

Justin Starr, P.G.
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, New York 12233-7014

Arcadis of New York, Inc.
One Lincoln Center
110 West Fayette Street
Suite 300
Syracuse
New York 13202
Phone: 315 446 9120
Fax: 315 449 0017
www.arcadis.com

Date: December 22, 2022
Our Ref: 30113052
Subject: 2022 Post-Construction Monitoring Report
Binghamton Court Street Former Manufactured Gas Plant Site
NYSDEC Site No. 7-04-031

Dear Mr. Starr,

On behalf of the New York State Electric & Gas Corporation (NYSEG), this letter summarizes the 2022 post-remediation monitoring completed at the Binghamton Court Street Former Manufactured Gas Plant (MGP) site (the Site).

For reference, interim remedial measures (IRMs) at Operable Unit No. 1 (OU-1) were completed in 2001, 2003, 2006 and 2011/2012 and the IRM for Operable Unit No. 2 (OU-2) was completed in 2018/2019. Post-construction monitoring was initiated by Arcadis of New York, Inc. (Arcadis) in 2020 (i.e., “year 1”), 2022 represents “year 3” of post-construction monitoring.

2022 Site Activity Overview

Arcadis conducted the 2022 post-remediation monitoring activities on November 3, 2022, in accordance with the May 2022 Draft Site Management Plan prepared by GEI, Inc. (Draft SMP).

OU-2 bank stability and vegetation monitoring activities were completed on July 29, 2022. Bank stability and vegetation monitoring results will be provided in the forthcoming Transloading Area Restoration Monitoring Report and, as such, are not discussed herein.

2022 Monitoring and Gauging

Post-remediation monitoring activities are generally used to assess the performance and effectiveness of the remedy. The 2022 monitoring and gauging activities consisted of the following:

- Conducting gauging to assess the presence/absence of non-aqueous phase liquid (NAPL).
- Conducting a site-wide inspection to assess the condition and effectiveness of the site cover system.
- Conducting quarterly visual sheen monitoring at OU-2 to assess the presence of MGP-related sheens.

Monitoring and gauging activity details are presented below. Monitoring well locations are shown on Figure 1.

NAPL and Water Level Gauging

Arcadis conducted NAPL and water level gauging on November 3 and November 16, 2022. NAPL gauging activities/results and groundwater flow/elevation information are presented below.

NAPL Gauging Activities and Results

Field personnel used an oil-water interface probe to measure water levels, gauge accumulated NAPL, and measure depth to bottom at each monitoring well/piezometer. A weighted tape was used, as necessary, to confirm depth to bottom measurements obtained with the interface probe.

2022 NAPL gauging results for NAPL barrier wall recovery wells (RW-1 through RW-22) and NAPL monitoring wells (NMW-1 and NMW-2) are presented in Table 1. Gauging results for the remaining upgradient, side gradient, and sentinel wells are presented in Table 2. For reference, previous gauging results from November 2004 to November 2021 are included in both Table 1 and Table 2.

Trace amounts of NAPL (as blebs on the interface probe) were observed at RW-6 during initial gauging and confirmed when regauged on November 16, 2022. No recoverable amounts of NAPL have accumulated in any of the gauged wells (since the last gauging event completed in 2021).

Groundwater Elevation and Flow

Field personnel conducted synoptic water level measurements in conjunction with NAPL gauging. Depth-to-water measurements were taken from surveyed marks on the top of the inner well casings and converted to elevations. Groundwater elevation data are summarized in Tables 1 and 2. Water table and sand and gravel unit potentiometric surface maps for the November 2022 monitoring event are included as Figures 2 and 3, respectively. For comparison, water table and sand and gravel unit potentiometric surface maps from the 2002 RI are included as Attachment 1.

When comparing the 2002 and 2022 maps, the following should be considered:

- The 2002 maps were drawn using a greater number of data points; many of the previous monitoring wells and piezometers were removed during remedial construction activities.
- The 2002 water table map represents water table elevations prior to installing the NAPL barrier wall. The NAPL barrier wall is comprised of a permeable gravel-filled trench keyed into low-permeability till, with several short segments composed of low-permeability jet-grout panels. A high-density polyethylene (HDPE) curtain lines the downgradient side of the gravel-filled portions of the barrier, extending below the water table. The grout panels and HDPE curtain serve as barriers to groundwater flow. Accordingly, the gravel-filled trench, grout panels, and HDPE curtain alter local groundwater flow patterns.

Therefore, both historical flow patterns and inferred groundwater flow effects (i.e., caused by the NAPL barrier wall) were considered when preparing Figures 2 and 3.

The November 2022 configuration of the water table (Figure 2) is similar to that mapped in 2002. Groundwater is mounded atop the underlying silt-and-clay unit near the center of the site. That groundwater moves radially away from the mound, either 1) spilling off the eastern and western edges of the silt-and-clay unit or 2) entering the gravel panels of the NAPL barrier wall, where groundwater moves downward beneath the HDPE curtain and into the underlying sand-and-gravel unit. Downgradient of the NAPL barrier wall and beneath Court Street, shallow

groundwater generally moves south toward the flood wall and downward beneath the flood wall, eventually discharging into the Susquehanna River.

The November 2022 configuration of the sand-and-gravel unit potentiometric surface (Figure 3) is also similar to that mapped in 2002. The relatively high-permeability of the sand-and-gravel unit results in a surface that slopes gently southward toward the river. Flow in the sand-and-gravel unit is primarily horizontal; except near the river where groundwater moves upward, discharging into the Susquehanna River.

Site Inspection

In accordance with the Draft SMP, Arcadis conducted a site inspection to evaluate site usage, general site conditions, and the condition of the cover system. As documented on the Site Inspection Form (included as Attachment 2), the asphalt and gravel cover system were intact with no evidence of intrusive activities.

Well and piezometer surface completions were inspected and are currently in satisfactory condition. However, several wells were noted as having minor damage/wear to well cover bolts. These repairs will be addressed during the next monitoring event tentatively scheduled for November 2023.

Sheen Monitoring

The Draft SMP requires periodic visual monitoring for potential sheens that may be generated from the OU-2 sediment removal areas, quarterly sheen monitoring at OU-2 was initiated in 2021. Arcadis completed quarterly sheen monitoring from the Tompkins Street Bridge in March, May, July, and November 2022. Photo's documenting river conditions at the start and end of each monitoring event are included in the Sheen Monitoring Photo Log (Attachment 3).

Note that no sheens were observed during the quarterly sheen monitoring events in 2021 or 2022, therefore, in accordance with the Draft SMP sheen monitoring activities for 2023 will be conducted semi-annually (i.e., in Q2 and Q4).

Additionally, as indicated in the 2022 Transloading Area Restoration Monitoring Report, provided under separate cover, ongoing riverbank stability monitoring at the transloading area will be conducted concurrently with sheen monitoring activities.

Summary and Conclusions

Based on the 2022 post-construction monitoring results:

- There is no evidence that NAPL is migrating on-site or off-site. Recoverable amounts of NAPL have not accumulated in the NAPL barrier wall in the 16 years since the wall was installed (i.e., in 2006), and NAPL has not accumulated in any off-site wells that are monitored.
- Post-remediation groundwater flow directions are generally consistent with pre-remediation conditions; except near the NAPL barrier wall, where shallow groundwater in the fill and silt-and-clay unit generally enters the gravel-filled portions of the trench and moves downward into the sand-and-gravel unit, as anticipated/ designed. Consistent with pre-remediation conditions, groundwater in the sand-and-gravel unit moves southward and discharges into the Susquehanna River. Shallow groundwater downgradient of the NAPL barrier wall also discharges to the Susquehanna River.

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- Site cover system is intact and functioning, with no evidence of intrusive activities.
- No sheens were observed on the Susquehanna River during 2022 quarterly sheen monitoring for OU-2.

Schedule

Consistent with the monitoring and reporting requirements presented in the Draft SMP:

- Site cover inspection and NAPL monitoring will continue to be completed on an annual basis, tentatively scheduled for Q4 2023.
- Sheen monitoring will be completed semi-annually in 2023, tentatively scheduled for May (Q2) and November (Q4).
- Transloading Area riverbank stability monitoring will be completed concurrently with each sheen monitoring event.
- The next groundwater sampling event will occur in 2025 (i.e., post-construction “year 6”).

Please contact Tracy Blazicek of NYSEG at 607.731.9702 or tracy.blazicek@avangrid.com with any questions or comments.

Sincerely,
Arcadis of New York, Inc.



Joe Bistrovich
Project Environmental Engineer

Email: joe.bistrovich@arcadis.com
Direct Line: 315.671.9697
Mobile: 315.427.4585

CC. Tracy Blazicek, CHMM, NYSEG
Keith White, PG, Arcadis
Mark Graveling, PE, Arcadis

Enc: Table 1 – NAPL Recovery Well Gauging and Groundwater Elevation Summary
Table 2 – Upgradient, Side-Gradient, and Sentinel Well Gauging and Groundwater Elevation Summary
Figure 1 – Monitoring Well Plan
Figure 2 – Water Table Map
Figure 3 – Sand and Gravel Potentiometric Surface Map
Attachment 1 – Select RI Figures
Attachment 2 – Site Inspection Form
Attachment 3 – Sheen Monitoring Photo Log

Tables

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-1									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	7.59	834.72	52.83	789.48	1.37	--	--	--	Soft bottom, coal-tar-like odor.
04/25/07	7.22	835.09	52.50	789.81	1.70	--	--	--	Coal-tar-like odor.
05/30/07	9.76	832.55	52.54	789.77	1.66	--	--	--	Trace yellow NAPL on top of probe, coal-tar-like odor.
06/27/07	10.73	831.58	52.85	789.46	1.35	--	--	--	Silt on the last 1" of probe.
07/24/07	10.41	831.90	52.60	789.71	1.60	--	--	--	Coal-tar-like odor.
08/28/07	10.87	831.44	52.71	789.60	1.49	--	--	--	Soft bottom, Silt on probe, VOC = 0.7ppm.
09/20/07	10.86	831.45	52.65	789.66	1.55	--	--	--	penetrated sediment in well 0.25', coal-tar-like odor, coal-tar-like material on probe.
10/31/07	9.33	832.98	52.50	789.81	1.70	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor, VOCs = 0.0 ppm.
11/20/07	9.00	833.31	52.53	789.78	1.67	--	--	--	Coal-tar-like odor.
12/18/07	8.79	833.52	52.51	789.80	1.69	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	9.18	833.13	52.45	789.86	1.75	--	--	--	Soft bottom.
02/21/08	7.96	834.35	52.71	789.60	1.49	--	--	--	Soft bottom, coal-tar-like odor.
03/18/08	7.86	834.45	52.74	789.57	1.46	--	--	--	Soft bottom, coal-tar-like odor.
05/12/08	9.98	832.33	52.91	789.40	1.29	--	--	--	Soft bottom, coal-tar-like odor.
06/05/08	10.62	831.69	53.35	788.96	0.85	--	--	--	Trace sheen, soft bottom.
07/08/08	10.89	831.42	52.62	789.69	1.58	--	--	--	Soft bottom, coal-tar-like odor.
08/06/08	10.42	831.89	52.70	789.61	1.50	--	--	--	Soft bottom.
11/19/08	9.91	832.40	53.41	788.90	0.79	--	--	--	
02/06/09	10.36	831.95	52.69	789.62	1.51	--	--	--	
05/29/09	NR	NR	NR	NR	NR	--	--	--	Curb box lid fractured. Riser no longer plumb, leaning toward the west.
08/11/09	8.36	833.95	53.50	788.81	0.70	--	--	--	Very Soft bottom, slight odor.
11/09/09	9.39	832.92	53.65	788.66	0.55	--	--	--	Soft bottom.
02/23/10	10.10	832.21	53.50	788.81	0.70	--	--	--	Soft bottom, coal-tar-like odor, 0.0 ppm.
05/28/10	10.24	832.07	52.98	789.33	1.22	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	9.89	832.42	52.30	790.01	1.90	--	--	--	Soft bottom, 0.0 ppm.
11/23/10	9.17	833.14	52.20	790.11	2.00	--	--	--	Soft bottom, 0.0 ppm.
02/28/11	8.54	833.77	52.90	789.41	1.30	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	8.68	833.63	52.12	790.19	2.08	--	--	--	Soft bottom, 0.0 ppm.
08/26/11	10.34	831.97	52.20	790.11	2.00	--	--	--	Soft bottom, 0.0 ppm.
02/15/12	9.89	832.42	53.55	788.76	0.65	--	--	--	Soft bottom, 0.0 ppm.
06/15/12	10.01	832.30	53.55	788.76	0.65	--	--	--	Soft bottom, 0.0 ppm.
11/19/12	9.97	832.34	53.32	788.99	0.88	--	--	--	Soft bottom, 0.0 ppm.
11/26/13	10.22	832.09	51.11	791.20	3.09	--	--	--	Soft bottom.
05/16/14	9.37	832.94	51.37	790.94	2.83	--	--	--	Soft bottom.
12/01/14	9.81	832.50	51.40	790.91	2.80	--	--	--	Soft bottom.
12/17/15	10.13	832.18	51.14	791.17	3.06	--	--	--	Soft bottom.
12/27/16	9.42	832.89	53.48	788.83	0.72	--	--	--	Firm bottom.
12/21/17	10.41	831.90	51.41	790.90	2.79	--	--	--	Soft bottom.
11/23/20	10.36	831.95	51.47	790.84	2.73	--	--	--	Hard bottom.
11/02/21 ⁴	8.14	833.62	51.43	790.33	2.77	--	--	--	
11/03/22	10.66	831.10	51.05	790.71	3.15	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 841.76
 Well bottom elev. (installed; FAMSL) = 787.56
 Installed Well Depth (ft) = 54.20

Notes:

- Elevations referenced to the NAVD 88 Datum.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 842.31 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-2									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	8.10	834.02	49.53	792.59	2.77	--	--	--	Soft bottom.
04/25/07	7.40	834.72	49.15	792.97	3.15	--	--	--	Sheen on probe.
05/30/07	10.32	831.80	49.20	792.92	3.10	--	--	--	Trace Silt on probe.
06/27/07	11.25	830.87	49.52	792.60	2.78	--	--	--	Black material on probe, tape and floating on the surface of the water.
07/24/07	10.73	831.39	49.78	792.34	2.52	--	--	--	Able to penetrate sediment in well 0.15', faint organic-like odor.
08/28/07	11.38	830.74	49.27	792.85	3.03	--	--	--	Soft bottom.
09/20/07	11.42	830.70	49.04	793.08	3.26	--	--	--	Able to penetrate sediment in well 0.3', slight coal-tar-like odor.
10/31/07	9.93	832.19	49.17	792.95	3.13	--	--	--	penetrated sediment in well 0.2', strong coal-tar-like odor, manure-like odor, VOCs = 1.5 ppm.
11/20/07	9.60	832.52	49.30	792.82	3.00	--	--	--	Mild coal-tar-like odor.
12/18/07	9.42	832.70	49.10	793.02	3.20	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	9.69	832.43	49.28	792.84	3.02	--	--	--	Soft bottom.
02/21/08	8.53	833.59	49.81	792.31	2.49	--	--	--	Soft bottom, coal-tar-like odor.
03/18/08	8.37	833.75	49.25	792.87	3.05	--	--	--	Soft bottom, sediment on probe. vaulting will not close flush to the vault frame work, may be due to plowing or vehicles driving over the vault.
05/12/08	10.45	831.67	49.57	792.55	2.73	--	--	--	Soft bottom, coal-tar-like odor, sediment on probe.
06/05/08 ⁴	11.19	830.93	52.27	789.85	0.03	--	--	--	Foam on the surface of the water. Well redeveloped on June 5th 2008.
07/08/08	11.44	830.68	52.18	789.94	0.12	--	--	--	Firm bottom, mild coal-tar-like odor.
08/06/08	11.00	831.12	52.02	790.10	0.28	--	--	--	Firm bottom, mild coal-tar-like odor.
11/19/08	10.39	831.73	52.17	789.95	0.13	--	--	--	Firm bottom, steel casing has moved - well is no longer plumb.
02/06/09	10.50	831.62	52.15	789.97	0.15	--	--	--	
05/29/09	9.49	832.63	52.15	789.97	0.15	--	--	--	Firm bottom, riser leaning toward the east.
08/11/09	8.99	833.13	52.15	789.97	0.15	--	--	--	Firm bottom.
11/09/09	9.98	832.14	52.22	789.90	0.08	--	--	--	Firm bottom.
02/23/10	10.62	831.50	52.20	789.92	0.10	--	--	--	Firm bottom, 0.0 ppm.
05/28/10	10.78	831.34	52.05	790.07	0.25	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	10.44	831.68	52.12	790.00	0.18	--	--	--	Dark gray sediment on probe, mild coal tar-like odor, 0.0 ppm.
11/23/10	9.74	832.38	52.52	789.60	-0.22	--	--	--	Soft bottom.
02/28/11	9.69	832.43	51.99	790.13	0.31	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	9.31	832.81	52.08	790.04	0.22	--	--	--	Firm bottom, 0.0 ppm.
08/26/11	10.91	831.21	52.06	790.06	0.24	--	--	--	Firm bottom, 0.0 ppm.
02/15/12	10.43	831.69	52.03	790.09	0.27	--	--	--	Firm bottom, 0.0 ppm.
06/15/12	10.76	831.36	52.03	790.09	0.27	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	10.52	831.60	52.10	790.02	0.20	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	10.47	831.65	51.55	790.57	0.75	--	--	--	Soft bottom.
05/16/14	9.57	832.55	51.67	790.45	0.63	--	--	--	Soft bottom.
12/01/14	10.13	831.99	51.62	790.50	0.68	--	--	--	Soft bottom.
12/17/15	10.39	831.73	51.70	790.42	0.60	--	--	--	Soft bottom.
12/27/16	10.51	831.61	51.70	790.42	0.60	--	--	--	Firm bottom.
12/21/17	10.67	831.45	51.71	790.41	0.59	--	--	--	Firm bottom.
11/23/20	10.71	831.41	51.61	790.51	0.69	--	--	--	Hard bottom
11/02/21 ⁵	9.01	832.96	51.70	790.27	0.60	--	--	--	
11/03/22	10.94	831.03	51.95	790.02	0.35	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 841.97
 Well bottom elev. (installed; FAMSL) = 789.67
 Installed Well Depth (ft) = 52.30

Notes:

- Elevations referenced to the NAVD 88 Datum.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Well redeveloped on June 5th 2008.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 842.12 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
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Binghamton, New York

BARRIER WALL RECOVERY WELL RW-3									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	8.13	833.70	16.31	825.52	0.44	--	--	--	Soft bottom.
04/25/07	7.90	833.93	16.50	825.33	0.25	--	--	--	
05/30/07	10.33	831.50	16.39	825.44	0.36	--	--	--	Firm bottom, little dark gray sediment on probe.
06/27/07	11.26	830.57	16.15	825.68	0.60	--	--	--	Silt on the last 4" of probe.
07/24/07	10.72	831.11	16.70	825.13	0.05	--	--	--	Able to penetrate sediment in well 0.5', faint organic-like odor.
08/28/07	11.38	830.45	16.20	825.63	0.55	--	--	--	Soft bottom.
09/20/07	11.42	830.41	16.25	825.58	0.50	--	--	--	Able to penetrate sediment in well 0.2', slight coal-tar-like odor.
10/31/07	9.92	831.91	16.48	825.35	0.27	--	--	--	Able to penetrate sediment in well 0.2', slight coal-tar-like odor, manure-like odor, VOCs = 4.7 ppm.
11/20/07	9.59	832.24	16.26	825.57	0.49	--	--	--	Mild coal-tar-like odor.
12/18/07	9.43	832.40	16.25	825.58	0.50	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	9.66	832.17	16.17	825.66	0.58	--	--	--	
02/21/08	8.51	833.32	16.59	825.24	0.16	--	--	--	Soft bottom.
03/18/08	8.35	833.48	16.49	825.34	0.26	--	--	--	Soft bottom, coal-tar-like odor. Vault lid will not close flush to the vault frame work, may be due to plowing or vehicles driving over the vault.
05/12/08	10.45	831.38	16.59	825.24	0.16	--	--	--	Soft bottom, sediment on probe.
06/05/08	11.16	830.67	16.65	825.18	0.10	--	--	--	Approximately 0.25' of gray sediment in well.
07/08/08	11.44	830.39	16.51	825.32	0.24	--	--	--	Firm bottom.
08/06/08	10.99	830.84	16.29	825.54	0.46	--	--	--	Coal-tar-like odor.
11/19/08	10.45	831.38	16.73	825.10	0.02	--	--	--	Firm bottom, steel casing has moved - wells no longer plumb.
02/06/09	10.84	830.99	16.61	825.22	0.14	--	--	--	
05/29/09	9.49	832.34	16.61	825.22	0.14	--	--	--	Firm bottom, riser leaning slightly.
08/11/09	8.99	832.84	16.40	825.43	0.35	--	--	--	Very soft, slight odor, 3.5" of dark gray sediment on probe.
11/09/09	9.98	831.85	16.70	825.13	0.05	--	--	--	Soft bottom, coal-tar-like odor.
02/23/10	10.63	831.20	16.60	825.23	0.15	--	--	--	Firm bottom, 0.0 ppm.
05/28/10	10.78	831.05	16.30	825.53	0.45	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	10.45	831.38	16.22	825.61	0.53	--	--	--	Gray sediment on probe, coal tar-like odor, 0.0 ppm.
11/23/10	9.74	832.09	16.40	825.43	0.35	--	--	--	Soft bottom.
02/28/11	9.66	832.17	16.17	825.66	0.58	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	9.31	832.52	16.43	825.40	0.32	--	--	--	Soft bottom, 0.0 ppm.
08/26/11	10.91	830.92	16.32	825.51	0.43	--	--	--	Firm bottom, 0.0 ppm.
02/15/12	10.47	831.36	16.51	825.32	0.24	--	--	--	Firm bottom, 0.0 ppm; coal tar-like odor.
06/15/12	10.55	831.28	16.31	825.52	0.44	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	10.54	831.29	16.63	825.20	0.12	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	10.51	831.32	15.87	825.96	0.88	--	--	--	Soft bottom.
05/16/14	9.60	832.23	15.88	825.95	0.87	--	--	--	Soft bottom.
12/01/14	10.13	831.70	15.88	825.95	0.87	--	--	--	Soft bottom.
12/17/15	10.39	831.44	15.94	825.89	0.81	--	--	--	Soft bottom.
12/27/16	10.51	831.32	15.94	825.89	0.81	--	--	--	Firm bottom.
12/21/17	10.69	831.14	16.17	825.66	0.58	--	--	--	Soft bottom.
11/02/21	10.74	831.09	16.13	825.70	0.62	--	--	--	Bottom slightly soft
11/09/21 ⁴	9.02	832.99	16.17	825.84	0.58	--	--	--	
11/03/22	10.94	831.07	15.80	826.21	0.95	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 842.01
 Well bottom elev. (installed; FAMSL) = 825.26
 Installed Well Depth (ft) = 16.75

Notes:

- Elevations referenced to the NAVD 88 Datum.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 841.83 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-4									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	8.72	833.79	15.61	826.90	1.49	--	--	--	Soft bottom.
04/25/07	5.92	836.59	15.75	826.76	1.35	--	--	--	
05/30/07	11.03	831.48	15.90	826.61	1.20	--	--	--	Soft bottom, little Silt on probe.
06/27/07	11.96	830.55	15.89	826.62	1.21	--	--	--	Mild coal-tar-like odor, black material on probe.
07/24/07	11.42	831.09	15.76	826.75	1.34	--	--	--	Hard bottom, organic-like odor.
08/28/07	12.11	830.40	15.75	826.76	1.35	--	--	--	Mild manure-like odor.
09/20/07	12.14	830.37	15.76	826.75	1.34	--	--	--	Firm bottom, slight coal-tar-like odor, manure-like odor.
10/31/07	10.65	831.86	15.72	826.79	1.38	--	--	--	Firm bottom, slight coal-tar-like odor, manure-like odor, VOCs = 0.9 ppm.
11/20/07	10.32	832.19	15.79	826.72	1.31	--	--	--	Firm bottom.
12/18/07	10.14	832.37	15.80	826.71	1.30	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	10.38	832.13	15.69	826.82	1.41	--	--	--	Soft bottom.
02/21/08	9.08	833.43	15.88	826.63	1.22	--	--	--	Firm bottom, coal-tar-like odor, manure-like odor.
03/18/08	9.07	833.44	15.96	826.55	1.14	--	--	--	Firm bottom, mild coal-tar-like odor.
05/12/08	11.17	831.34	15.99	826.52	1.11	--	--	--	Firm bottom.
06/05/08	11.88	830.63	16.02	826.49	1.08	--	--	--	
07/08/08	12.16	830.35	15.91	826.60	1.19	--	--	--	Firm bottom.
08/06/08	11.70	830.81	15.90	826.61	1.20	--	--	--	Firm bottom.
11/19/08	11.19	831.32	15.99	826.52	1.11	--	--	--	Hard bottom.
02/06/09	11.57	830.94	15.82	826.69	1.28	--	--	--	
05/29/09	10.22	832.29	15.95	826.56	1.15	--	--	--	Hard bottom, riser leaning to the south.
08/11/09	9.74	832.77	15.90	826.61	1.20	--	--	--	Firm bottom, slight odor.
11/09/09	10.71	831.80	15.90	826.61	1.20	--	--	--	Firm bottom.
02/23/10	11.37	831.14	15.90	826.61	1.20	--	--	--	Firm bottom, 0.0 ppm.
05/28/10	11.51	831.00	15.85	826.66	1.25	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	11.12	831.39	15.82	826.69	1.28	--	--	--	Sediment on probe, 0.0 ppm.
11/23/10	10.47	832.04	15.90	826.61	1.20	--	--	--	Firm bottom.
02/28/11	10.35	832.16	15.72	826.79	1.38	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	10.01	832.50	15.82	826.69	1.28	--	--	--	Firm bottom, 0.0 ppm.
08/26/11	11.61	830.90	15.80	826.71	1.30	--	--	--	Firm bottom, 0.0 ppm.
02/15/12	11.15	831.36	15.85	826.66	1.25	--	--	--	Firm bottom, coal tar-like odor, 0.0 ppm.
06/15/12	11.45	831.06	15.85	826.66	1.25	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	11.21	831.30	15.80	826.71	1.30	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	11.53	830.98	15.75	826.76	1.35	--	--	--	Firm bottom.
05/16/14	10.59	831.92	15.88	826.63	1.22	--	--	--	Firm bottom.
12/01/14	11.13	831.38	15.86	826.65	1.24	--	--	--	Firm bottom.
12/17/15	11.40	831.11	15.73	826.78	1.37	--	--	--	Firm bottom.
12/27/16	10.75	831.76	15.84	826.67	1.26	--	--	--	Firm bottom.
12/21/17	11.71	830.80	15.85	826.66	1.25	--	--	--	Hard bottom.
11/23/20	NM	NM	NM	NM	NM	NM	NM	NM	Unable to locate
11/02/21 ⁴	9.57	833.42	15.88	827.11	1.22	--	--	--	
11/03/22	11.94	831.05	15.48	827.51	1.62	--	--	--	Soft bottom, 0.0 ppm.

