PIT LOCATIONS ARE SHOWN ON THE NYSEG PROPERTY AS A MAJORITY OF THE LOCATIONS WERE REMEDIATED IN 2014. SEE PREVIOUS SITE REPORTS FOR ADDITIONAL INVESTIGATION LOCATIONS.
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 4. BASE MAP PREPARED FROM DWG FILE PROVIDED BY NYSEG, DATED 10/2/2006, TITLED EXPANDED DANSVILLE MGP SITE, AT A SCALE OF 1"=100'.
 5. ALL ELEVATIONS ARE REFERENCED TO NAVD88.



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GROUNDWATER ELEVATION CONTOURS
AUGUST 11, 2021

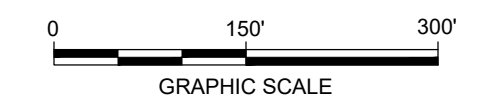
FIGURE
6



LEGEND:

- HISTORICAL SOIL BORING LOCATION
- HISTORICAL TEST PIT LOCATION
- DEEP MONITORING WELL LOCATION (GRAY = ABANDONED)
- SHALLOW MONITORING WELL LOCATION (GRAY = ABANDONED)
- PIEZOMETER LOCATION (GRAY = ABANDONED)
- NYSEG PROPERTY BOUNDARY
- FENCE LINE
- FORMER MGP STRUCTURE
- LIMITS OF OU-1 EXCAVATION
- 680 POTENTIOMETRIC CONTOUR ELEVATION
- (680.77) GROUNDWATER ELEVATION

- NOTES:**
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ANNUAL REPORT

GROUNDWATER ELEVATION CONTOURS
NOVEMBER 22, 2021

FIGURE
7

Appendix A

Site Inspection Form

Site Inspection Form

Dansville Former MGP Site Dansville, Livingston County, New York

Date/Time: 8/11/21

Weather: Sunny; ..

Personnel: Ryan Clare

Temperature: 92° F

1. General Site Conditions:

Monitoring wells	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Poor*
Application wells	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Poor*
Performance Monitoring wells	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Poor*
NAPL Monitoring/Recovery wells	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Poor*
Cover Areas (Grass and Stone)	<input checked="" type="checkbox"/> Good	<input type="checkbox"/> Poor*
Signs of intrusive activities	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes*
Evidence of Settlement	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes*

Note:

-Cover area inspection is to determine if intrusive activities may have occurred since the previous site visit.

2. Site Cover Systems:

Borrowing/Depressions	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes*
Standing Water	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes*
Missing Stone	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes*
Missing Vegetative Growth	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes*
Evidence of Settlement	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes*
Sedimentation	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes*
Damage/Failure	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes*

3. Notes: None

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