Top of Casing (FAMSL) = 842.99
 Well bottom elev. (installed; FAMSL) = 825.89
 Installed Well Depth (ft) = 17.10

Notes:

- Elevations referenced to the NAVD 88 Datum.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 842.51 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-5									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	8.76	833.72	39.95	802.53	8.65	--	--	--	Soft bottom.
04/25/07	5.58	836.90	40.10	802.38	8.50	--	--	--	Coal-tar-like odor.
05/30/07	10.99	831.49	40.10	802.38	8.50	--	--	--	Soft bottom, trace Silt on probe, slight coal-tar-like odor.
06/27/07	11.94	830.54	40.22	802.26	8.38	--	--	--	Coal-tar-like odor, manure-like odor, Silt on the last 2" of probe.
07/24/07	11.41	831.07	40.07	802.41	8.53	--	--	--	Able to penetrate sediment in well 0.8'.
08/28/07	12.07	830.41	40.25	802.23	8.35	--	--	--	Silt on end of probe, manure-like odor.
09/20/07	12.09	830.39	40.11	802.37	8.49	--	--	--	Able to penetrate sediment in well 0.11', coal-tar-like odor, manure-like odor.
10/31/07	10.62	831.86	40.25	802.23	8.35	--	--	--	Able to penetrate sediment in well 0.2', manure-like odor, VOCs = 2.0 ppm.
11/20/07	10.28	832.20	40.09	802.39	8.51	--	--	--	Mild coal-tar-like odor.
12/18/07	10.11	832.37	40.17	802.31	8.43	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	10.34	832.14	40.04	802.44	8.56	--	--	--	Soft bottom.
02/21/08	9.11	833.37	40.90	801.58	7.70	--	--	--	Soft bottom, manure-like odor.
03/18/08	9.05	833.43	40.90	801.58	7.70	--	--	--	Soft bottom, coal-tar-like odor.
05/12/08	11.18	831.30	42.89	799.59	5.71	--	--	--	Soft bottom, coal-tar-like odor.
06/05/08 ⁴	11.83	830.65	48.60	793.88	0.00	--	--	--	Well redeveloped on June 5th 2008.
07/08/08	12.11	830.37	48.59	793.89	0.01	--	--	--	Firm bottom, mild coal-tar-like odor.
08/06/08	11.69	830.79	48.60	793.88	0.00	--	--	--	Coal-tar-like odor.
11/19/08	11.08	831.40	48.56	793.92	0.04	--	--	--	Firm bottom.
02/06/09	11.60	830.88	48.68	793.80	-0.08	--	--	--	
05/29/09	10.19	832.29	48.59	793.89	0.01	--	--	--	Hard bottom.
08/11/09	9.71	832.77	48.55	793.93	0.05	--	--	--	Firm bottom.
11/09/09	10.67	831.81	48.61	793.87	-0.01	--	--	--	Firm bottom.
02/23/10	11.32	831.16	48.60	793.88	0.00	--	--	--	Firm bottom, 0.0 ppm.
05/28/10	11.49	830.99	48.67	793.81	-0.07	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	11.18	831.30	48.57	793.91	0.03	--	--	--	Sediment on probe, 0.0 ppm.
11/23/10	10.45	832.03	NR	NR	NR	--	--	--	Firm bottom.
02/28/11	10.37	832.11	48.50	793.98	0.10	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	10.01	832.47	48.53	793.95	0.07	--	--	--	Firm bottom, 0.0 ppm.
08/26/11	11.61	830.87	48.55	793.93	0.05	--	--	--	Firm bottom, 0.0 ppm.
02/15/12	11.10	831.38	48.54	793.94	0.06	--	--	--	Firm bottom, 0.0 ppm; coal tar-like odor.
06/15/12	11.45	831.03	48.54	793.94	0.06	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	11.21	831.27	48.55	793.93	0.05	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	11.49	830.99	48.62	793.86	-0.02	--	--	--	Firm bottom.
05/16/14	10.60	831.88	48.59	793.89	0.01	--	--	--	sheen; firm bottom.
12/01/14	11.13	831.35	48.65	793.83	-0.05	--	--	--	Firm bottom.
12/17/15	11.35	831.13	48.46	794.02	0.14	--	--	--	Firm bottom.
12/27/16	10.40	832.08	48.50	793.98	0.10	--	--	--	Firm bottom.
12/21/17	11.68	830.80	48.57	793.91	0.03	--	--	--	Firm bottom, faint coal tar-like odor.
11/23/20	NM	NM	NM	NM	NM	NM	NM	NM	Unable to locate
11/02/21 ⁵	9.53	833.44	48.55	794.42	0.05	--	--	--	
11/03/22	12.35	830.62	48.55	794.42	0.05	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 842.97
 Well bottom elev. (installed; FAMSL) = 794.37
 Installed Well Depth (ft) = 48.60

Notes:

- Elevations referenced to NAVD 88.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Well redeveloped on June 5th 2008.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 842.48 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-6									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	9.52	834.05	32.90	810.67	16.20	--	--	--	Soft bottom.
04/25/07	9.12	834.45	32.80	810.77	16.30	--	--	--	Silty bottom, coal-tar-like odor, sheen on probe.
05/30/07	11.54	832.03	32.90	810.67	16.20	--	--	--	Very soft bottom, Silt on the end of probe, strong coal-tar-like odor.
06/27/07	12.32	831.25	32.95	810.62	16.15	--	--	--	Coal-tar-like odor, Silt on the last 3" of probe, black material on probe and water surface.
07/24/07	12.09	831.48	33.13	810.44	15.97	--	--	--	Trace sheen on sediment on probe, strong organic-like odor and manure-like odor, able to penetrate sediment in well 0.1', black material on probe.
08/28/07	12.50	831.07	32.95	810.62	16.15	--	--	--	Soft bottom, Silt on end of probe, manure-like odor.
09/20/07	12.87	830.70	32.95	810.62	16.15	--	--	--	Penetrated sediment 0.2', brown material at the water surface, manure-like odor.
10/31/07	11.20	832.37	32.98	810.59	16.12	--	--	--	Penetrated sediment 0.2', film on water surface, brown slimy material on the probe (from the surface of the water), coal-tar-like and manure-like odors, VOCs = 1.3 ppm.
11/20/07	10.92	832.65	33.05	810.52	16.05	--	--	--	Manure-like odor.
12/18/07	10.71	832.86	33.20	810.37	15.90	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	10.92	832.65	33.00	810.57	16.10	--	--	--	
02/21/08	9.72	833.85	32.96	810.61	16.14	--	--	--	Soft bottom, strong coal-tar-like odor, manure-like odor, sheen on water surface and sediment on probe.
03/18/08	9.46	834.11	32.85	810.72	16.25	--	--	--	Soft bottom, trace sheen on sediment on probe, no odor.
05/12/08	11.55	832.02	35.69	807.88	13.41	--	--	--	Soft bottom, coal-tar-like odor.
06/05/08 ⁴	11.68	831.89	48.75	794.82	0.35	--	--	--	Well redeveloped on June 5th 2008.
07/08/08	12.57	831.00	48.50	795.07	0.60	--	--	--	Firm bottom, mild coal-tar-like odor.
08/06/08	12.12	831.45	48.42	795.15	0.68	--	--	--	Firm bottom.
11/19/08	11.68	831.89	48.44	795.13	0.66	--	--	--	Firm bottom.
02/06/09	11.98	831.59	48.60	794.97	0.50	--	--	--	
05/29/09	10.92	832.65	48.42	795.15	0.68	--	--	--	Hard bottom.
08/11/09	10.52	833.05	48.50	795.07	0.60	--	--	--	Firm bottom.
11/09/09	11.22	832.35	48.52	795.05	0.58	--	--	--	Firm bottom.
02/23/10	11.91	831.66	48.52	795.05	0.58	--	--	--	Firm bottom, 0.0 ppm.
05/28/10	11.92	831.65	48.62	794.95	0.48	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	11.74	831.83	48.40	795.17	0.70	--	--	--	0.0 ppm.
11/23/10	11.06	832.51	48.50	795.07	0.60	--	--	--	Soft bottom.
02/28/11	11.04	832.53	48.42	795.15	0.68	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	10.33	833.24	48.49	795.08	0.61	--	--	--	Firm bottom, 0.0 ppm.
08/26/11	12.04	831.53	48.43	795.14	0.67	--	--	--	Firm bottom, 0.0 ppm.
02/15/12	11.56	832.01	48.38	795.19	0.72	--	--	--	Firm bottom, 0.0 ppm.
06/15/12	11.81	831.76	48.38	795.19	0.72	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	11.78	831.79	48.46	795.11	0.64	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	12.05	831.52	48.65	794.92	0.45	--	--	--	Soft bottom.
05/16/14	11.11	832.46	48.57	795.00	0.53	--	--	--	Sheen.
12/01/14	11.78	831.79	48.45	795.12	0.65	--	--	--	Soft bottom.
12/17/15	12.05	831.52	48.33	795.24	0.77	--	--	--	Firm bottom.
12/27/16	11.25	832.32	48.40	795.17	0.70	--	--	--	Firm bottom.
12/21/17	12.18	831.39	48.48	795.09	0.62	--	--	--	Hard bottom, mild coal tar-like odor, 0.2' brown NAPL staining and blebs on probe.
11/23/20	NM	NM	NM	NM	NM	NM	NM	NM	Unable to locate
11/02/21 ⁵	10.10	833.47	48.45	795.12	0.65	--	--	--	
11/03/22	12.33	831.24	48.55	795.02	0.55	--	--	--	Trace NAPL staining and blebs on probe, well regauged on 11/16/22.

Top of Casing (FAMSL) = 843.57
 Well bottom elev. (installed; FAMSL) = 794.47
 Installed Well Depth (ft) = 49.10

Notes:

- Elevations referenced to the NAVD 88 Datum.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Well redeveloped on June 5th 2008.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 843.57 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured
 TR = trace

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-7									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ^{3,4}	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	9.58	834.00	18.75	824.83	0.04	--	--	--	Firm bottom.
04/25/07	9.23	834.35	18.79	824.79	0.00	--	--	--	Coal-tar-like odor.
05/30/07	11.55	832.03	18.87	824.71	-0.08	--	--	--	Trace Silt on probe.
06/27/07	12.40	831.18	18.85	824.73	-0.06	--	--	--	Mild coal-tar-like odor, black material on probe and on water surface.
07/24/07	12.04	831.54	18.72	824.86	0.07	--	--	--	Strong manure-like odor, firm bottom, trace sheen on sediment on probe.
08/28/07	12.59	830.99	18.78	824.80	0.01	--	--	--	Firm bottom, Silt on end of probe.
09/20/07	12.66	830.92	18.60	824.98	0.19	--	--	--	Firm bottom, trace sediment on probe, manure-like odor.
10/31/07	11.31	832.27	18.73	824.85	0.06	--	--	--	Firm bottom, mild coal-tar-like odor, manure-like odor, VOCs = 6.3 ppm.
11/20/07	11.01	832.57	18.83	824.75	-0.04	--	--	--	Coal-tar-like odor, manure-like odor, sediment on probe.
12/18/07	10.76	832.82	18.95	824.63	-0.16	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	10.90	832.68	18.66	824.92	0.13	--	--	--	Soft bottom.
02/21/08	9.78	833.80	18.73	824.85	0.06	--	--	--	Firm bottom, coal-tar-like odor, manure-like odor.
03/18/08	9.55	834.03	18.80	824.78	-0.01	--	--	--	Firm bottom, mild coal-tar-like odor, sediment on probe.
05/12/08	11.62	831.96	12.77	830.81	6.02	--	--	--	Firm bottom, coal-tar-like odor.
06/05/08	11.34	832.24	18.74	824.84	0.05	--	--	--	
07/08/08	12.62	830.96	18.73	824.85	0.06	--	--	--	Firm bottom, sediment on probe.
08/06/08	12.16	831.42	18.70	824.88	0.09	--	--	--	Firm bottom, coal-tar-like odor.
11/19/08	11.77	831.81	18.75	824.83	0.04	--	--	--	Firm bottom.
02/06/09	12.02	831.56	18.70	824.88	0.09	--	--	--	
05/29/09	10.92	NR	18.77	NR	NR	--	--	--	Hard bottom.
08/11/09	10.57	833.01	18.72	824.86	0.07	--	--	--	Firm bottom, odor.
11/09/09	11.24	832.34	18.75	824.83	0.04	--	--	--	Firm bottom.
02/23/10	11.89	831.69	18.75	824.83	0.04	--	--	--	Firm bottom, 0.0 ppm.
05/28/10	11.94	831.64	18.66	824.92	0.13	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	11.80	831.78	18.70	824.88	0.09	--	--	--	Sediment on probe, mild coal tar-like odor, 0.0 ppm.
11/23/10	11.05	832.53	18.65	824.93	0.14	--	--	--	Sediment on probe, mild coal tar-like odor, 0.0 ppm.
02/28/11	11.04	832.54	18.70	824.88	0.09	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	10.32	833.26	18.72	824.86	0.07	--	--	--	Firm bottom, 0.0 ppm.
08/26/11	12.06	831.52	18.69	824.89	0.10	--	--	--	Firm bottom, 0.0 ppm.
02/15/12	11.59	831.99	18.67	824.91	0.12	--	--	--	Firm bottom, 0.0 ppm.
06/15/12	11.77	831.81	18.67	824.91	0.12	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	11.77	831.81	18.71	824.87	0.08	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	12.06	831.52	18.70	824.88	0.09	--	--	--	Firm bottom.
05/16/14	11.15	832.43	18.68	824.90	0.11	--	--	--	Firm bottom.
12/01/14	11.78	831.80	18.72	824.86	0.07	--	--	--	Firm bottom.
12/17/15	12.01	831.57	18.63	824.95	0.16	--	--	--	Firm bottom.
12/27/16	11.30	832.28	18.69	824.89	0.10	--	--	--	Firm bottom.
12/21/17	12.22	831.36	18.72	824.86	0.07	--	--	--	Firm bottom.
11/23/20	NM	NM	NM	NM	NM	NM	NM	NM	Unable to locate
11/02/21 ⁵	10.07	833.51	17.96	825.62	0.83	--	--	--	
11/03/22	12.35	831.23	17.68	825.90	1.11	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 843.58
 Well bottom elev. (installed; FAMSL) = 824.79
 Installed Well Depth (ft) = 18.79

Notes:

- Elevations referenced to the NAVD 88 Datum.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Well bottom elevation is based on averaged measured well depth over time. The well bottom elevation was changed on 12/29/08 because sediment thickness values, using well bottom elevation from probing event on 1/13/08, were indicating negative sediment.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 843.58 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-8									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	9.58	833.47	14.09	828.96	4.01	--	--	--	Soft bottom.
04/25/07	9.20	833.85	14.10	828.95	4.00	--	--	--	Very Silty, Silt on probe, trace sheen on sediment on probe.
05/30/07	11.48	831.57	14.02	829.03	4.08	--	--	--	Silt on 2" of end of probe.
06/27/07	12.32	830.73	14.05	829.00	4.05	--	--	--	Coal-tar-like odor, Silt on the last 4" of probe, black material on probe and tape.
07/24/07	11.99	831.06	14.68	828.37	3.42	--	--	--	Penetrated sediment 0.9', trace coal-tar-like blebs and sheen in sediment, strong manure-like odor.
08/28/07	12.50	830.55	14.04	829.01	4.06	--	--	--	Soft bottom, approximately 3" of Silt on end of probe, mild manure-like odor.
09/20/07	12.58	830.47	13.90	829.15	4.20	--	--	--	Firm bottom, slight coal-tar-like odor.
10/31/07	11.31	831.74	14.39	828.66	3.71	--	--	--	Penetrated sediment 0.6', coal-tar-like odor, VOCs = 1.5 ppm. Vault lid is not closing flush to the surrounding vault frame work.
11/20/07	11.03	832.02	13.97	829.08	4.13	--	--	--	Manure-like odor, sediment on probe, slight coal-tar-like odor.
12/18/07	10.76	832.29	14.15	828.90	3.95	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	10.82	832.23	13.87	829.18	4.23	--	--	--	Soft bottom.
02/21/08	9.76	833.29	14.21	828.84	3.89	--	--	--	Soft bottom, coal-tar-like odor.
03/18/08	9.49	833.56	14.61	828.44	3.49	--	--	--	Soft bottom, coal-tar-like odor, trace brown/black oily coal-tar-like material on sediment on probe, sheen on sediment on probe.
05/12/08	11.50	831.55	14.84	828.21	3.26	--	--	--	Soft bottom, coal-tar-like odor.
06/05/08 ⁴	12.10	830.95	18.03	825.02	0.07	--	--	--	Well redeveloped on June 5th 2008.
07/08/08	12.51	830.54	18.07	824.98	0.03	--	--	--	Firm bottom.
08/06/08	12.07	830.98	18.02	825.03	0.08	--	--	--	Firm bottom, coal-tar-like odor.
11/19/08	11.69	831.36	18.04	825.01	0.06	--	--	--	Firm bottom.
02/06/09	11.79	831.26	18.09	824.96	0.01	--	--	--	
05/29/09	10.93	832.12	18.05	825.00	0.05	--	--	--	Hard bottom, vault has rotated. NYSEG storing high tension power line poles around vault and may have disturbed the vault when bringing in the poles.
08/11/09	10.65	832.40	18.00	825.05	0.10	--	--	--	Firm bottom.
11/09/09	11.21	831.84	18.00	825.05	0.10	--	--	--	Hard bottom.
02/23/10	11.78	831.27	18.05	825.00	0.05	--	--	--	Firm bottom, 0.0 ppm.
05/28/10	11.85	831.20	18.00	825.05	0.10	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	11.73	831.32	18.05	825.00	0.05	--	--	--	0.0 ppm.
11/23/10	11.04	832.01	18.00	825.05	0.10	--	--	--	Firm bottom.
02/28/11	10.95	832.10	17.70	825.35	0.40	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	10.16	832.89	17.92	825.13	0.18	--	--	--	Firm bottom, 0.0 ppm.
08/26/11	12.01	831.04	17.93	825.12	0.17	--	--	--	Firm bottom, 0.0 ppm.
02/15/12	11.53	831.52	17.92	825.13	0.18	--	--	--	Firm bottom, 0.0 ppm.
06/15/12	11.85	831.20	17.89	825.16	0.21	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	11.64	831.41	18.00	825.05	0.10	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	11.92	831.13	17.90	825.15	0.20	--	--	--	Firm bottom.
05/16/14	11.02	832.03	17.89	825.16	0.21	--	--	--	MGP odor; firm bottom.
12/01/14	11.72	831.33	17.95	825.10	0.15	--	--	--	Firm bottom.
12/17/15	11.97	831.08	17.72	825.33	0.38	--	--	--	Firm bottom.
12/27/16	11.24	831.81	17.98	825.07	0.12	--	--	--	Firm bottom.
12/21/17	12.12	830.93	18.00	825.05	0.10	--	--	--	Soft bottom, trace sediment on bottom of probe.
11/23/20	12.12	830.93	17.93	825.12	0.17	--	--	--	
11/02/21 ⁵	9.99	833.50	17.54	825.95	0.56	--	--	--	0.2 feet of sediment
11/03/22	12.24	831.25	17.08	826.41	1.02	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 843.49
 Well bottom elev. (installed; FAMSL) = 825.39
 Installed Well Depth (ft) = 18.10

Notes:

1. Elevations referenced to the NAVD 88 Datum.
2. Used weighted measuring tape for depth to bottom starting on 7/24/07.
3. Well bottom elevations are approximate.
4. Well redeveloped on June 5th 2008.
5. Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 843.05 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-9									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	9.59	833.93	52.93	790.59	0.02	--	--	--	Firm bottom.
04/25/07	9.20	834.32	53.10	790.42	-0.15	--	--	--	
05/30/07	11.44	832.08	53.25	790.27	-0.30	--	--	--	Trace Silt on probe.
06/27/07	12.32	831.20	53.05	790.47	-0.10	--	--	--	Mild coal-tar-like odor.
07/24/07	12.00	831.52	52.92	790.60	0.03	--	--	--	Able to penetrate sediment in well 0.1'.
08/28/07	12.51	831.01	53.05	790.47	-0.10	--	--	--	Trace black material on end of probe, mild manure-like odor.
09/20/07	12.59	830.93	52.91	790.61	0.04	--	--	--	Bubbles on surface of water, able to penetrate sediment in well 0.1', other wise firm bottom.
10/31/07	11.33	832.19	52.90	790.62	0.05	--	--	--	Soft bottom, mild coal-tar-like odor, thin film on water surface, VOCs = 7.4 ppm. vault is not closing flush to surrounding vault frame
11/20/07	11.03	832.49	53.31	790.21	-0.36	--	--	--	Manure-like odor.
12/18/07	10.77	832.75	53.30	790.22	-0.35	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	10.81	832.71	52.85	790.67	0.10	--	--	--	Soft bottom.
02/21/08	9.75	833.77	52.93	790.59	0.02	--	--	--	Soft bottom, coal-tar-like odor.
03/18/08	9.48	834.04	52.97	790.55	-0.02	--	--	--	Soft bottom.
05/12/08	11.49	832.03	53.01	790.51	-0.06	--	--	--	Soft bottom.
06/05/08	12.10	831.42	52.92	790.60	0.03	--	--	--	
07/08/08	12.50	831.02	52.92	790.60	0.03	--	--	--	Soft bottom, mild coal-tar-like odor.
08/06/08	12.07	831.45	52.92	790.60	0.03	--	--	--	Soft bottom, mild coal-tar-like odor.
11/19/08	11.73	831.79	52.96	790.56	-0.01	--	--	--	Firm bottom.
02/06/09	11.91	831.61	52.91	790.61	0.04	--	--	--	Firm bottom.
05/29/09	10.97	832.55	52.92	790.60	0.03	--	--	--	Firm bottom, vault has rotated. NYSEG storing high tension power line poles around vault and may have disturbed the vault when bringing in the poles.
08/11/09	10.66	832.86	52.92	790.60	0.03	--	--	--	Soft bottom.
11/09/09	11.21	832.31	52.94	790.58	0.01	--	--	--	Firm bottom.
02/23/10	11.81	831.71	52.91	790.61	0.04	--	--	--	Firm bottom, 0.0 ppm.
05/28/10	11.87	831.65	52.90	790.62	0.05	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	11.73	831.79	52.95	790.57	0.00	--	--	--	Cow manure-like odor, 0.0 ppm.
11/23/10	11.01	832.51	53.03	790.49	-0.08	--	--	--	Soft bottom.
02/28/11	10.59	832.93	52.94	790.58	0.01	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	10.19	833.33	52.94	790.58	0.01	--	--	--	Firm bottom, 0.0 ppm.
08/26/11	12.01	831.51	52.92	790.60	0.03	--	--	--	Firm bottom, 0.0 ppm.
02/15/12	11.53	831.99	52.92	790.60	0.03	--	--	--	Firm bottom, 0.0 ppm.
06/15/12	11.73	831.79	52.90	790.62	0.05	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	11.69	831.83	52.95	790.57	0.00	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	11.99	831.53	52.45	791.07	0.50	--	--	--	Soft bottom.
05/16/14	11.08	832.44	52.29	791.23	0.66	--	--	--	Soft bottom.
12/01/14	11.74	831.78	52.30	791.22	0.65	--	--	--	Soft bottom.
12/17/15	11.98	831.54	52.22	791.30	0.73	--	--	--	Soft bottom.
12/27/16	11.28	832.24	52.88	790.64	0.07	--	--	--	Firm bottom.
12/21/17	12.14	831.38	52.90	790.62	0.05	--	--	--	Soft bottom, sediment on bottom of probe.
11/23/20	12.18	831.34	52.91	790.61	0.04	--	--	--	
11/02/21 ⁴	10.09	833.44	52.94	790.59	0.01	--	--	--	
11/03/22	12.28	831.25	52.06	791.47	0.89	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 843.53
 Well bottom elev. (installed; FAMSL) = 790.58
 Installed Well Depth (ft) = 52.95

Notes:

1. Elevations referenced to the NAVD 88 Datum.
2. Used weighted measuring tape for depth to bottom starting on 7/24/07.
3. Well bottom elevations are approximate.
4. Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 843.52 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-10									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	9.99	833.92	16.44	827.47	0.16	--	--	--	Soft bottom.
04/25/07	9.60	834.31	16.20	827.71	0.40	--	--	--	Soft bottom, trace sheen on probe.
05/30/07	11.89	832.02	16.31	827.60	0.29	--	--	--	
06/27/07	12.40	831.51	16.05	827.86	0.55	--	--	--	Mild coal-tar-like odor, Silt on the last 2" of probe, trace sheen on probe.
07/24/07	12.41	831.50	16.78	827.13	-0.18	--	--	--	Able to penetrate sediment in well 0.6', black material on probe, trace coal-tar-like blebs on probe.
08/28/07	12.90	831.01	16.07	827.84	0.53	--	--	--	Soft bottom, approximately 3" Silt on end of probe, mild manure-like odor.
09/20/07	12.99	830.92	16.26	827.65	0.34	--	--	--	Brown material on probe (from water surface), bubbles on water surface, able to penetrate sediment in well 0.2', coal-tar-like odor and coal-tar-like material on probe.
10/31/07	11.73	832.18	16.31	827.60	0.29	--	--	--	Able to penetrate sediment in well 0.3', VOCs = 2.2 ppm.
11/20/07	11.46	832.45	16.16	827.75	0.44	--	--	--	Sediment on probe, strong coal-tar-like odor.
12/18/07	11.16	832.75	16.22	827.69	0.38	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	11.24	832.67	16.00	827.91	0.60	--	--	--	Soft bottom, coal-tar-like odor.
02/21/08	10.18	833.73	16.34	827.57	0.26	--	--	--	Soft bottom, coal-tar-like odor.
03/18/08	9.89	834.02	16.26	827.65	0.34	--	--	--	Soft bottom, coal-tar-like odor, sheen on sediment on probe.
05/12/08	11.39	832.52	16.37	827.54	0.23	--	--	--	Sediment on probe, coal-tar-like odor.
06/05/08	12.51	831.40	16.79	827.12	-0.19	--	--	--	Soft, approximately 0.6' of gray sediment, trace sheen.
07/08/08	12.42	831.49	16.25	827.66	0.35	--	--	--	Soft bottom, coal-tar-like odor, sediment on probe.
08/06/08	12.48	831.43	16.34	827.57	0.26	--	--	--	Coal-tar-like odor.
11/19/08	12.09	831.82	16.80	827.11	-0.20	--	--	--	Firm bottom.
02/06/09	12.15	831.76	16.59	827.32	0.01	--	--	--	
05/29/09	11.16	832.75	16.43	827.48	0.17	--	--	--	Firm bottom, soil around vault has settled.
08/11/09	11.09	832.82	16.49	827.42	0.11	--	--	--	Soft bottom, 4" of sediment on probe.
11/09/09	11.62	832.29	16.39	827.52	0.21	--	--	--	Soft bottom, 2" of sediment on probe.
02/23/10	12.21	831.70	16.28	827.63	0.32	--	--	--	Very soft bottom, 1" of sediment on probe, measured top of sediment at 15.81' (TIC), approximately 0.79' of sediment in well, 0.2 ppm.
05/28/10	12.28	831.63	16.07	827.84	0.53	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	12.12	831.79	16.00	827.91	0.60	--	--	--	Sediment on probe, coal tar-like odor, 0.0 ppm.
11/23/10	11.39	832.52	16.08	827.83	0.52	--	--	--	Soft bottom.
02/28/11	11.35	832.56	16.12	827.79	0.48	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	10.56	833.35	16.20	827.71	0.40	--	--	--	Soft bottom, 0.0 ppm.
08/26/11	12.41	831.50	16.24	827.67	0.36	--	--	--	Soft bottom, 0.0 ppm.
02/15/12	11.72	832.19	16.06	827.85	0.54	--	--	--	Soft bottom, 0.0 ppm; trace sheen on probe.
06/15/12	11.91	832.00	16.33	827.58	0.27	--	--	--	Soft bottom, 0.0 ppm.
11/19/12	11.76	832.15	16.34	827.57	0.26	--	--	--	Soft bottom, 0.0 ppm.
11/26/13	11.55	832.36	15.94	827.97	0.66	--	--	--	Soft bottom.
05/16/14	10.72	833.19	15.99	827.92	0.61	--	--	--	Soft bottom.
12/01/14	11.31	832.60	15.87	828.04	0.73	--	--	--	Soft bottom.
12/17/15	11.54	832.37	15.91	828.00	0.69	--	--	--	Soft bottom.
12/27/16	10.80	833.11	16.20	827.71	0.40	--	--	--	Soft bottom.
12/21/17	11.69	832.22	16.26	827.65	0.34	--	--	--	Firm bottom.
11/23/20	11.71	832.20	16.27	827.64	0.33	--	--	--	0.2' sediment
11/02/21 ⁴	9.55	833.53	16.23	826.85	0.37	--	--	--	0.2 feet of sediment
11/03/22	11.82	831.26	15.71	827.37	0.89	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 843.08
 Well bottom elev. (installed; FAMSL) = 826.48
 Installed Well Depth (ft) = 16.60

Notes:

1. Elevations referenced to the NAVD 88 Datum.
2. Used weighted measuring tape for depth to bottom starting on 7/24/07.
3. Well bottom elevations are approximate.
4. Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 843.91 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-11									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	9.97	833.87	49.51	794.33	0.19	--	--	--	Soft bottom.
04/25/07	9.60	834.24	49.50	794.34	0.20	--	--	--	Soft bottom, mothball-like odor.
05/30/07	11.87	831.97	49.80	794.04	-0.10	--	--	--	Trace Silt on probe.
06/27/07	12.40	831.44	49.52	794.32	0.18	--	--	--	Mild coal-tar-like odor, trace Silt on probe, black material on probe and tape.
07/24/07	12.39	831.45	49.49	794.35	0.21	--	--	--	Able to penetrate sediment in well 0.3', black material on probe.
08/28/07	12.90	830.94	49.50	794.34	0.20	--	--	--	Soft bottom, manure-like odor.
09/20/07	12.97	830.87	49.39	794.45	0.31	--	--	--	Brown material on probe (from water surface), bubbles on water surface, firm bottom.
10/31/07	11.71	832.13	49.36	794.48	0.34	--	--	--	Firm bottom, mild coal-tar-like odor, VOCs = 4.5 ppm.
11/20/07	11.41	832.43	49.39	794.45	0.31	--	--	--	Coal-tar-like odor.
12/18/07	11.13	832.71	49.75	794.09	-0.05	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	11.21	832.63	49.37	794.47	0.33	--	--	--	Soft bottom, coal-tar-like odor.
02/21/08	10.17	833.67	49.40	794.44	0.30	--	--	--	Soft bottom, coal-tar-like odor.
03/18/08	9.86	833.98	49.37	794.47	0.33	--	--	--	Soft bottom, coal-tar-like odor.
05/12/08	11.39	832.45	49.38	794.46	0.32	--	--	--	Soft bottom, coal-tar-like odor.
06/05/08	12.50	831.34	49.36	794.48	0.34	--	--	--	
07/08/08	12.58	831.26	49.38	794.46	0.32	--	--	--	Firm bottom, mild coal-tar-like odor.
08/06/08	12.47	831.37	49.45	794.39	0.25	--	--	--	Firm bottom, mild coal-tar-like odor.
11/19/08	12.05	831.79	49.40	794.44	0.30	--	--	--	Firm bottom.
02/06/09	12.14	831.70	49.25	794.59	0.45	--	--	--	
05/29/09	11.36	832.48	49.39	794.45	0.31	--	--	--	Firm bottom, soil around vault has settled.
08/11/09	11.07	832.77	49.30	794.54	0.40	--	--	--	Firm bottom.
11/09/09	11.62	832.22	49.41	794.43	0.29	--	--	--	Firm bottom.
02/23/10	12.21	831.63	49.36	794.48	0.34	--	--	--	Firm bottom, 0.1 ppm.
05/28/10	12.23	831.61	49.55	794.29	0.15	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	12.05	831.79	49.40	794.44	0.30	--	--	--	0.0 ppm.
11/23/10	11.41	832.43	49.37	794.47	0.33	--	--	--	0.0 ppm.
02/28/11	11.37	832.47	49.41	794.43	0.29	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	10.55	833.29	49.32	794.52	0.38	--	--	--	Firm bottom, 0.0 ppm.
08/26/11	12.41	831.43	49.32	794.52	0.38	--	--	--	Firm bottom, 0.0 ppm.
02/15/12	11.92	831.92	43.64	800.20	6.06	--	--	--	Soft bottom, 0.0 ppm.
06/15/12	12.11	831.73	43.60	800.24	6.10	--	--	--	Soft bottom, 0.0 ppm.
11/19/12 ⁴	12.09	831.75	39.48	804.36	10.22	--	--	--	Soft bottom, 0.0 ppm.
11/26/13 ⁴	12.38	831.46	39.44	804.40	10.26	--	--	--	Soft bottom.
05/16/14	11.45	832.39	39.52	804.32	10.18	--	--	--	Soft bottom.
12/01/14	12.15	831.69	39.33	804.51	10.37	--	--	--	Soft bottom.
12/17/15	12.37	831.47	39.30	804.54	10.40	--	--	--	Soft bottom.
12/27/16	11.65	832.19	39.33	804.51	10.37	--	--	--	Soft bottom.
12/21/17	12.53	831.31	39.41	804.43	10.29	--	--	--	Firm bottom, 0.3' of sediment on bottom of probe.
11/23/20	12.58	831.26	39.45	804.39	10.25	--	--	--	Hard bottom.
11/02/21 ⁵	10.39	833.53	39.60	804.32	10.10	--	--	--	
11/03/22	12.65	831.27	40.04	803.88	9.66	--	--	--	Soft bottom, 0.0 ppm.

Top of Casing (FAMSL) = 843.92
 Well bottom elev. (installed; FAMSL) = 794.22
 Installed Well Depth (ft) = 49.70

Notes:

- Elevations referenced to the NAVD 88 Datum.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Well RW-11 was redeveloped on July 26, 2012 and May 29, 2013.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 843.84 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-12									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	11.09	833.56	47.92	796.73	0.04	--	--	--	Soft bottom.
04/25/07	10.53	834.12	47.95	796.70	0.01	--	--	--	Vault damaged, sides are pushed in, J-plugs cannot be installed because the vault has settled, cannot close properly with j-plugs in place, possibly caused by heavy equipment compacting sediment around vault (long plastic pipes are stacked next to vault).
05/30/07	12.68	831.97	48.00	796.65	-0.04	--	--	--	
06/27/07	13.42	831.23	48.05	796.60	-0.09	--	--	--	Mild coal-tar-like odor, trace Silt on probe.
07/24/07	13.28	831.37	47.88	796.77	0.08	--	--	--	Able to penetrate sediment in well 0.1', sediment at water surface, no apparent odor.
08/28/07	13.68	830.97	48.00	796.65	-0.04	--	--	--	Soft bottom. Vault lid difficult to close, appears that vault has had more damage done since the last time fluid levels were measured.
09/20/07	13.77	830.88	47.90	796.75	0.06	--	--	--	Soft bottom, slight coal-tar-like odor, drain material has settled approximately 2.0'.
10/31/07	12.69	831.96	47.87	796.78	0.09	--	--	--	Firm bottom, mild coal-tar-like odor, VOCs = 1.8 ppm.
11/20/07	12.47	832.18	48.00	796.65	-0.04	--	--	--	Mild coal-tar-like odor.
12/18/07	12.02	832.63	47.92	796.73	0.04	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	12.01	832.64	47.83	796.82	0.13	--	--	--	Soft bottom.
02/21/08	11.08	833.57	47.93	796.72	0.03	--	--	--	Soft bottom, coal-tar-like odor.
03/18/08	10.62	834.03	47.90	796.75	0.06	--	--	--	Soft bottom.
05/12/08	12.60	832.05	47.90	796.75	0.06	--	--	--	Soft bottom.
06/05/08	13.29	831.36	47.90	796.75	0.06	--	--	--	
07/08/08	13.69	830.96	47.95	796.70	0.01	--	--	--	Soft bottom, coal-tar-like odor.
08/06/08	13.24	831.41	47.95	796.70	0.01	--	--	--	Soft bottom, coal-tar-like odor.
11/19/08	13.13	831.52	47.93	796.72	0.03	--	--	--	
02/06/09	13.06	831.59	47.88	796.77	0.08	--	--	--	
05/29/09	12.72	831.93	47.90	796.75	0.06	--	--	--	Soil around the outside and on the inside of the vault has settled.
08/11/09	12.32	832.33	47.92	796.73	0.04	--	--	--	Soft bottom.
11/09/09	12.51	832.14	47.92	796.73	0.04	--	--	--	Soft bottom.
02/23/10	13.03	831.62	47.90	796.75	0.06	--	--	--	Soft bottom, coal-tar-like odor, 0.2 ppm.
05/28/10	13.01	831.64	47.89	796.76	0.07	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	12.97	831.68	47.95	796.70	0.01	--	--	--	0.0 ppm.
11/23/10	12.32	832.33	47.93	796.72	0.03	--	--	--	Soft bottom.
02/28/11	12.42	832.23	47.88	796.77	0.08	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	11.11	833.54	47.90	796.75	0.06	--	--	--	Firm bottom, 0.0 ppm.
08/26/11	13.13	831.52	47.90	796.75	0.06	--	--	--	Soft bottom, 0.0 ppm.
02/15/12	12.76	831.89	47.85	796.80	0.11	--	--	--	Firm bottom, 0.0 ppm.
06/15/12	13.07	831.58	47.85	796.80	0.11	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	12.95	831.70	47.88	796.77	0.08	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	13.25	831.40	47.80	796.85	0.16	--	--	--	Soft bottom.
05/16/14	12.35	832.30	47.90	796.75	0.06	--	--	--	Firm bottom.
12/01/14	13.17	831.48	47.78	796.87	0.18	--	--	--	Firm bottom.
12/17/15	13.38	831.27	47.64	797.01	0.32	--	--	--	Firm bottom.
12/27/16	12.70	831.95	47.86	796.79	0.10	--	--	--	Firm bottom.
12/21/17	13.46	831.19	47.88	796.77	0.08	--	--	--	Firm bottom.
11/23/20	13.50	831.15	47.90	796.75	0.06	--	--	--	
11/02/21 ⁴	11.35	833.43	47.91	796.87	0.05	--	--	--	
11/03/22	13.47	831.31	47.92	796.86	0.04	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 844.78
 Well bottom elev. (installed; FAMSL) = 796.82
 Installed Well Depth (ft) = 47.96

Notes:

1. Elevations referenced to the NAVD 88 Datum.
2. Used weighted measuring tape for depth to bottom starting on 7/24/07.
3. Well bottom elevations are approximate.
4. Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 844.65 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-13									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	11.03	833.72	14.99	829.76	3.71	--	--	--	Soft bottom, coal-tar-like odor.
04/25/07	10.52	834.23	14.89	829.86	3.81	--	--	--	Vault damaged, sides are pushed in, J-plugs cannot be installed because the vault has settled, cannot close with j-plugs in place. possibly caused by heavy equipment compacting sediment around vault (long plastic pipes are stacked next to vault).
05/30/07	12.70	832.05	14.95	829.80	3.75	--	--	--	
06/27/07	13.35	831.40	13.50	831.25	5.20	--	--	--	Firm bottom, mild coal-tar-like odor, Silt on the last 2" of probe.
07/24/07	13.11	831.64	13.48	831.27	5.22	--	--	--	Penetrated sediment 0.5', organic-like odor, brown sediment at water surface.
08/28/07	13.30	831.45	13.30	831.45	5.40	--	--	--	Meter sounded at the bottom of well (saturated sediment at bottom), approximately 1.5" of Silt on probe. Vault lid was difficult to close, vault has had more damage since the last time fluid levels were measured.
09/20/07	13.25	831.50	13.25	831.50	5.45	--	--	--	Meter sounded at sediment at bottom of well (saturated sediment in well), no measurable water in well, sediment on the probe, drain material has settled approx. 2'.
10/31/07	12.68	832.07	13.19	831.56	5.51	--	--	--	Firm bottom, mild coal-tar-like odor, VOCs = 1.3 ppm.
11/20/07	12.22	832.53	13.22	831.53	5.48	--	--	--	Firm bottom.
12/18/07	12.02	832.73	13.18	831.57	5.52	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	12.03	832.72	13.14	831.61	5.56	--	--	--	
02/21/08	11.06	833.69	13.43	831.32	5.27	--	--	--	Firm bottom.
03/18/08	10.61	834.14	13.38	831.37	5.32	--	--	--	Firm bottom.
05/12/08	12.59	832.16	12.55	832.20	6.15	--	--	--	Soft bottom.
06/05/08 ⁴	13.32	831.43	18.60	826.15	0.10	--	--	--	Hard bottom, well redeveloped on June 5th 2008.
07/08/08	13.71	831.04	18.55	826.20	0.15	--	--	--	Firm bottom, coal-tar-like odor.
08/06/08 ⁴	13.25	831.50	18.55	826.20	0.15	--	--	--	Firm bottom, coal-tar-like odor.
11/19/08	13.12	831.63	18.55	826.20	0.15	--	--	--	
02/06/09	13.09	831.66	18.63	826.12	0.07	--	--	--	Brown NAPL-like material on tip of probe, coal-tar-like odor.
05/29/09	12.45	832.30	18.67	826.08	0.03	--	--	--	Soil around the outside and on the inside of the vault has settled.
08/11/09	12.33	832.42	17.79	826.96	0.91	--	--	--	Firm bottom, slight odor.
11/09/09	12.51	832.24	17.78	826.97	0.92	--	--	--	Firm bottom.
02/23/10	13.04	831.71	17.70	827.05	1.00	--	--	--	Soft bottom, 0.1 ppm.
05/28/10	13.01	831.74	17.62	827.13	1.08	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	12.92	831.83	17.50	827.25	1.20	--	--	--	0.0 ppm.
11/23/10	12.32	832.43	17.75	827.00	0.95	--	--	--	Firm bottom.
02/28/11	12.02	832.73	17.62	827.13	1.08	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	11.08	833.67	17.37	827.38	1.33	--	--	--	Firm bottom, 0.0 ppm.
08/26/11	13.07	831.68	17.36	827.39	1.34	--	--	--	Soft bottom, 0.0 ppm.
02/15/12	12.76	831.99	15.83	828.92	2.87	--	--	--	Soft bottom, coal tar-like odor, 0.0 ppm.
06/15/12	12.99	831.76	17.60	827.15	1.10	--	--	--	Soft bottom, 0.0 ppm.
11/19/12	12.97	831.78	18.55	826.20	0.15	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	13.25	831.50	18.50	826.25	0.20	--	--	--	Soft bottom.
05/16/14	12.37	832.38	18.52	826.23	0.18	--	--	--	Firm bottom.
12/01/14	13.14	831.61	18.47	826.28	0.23	--	--	--	Firm bottom.
12/17/15	13.38	831.37	18.42	826.33	0.28	--	--	--	Firm bottom.
12/27/16	12.65	832.10	18.47	826.28	0.23	--	--	--	Firm bottom.
12/21/17	13.46	831.29	18.52	826.23	0.18	--	--	--	Firm bottom.
11/23/20	13.48	831.27	18.49	826.26	0.21	--	--	--	Hard bottom.
11/02/21 ⁵	11.38	833.40	18.51	826.27	0.19	--	--	--	
11/03/22	13.46	831.32	18.29	826.49	0.41	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 844.78
 Well bottom elev. (installed; FAMSL) = 826.08
 Installed Well Depth (ft) = 18.70

Notes:

- Elevations referenced to the NAVD 88 Datum.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Well RW-13 was redeveloped on June 5, 2008 and July 27, 2012.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 844.75 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-14									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	12.07	833.20	17.09	828.18	0.51	--	--	--	Soft bottom.
04/25/07	11.57	833.70	17.20	828.07	0.40	--	--	--	
05/30/07	14.74	830.53	17.07	828.20	0.53	--	--	--	
06/27/07	14.45	830.82	17.16	828.11	0.44	--	--	--	Mild, coal-tar-like odor, Silt on the last 2" of probe.
07/24/07	14.33	830.94	17.69	827.58	-0.09	--	--	--	Able to penetrate sediment in well 0.7', trace sheen and black material on end of probe, faint coal-tar-like odor.
08/28/07	14.72	830.55	17.12	828.15	0.48	--	--	--	Silt on end of probe, mild manure-like odor.
09/20/07	14.83	830.44	17.00	828.27	0.60	--	--	--	Firm bottom.
10/31/07	13.75	831.52	17.04	828.23	0.56	--	--	--	Firm bottom, mild coal-tar-like odor, VOCs = 0.5 ppm.
11/20/07	13.45	831.82	17.05	828.22	0.55	--	--	--	Coal-tar-like odor.
12/18/07	13.05	832.22	17.30	827.97	0.30	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	13.06	832.21	16.93	828.34	0.67	--	--	--	
02/21/08	12.11	833.16	17.15	828.12	0.45	--	--	--	Firm bottom.
03/18/08	11.64	833.63	17.15	828.12	0.45	--	--	--	Firm bottom.
05/12/08	12.63	832.64	17.05	828.22	0.55	--	--	--	Soft bottom.
06/05/08	14.33	830.94	17.14	828.13	0.46	--	--	--	Hard bottom.
07/08/08	14.72	830.55	17.17	828.10	0.43	--	--	--	Firm bottom, coal-tar-like-odor.
08/06/08	14.28	830.99	17.12	828.15	0.48	--	--	--	Firm bottom, coal-tar-like-odor.
11/19/08	14.12	831.15	17.10	828.17	0.50	--	--	--	
02/06/09	14.08	831.19	17.05	828.22	0.55	--	--	--	Firm bottom.
05/29/09	13.76	831.51	17.12	828.15	0.48	--	--	--	Firm bottom.
08/11/09	13.42	831.85	17.11	828.16	0.49	--	--	--	Firm bottom.
11/09/09	13.53	831.74	17.11	828.16	0.49	--	--	--	Firm bottom.
02/23/10	14.04	831.23	17.05	828.22	0.55	--	--	--	Firm bottom, 0.1 ppm.
05/28/10	13.99	831.28	17.00	828.27	0.60	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	13.86	831.41	17.08	828.19	0.52	--	--	--	0.0 ppm.
11/23/10	13.29	831.98	17.07	828.20	0.53	--	--	--	Firm bottom.
02/28/11	13.32	831.95	17.00	828.27	0.60	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	12.07	833.20	17.02	828.25	0.58	--	--	--	Firm bottom, 0.0 ppm.
08/26/11	14.13	831.14	17.06	828.21	0.54	--	--	--	Firm bottom, 0.0 ppm.
02/15/12	13.81	831.46	17.09	828.18	0.51	--	--	--	Firm bottom, 0.0 ppm.
06/15/12	14.29	830.98	17.10	828.17	0.50	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	13.99	831.28	17.02	828.25	0.58	--	--	--	Soft bottom, 0.0 ppm.
11/26/13	14.30	830.97	17.05	828.22	0.55	--	--	--	Soft bottom.
05/16/14	13.41	831.86	16.98	828.29	0.62	--	--	--	Soft bottom.
12/01/14	14.18	831.09	17.04	828.23	0.56	--	--	--	Soft bottom.
12/17/15	14.39	830.88	17.00	828.27	0.60	--	--	--	Soft bottom.
12/27/16	13.70	831.57	17.17	828.10	0.43	--	--	--	Soft bottom.
12/21/17	14.50	830.77	17.07	828.20	0.53	--	--	--	Firm bottom.
11/23/20	14.55	830.72	17.07	828.20	0.53	--	--	--	
11/02/21 ⁴	12.39	833.41	17.13	828.67	0.47	--	--	--	
11/03/22	14.50	831.30	17.00	828.80	0.60	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 845.80
 Well bottom elev. (installed; FAMSL) = 828.20
 Installed Well Depth (ft) = 17.60

Notes:

- Elevations referenced to the NAVD 88 Datum.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 845.27 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-15									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	12.07	833.16	48.98	796.25	0.22	--	--	--	Soft bottom, coal-tar-like odor.
04/25/07	11.54	833.69	48.95	796.28	0.25	--	--	--	
05/30/07	13.66	831.57	49.30	795.93	-0.10	--	--	--	
06/27/07	14.43	830.80	49.00	796.23	0.20	--	--	--	Trace Silt on probe, mild coal-tar-like odor.
07/24/07	14.28	830.95	48.95	796.28	0.25	--	--	--	Able to penetrate sediment in well 0.2', trace coal-tar-like blebs and black material on end of probe, organic-like odor.
08/28/07	14.68	830.55	48.97	796.26	0.23	--	--	--	Orange material on probe.
09/20/07	14.78	830.45	48.95	796.28	0.25	--	--	--	Soft bottom, coal-tar-like odor.
10/31/07	13.70	831.53	48.91	796.32	0.29	--	--	--	Firm bottom, mild coal-tar-like odor, VOCs = 0.9 ppm.
11/20/07	13.42	831.81	49.05	796.18	0.15	--	--	--	Coal-tar-like odor.
12/18/07	13.02	832.21	51.72	793.51	-2.52	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	12.99	832.24	48.89	796.34	0.31	--	--	--	Soft bottom.
02/21/08	12.08	833.15	48.90	796.33	0.30	--	--	--	Firm bottom.
03/18/08	11.60	833.63	48.90	796.33	0.30	--	--	--	Firm bottom.
05/12/08	12.57	832.66	48.95	796.28	0.25	--	--	--	Firm bottom.
06/05/08	14.28	830.95	48.90	796.33	0.30	--	--	--	Hard bottom.
07/08/08	14.69	830.54	48.93	796.30	0.27	--	--	--	Coal-tar-like odor.
08/06/08	14.21	831.02	49.29	795.94	-0.09	--	--	--	Coal-tar-like odor.
11/19/08	14.10	831.13	48.97	796.26	0.23	--	--	--	
02/06/09	14.04	831.19	49.02	796.21	0.18	--	--	--	Firm bottom.
05/29/09	13.42	831.81	48.92	796.31	0.28	--	--	--	Hard bottom.
08/11/09	13.32	831.91	48.90	796.33	0.30	--	--	--	Firm bottom.
11/09/09	13.52	831.71	48.90	796.33	0.30	--	--	--	Firm bottom.
02/23/10	14.02	831.21	48.95	796.28	0.25	--	--	--	Firm bottom, 0.2 ppm.
05/28/10	13.99	831.24	48.95	796.28	0.25	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	13.89	831.34	48.95	796.28	0.25	--	--	--	0.0 ppm.
11/23/10	13.29	831.94	49.04	796.19	0.16	--	--	--	Firm bottom.
02/28/11	13.39	831.84	48.95	796.28	0.25	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	12.08	833.15	48.90	796.33	0.30	--	--	--	Soft bottom, 0.0 ppm.
08/26/11	14.12	831.11	48.80	796.43	0.40	--	--	--	Firm bottom, 0.0 ppm.
02/15/12	13.75	831.48	47.85	797.38	1.35	--	--	--	Firm bottom, 0.0 ppm.
06/15/12	13.72	831.51	47.86	797.37	1.34	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	13.96	831.27	48.87	796.36	0.33	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	14.30	830.93	48.85	796.38	0.35	--	--	--	Soft bottom.
05/16/14	13.35	831.88	49.02	796.21	0.18	--	--	--	Firm bottom.
12/01/14	14.15	831.08	48.98	796.25	0.22	--	--	--	Firm bottom.
12/17/15	14.35	830.88	48.82	796.41	0.38	--	--	--	Firm bottom.
12/27/16	13.63	831.60	48.82	796.41	0.38	--	--	--	Firm bottom.
12/21/17	14.46	830.77	48.86	796.37	0.34	--	--	--	Firm bottom.
11/23/20	14.45	830.78	48.82	796.41	0.38	--	--	--	
11/02/21 ⁴	12.37	833.40	48.85	796.92	0.35	--	--	--	
11/03/22	14.45	831.32	48.92	796.85	0.28	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 845.77
 Well bottom elev. (installed; FAMSL) = 796.57
 Installed Well Depth (ft) = 49.20

Notes:

- Elevations referenced to the NAVD 88 Datum.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 845.23 (FAMSL).

Acronyms and Abbreviations:

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 TOC = Top of Casing
 -- = NAPL not present
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 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-16									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	14.81	833.60	49.73	798.68	0.18	--	--	--	Soft bottom, coal-tar-like odor.
04/25/07	14.21	834.20	49.75	798.66	0.16	--	--	--	Bubbles at surface of water, black material on probe.
05/30/07	16.30	832.11	49.85	798.56	0.06	--	--	--	Trace Silt on probe.
06/27/07	17.05	831.36	49.80	798.61	0.11	--	--	--	Mild coal-tar-like odor, black material on probe.
07/24/07	16.95	831.46	49.78	798.63	0.13	--	--	--	Able to penetrate sediment in well 0.1', strong coal-tar-like odor, trace coal-tar-like blebs on probe.
08/28/07	17.32	831.09	49.75	798.66	0.16	--	--	--	Firm bottom.
09/20/07	17.42	830.99	49.62	798.79	0.29	--	--	--	Soft bottom, brown material on probe (from water surface), slight coal-tar-like odor, coal-tar-like material on probe.
10/31/07	16.37	832.04	49.64	798.77	0.27	--	--	--	Firm bottom, brown slime on probe (from water surface), VOCs = 0.8 ppm.
11/20/07	16.09	832.32	49.80	798.61	0.11	--	--	--	Manure-like odor.
12/18/07	15.66	832.75	49.92	798.49	-0.01	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	15.61	832.80	49.78	798.63	0.13	--	--	--	Soft bottom.
02/21/08	14.73	833.68	49.75	798.66	0.16	--	--	--	Soft bottom, manure-like odor.
03/18/08	14.21	834.20	49.75	798.66	0.16	--	--	--	Firm bottom, coal-tar-like odor, trace brown/black sticky coal-tar-like material on probe, bubbles on the water surface, brown slimy material on probe from water surface.
05/12/08	16.17	832.24	49.77	798.64	0.14	--	--	--	Firm bottom.
06/05/08	16.85	831.56	49.70	798.71	0.21	--	--	--	Sheen, foam.
07/08/08	17.26	831.15	49.72	798.69	0.19	--	--	--	Firm bottom.
08/06/08	16.83	831.58	49.75	798.66	0.16	--	--	--	Coal-tar-like odor.
11/19/08	16.73	831.68	49.70	798.71	0.21	--	--	--	
02/06/09	16.61	831.80	49.65	798.76	0.26	--	--	--	
05/29/09	16.13	NR	49.69	NR	NR	--	--	--	Firm bottom, brown foam on the surface of the water.
08/11/09	16.09	832.32	49.69	798.72	0.22	--	--	--	Firm bottom.
11/09/09	16.09	832.32	49.65	798.76	0.26	--	--	--	Firm bottom.
02/23/10	16.62	831.79	49.70	798.71	0.21	--	--	--	0.0 ppm.
05/28/10	16.59	831.82	49.69	798.72	0.22	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	16.52	831.89	49.65	798.76	0.26	--	--	--	Mild coal tar-like odor, 0.0 ppm.
11/23/10	15.92	832.49	49.61	798.80	0.30	--	--	--	Firm bottom.
02/28/11	16.04	832.37	49.35	799.06	0.56	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	14.61	833.80	49.61	798.80	0.30	--	--	--	Firm bottom, 0.0 ppm.
08/26/11	16.72	831.69	49.64	798.77	0.27	--	--	--	Firm bottom, 0.0 ppm.
02/15/12	16.36	832.05	49.62	798.79	0.29	--	--	--	Firm bottom, 0.0 ppm.
06/15/12	16.54	831.87	49.62	798.79	0.29	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	16.58	831.83	49.65	798.76	0.26	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	16.90	831.51	49.69	798.72	0.22	--	--	--	Soft bottom.
05/16/14	15.98	832.43	49.68	798.73	0.23	--	--	--	Firm bottom.
12/01/14	16.83	831.58	49.60	798.81	0.31	--	--	--	Firm bottom.
12/17/15	17.03	831.38	49.60	798.81	0.31	--	--	--	Firm bottom.
12/27/16	16.38	832.03	49.58	798.83	0.33	--	--	--	Firm bottom.
12/21/17	17.08	831.33	49.63	798.78	0.28	--	--	--	Firm bottom.
11/23/20	17.13	831.28	49.59	798.82	0.32	--	--	--	
11/02/21 ⁴	15.00	833.38	49.62	798.76	0.29	--	--	--	
11/03/22	17.10	831.28	49.89	798.49	0.02	--	--	--	0.9 ppm.

Top of Casing (FAMSL) = 848.38
 Well bottom elev. (installed; FAMSL) = 798.47
 Installed Well Depth (ft) = 49.91

Notes:

1. Elevations referenced to the NAVD 88 Datum.
2. Used weighted measuring tape for depth to bottom starting on 7/24/07.
3. Well bottom elevations are approximate.
4. Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 848.41 (FAMSL).

Acronyms and Abbreviations:

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Table 1
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2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-17									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	14.80	833.54	24.34	824.00	0.16	--	--	--	Soft bottom.
04/25/07	14.17	834.17	24.35	823.99	0.15	--	--	--	Bubbles at surface of water, black material on probe.
05/30/07	16.28	832.06	24.34	824.00	0.16	--	--	--	Trace Silt on probe.
06/27/07	17.02	831.32	24.78	823.56	-0.28	--	--	--	Black material on probe.
07/24/07	16.92	831.42	24.70	823.64	-0.20	--	--	--	Able to penetrate sediment in well 0.5', black material on probe, trace coal-tar-like blebs on probe.
08/28/07	17.27	831.07	24.32	824.02	0.18	--	--	--	Firm bottom.
09/20/07	17.38	830.96	24.42	823.92	0.08	--	--	--	Firm bottom, brown material on probe (from water surface).
10/31/07	16.34	832.00	24.33	824.01	0.17	--	--	--	Firm bottom, mild coal-tar-like odor, VOCs = 0.9 ppm.
11/20/07	16.09	832.25	24.39	823.95	0.11	--	--	--	Mild coal-tar-like odor.
12/18/07	15.65	832.69	24.53	823.81	-0.03	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	15.59	832.75	24.37	823.97	0.13	--	--	--	Soft bottom.
02/21/08	14.72	833.62	24.45	823.89	0.05	--	--	--	Firm bottom.
03/18/08	14.19	834.15	24.49	823.85	0.01	--	--	--	Firm bottom, mild coal-tar-like odor, trace brown/black sticky coal-tar-like material on probe, bubbles on the water surface.
05/12/08	16.11	832.23	24.53	823.81	-0.03	--	--	--	Firm bottom.
06/05/08	16.83	831.51	24.70	823.64	-0.20	--	--	--	Slightly soft.
07/08/08	17.21	831.13	24.65	823.69	-0.15	--	--	--	Firm bottom, trace streaks of yellow coal-tar-like material on probe, coal-tar-like odor.
08/06/08	16.82	831.52	24.35	823.99	0.15	--	--	--	Coal-tar-like odor.
11/19/08	16.73	831.61	24.65	823.69	-0.15	--	--	--	
02/06/09	16.59	831.75	24.41	823.93	0.09	--	--	--	
05/29/09	16.09	832.25	24.54	823.80	-0.04	--	--	--	Hard bottom, riser leaning toward the south.
08/11/09	16.06	832.28	24.61	823.73	-0.11	--	--	--	Firm bottom, slight odor.
11/09/09	16.09	832.25	24.69	823.65	-0.19	--	--	--	Firm bottom.
02/23/10	16.60	831.74	24.65	823.69	-0.15	--	--	--	0.0 ppm.
05/28/10	16.56	831.78	24.40	823.94	0.10	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	16.50	831.84	24.50	823.84	0.00	--	--	--	0.0 ppm.
11/23/10	15.91	832.43	24.33	824.01	0.17	--	--	--	Firm bottom.
02/28/11	16.05	832.29	24.28	824.06	0.22	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	14.57	833.77	24.43	823.91	0.07	--	--	--	Firm bottom, 0.0 ppm.
08/26/11	16.71	831.63	24.46	823.88	0.04	--	--	--	Firm bottom, 0.0 ppm.
02/15/12	16.34	832.00	24.46	823.88	0.04	--	--	--	Firm bottom, 0.0 ppm.
06/15/12	18.10	830.24	24.46	823.88	0.04	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	16.54	831.80	24.40	823.94	0.10	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	16.87	831.47	24.52	823.82	-0.02	--	--	--	Soft bottom.
05/16/14	15.97	832.37	24.52	823.82	-0.02	--	--	--	Firm bottom.
12/01/14	16.81	831.53	24.55	823.79	-0.05	--	--	--	Firm bottom.
12/17/15	16.99	831.35	24.35	823.99	0.15	--	--	--	Firm bottom.
12/27/16	16.31	832.03	24.43	823.91	0.07	--	--	--	Firm bottom.
12/21/17	17.45	830.89	24.45	823.89	0.05	--	--	--	Firm bottom.
11/23/20	17.50	830.84	24.95	823.39	-0.45	--	--	--	Soft bottom.
11/2/2021 ⁵	14.95	833.39	24.50	823.84	0.00	--	--	--	
11/03/22	17.04	831.30	24.35	823.99	0.15	--	--	--	0.2 ppm.

Top of Casing (FAMSL) = 848.34
 Well bottom elev. (installed; FAMSL) = 823.84
 Installed Well Depth (ft) = 24.50

Notes:

- Elevations referenced to the NAVD 88 Datum.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Installed well depth is an average of measured depths to bottom for measurements taken from 1/18/07-7/08/08.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 848.34 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-18									
Date	Depth to Water (ft bTOC) ¹	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	12.23	833.59	42.08	803.74	-0.10	--	--	--	Soft bottom.
04/25/07	11.62	834.20	42.05	803.77	-0.07	--	--	--	Coal-tar-like odor.
05/30/07	13.71	832.11	42.15	803.67	-0.17	--	--	--	
06/27/07	14.44	831.38	42.05	803.77	-0.07	--	--	--	Mild coal-tar-like odor, black material on probe.
07/24/07	14.36	831.46	42.00	803.82	-0.02	--	--	--	Able to penetrate sediment in well 0.1', reddish material on probe.
08/28/07	14.71	831.11	42.00	803.82	-0.02	--	--	--	Firm bottom, mild manure-like odor.
09/20/07	14.84	830.98	41.90	803.92	0.08	--	--	--	Firm bottom, brown material on probe (from water surface).
10/31/07	13.81	832.01	41.78	804.04	0.20	--	--	--	Firm bottom, coal-tar-like odor, VOCs = 0.4 ppm.
11/20/07	13.53	832.29	41.98	803.84	0.00	--	--	--	Strong coal-tar-like odor.
12/18/07	13.11	832.71	42.25	803.57	-0.27	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	NR	NR	NR	NR	NR	--	--	--	Could not open vault lid.
02/21/08	12.17	833.65	41.98	803.84	0.00	--	--	--	Soft bottom.
03/18/08	11.62	834.20	41.93	803.89	0.05	--	--	--	Soft bottom, coal-tar-like odor, trace brown/black sticky coal-tar-like material on probe, bubbles on the water surface, brown slimy material on probe from water surface.
05/12/08	13.57	832.25	41.97	803.85	0.01	--	--	--	Soft bottom, coal-tar-like odor.
06/05/08	14.27	831.55	42.04	803.78	-0.06	--	--	--	Slightly soft.
07/08/08	14.71	831.11	42.07	803.75	-0.09	--	--	--	Firm bottom, coal-tar-like odor.
08/06/08	14.24	831.58	41.95	803.87	0.03	--	--	--	Coal-tar-like odor.
11/19/08	14.19	831.63	41.97	803.85	0.01	--	--	--	
02/06/09	14.01	831.81	41.95	803.87	0.03	--	--	--	
05/29/09	13.55	832.27	42.00	803.82	-0.02	--	--	--	Firm bottom.
08/11/09	13.54	832.28	42.00	803.82	-0.02	--	--	--	Soft bottom, odor.
11/09/09	13.56	832.26	41.97	803.85	0.01	--	--	--	Firm bottom.
02/23/10	14.04	831.78	42.00	803.82	-0.02	--	--	--	0.0 ppm.
05/28/10	14.02	831.80	41.91	803.91	0.07	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	13.95	831.87	41.90	803.92	0.08	--	--	--	0.0 ppm.
11/23/10	13.36	832.46	41.91	803.91	0.07	--	--	--	Firm bottom.
02/28/11	13.53	832.29	42.00	803.82	-0.02	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	12.02	833.80	41.88	803.94	0.10	--	--	--	Soft bottom, 0.0 ppm.
08/26/11	14.11	831.71	41.89	803.93	0.09	--	--	--	Firm bottom, 0.0 ppm.
02/15/12	13.80	832.02	41.89	803.93	0.09	--	--	--	Soft bottom, 0.0 ppm.
06/15/12	14.40	831.42	41.89	803.93	0.09	--	--	--	Soft bottom, 0.0 ppm.
11/19/12	14.00	831.82	41.92	803.90	0.06	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	14.32	831.50	42.04	803.78	-0.06	--	--	--	Soft bottom.
05/16/14	13.42	832.40	41.99	803.83	-0.01	--	--	--	Firm bottom.
12/01/14	14.28	831.54	41.97	803.85	0.01	--	--	--	Firm bottom.
12/17/15	14.47	831.35	41.81	804.01	0.17	--	--	--	Firm bottom.
12/27/16	13.78	832.04	41.80	804.02	0.18	--	--	--	Firm bottom.
12/21/17	14.50	831.32	41.81	804.01	0.17	--	--	--	Firm bottom.
11/23/20	14.50	831.32	41.81	804.01	0.17	--	--	--	Hard bottom.
11/02/21 ⁴	12.48	833.37	41.95	803.90	0.03	--	--	--	
11/03/22	14.51	831.34	41.90	803.95	0.08	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 845.85
 Well bottom elev. (installed; FAMSL) = 803.87
 Installed Well Depth (ft) = 41.98

Notes:

1. Elevations referenced to the NAVD 88 Datum.
2. Used weighted measuring tape for depth to bottom starting on 7/24/07.
3. Well bottom elevations are approximate.
4. Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 845.82 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-19									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	12.25	833.56	19.08	826.73	0.03	--	--	--	Soft bottom.
04/25/07	11.63	834.18	16.16	829.65	2.95	--	--	--	Mild coal-tar-like odor. Depth to bottom measurement questionable.
05/30/07	13.72	832.09	19.15	826.66	-0.04	--	--	--	Hard bottom, trace sediment on probe.
06/27/07	14.46	831.35	19.18	826.63	-0.07	--	--	--	Firm bottom, mild coal-tar-like odor, black material on probe.
07/24/07	14.37	831.44	19.17	826.64	-0.06	--	--	--	Black material on probe, organic-like odor, trace coal-tar-like blebs on probe.
08/28/07	14.72	831.09	19.22	826.59	-0.11	--	--	--	Firm bottom, manure-like odor.
09/20/07	14.85	830.96	19.17	826.64	-0.06	--	--	--	Firm bottom, brown material on probe (from water surface), coal-tar-like odor, coal-tar-like material on probe.
10/31/07	13.83	831.98	19.16	826.65	-0.05	--	--	--	Firm bottom, mild coal-tar-like odor, VOCs = 0.9 ppm.
11/20/07	13.58	832.23	19.11	826.70	0.00	--	--	--	Strong coal-tar-like odor.
12/18/07	13.13	832.68	19.30	826.51	-0.19	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	NR	NR	NR	NR	NR	--	--	--	Could not open vault lid.
02/21/08	12.20	833.61	19.17	826.64	-0.06	--	--	--	Firm bottom, coal-tar-like odor.
03/18/08	11.63	834.18	19.25	826.56	-0.14	--	--	--	Firm bottom, bubbles on the water surface.
05/12/08	13.59	832.22	19.21	826.60	-0.10	--	--	--	Firm bottom.
06/05/08	14.30	831.51	19.23	826.58	-0.12	--	--	--	Slightly soft.
07/08/08	14.72	831.09	19.22	826.59	-0.11	--	--	--	Firm bottom, coal-tar-like odor.
08/06/08	14.26	831.55	19.17	826.64	-0.06	--	--	--	Coal-tar-like odor.
11/19/08	14.21	831.60	19.10	826.71	0.01	--	--	--	
02/06/09	14.03	831.78	19.24	826.57	-0.13	--	--	--	
05/29/09	13.87	831.94	19.20	826.61	-0.09	--	--	--	Hard bottom.
08/11/09	13.56	832.25	19.19	826.62	-0.08	--	--	--	Firm bottom, odor.
11/09/09	13.57	832.24	19.15	826.66	-0.04	--	--	--	Firm bottom.
02/23/10	14.06	831.75	19.15	826.66	-0.04	--	--	--	0.0 ppm.
05/28/10	14.02	831.79	19.21	826.60	-0.10	--	--	--	Soft bottom, 0.0 ppm.
08/30/10	13.99	831.82	19.50	826.31	-0.39	--	--	--	0.0 ppm.
11/23/10	13.41	832.40	19.28	826.53	-0.17	--	--	--	Firm bottom.
02/28/11	13.57	832.24	19.20	826.61	-0.09	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	12.01	833.80	19.22	826.59	-0.11	--	--	--	Firm bottom, 0.0 ppm.
08/26/11	14.14	831.67	19.16	826.65	-0.05	--	--	--	Firm bottom, 0.0 ppm.
02/15/12	13.82	831.99	19.16	826.65	-0.05	--	--	--	Firm bottom, 0.0 ppm.
06/15/12	13.86	831.95	19.16	826.65	-0.05	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	14.05	831.76	19.15	826.66	-0.04	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	14.35	831.46	19.22	826.59	-0.11	--	--	--	Firm bottom.
05/16/14	13.45	832.36	19.18	826.63	-0.07	--	--	--	Firm bottom.
12/01/14	14.03	831.78	19.21	826.60	-0.10	--	--	--	Firm bottom.
12/17/15	14.47	831.34	19.11	826.70	0.00	--	--	--	Firm bottom.
12/27/16	13.77	832.04	19.20	826.61	-0.09	--	--	--	Firm bottom.
12/21/17	14.35	831.46	19.18	826.63	-0.07	--	--	--	Firm bottom.
11/23/20	14.55	831.26	19.20	826.61	-0.09	--	--	--	Hard bottom.
11/02/21 ⁴	12.45	833.42	19.21	826.66	-0.10	--	--	--	
11/03/22	14.48	831.39	19.09	826.78	0.02	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 845.87
 Well bottom elev. (installed; FAMSL) = 826.76
 Installed Well Depth (ft) = 19.11

Notes:

- Elevations referenced to the NAVD 88 Datum.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 845.81 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
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Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-20									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	7.59	834.37	13.80	828.16	1.65	--	--	--	Soft bottom.
04/25/07	6.88	835.08	13.90	828.06	1.55	--	--	--	Silty bottom.
05/30/07	9.72	832.24	13.44	828.52	2.01	--	--	--	Soft bottom, entire probe covered with gray Silt, coal-tar-like odor.
06/27/07	10.50	831.46	13.68	828.28	1.77	--	--	--	Very Silty bottom, entire probe (6") covered in Silt.
07/24/07	10.18	831.78	15.33	826.63	0.12	--	--	--	Able to penetrate sediment in well 0.3', organic-like odor, soft bottom.
08/28/07	10.74	831.22	13.50	828.46	1.95	--	--	--	Approximately 4" of Silt on end of probe. Curb box settled, j-plug rim cracked.
09/20/07	10.98	830.98	13.58	828.38	1.87	--	--	--	Able to penetrate sediment in well 0.4', sediment on probe, coal- tar-like odor, coal-tar-like material on probe.
10/31/07	9.38	832.58	13.64	828.32	1.81	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor, VOCs = 0.0 ppm.
11/20/07	8.61	833.35	13.48	828.48	1.97	--	--	--	Coal-tar-like odor.
12/18/07	7.80	834.16	13.62	828.34	1.83	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	8.41	833.55	12.44	829.52	3.01	--	--	--	Soft bottom.
02/21/08	7.20	834.76	14.27	827.69	1.18	--	--	--	Soft bottom, coal-tar-like odor.
03/18/08	7.19	834.77	13.53	828.43	1.92	--	--	--	Mild coal-tar-like odor, trace sheen on sediment on probe. J-plug rim cracked due to curb box settling.
05/12/08	9.94	832.02	13.57	828.39	1.88	--	--	--	Sediment on probe, faint coal-tar-like odor.
06/05/08	10.62	831.34	15.40	826.56	0.05	--	--	--	Little gray sediment on probe.
07/08/08	10.96	831.00	13.85	828.11	1.60	--	--	--	Soft bottom, coal-tar-like odor.
08/06/08	10.47	831.49	13.85	828.11	1.60	--	--	--	Soft bottom, coal-tar-like odor.
11/19/08	9.91	832.05	15.39	826.57	0.06	--	--	--	Soft bottom, approximately 1.5' of sediment on probe, coal tar-like odor.
02/06/09	10.31	831.65	14.28	827.68	1.17	--	--	--	Soft bottom.
05/29/09	9.31	832.65	13.50	828.46	1.95	--	--	--	Soft bottom.
08/11/09	8.72	833.24	15.40	826.56	0.05	--	--	--	Very soft bottom, slight odor, 1.6' of sediment on probe.
11/09/09	9.28	832.68	14.75	827.21	0.70	--	--	--	Very soft bottom, 1' of gray sediment on probe.
02/23/10	10.12	831.84	15.57	826.39	-0.12	--	--	--	0.0 ppm.
05/28/10	10.26	831.70	14.83	827.13	0.62	--	--	--	Soft bottom, gray sediment on probe, 0.0 ppm.
08/30/10	9.89	832.07	13.95	828.01	1.50	--	--	--	Dark gray sediment on probe, soft bottom, 0.0 ppm.
11/23/10	9.31	832.65	14.62	827.34	0.83	--	--	--	Soft bottom.
02/28/11	8.99	832.97	13.98	827.98	1.47	--	--	--	Soft bottom, sediment on probe, 0.0 ppm.
06/02/11	7.36	834.60	13.70	828.26	1.75	--	--	--	Soft bottom, 0.0 ppm, sediment on probe.
08/26/11	10.07	831.89	13.48	828.48	1.97	--	--	--	Soft bottom, 0.0 ppm.
02/15/12	10.01	831.95	13.36	828.60	2.09	--	--	--	Soft bottom, 0.0 ppm.
06/15/12	10.10	831.86	15.40	826.56	0.05	--	--	--	Soft bottom, 0.0 ppm.
11/19/12	10.09	831.87	14.98	826.98	0.47	--	--	--	Soft bottom, 0.0 ppm.
11/26/13	10.22	831.74	15.10	826.86	0.35	--	--	--	Soft bottom.
05/16/14	9.33	832.63	13.18	828.78	2.27	--	--	--	Soft bottom.
12/01/14	9.59	832.37	13.94	828.02	1.51	--	--	--	Soft bottom.
12/17/15	10.16	831.80	13.09	828.87	2.36	--	--	--	Soft bottom.
12/27/16	9.41	832.55	14.85	827.11	0.60	--	--	--	Soft bottom.
12/21/17	10.40	831.56	15.15	826.81	0.30	--	--	--	Soft bottom, sediment on bottom of probe.
11/23/20	10.10	831.86	15.14	826.82	0.31	--	--	--	Soft bottom, ~ 2' sediment
11/02/21 ⁴	7.52	834.24	15.17	826.59	0.28	--	--	--	Approximately 1.5 feet of sediment in well
11/03/22	10.63	831.13	13.03	828.73	2.42	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 841.76
 Well bottom elev. (installed; FAMSL) = 826.31
 Installed Well Depth (ft) = 15.45

Notes:

- Elevations referenced to the NAVD 88 Datum.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 841.96 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
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Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-21									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	8.13	833.89	13.25	828.77	2.75	--	--	--	Soft bottom.
04/25/07	7.54	834.48	15.30	826.72	0.70	--	--	--	Very Silty.
05/30/07	9.80	832.22	14.38	827.64	1.62	--	--	--	Soft bottom, coal-tar-like odor.
06/27/07	10.46	831.56	14.03	827.99	1.97	--	--	--	Silt on the last 3" of the probe.
07/24/07	10.00	832.02	14.79	827.23	1.21	--	--	--	Soft bottom, sediment on probe, trace sheen on probe, faint coal-tar-like odor.
08/28/07	10.95	831.07	14.20	827.82	1.80	--	--	--	Soft bottom, approximately 3" of Silt on end of probe, manure-like odor. Curb box settled, lid will not close completely.
09/20/07	10.98	831.04	14.11	827.91	1.89	--	--	--	Silt on the last 3" of the probe.
10/31/07	9.47	832.55	14.14	827.88	1.86	--	--	--	Able to penetrate sediment in well 0.2', mild coal-tar-like odor, VOCs = 0.0 ppm.
11/20/07	9.09	832.93	14.11	827.91	1.89	--	--	--	Coal-tar-like odor, sediment on probe.
12/18/07	9.17	832.85	13.95	828.07	2.05	--	--	--	Able to penetrate sediment in well 0.2', sediment on probe, coal-tar-like odor.
01/31/08	9.41	832.61	13.97	828.05	2.03	--	--	--	Soft bottom.
02/21/08	8.15	833.87	14.37	827.65	1.63	--	--	--	Soft bottom, mild coal-tar-like odor.
03/18/08	8.04	833.98	14.28	827.74	1.72	--	--	--	Soft bottom.
05/12/08	9.97	832.05	13.86	828.16	2.14	--	--	--	Soft bottom, sediment on probe.
06/05/08 ⁴	10.85	831.17	16.09	825.93	-0.09	--	--	--	Well redeveloped on June 5th 2008.
07/08/08	11.13	830.89	16.09	825.93	-0.09	--	--	--	Firm bottom, sediment on probe.
08/06/08	10.66	831.36	15.85	826.17	0.15	--	--	--	
11/19/08	10.07	831.95	15.88	826.14	0.12	--	--	--	Approximately 1" of sediment on probe.
02/06/09	10.51	831.51	15.56	826.46	0.44	--	--	--	
05/29/09	9.14	832.88	15.87	826.15	0.13	--	--	--	Firm bottom, riser leaning to the west.
08/11/09	8.59	833.43	15.85	826.17	0.15	--	--	--	Soft bottom, 3" of gray sediment on probe, slight odor.
11/09/09	9.61	832.41	16.01	826.01	-0.01	--	--	--	Soft bottom.
02/23/10	10.31	831.71	16.07	825.95	-0.07	--	--	--	0.0 ppm.
05/28/10	10.41	831.61	15.75	826.27	0.25	--	--	--	Soft bottom, gray sediment on probe, 0.0 ppm.
08/30/10	10.09	831.93	15.75	826.27	0.25	--	--	--	Gray sediment on probe, coal tar-like odor, 0.0 ppm.
11/23/10	9.43	832.59	NR	NR	NR	--	--	--	Soft sediment.
02/28/11	9.39	832.63	15.72	826.30	0.28	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	9.02	833.00	15.82	826.20	0.18	--	--	--	Soft bottom, 0.0 ppm, sediment on probe.
08/26/11	10.56	831.46	15.83	826.19	0.17	--	--	--	Soft bottom, 0.0 ppm.
02/15/12	10.08	831.94	15.95	826.07	0.05	--	--	--	Soft bottom, 0.0 ppm.
06/15/12	10.24	831.78	15.95	826.07	0.05	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	10.22	831.80	15.85	826.17	0.15	--	--	--	Firm bottom, 0.0 ppm.
11/26/13	10.46	831.56	15.65	826.37	0.35	--	--	--	Firm bottom.
05/16/14	9.54	832.48	15.77	826.25	0.23	--	--	--	Firm bottom.
12/01/14	10.15	831.87	15.71	826.31	0.29	--	--	--	Firm bottom.
12/17/15	10.37	831.65	15.72	826.30	0.28	--	--	--	Firm bottom.
12/27/16	9.64	832.38	15.79	826.23	0.21	--	--	--	Firm bottom.
12/21/17	10.66	831.36	15.81	826.21	0.19	--	--	--	Firm bottom, trace sediment on bottom of probe, faint coal tar-like odor.
11/23/20	10.66	831.36	15.89	826.13	0.11	--	--	--	0.3' sediment
11/02/21 ⁵	8.45	833.54	14.82	827.17	1.18	--	--	--	Approximately 0.3 feet of sediment in well
11/03/22	10.83	831.16	15.75	826.24	0.25	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 841.99
 Well bottom elev. (installed; FAMSL) = 825.99
 Installed Well Depth (ft) = 16.00

Notes:

- Elevations referenced to the NAVD 88 Datum.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Well redeveloped on June 5, 2008.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 842.02 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

BARRIER WALL RECOVERY WELL RW-22									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ¹	Depth to Bottom (ft bTOC) ²	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
01/18/07	8.02	833.95	49.12	792.85	3.08	--	--	--	Soft bottom.
04/25/07	7.45	834.52	47.60	794.37	4.60	--	--	--	
05/30/07	9.83	832.14	47.60	794.37	4.60	--	--	--	Little Silt on probe, slight coal-tar-like odor.
06/27/07	10.75	831.22	47.78	794.19	4.42	--	--	--	
07/24/07	10.28	831.69	48.98	792.99	3.22	--	--	--	Probe appeared to sink through 1' sediment, organic-like odor.
08/28/07	10.92	831.05	47.75	794.22	4.45	--	--	--	Soft bottom, LEL = 9%, O ₂ = 19.3ppm, VOC = 9.4ppm.
09/20/07	10.97	831.00	48.75	793.22	3.45	--	--	--	Able to penetrate sediment in well 0.15'.
10/31/07	9.53	832.44	47.68	794.29	4.52	--	--	--	Able to penetrate sediment in well 0.1', mild coal-tar-like odor, VOCs = 0.9 ppm.
11/20/07	9.19	832.78	47.82	794.15	4.38	--	--	--	Coal-tar-like odor.
12/18/07	9.00	832.97	47.64	794.33	4.56	--	--	--	Able to penetrate sediment in well 0.1', coal-tar-like odor.
01/31/08	9.22	832.75	47.65	794.32	4.55	--	--	--	Soft bottom.
02/21/08	8.71	833.26	48.88	793.09	3.32	--	--	--	Soft bottom, manure-like odor.
03/18/08	7.91	834.06	47.75	794.22	4.45	--	--	--	Soft bottom, coal-tar-like odor, black sediment on probe. Curb box has settled
05/12/08	9.99	831.98	48.01	793.96	4.19	--	--	--	Soft bottom, coal-tar-like odor.
06/05/08 ⁴	10.82	831.15	52.22	789.75	-0.02	--	--	--	Well redeveloped on June 5th 2008.
07/08/08	11.03	830.94	51.87	790.10	0.33	--	--	--	Firm bottom, mild coal-tar-like odor.
08/06/08	10.54	831.43	51.80	790.17	0.40	--	--	--	Coal-tar-like odor.
11/19/08	10.02	831.95	52.19	789.78	0.01	--	--	--	
02/06/09	10.45	831.52	51.49	790.48	0.71	--	--	--	
05/29/09	9.10	832.87	51.90	790.07	0.30	--	--	--	Firm bottom, riser leaning toward the east.
08/11/09	8.64	833.33	51.59	790.38	0.61	--	--	--	Soft bottom, slight odor.
11/09/09	9.52	832.45	51.91	790.06	0.29	--	--	--	Firm bottom.
02/23/10	10.18	831.79	51.75	790.22	0.45	--	--	--	0.0 ppm.
05/28/10	10.31	831.66	51.74	790.23	0.46	--	--	--	Soft bottom, gray sediment on probe, 0.0 ppm.
08/30/10	10.04	831.93	51.70	790.27	0.50	--	--	--	Soft bottom, dark gray sediment on probe, coal tar-like odor, 0.0 ppm.
11/23/10	9.32	832.65	51.92	790.05	0.28	--	--	--	Soft bottom.
02/28/11	9.27	832.70	51.75	790.22	0.45	--	--	--	Soft bottom, 0.0 ppm.
06/02/11	8.76	833.21	51.72	790.25	0.48	--	--	--	Soft bottom, 0.0 ppm.
08/26/11	10.42	831.55	51.68	790.29	0.52	--	--	--	Soft bottom, 0.0 ppm.
02/15/12	9.97	832.00	51.70	790.27	0.50	--	--	--	Firm bottom, 0.0 ppm.
06/15/12	10.09	831.88	51.70	790.27	0.50	--	--	--	Firm bottom, 0.0 ppm.
11/19/12	10.10	831.87	51.70	790.27	0.50	--	--	--	Soft bottom, 0.0 ppm.
11/26/13	10.37	831.60	51.31	790.66	0.89	--	--	--	Soft bottom.
05/16/14	9.45	832.52	51.39	790.58	0.81	--	--	--	Soft bottom.
12/01/14	10.05	831.92	51.30	790.67	0.90	--	--	--	Soft bottom.
12/17/15	10.28	831.69	51.45	790.52	0.75	--	--	--	Soft bottom.
12/27/16	9.60	832.37	51.68	790.29	0.52	--	--	--	Soft bottom.
12/21/17	10.50	831.47	51.94	790.03	0.26	--	--	--	Firm bottom, 1.0' of sediment on bottom of probe.
11/23/20	10.61	831.36	51.68	790.29	0.52	--	--	--	Soft bottom.
11/2/2021 ⁵	8.43	833.54	51.73	790.24	0.47	--	--	--	
11/03/22	10.78	831.19	51.81	790.16	0.39	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 841.97
 Well bottom elev. (installed; FAMSL) = 789.77
 Installed Well Depth (ft) = 52.20

Notes:

- Elevations referenced to the NAVD 88 Datum.
- Used weighted measuring tape for depth to bottom starting on 7/24/07.
- Well bottom elevations are approximate.
- Well redeveloped on June 5, 2008.
- Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevation = 842.31 (FAMSL).

Acronyms and Abbreviations:

FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 1
NAPL Recovery Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

NAPL RECOVERY WELLS									
Date	Depth to Water (ft bTOC)	GW Elevation (FAMSL) ²	Depth to Bottom (ft bTOC)	Well Bottom Elevation (FAMSL) ³	Sediment Thickness (ft)	LNAPL/DNAPL			Comments/Observations
						Depth to LNAPL (ft bTOC)	Thickness of Layer (ft)	Volume Purged (liters)	
NMW-1¹									
11/23/20	18.80	830.30	41.02	808.08	2.43	--	--	--	
11/02/21 ⁴	16.52	833.42	41.06	808.88	2.39	--	--	--	Soft; needs 2-inch ferroc cap
11/03/22	18.63	831.31	40.65	809.29	2.80	--	--	--	Soft bottom, 0.0 ppm.
Top of Casing (FAMSL) = 849.94 Well bottom elev. (installed; FAMSL) = 806.49 Installed Well Depth (ft) = 43.45									
NMW-2									
11/24/04	14.47	831.72	42.66	803.53	0.84	--	--	--	
08/09/07	15.10	831.09	42.78	803.41	0.72	--	--	--	
03/18/08	12.26	833.93	42.75	803.44	0.75	--	--	--	
11/19/08	14.59	831.60	42.95	803.24	0.55	--	--	--	
05/29/09	13.94	832.25	43.02	803.17	0.48	--	--	--	
11/09/09	14.17	832.02	42.80	803.39	0.70	--	--	--	
05/28/10	15.64	830.55	42.70	803.49	0.80	--	--	--	
11/23/10	13.85	832.34	42.76	803.43	0.74	--	--	--	
06/02/11	12.82	833.37	42.72	803.47	0.78	--	--	--	
02/15/12	14.34	831.85	42.64	803.55	0.86	--	--	--	
06/15/12	14.52	831.67	42.76	803.43	0.74	--	--	--	
11/20/12	14.54	831.65	42.91	803.28	0.59	--	--	--	
05/31/13	13.02	833.17	42.65	803.54	0.85	--	--	--	
11/26/13	14.78	831.41	42.78	803.41	0.72	--	--	--	
12/02/14	13.49	832.70	42.71	803.48	0.79	--	--	--	
12/17/15	14.79	831.40	43.33	802.86	0.17	--	--	--	
12/27/16	14.13	832.06	43.35	802.84	0.15	--	--	--	
12/21/17	6.32	839.87	43.36	802.83	0.14	--	--	--	
11/23/20	15.04	831.15	43.38	802.81	0.12	--	--	--	Hard bottom
11/02/21 ⁴	13.90	832.22	43.34	802.78	0.16	--	--	--	
11/03/22	15.02	831.10	43.28	802.84	0.22	--	--	--	0.0 ppm.

Top of Casing (FAMSL) = 846.12
 Well bottom elev. (installed; FAMSL) = 802.62
 Installed Well Depth (ft) = 43.50

- Notes:**
1. Not included as part of the monitoring well network.
 2. Elevations referenced to the NAVD 88 Datum.
 3. Well bottom elevations are approximate.
 4. Monitoring well TOC elevations resurveyed on 11/12/2021 following well repairs, prior TOC elevations: NMW-1 = 849.10 (FAMSL), NMW-2 = 846.19 (FAMSL).

Acronyms and Abbreviations:
 FAMSL = Feet Above Mean Sea Level
 TOC = Top of Casing
 -- = NAPL not present
 NR = not recorded
 NM = not measured

Table 2
Upgradient, Side-Gradient, and Sentinel Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York



Well ID	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL) ²	11/24/2004					1/28/2005					8/9/2007				
			DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft-TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft-TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft-TIC)	NAPL Thickness (ft)
Upgradient and Side-Gradient Wells																	
PZ93-1	844.70	848.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-06D	844.20	846.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-05D	844.90	847.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14D	845.90	845.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14S	845.90	845.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17D	861.50	861.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17S	861.70	861.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sentinel Wells																	
MW97-07S	849.33	849.36	17.43	24.86	831.93	--	--	15.80	24.65	833.56	--	--	18.09	24.83	831.27	--	--
MW-01-07-R	849.00	848.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01-03-R	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ01-02	841.86	841.46	10.03	20.58	831.43	10.00	0.03	8.31	20.6	833.15	8.28	0.03	10.57	17.40	830.89	--	--
PZ03-01D	848.10	847.49	15.78	46.72	831.71	--	--	14.17	46.5	833.32	--	--	16.39	46.70	831.10	--	--
PZ03-02A	846.20	845.96	14.08	15.35	831.88	--	--	12.25	15.1	833.71	--	--	Dry	14.67	--	--	--
PZ03-02D	846.20	845.97	14.28	54.72	831.69	--	--	12.35	54.5	833.62	--	--	14.82	54.13	831.15	--	--
PZ03-03A	843.86	843.50	10.71	10.96	832.79	--	--	10.15	10.9	833.35	--	--	8.68	8.68	834.82	--	--
PZ03-03B	843.86	843.53	11.78	22.2	831.75	--	--	10.1	22.1	833.43	--	--	12.51	21.90	831.02	--	--
PZ03-03D	843.86	843.59	11.89	49.41	831.70	--	--	NA	NA	--	--	--	12.56	48.10	831.03	--	--
PZ03-04A	843.14	842.76	10.33	14.60	832.43	--	--	9.25	14.60	833.51	--	--	10.97	14.60	831.79	--	--
PZ03-04B	843.14	842.68	10.96	22.06	831.72	--	--	9.52	22.06	833.16	--	--	11.70	21.19	830.98	--	--
PZ03-04D	843.14	842.75	11.07	41.62	831.68	--	--	9.46	41.60	833.29	--	--	11.75	41.50	831.00	--	--
PZ03-05A	842.68	842.37	10.64	12.38	831.73	--	--	9.23	12.35	833.14	--	--	6.20	6.20	836.17	--	--
PZ03-05B	842.63	842.32	10.66	15.92	831.66	--	--	9.33	15.95	832.99	--	--	11.42	15.76	830.90	--	--
PZ03-05C	842.68	842.40	10.75	27.59	831.65	--	--	9.15	27.60	833.25	--	--	11.48	24.67	830.92	--	--
PZ03-05D	842.68	842.37	10.61	44.80	831.76	--	--	9.93	44.80	832.44	--	--	9.85	33.74	832.52	--	--
PZ03-06A	842.15	841.80	9.70	11.51	832.10	--	--	8.27	11.50	833.53	--	--	10.30	11.50	831.50	--	--
PZ03-06B	842.15	841.75	10.31	18.05	831.44	10.30	0.01	8.75	18.00	833.00	8.53	0.22	10.85	17.81	830.90	10.76	0.09
PZ03-06C	842.07	841.72	10.25	32.68	831.47	--	--	6.07	32.65	835.65	--	--	11.00	31.90	830.72	--	--
PZ03-06D	842.07	841.66	5.90	51.00	835.76	--	--	8.55	51.00	833.11	--	--	7.01	50.98	834.65	--	--
PZ03-07A	841.50	841.17	8.85	10.50	832.32	--	--	7.50	10.50	833.67	--	--	8.61	10.35	832.56	--	--
PZ03-07B	841.50	841.08	9.31	16.67	831.77	--	--	7.68	16.70	833.40	--	--	10.00	16.26	831.08	--	--
PZ03-07C	841.43	841.00	9.46	32.85	831.54	--	--	7.80	32.85	833.20	--	--	10.10	31.20	830.90	--	--
PZ03-07D	841.43	841.07	9.50	52.90	831.57	--	--	7.80	52.90	833.27	--	--	10.23	52.76	830.84	--	--
PZ03-08A	841.28	840.87	9.89	11.45	830.98	--	--	7.10	11.45	833.77	--	--	9.28	10.97	831.59	--	--
PZ03-08B	841.28	840.87	9.08	18.68	831.79	--	--	7.45	18.65	833.42	--	--	9.75	17.35	831.12	--	--
PZ03-08C	841.28	840.91	9.15	30.65	831.76	--	--	7.50	30.65	833.41	--	--	9.84	30.27	831.07	--	--
PZ03-08D	841.28	840.87	9.12	54.68	831.75	--	--	7.50	54.70	833.37	--	--	9.81	55.22	831.06	--	--
PZ03-09A	851.19	850.95	19.47	47.17	831.48	--	--	18.00	21.50	832.95	--	--	NA	NA	--	--	--
PZ03-09D	851.19	850.78	19.12	47.17	831.66	--	--	17.54	47.00	833.24	--	--	NA	NA	--	--	--
Surface Water Elevation																	
MP-1 (Tompkins St. Bridge)	--	858.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

See Notes on Page 9.

Table 2
Upgradient, Side-Gradient, and Sentinel Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York



Well ID	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL) ²	3/18/2008					11/19/2008					5/29/2009				
			DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)
Upgradient and Side-Gradient Wells																	
PZ93-1	844.70	848.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-06D	844.20	846.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-05D	844.90	847.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14D	845.90	845.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14S	845.90	845.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17D	861.50	861.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17S	861.70	861.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sentinel Wells																	
MW97-07S	849.33	849.36	15.21	24.81	834.15	--	--	17.32	24.90	832.04	--	--	16.65	24.92	832.71	--	--
MW-01-07-R	849.00	848.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01-03-R	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ01-02	841.86	841.46	7.68	17.25	833.78	7.57	0.11	9.7	17.30	831.76	9.61	0.09	9.49	17.29	831.97	8.71	0.78
PZ03-01D	848.10	847.49	13.55	46.76	833.94	--	--	15.88	46.76	831.61	--	--	15.23	46.69	832.26	--	--
PZ03-02A	846.20	845.96	11.78	14.70	834.18	--	--	13.02	14.80	832.94	--	--	11.93	14.80	834.03	--	--
PZ03-02D	846.20	845.97	12	54.10	833.97	--	--	13.09	54.17	832.88	--	--	13.6	54.18	832.37	--	--
PZ03-03A	843.86	843.50	8.67	8.67	834.83	--	--	8.73	8.73	834.77	--	--	8.7	8.70	834.80	--	--
PZ03-03B	843.86	843.53	9.65	21.21	833.88	--	--	11.81	21.91	831.72	--	--	11.02	20.92	832.51	--	--
PZ03-03D	843.86	843.59	9.69	48.05	833.90	--	--	11.86	48.04	831.73	--	--	11.08	48.03	832.51	--	--
PZ03-04A	843.14	842.76	8.12	14.38	834.64	--	--	10.81	14.43	831.95	--	--	10.06	14.46	832.70	--	--
PZ03-04B	843.14	842.68	8.82	21.21	833.86	--	--	11.12	21.22	831.56	--	--	10.72	21.21	831.96	--	--
PZ03-04D	843.14	842.75	8.91	41.18	833.84	--	--	10.97	41.24	831.78	--	--	10.12	41.30	832.63	--	--
PZ03-05A	842.68	842.37	Dry	6.20	--	--	--	6.18	6.18	836.19	--	--	6.20	6.20	836.17	--	--
PZ03-05B	842.63	842.32	8.11	15.70	834.21	--	--	8.69	15.75	833.63	--	--	10.12	15.71	832.20	--	--
PZ03-05C	842.68	842.40	7.78	24.70	834.62	--	--	10.75	24.69	831.65	--	--	10.00	24.72	832.40	--	--
PZ03-05D	842.68	842.37	5.89	33.75	836.48	--	--	11.11	33.75	831.26	--	--	9.61	33.79	832.76	--	--
PZ03-06A	842.15	841.80	6.92	11.46	834.88	--	--	10.08	11.52	831.72	10.01	0.07	9.32	11.50	832.48	--	--
PZ03-06B	842.15	841.75	8.40	17.25	833.35	8.26	0.14	10.91	16.88	830.84	10.78	0.13	9.81	16.90	831.94	8.19	1.62
PZ03-06C	842.07	841.72	8.14	31.75	833.58	--	--	9.92	31.70	831.80	--	--	9.02	31.72	832.70	--	--
PZ03-06D	842.07	841.66	6.07	50.95	835.59	--	--	7.62	51.03	834.04	--	--	7.93	51.00	833.73	--	--
PZ03-07A	841.50	841.17	6.42	10.38	834.75	--	--	9.16	10.33	832.01	--	--	8.60	10.35	832.57	--	--
PZ03-07B	841.50	841.08	7.38	16.22	833.70	--	--	9.14	16.27	831.94	--	--	8.22	16.25	832.86	--	--
PZ03-07C	841.43	841.00	7.23	30.90	833.77	--	--	8.93	30.89	832.07	--	--	8.61	30.95	832.39	--	--
PZ03-07D	841.43	841.07	7.31	52.62	833.76	--	--	9.12	52.70	831.95	--	--	9.07	52.56	832.00	--	--
PZ03-08A	841.28	840.87	6.39	10.98	834.48	--	--	8.84	10.95	832.03	--	--	8.12	11.00	832.75	--	--
PZ03-08B	841.28	840.87	6.91	17.40	833.96	--	--	8.93	17.34	831.94	--	--	7.98	17.42	832.89	--	--
PZ03-08C	841.28	840.91	6.98	30.30	833.93	--	--	8.92	30.30	831.99	--	--	8.93	30.36	831.98	--	--
PZ03-08D	841.28	840.87	6.98	55.00	833.89	--	--	9.01	54.85	831.86	--	--	8.11	55.01	832.76	--	--
PZ03-09A	851.19	850.95	17.43	21.80	833.52	--	--	19.40	21.84	831.55	--	--	18.77	21.78	832.18	--	--
PZ03-09D	851.19	850.78	16.91	47.13	833.87	--	--	19.21	47.17	831.57	--	--	18.59	46.97	832.19	--	--
Surface Water Elevation																	
MP-1 (Tompkins St. Bridge)	--	858.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

See Notes on Page 9.

Table 2
Upgradient, Side-Gradient, and Sentinel Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York



Well ID	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL) ²	11/9/2009					5/28/2010					11/23/2010				
			DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)
Upgradient and Side-Gradient Wells																	
PZ93-1	844.70	848.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-06D	844.20	846.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-05D	844.90	847.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14D	845.90	845.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14S	845.90	845.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17D	861.50	861.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17S	861.70	861.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sentinel Wells																	
MW97-07S	849.33	849.36	16.91	24.82	832.45	--	--	17.67	24.82	831.69	--	--	16.69	24.81	832.67	--	--
MW-01-07-R	849.00	848.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01-03-R	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ01-02	841.86	841.46	9.65	17.30	831.81	9.20	0.45	10.21	17.28	831.25	9.54	0.67	8.91	17.29	832.55	8.86	0.05
PZ03-01D	848.10	847.49	15.37	46.72	832.12	--	--	15.94	46.62	831.55	--	--	15.16	46.68	832.33	--	--
PZ03-02A	846.20	845.96	13.59	14.75	832.37	--	--	14.18	14.70	831.78	--	--	13.11	14.79	832.85	--	--
PZ03-02D	846.20	845.97	13.83	54.16	832.14	--	--	14.52	54.12	831.45	--	--	13.56	54.13	832.41	--	--
PZ03-03A	843.86	843.50	8.79	8.79	834.71	--	--	Dry	8.72	--	--	--	Dry	8.79	--	--	--
PZ03-03B	843.86	843.53	10.79	21.90	832.74	--	--	12.08	21.88	831.45	--	--	11.18	21.88	832.35	--	--
PZ03-03D	843.86	843.59	11.38	48.02	832.21	--	--	12.13	48.00	831.46	--	--	11.19	48.03	832.40	--	--
PZ03-04A	843.14	842.76	10.08	14.42	832.68	--	--	10.78	14.45	831.98	--	--	9.64	14.45	833.12	--	--
PZ03-04B	843.14	842.68	10.49	21.19	832.19	--	--	11.29	21.21	831.39	--	--	10.26	21.21	832.42	--	--
PZ03-04D	843.14	842.75	10.53	41.32	832.22	--	--	11.33	41.30	831.42	--	--	10.32	41.35	832.43	--	--
PZ03-05A	842.68	842.37	6.20	6.20	836.17	--	--	6.18	6.18	836.19	--	--	9.79	NA	832.58	--	--
PZ03-05B	842.63	842.32	9.78	15.75	832.54	--	--	10.94	15.75	831.38	--	--	10.37	15.81	831.95	--	--
PZ03-05C	842.68	842.40	9.92	24.64	832.48	--	--	10.81	24.75	831.59	--	--	9.75	24.67	832.65	--	--
PZ03-05D	842.68	842.37	9.23	33.80	833.14	--	--	9.81	33.75	832.56	--	--	9.26	32.47	833.11	--	--
PZ03-06A	842.15	841.80	9.38	11.50	832.42	9.32	0.06	9.97	11.47	831.83	--	--	9.25	11.51	832.55	9.07	0.18
PZ03-06B	842.15	841.75	9.71	16.80	832.04	9.51	0.20	11.32	16.45	830.43	10.32	1.00	12.60	16.76	829.15	12.45	0.15
PZ03-06C	842.07	841.72	9.59	31.69	832.13	--	--	10.62	31.60	831.10	--	--	9.34	31.61	832.38	--	--
PZ03-06D	842.07	841.66	8.41	50.80	833.25	--	--	9.07	50.90	832.59	--	--	8.56	50.42	833.10	--	--
PZ03-07A	841.50	841.17	8.27	10.35	832.90	--	--	8.72	10.32	832.45	--	--	8.31	10.35	832.86	--	--
PZ03-07B	841.50	841.08	8.72	16.24	832.36	--	--	9.69	16.25	831.39	--	--	8.57	16.28	832.51	--	--
PZ03-07C	841.43	841.00	7.88	30.92	833.12	--	--	9.38	30.87	831.62	--	--	7.78	30.91	833.22	--	--
PZ03-07D	841.43	841.07	8.83	52.75	832.24	--	--	9.48	52.60	831.59	--	--	8.47	52.61	832.60	--	--
PZ03-08A	841.28	840.87	8.27	11.00	832.60	--	--	9.00	10.98	831.87	--	--	8.09	10.98	832.78	--	--
PZ03-08B	841.28	840.87	8.42	17.40	832.45	--	--	9.32	17.37	831.55	--	--	8.24	17.41	832.63	--	--
PZ03-08C	841.28	840.91	8.02	30.30	832.89	--	--	9.28	30.30	831.63	--	--	7.98	30.29	832.93	--	--
PZ03-08D	841.28	840.87	8.44	54.95	832.43	--	--	9.48	54.80	831.39	--	--	8.26	54.86	832.61	--	--
PZ03-09A	851.19	850.95	18.97	21.71	831.98	--	--	19.63	21.70	831.32	--	--	18.76	21.81	832.19	--	--
PZ03-09D	851.19	850.78	18.69	46.90	832.09	--	--	19.27	46.95	831.51	--	--	18.48	47.03	832.30	--	--
Surface Water Elevation																	
MP-1 (Tompkins St. Bridge)	--	858.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

See Notes on Page 9.

Table 2
Upgradient, Side-Gradient, and Sentinel Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York



Well ID	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL) ²	6/2/2011					2/15/2012					6/15/2012				
			DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)
Upgradient and Side-Gradient Wells																	
PZ93-1	844.70	848.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-06D	844.20	846.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-05D	844.90	847.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14D	845.90	845.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14S	845.90	845.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17D	861.50	861.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17S	861.70	861.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sentinel Wells																	
MW97-07S	849.33	849.36	15.91	24.89	833.45	--	--	15.35	NA	834.01	--	--	17.42	24.85	831.94	--	--
MW-01-07-R	849.00	848.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01-03-R	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ01-02	841.86	841.46	8.34	17.22	833.12	7.87	0.47	10.05	17.15	831.41	--	trace	9.92	17.21	831.54	9.85	0.07
PZ03-01D	848.10	847.49	14	46.67	833.49	--	--	15.67	36.66	831.82	--	--	15.85	46.75	831.64	--	--
PZ03-02A	846.20	845.96	12.07	14.75	833.89	--	--	13.86	14.72	832.10	--	--	12.47	14.77	833.49	--	--
PZ03-02D	846.20	845.97	11.78	54.12	834.19	--	--	14.03	54.11	831.94	--	--	14.09	54.11	831.88	--	--
PZ03-03A	843.86	843.50	Dry	8.42	--	--	--	8.65	8.65	834.85	--	--	Dry	8.74	--	--	--
PZ03-03B	843.86	843.53	10.58	21.87	832.95	--	--	11.66	21.86	831.87	--	--	11.84	21.88	831.69	--	--
PZ03-03D	843.86	843.59	10.61	47.98	832.98	--	--	11.73	48.00	831.86	--	--	11.89	48.07	831.70	--	--
PZ03-04A	843.14	842.76	9.43	14.44	833.33	--	--	9.76	14.43	833.00	--	--	10.20	14.48	832.56	--	--
PZ03-04B	843.14	842.68	9.88	21.22	832.80	--	--	10.82	21.20	831.86	--	--	11.02	21.29	831.66	--	--
PZ03-04D	843.14	842.75	9.88	41.32	832.87	--	--	10.87	41.35	831.88	--	--	11.07	41.43	831.68	--	--
PZ03-05A	842.68	842.37	0.80	6.98	841.57	--	--	5.68	6.86	836.69	--	--	0.65	6.87	841.72	--	--
PZ03-05B	842.63	842.32	8.68	15.79	833.64	--	--	10.51	15.73	831.81	--	--	10.68	15.91	831.64	--	--
PZ03-05C	842.68	842.40	9.11	24.67	833.29	--	--	10.64	24.60	831.76	--	--	10.82	24.66	831.58	--	--
PZ03-05D	842.68	842.37	8.32	33.43	834.05	--	--	10.75	32.47	831.62	--	--	10.24	32.51	832.13	--	--
PZ03-06A	842.15	841.80	8.33	11.50	833.47	--	--	9.71	11.51	832.09	--	--	9.94	11.54	831.86	--	trace
PZ03-06B	842.15	841.75	9.46	16.64	832.29	8.92	0.54	10.20	16.64	831.55	10.00	0.20	10.21	16.77	831.54	10.11	0.10
PZ03-06C	842.07	841.72	9.49	31.48	832.23	--	--	10.27	32.29	831.45	--	--	10.20	31.29	831.52	--	--
PZ03-06D	842.07	841.66	6.04	50.94	835.62	--	--	3.94	50.91	837.72	--	--	4.66	51.02	837.00	--	--
PZ03-07A	841.50	841.17	7.79	10.37	833.38	--	--	8.43	10.25	832.74	--	--	8.83	10.36	832.34	--	--
PZ03-07B	841.50	841.08	8.13	16.25	832.95	--	--	9.16	15.21	831.92	--	--	9.30	16.26	831.78	--	--
PZ03-07C	841.43	841.00	7.99	30.92	833.01	--	--	9.57	30.86	831.43	--	--	1.02	30.84	839.98	--	--
PZ03-07D	841.43	841.07	8.78	52.53	832.29	--	--	9.71	52.00	831.36	--	--	9.54	52.28	831.53	--	--
PZ03-08A	841.28	840.87	7.69	11.00	833.18	--	--	8.42	10.98	832.45	--	--	8.81	11.02	832.06	--	--
PZ03-08B	841.28	840.87	8.03	17.42	832.84	--	--	8.87	17.44	832.00	--	--	9.02	17.45	831.85	--	--
PZ03-08C	841.28	840.91	8.02	30.30	832.89	--	--	8.97	30.31	831.94	--	--	9.06	30.34	831.85	--	--
PZ03-08D	841.28	840.87	8.09	54.72	832.78	--	--	9.41	55.03	831.46	--	--	9.17	55.10	831.70	--	--
PZ03-09A	851.19	850.95	18.11	21.66	832.84	--	--	19.31	21.67	831.64	--	--	18.44	21.75	832.51	--	--
PZ03-09D	851.19	850.78	17.49	47.03	833.29	--	--	18.99	46.86	831.79	--	--	19.16	47.08	831.62	--	--
Surface Water Elevation																	
MP-1 (Tompkins St. Bridge)	--	858.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

See Notes on Page 9.

Table 2
Upgradient, Side-Gradient, and Sentinel Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York



Well ID	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL) ²	11/20/2012					5/31/2013					11/26/2013				
			DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)
Upgradient and Side-Gradient Wells																	
PZ93-1	844.70	848.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-06D	844.20	846.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-05D	844.90	847.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14D	845.90	845.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14S	845.90	845.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17D	861.50	861.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17S	861.70	861.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sentinel Wells																	
MW97-07S	849.33	849.36	17.44	24.82	831.92	--	--	15.47	-	833.89	--	--	17.61	24.82	831.75	--	--
MW-01-07-R	849.00	848.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01-03-R	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ01-02	841.86	841.46	10.00	NA	831.46	9.85	0.15	8.3	-	833.16	8.29	0.01	10.11	17.21	831.35	10.03	0.08
PZ03-01D	848.10	847.49	15.85	46.75	831.64	--	--	14.34	46.72	833.15	--	--	16.09	46.77	831.40	--	--
PZ03-02A	846.20	845.96	13.74	14.82	832.22	--	--	12.25	14.80	833.71	--	--	14.2	14.74	831.76	--	--
PZ03-02D	846.20	845.97	14.17	54.23	831.80	--	--	13.35	54.17	832.62	--	--	14.46	54.23	831.51	--	--
PZ03-03A	843.86	843.50	8.72	8.72	834.78	--	--	Dry	8.70	--	--	--	Dry	8.70	--	--	--
PZ03-03B	843.86	843.53	11.86	21.91	831.67	--	--	9.62	21.86	833.91	--	--	12.07	21.88	831.46	--	--
PZ03-03D	843.86	843.59	10.91	48.05	832.68	--	--	9.64	48.00	833.95	--	--	12.15	48.10	831.44	--	--
PZ03-04A	843.14	842.76	10.39	14.51	832.37	--	--	9.15	14.47	833.61	--	--	10.98	14.48	831.78	--	--
PZ03-04B	843.14	842.68	10.69	21.22	831.99	--	--	8.89	21.25	833.79	--	--	10.78	21.25	831.90	--	--
PZ03-04D	843.14	842.75	11.06	41.44	831.69	--	--	8.54	41.40	834.21	--	--	11.27	41.43	831.48	--	--
PZ03-05A	842.68	842.37	2.78	6.82	839.59	--	--	--	--	--	--	--	1.48	6.72	840.89	--	--
PZ03-05B	842.63	842.32	10.69	15.88	831.63	--	--	7.65	14.20	834.67	--	--	0.62	10.07	841.70	--	--
PZ03-05C	842.68	842.40	10.69	24.69	831.71	--	--	8.15	24.66	834.25	--	--	10.65	24.68	831.75	--	--
PZ03-05D	842.68	842.37	10.45	32.53	831.92	--	--	9.55	32.47	832.82	--	--	10.38	32.52	831.99	--	--
PZ03-06A	842.15	841.80	9.90	NA	831.90	9.88	0.02	8.36	11.54	833.44	-	trace	10.12	11.54	831.68	--	trace
PZ03-06B	842.15	841.75	10.18	16.73	831.57	10.06	0.12	7.75	16.65	834.00	--	--	10.38	16.68	831.37	10.26	0.12
PZ03-06C	842.07	841.72	10.15	31.29	831.57	--	--	6.97	31.24	834.75	--	--	10.41	31.19	831.31	--	--
PZ03-06D	842.07	841.66	6.23	51.01	835.43	--	--	6.68	50.97	834.98	--	--	4.25	50.95	837.41	--	--
PZ03-07A	841.50	841.17	8.33	10.42	832.84	--	--	7.67	10.38	833.50	--	--	8.95	10.41	832.22	--	--
PZ03-07B	841.50	841.08	9.32	16.26	831.76	--	--	6.26	16.42	834.82	--	--	9.56	16.27	831.52	--	--
PZ03-07C	841.43	841.00	9.57	30.82	831.43	--	--	6.35	30.61	834.65	--	--	8.42	30.49	832.58	--	--
PZ03-07D	841.43	841.07	9.64	52.19	831.43	--	--	8.10	52.10	832.97	--	--	4.55	51.23	836.52	--	--
PZ03-08A	841.28	840.87	8.46	11.03	832.41	--	--	6.91	11.00	833.96	--	--	8.69	11.02	832.18	--	--
PZ03-08B	841.28	840.87	9.06	17.46	831.81	--	--	6.04	17.40	834.83	--	--	9.29	17.42	831.58	--	--
PZ03-08C	841.28	840.91	9.13	30.35	831.78	--	--	6.01	30.31	834.90	--	--	9.48	30.34	831.43	--	--
PZ03-08D	841.28	840.87	9.13	54.83	831.74	--	--	6.40	54.55	834.47	--	--	9.56	54.35	831.31	--	--
PZ03-09A	851.19	850.95	19.46	21.95	831.49	--	--	17.67	21.67	833.28	--	--	19.63	21.69	831.32	--	--
PZ03-09D	851.19	850.78	19.17	47.02	831.61	--	--	17.78	46.98	833.00	--	--	19.41	47.01	831.37	--	--
Surface Water Elevation																	
MP-1 (Tompkins St. Bridge)	--	858.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

See Notes on Page 9.

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Upgradient, Side-Gradient, and Sentinel Well Gauging and Groundwater Elevation Summary
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NYSEG - Binghamton Former MGP Site
Binghamton, New York



Well ID	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL) ²	12/2/2014					12/4/2014 (Post-Redevelopment)					12/17/2015				
			DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)
Upgradient and Side-Gradient Wells																	
PZ93-1	844.70	848.37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-06D	844.20	846.80	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW93-05D	844.90	847.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14D	845.90	845.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW97-14S	845.90	845.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17D	861.50	861.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW01-17S	861.70	861.32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Sentinel Wells																	
MW97-07S	849.33	849.36	17.10	24.85	832.26	--	--	--	28.80	--	--	--	NA	NA	--	--	--
MW-01-07-R	849.00	848.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01-03-R	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ01-02	841.86	841.46	9.4	17.05	832.06	--	trace blebs	9.18	20.46	832.28	--	trace blebs	9.9	17.21	831.56	9.89	0.01
PZ03-01D	848.10	847.49	15.76	46.77	831.73	--	--	--	47.20	--	--	--	14.67	46.77	832.82	--	--
PZ03-02A	846.20	845.96	13.3	14.84	832.66	--	--	--	15.65	--	--	--	14.52	15.54	831.44	--	--
PZ03-02D	846.20	845.97	14.11	54.24	831.86	--	--	--	55.00	--	--	--	14.44	54.90	831.53	--	--
PZ03-03A	843.86	843.50	Dry	8.73	--	--	--	--	11.14	--	--	--	Dry	11.12	--	--	--
PZ03-03B	843.86	843.53	11.57	21.91	831.96	--	--	--	23.79	--	--	--	12	23.78	831.53	--	--
PZ03-03D	843.86	843.59	11.65	48.08	831.94	--	--	--	49.63	--	--	--	12.15	49.64	831.44	--	--
PZ03-04A	843.14	842.76	9.89	14.49	832.87	--	--	9.64	14.65	833.12	--	--	10.95	14.56	831.81	--	--
PZ03-04B	843.14	842.68	10.83	21.18	831.85	--	--	10.46	22.08	832.22	--	--	11.11	22.00	831.57	--	--
PZ03-04D	843.14	842.75	10.84	41.33	831.91	--	--	10.54	41.59	832.21	--	--	11.18	41.51	831.57	--	--
PZ03-05A	842.68	842.37	0.82	6.15	841.55	--	--	1.30	7.16	841.07	--	--	Dry	7.12	--	--	--
PZ03-05B	842.63	842.32	--	--	--	--	--	10.04	16.76	832.28	--	--	10.73	16.72	831.59	--	--
PZ03-05C	842.68	842.40	10.47	24.68	831.93	--	--	10.16	27.68	832.24	--	--	10.83	27.67	831.57	--	--
PZ03-05D	842.68	842.37	10.47	32.55	831.90	--	--	10.04	44.75	832.33	--	--	10.80	44.67	831.57	--	--
PZ03-06A	842.15	841.80	9.76	11.51	832.04	--	--	9.46	18.32	832.34	--	--	10.23	11.77	831.57	--	--
PZ03-06B	842.15	841.75	9.76	9.76	831.99	--	trace blebs	9.50	11.86	832.25	--	trace blebs	10.20	18.58	831.55	10.20	trace
PZ03-06C	842.07	841.72	9.79	31.14	831.93	--	--	9.36	32.68	832.36	--	--	10.10	32.64	831.62	--	--
PZ03-06D	842.07	841.66	0.31	50.99	841.35	--	--	9.16	53.21	832.50	--	--	10.02	53.08	831.64	--	--
PZ03-07A	841.50	841.17	8.91	10.44	832.26	--	--	8.57	10.75	832.60	--	--	9.42	10.70	831.75	--	--
PZ03-07B	841.50	841.08	8.86	16.28	832.22	--	--	8.71	16.66	832.37	--	--	9.42	16.59	831.66	--	--
PZ03-07C	841.43	841.00	0.60	29.48	840.40	--	--	8.64	32.66	832.36	--	--	9.35	32.60	831.65	--	--
PZ03-07D	841.43	841.07	0.60	48.99	840.47	--	--	8.68	51.58	832.39	--	--	9.39	51.51	831.68	--	--
PZ03-08A	841.28	840.87	8.66	10.99	832.21	--	--	8.48	11.81	832.39	--	--	9.09	11.76	831.78	--	--
PZ03-08B	841.28	840.87	8.65	17.43	832.22	--	--	8.49	17.80	832.38	--	--	9.17	17.70	831.70	--	--
PZ03-08C	841.28	840.91	8.67	30.33	832.24	--	--	8.65	30.62	832.26	--	--	9.17	30.56	831.74	--	--
PZ03-08D	841.28	840.87	7.72	54.20	833.15	--	--	8.46	55.68	832.41	--	--	9.13	55.55	831.74	--	--
PZ03-09A	851.19	850.95	19.19	21.75	831.76	--	--	--	22.46	--	--	--	NA	NA	--	--	--
PZ03-09D	851.19	850.78	19.12	46.98	831.66	--	--	--	47.58	--	--	--	NA	NA	--	--	--
Surface Water Elevation																	
MP-1 (Tompkins St. Bridge)	--	858.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

See Notes on Page 9.

Table 2
Upgradient, Side-Gradient, and Sentinel Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

Well ID	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL) ²	12/27/2016					12/21/2017					11/23/2020				
			DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)
Upgradient and Side-Gradient Wells																	
PZ93-1	844.70	848.37	--	--	--	--	--	--	--	--	--	--	10.22	12.29	838.15	--	--
MW93-06D	844.20	846.80	--	--	--	--	--	--	--	--	--	--	14.49	67.24	832.31	--	--
MW93-05D	844.90	847.61	--	--	--	--	--	--	--	--	--	--	15.54	59.15	832.07	--	--
MW97-14D	845.90	845.57	--	--	--	--	--	--	--	--	--	--	13.12	38.25	832.45	--	--
MW97-14S	845.90	845.55	--	--	--	--	--	--	--	--	--	--	13.25	19.00	832.30	--	--
MW01-17D	861.50	861.16	--	--	--	--	--	--	--	--	--	--	29.28	58.75	831.88	--	--
MW01-17S	861.70	861.32	--	--	--	--	--	--	--	--	--	--	dry	29.45 ⁸	--	--	--
Sentinel Wells																	
MW97-07S	849.33	849.36	16.91	29.83	832.45	--	--	5.77	25.86	843.59	--	--	NM	NM ⁷	--	--	--
MW-01-07-R	849.00	848.57	--	--	--	--	--	--	--	--	--	--	16.54	108.29	832.03	--	--
MW-01-03-R	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PZ01-02	841.86	841.46	10.6	20.34	830.86	8.90	1.70	8.94	NM	832.52	8.89	0.05	NM	NM ¹¹	--	--	--
PZ03-01D	848.10	847.49	15.44	46.69	832.05	--	--	2.95	46.69	844.54	--	--	NM	NM ⁷	--	--	--
PZ03-02A	846.20	845.96	NA	NA ⁶	--	--	--	NA	NA ⁶	--	--	--	NM	NM ¹⁰	--	--	--
PZ03-02D	846.20	845.97	NA	NA ⁶	--	--	--	NA	NA ⁶	--	--	--	NM	NM ¹⁰	--	--	--
PZ03-03A	843.86	843.50	Dry	11.07	--	--	--	Dry	11.11	--	--	--	10.50	11.12	833.00	--	--
PZ03-03B	843.86	843.53	11.3	23.78	832.23	--	--	12.21	23.78	831.32	--	--	12.28	33.77	831.25	--	--
PZ03-03D	843.86	843.59	11.64	49.62	831.95	--	--	12.31	49.63	831.28	--	--	12.54	49.62	831.05	--	--
PZ03-04A	843.14	842.76	10.04	14.58	832.72	--	--	11.11	14.58	831.65	--	--	11.08	14.59	831.68	--	--
PZ03-04B	843.14	842.68	10.42	21.99	832.26	--	--	11.36	22.00	831.32	--	--	11.39	12.00	--	--	--
PZ03-04D	843.14	842.75	11.55	41.60	831.20	--	--	11.44	41.48	831.31	--	--	11.58	41.50	831.17	--	--
PZ03-05A	842.68	842.37	Dry	7.19	--	--	--	Dry	7.10	--	--	--	Trace	7.15	--	--	--
PZ03-05B	842.63	842.32	10.02	16.71	832.30	--	--	11.04	16.72	831.28	--	--	9.65	16.72	832.67	--	--
PZ03-05C	842.68	842.40	10.15	27.68	832.25	--	--	11.12	27.67	831.28	--	--	11.28	27.67	831.12	--	--
PZ03-05D	842.68	842.37	10.20	44.67	832.17	--	--	11.08	44.69	831.29	--	--	11.26	44.67	831.11	--	--
PZ03-06A	842.15	841.80	NA	NA ⁶	--	--	--	NA	NA ⁶	--	--	--	NM	NM ¹¹	--	--	--
PZ03-06B	842.15	841.75	NA	NA ⁶	--	--	--	NA	NA ⁶	--	--	--	NM	NM ¹¹	--	--	--
PZ03-06C	842.07	841.72	NA	NA ⁶	--	--	--	NA	NA ⁶	--	--	--	NM	NM ¹¹	--	--	--
PZ03-06D	842.07	841.66	NA	NA ⁶	--	--	--	NA	NA ⁶	--	--	--	NM	NM ¹¹	--	--	--
PZ03-07A	841.50	841.17	8.02	10.69	833.15	--	--	8.47	10.70	832.70	--	--	NM	NM ¹¹	--	--	--
PZ03-07B	841.50	841.08	8.72	16.61	832.36	--	--	9.66	16.59	831.42	--	--	NM	NM ¹¹	--	--	--
PZ03-07C	841.43	841.00	8.70	32.59	832.30	--	--	9.68	32.58	831.32	--	--	NM	NM ¹¹	--	--	--
PZ03-07D	841.43	841.07	8.95	51.52	832.12	--	--	9.72	51.52	831.35	--	--	NM	NM ¹¹	--	--	--
PZ03-08A	841.28	840.87	7.80	11.77	833.07	--	--	8.84	11.76	832.03	--	--	NM	NM ¹¹	--	--	--
PZ03-08B	841.28	840.87	8.55	17.70	832.32	--	--	9.42	17.72	831.45	--	--	NM	NM ¹¹	--	--	--
PZ03-08C	841.28	840.91	8.65	30.54	832.26	--	--	9.46	30.55	831.45	--	--	NM	NM ¹¹	--	--	--
PZ03-08D	841.28	840.87	9.17	55.55	831.70	--	--	9.46	55.56	831.41	--	--	NM	NM ¹¹	--	--	--
PZ03-09A	851.19	850.95	19.05	22.43	831.90	--	--	13.82	NA	837.13	--	--	19.94	22.70	831.01	--	--
PZ03-09D	851.19	850.78	18.82	47.57	831.96	--	--	19.54	47.59	831.24	--	--	19.55	47.68	831.23	--	--
Surface Water Elevation																	
MP-1 (Tompkins St. Bridge)	--	858.19	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

See Notes on Page 9.

Table 2
Upgradient, Side-Gradient, and Sentinel Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

Well ID	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL) ²	11/2/2021					11/3/2022				
			DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)	DTW (ft-TIC)	DTB (ft-TIC)	Groundwater Elevation (ft AMSL)	DTNAPL (ft TIC)	NAPL Thickness (ft)
Upgradient and Side-Gradient Wells												
PZ93-1	844.70	848.00	9.67	12.18	838.33	--	--	10.12	12.15	837.88	--	--
MW93-06D	844.20	845.98	12.43	67.26	833.55	--	--	14.38	67.02	831.60	--	--
MW93-05D	844.90	847.16	13.45	59.15	833.71	--	--	15.53	59.15	831.63	--	--
MW97-14D	845.90	844.88	11.15	37.72	833.73	--	--	13.17	37.58	831.71	--	--
MW97-14S	845.90	844.87	11.20	19.20	833.67	--	--	13.16	18.87	831.71	--	--
MW01-17D	861.50	860.79	27.22	58.91	833.57	--	--	29.22	58.65	831.57	--	--
MW01-17S	861.70	860.86	27.52	36.60	833.34	--	--	29.52	29.92	831.34	--	--
Sentinel Wells												
MW97-07S	849.33	848.97	15.68	25.82	833.29	--	--	17.91	25.75	831.06	--	--
MW-01-07-R	849.00	848.72	14.69	108.82	834.03	--	--	NM	NM	--	--	--
MW-01-03-R	--	846.56	12.49	111.09	834.07	--	--	14.76	NM	831.80	--	--
PZ01-02	841.86	--	NM	NM ¹¹	--	--	--	NM	NM ¹¹	--	--	--
PZ03-01D	848.10	847.61	14.15	46.70	833.46	--	--	16.30	46.65	831.31	--	--
PZ03-02A	846.20	--	NM	NM ¹⁰	--	--	--	NM	NM ¹⁰	--	--	--
PZ03-02D	846.20	--	NM	NM ¹⁰	--	--	--	NM	NM ¹⁰	--	--	--
PZ03-03A	843.86	--	NM	NM ¹²	--	--	--	NM	NM ¹²	--	--	--
PZ03-03B	843.86	--	NM	NM ¹²	--	--	--	NM	NM ¹²	--	--	--
PZ03-03D	843.86	--	NM	NM ¹²	--	--	--	NM	NM ¹²	--	--	--
PZ03-04A	843.14	--	NM	NM ¹²	--	--	--	NM	NM ¹²	--	--	--
PZ03-04B	843.14	--	NM	NM ¹²	--	--	--	NM	NM ¹²	--	--	--
PZ03-04D	843.14	--	NM	NM ¹²	--	--	--	NM	NM ¹²	--	--	--
PZ03-05A	842.68	--	NM	NM ¹²	--	--	--	NM	NM ¹²	--	--	--
PZ03-05B	842.63	--	NM	NM ¹²	--	--	--	NM	NM ¹²	--	--	--
PZ03-05C	842.68	--	NM	NM ¹²	--	--	--	NM	NM ¹²	--	--	--
PZ03-05D	842.68	--	NM	NM ¹²	--	--	--	NM	NM ¹²	--	--	--
PZ03-06A	842.15	--	NM	NM ¹¹	--	--	--	NM	NM ¹¹	--	--	--
PZ03-06B	842.15	--	NM	NM ¹¹	--	--	--	NM	NM ¹¹	--	--	--
PZ03-06C	842.07	--	NM	NM ¹¹	--	--	--	NM	NM ¹¹	--	--	--
PZ03-06D	842.07	--	NM	NM ¹¹	--	--	--	NM	NM ¹¹	--	--	--
PZ03-07A	841.50	--	NM	NM ¹¹	--	--	--	NM	NM ¹¹	--	--	--
PZ03-07B	841.50	--	NM	NM ¹¹	--	--	--	NM	NM ¹¹	--	--	--
PZ03-07C	841.43	--	NM	NM ¹¹	--	--	--	NM	NM ¹¹	--	--	--
PZ03-07D	841.43	--	NM	NM ¹¹	--	--	--	NM	NM ¹¹	--	--	--
PZ03-08A	841.28	--	NM	NM ¹¹	--	--	--	NM	NM ¹¹	--	--	--
PZ03-08B	841.28	--	NM	NM ¹¹	--	--	--	NM	NM ¹¹	--	--	--
PZ03-08C	841.28	--	NM	NM ¹¹	--	--	--	NM	NM ¹¹	--	--	--
PZ03-08D	841.28	--	NM	NM ¹¹	--	--	--	NM	NM ¹¹	--	--	--
PZ03-09A	851.19	850.86	17.89	22.32	832.97	--	--	19.92	22.33	830.94	--	--
PZ03-09D	851.19	850.81	17.52	47.49	833.29	--	--	19.62	46.86	831.19	--	--
Surface Water Elevation												
MP-1 (Tompkins St. Bridge)	--	858.19	--	--	--	--	--	27.38	--	830.81	--	--

See Notes on Page 9.

Table 2
Upgradient, Side-Gradient, and Sentinel Well Gauging and Groundwater Elevation Summary
2022 Post-Remediation Monitoring Report
NYSEG - Binghamton Former MGP Site
Binghamton, New York

Acronyms and Abbreviations:

AMSL = Feet Above Mean Sea Level
DTB = depth to bottom
DTW = depth to water
ft = feet
NAPL = non-aqueous phase liquid
TIC = Top of Inner Casing
NA = not accessible
NM = not measured
St. = street

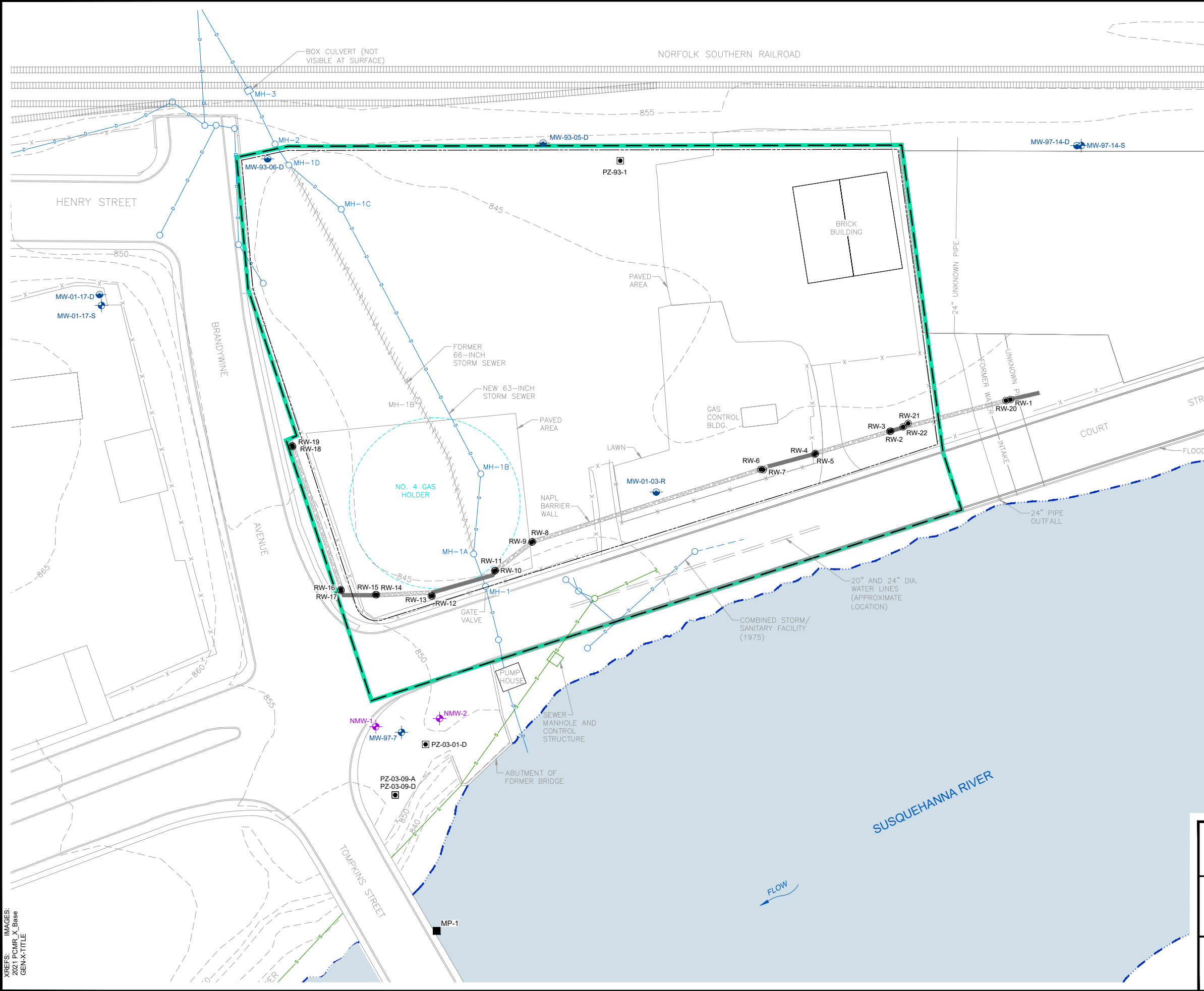
Notes:

1. NAPL gauging and water level data collected by Arcadis on the dates indicated.
2. All elevations referenced to feet above mean sea level, North American Vertical Datum of 1988. Monitoring Well network was resurveyed in 2021.
3. Ground surface elevation is approximate. City of Binghamton re-surfaced Court Street in 2008. The surveyed points are from 2007 before the road was re-surfaced.
4. Installed well depth taken from geologists' field notes.
5. Sediment and debris was removed from all road wells on 12/3-12/4/14 by jetting with potable water.
6. Piezometer clusters PZ03-02 (A, D) and PZ03-06 (A, B, C, D) were observed to be paved over during the 2016 NAPL monitoring event.
7. Monitoring well was misidentified/not found during the 2020 monitoring event and not measured or sampled.
8. Monitoring well MW01-17S was dry during the 2020 monitoring event. Depth to bottom was measured at 29.45 feet, constructed well depth is 37.0 feet indicating approximately 7.5 feet of sediment in the well. MW01-17S was redeveloped during 2021 event.
9. Monitoring well NMW-4 was unable to be located and not measured during the 2020 or 2021 monitoring event and is assumed to be lost/destroyed.
10. Piezometer cluster PZ03-02 (A, D) cover and J-plug were missing, casing was filled with dirt/road debris during the 2020 monitoring event and was unable to be measured. Piezometer cluster was observed to be paved over during 2021 event and assumed to be destroyed/abandoned.
11. Piezometer clusters PZ01-02, PZ03-06 (A, B, C, D), PZ03-07 (A, B, C, D), and PZ03-08 (A, B, C, D) were observed to be paved over during the 2020 and 2021 monitoring event and not measured. Piezometers are assumed to be destroyed/abandoned.
12. Piezometer clusters PZ03-03 (A, B, D) through PZ03-05 (A, B, C, D) were decommissioned in accordance with NYSDEC Monitoring Well Decommissioning Policy (CP-43) during 2021 event.

Figures

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 2021 PCMR_X_Base
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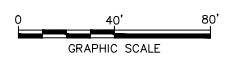


LEGEND:

- NYSEG PROPERTY LINES AND ENVIRONMENTAL EASEMENT LIMITS
- OPERABLE UNIT BOUNDARY AND INSTITUTIONAL CONTROL LIMITS
- - - 840 - - - GROUND SURFACE ELEVATION (FT AMSL)
- X-X- FENCE
- ||||| RAILROAD TRACK
- FLOOD WALL
- S-S- SANITARY SEWER LINE
- O-O- STORM SEWER LINE
- ABANDONED STORM SEWER LINE
- - - HISTORIC FEATURE
- NAPL BARRIER WALL
- JET GROUT PANEL
- ◆ SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- ◆ NAPL MONITORING WELL
- PIEZOMETER
- RECOVERY WELL
- MEASURING POINT

NOTES:

1. BASE MAP PROVIDED BY NYSEG (JUNE 12, 1997).
2. GROUND SURFACE CONTOURS DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303; FLOWN DECEMBER 2, 1973 AND MAPPED APRIL 1, 1974.
3. BASEMAP REFERENCE DATUMS:
 HORIZONTAL: NORTH AMERICAN VERTICAL DATUM OF 1983 (NAD83),
 NEW YORK STATE PLANE CENTRAL ZONE 3102.
 VERTICAL: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).
4. STORM SEWER LOCATION DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303, ENTITLED: PRELIMINARY REPORT, COMPREHENSIVE STORM DRAINAGE, EXISTING FACILITIES, PREPARED BY VERNON O. SHUMAKER, CONSULTING ENGINEER, VESTAL, NEW YORK, DATE NOT PROVIDED.
5. ALL LOCATIONS ARE APPROXIMATE. SITE PLAN DEPICTS BOTH HISTORIC AND CURRENT SITE FEATURES, INCLUDING MONITORING WELLS.



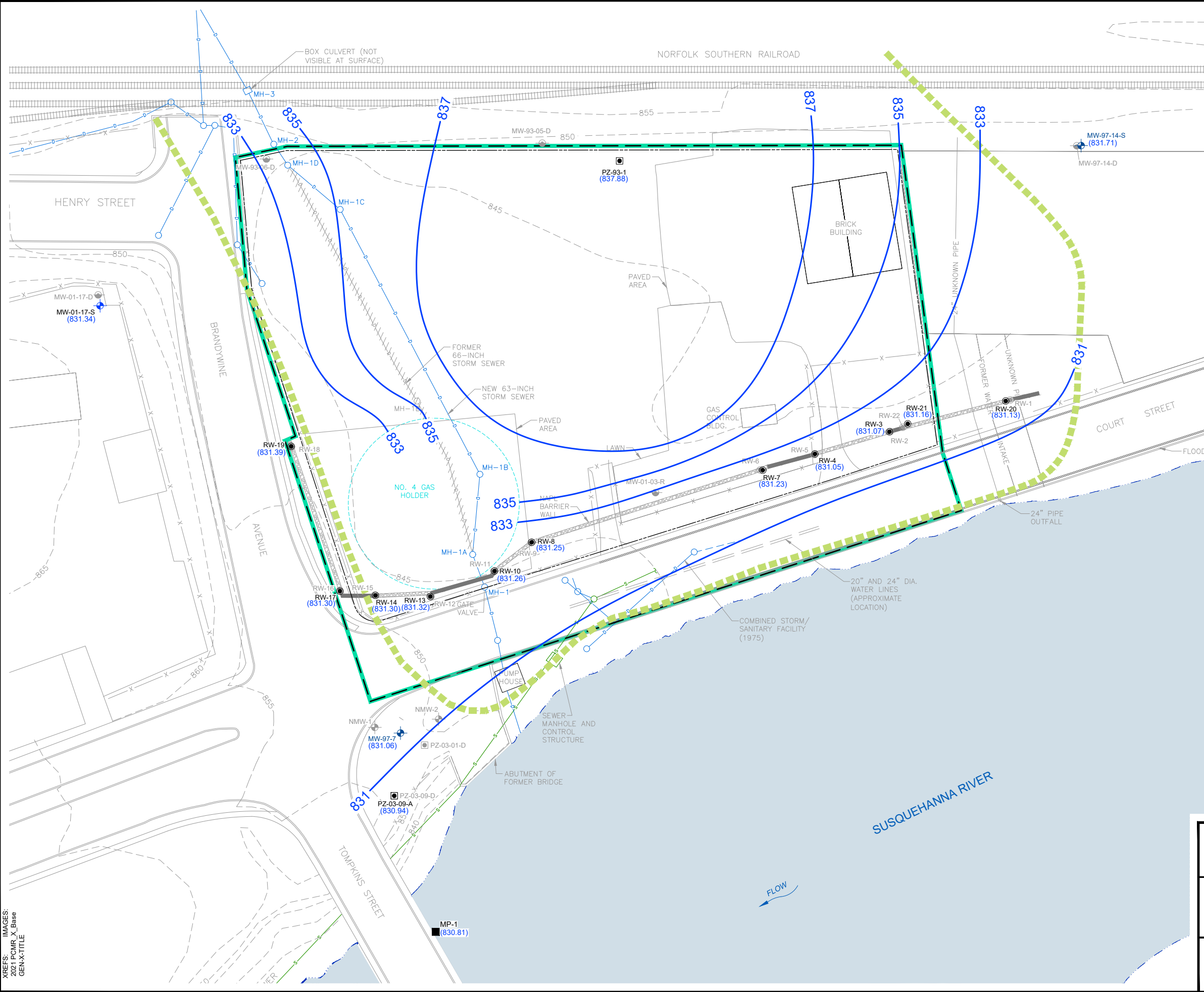
NYSEG
 COURT STREET FORMER MGP SITE
 BINGHAMTON, NEW YORK
2022 POST-CONSTRUCTION MONITORING REPORT

MONITORING WELL LOCATIONS



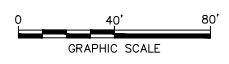
FIGURE
1

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 GEN-X-TITLE
 BY: BYRAPPAB, BYRAREDDY
 SAVED: 12/5/2022 2:34 PM



- LEGEND:**
- NYSEG PROPERTY LINES AND ENVIRONMENTAL EASEMENT LIMITS
 - OPERABLE UNIT BOUNDARY AND INSTITUTIONAL CONTROL LIMITS
 - - - 840 - - - GROUND SURFACE ELEVATION (FT AMSL)
 - X X X FENCE
 - RAILROAD TRACK
 - FLOOD WALL
 - S SANITARY SEWER LINE
 - STORM SEWER LINE
 - ABANDONED STORM SEWER LINE
 - HISTORIC FEATURE
 - EDGE OF SILT
 - NAPL BARRIER WALL
 - JET GROUT PANEL
 - SHALLOW MONITORING WELL
 - DEEP MONITORING WELL
 - NAPL MONITORING WELL
 - PIEZOMETER
 - RECOVERY WELL
 - MEASURING POINT
- 837 GROUNDWATER CONTOUR (SEE NOTE 6)
 (837.88) GROUNDWATER ELEVATION (SEE NOTE 6)

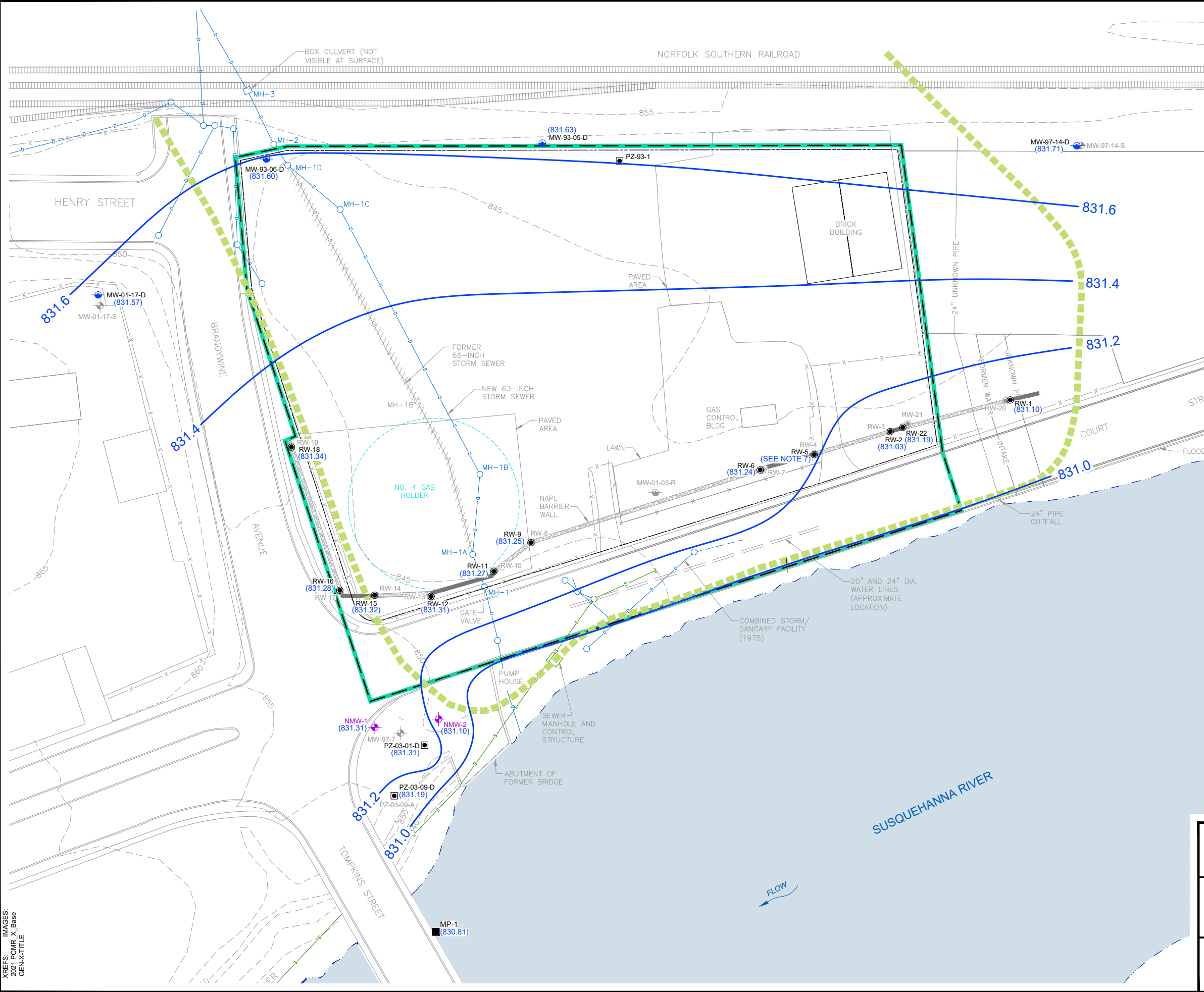
- NOTES:**
- BASE MAP PROVIDED BY NYSEG (JUNE 12, 1997).
 - GROUND SURFACE CONTOURS DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303; FLOWN DECEMBER 2, 1973 AND MAPPED APRIL 1, 1974.
 - GROUND SURFACE AND BASEMAP REFERENCE DATUMS: VERTICAL: NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29) HORIZONTAL: NORTH AMERICAN DATUM OF 1983 (NAD83), NEW YORK STATE PLANE, CENTRAL ZONE 3102
 - STORM SEWER LOCATION DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303, ENTITLED: PRELIMINARY REPORT, COMPREHENSIVE STORM DRAINAGE, EXISTING FACILITIES, PREPARED BY VERNON O. SHUMAKER, CONSULTING ENGINEER, VESTAL, NEW YORK, DATE NOT PROVIDED.
 - ALL LOCATIONS ARE APPROXIMATE. SITE PLAN DEPICTS BOTH HISTORIC AND CURRENT SITE FEATURES, INCLUDING MONITORING WELLS.
 - GROUNDWATER ELEVATIONS REFERENCED TO MEAN SEA LEVEL USING NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND NAD83, NEW YORK STATE PLANE, CENTRAL ZONE 3102.



NYSEG
 COURT STREET FORMER MGP SITE
 BINGHAMTON, NEW YORK
2022 POST-CONSTRUCTION MONITORING REPORT
WATER TABLE MAP - NOVEMBER 2, 2021

FIGURE
2

C:\Users\byrappab346\ArcGIS\Projects\2022\01-1 in Progress\01-DWG\GWM-2022-F03-SAND & GRAVEL POTENTIOMETRIC.dwg SAVED: 12/5/2022 3:49 PM BY: BYRAPPA, BYRAREDDY



LEGEND:

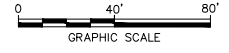
- NYSEG PROPERTY LINES AND ENVIRONMENTAL EASEMENT LIMITS
- OPERABLE UNIT BOUNDARY AND INSTITUTIONAL CONTROL LIMITS
- - - - 840 - - - - GROUND SURFACE ELEVATION (FT AMSL)
- x - x - FENCE
- ||||| RAILROAD TRACK
- FLOOD WALL
- SANITARY SEWER LINE
- STORM SEWER LINE
- ABANDONED STORM SEWER LINE
- HISTORIC FEATURE
- EDGE OF SILT
- NAPL BARRIER WALL
- JET GROUT PANEL
- SHALLOW MONITORING WELL
- DEEP MONITORING WELL
- ◆ NAPL MONITORING WELL
- PIEZOMETER
- RECOVERY WELL
- MEASURING POINT

831.6 --- GROUNDWATER CONTOUR (DASHED WHERE INFERRED) (SEE NOTE 6)

(831.63) GROUNDWATER ELEVATION (SEE NOTE 6)

NOTES:

1. BASE MAP PROVIDED BY NYSEG (JUNE 12, 1997).
2. GROUND SURFACE CONTOURS DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303; FLOWN DECEMBER 2, 1973 AND MAPPED APRIL 1, 1974.
3. GROUND SURFACE AND BASEMAP REFERENCE DATUMS: VERTICAL: NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929 HORIZONTAL: NORTH AMERICAN DATUM (NAD) OF 1983, NEW YORK STATE PLANE, CENTRAL ZONE 3102.
4. STORM SEWER LOCATION DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303, ENTITLED: PRELIMINARY REPORT, COMPREHENSIVE STORM DRAINAGE, EXISTING FACILITIES, PREPARED BY VERNON O. SHUMAKER, CONSULTING ENGINEER, VESTAL, NEW YORK, DATE NOT PROVIDED.
5. ALL LOCATIONS ARE APPROXIMATE. SITE PLAN DEPICTS BOTH HISTORIC AND CURRENT SITE FEATURES, INCLUDING MONITORING WELLS.
6. GROUNDWATER ELEVATIONS REFERENCED TO MEAN SEA LEVEL USING NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND NAD83, NEW YORK STATE PLANE, CENTRAL ZONE 3102.
7. GROUNDWATER ELEVATION AT RECOVERY WELL RW-5 IS ANOMALOUSLY LOW COMPARED TO THE MEASURED RIVER AND SURROUNDING GROUNDWATER ELEVATIONS; THEREFORE, IT WAS NOT USED IN CONTOURING.



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COURT STREET FORMER MGP SITE
BINGHAMTON, NEW YORK
2022 POST-CONSTRUCTION MONITORING REPORT

**SAND AND GRAVEL POTENTIOMETRIC
SURFACE MAP - NOVEMBER 2, 2021**

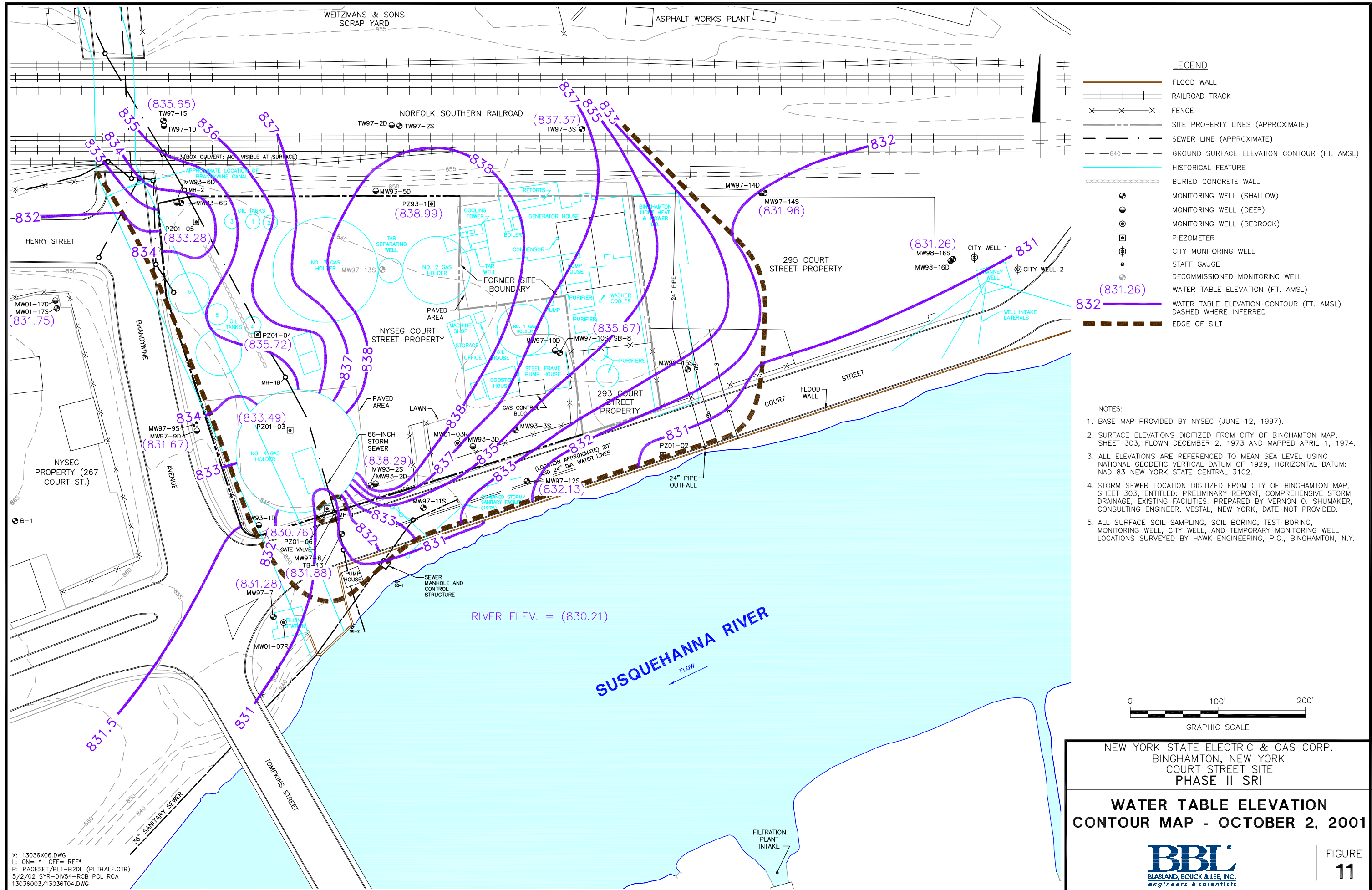


FIGURE
3

XREFS:
2021 PCMR_X_Base
GEN-X-TITLE

Attachment 1

Select RI Figures



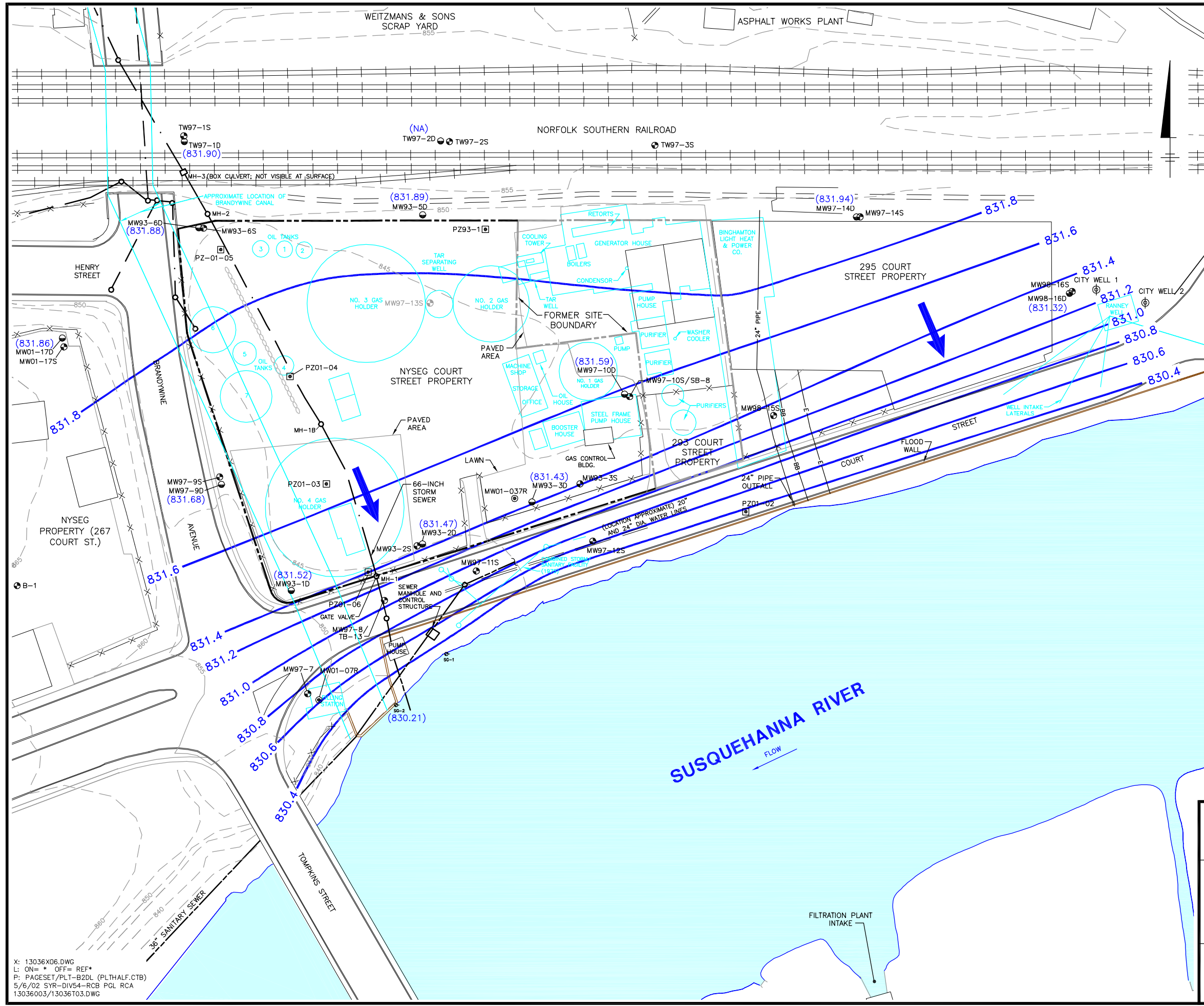
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 L: ON= * OFF= REF*
 P: PAGESET/PLT-B2DL (PLTHALF.CTB)
 5/2/02 SYR-DIV54-RCB PGL RCA
 13036003/13036T04.DWG

NEW YORK STATE ELECTRIC & GAS CORP.
 BINGHAMTON, NEW YORK
 COURT STREET SITE
 PHASE II SRI

**WATER TABLE ELEVATION
 CONTOUR MAP - OCTOBER 2, 2001**

BBL
 BLASLAND, BOUCK & LEE, INC.
 engineers & scientists

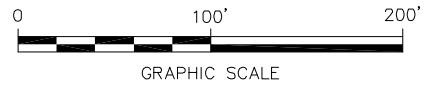
FIGURE
11



LEGEND

- FLOOD WALL
- RAILROAD TRACK
- FENCE
- SITE PROPERTY LINES (APPROXIMATE)
- SEWER LINE (APPROXIMATE)
- GROUND SURFACE ELEVATION CONTOUR (FT. AMSL)
- HISTORICAL FEATURE
- BURIED CONCRETE WALL
- MONITORING WELL (SHALLOW)
- MONITORING WELL (DEEP)
- MONITORING WELL (BEDROCK)
- PIEZOMETER
- CITY MONITORING WELL
- STAFF GAUGE
- DECOMMISSIONED MONITORING WELL
- DEEP GROUNDWATER POTENTIOMETRIC ELEVATION IN FEET ABOVE MEAN SEA LEVEL (NA = NOT AVAILABLE)
- GROUNDWATER FLOW DIRECTION

- NOTES:**
- BASE MAP PROVIDED BY NYSEG (JUNE 12, 1997).
 - SURFACE ELEVATIONS DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303, FLOWN DECEMBER 2, 1973 AND MAPPED APRIL 1, 1974.
 - ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL USING NATIONAL GEODETIC VERTICAL DATUM OF 1929, HORIZONTAL DATUM: NAD 83 NEW YORK STATE CENTRAL 3102.
 - ALL INVESTIGATION LOCATIONS SURVEYED BY HAWK ENGINEERING, P.C. BINGHAMTON, N.Y. EXCEPT THE FOLLOWING SEDIMENT PROBING AND SAMPLING LOCATIONS:
 - LOCATIONS WITH AN "SS" OR "SF" PREFIX;
 - LOCATIONS WITH A "-2" SUFFIX; AND
 - SEDIMENT SAMPLING LOCATIONS SED-1 AND SED-2.
 - ONLY WELLS INTERPRETED TO BE SCREENED IN THE SAND AND GRAVEL UNITS WERE USED FOR THESE CONTOURS.
 - CONTOUR INTERVAL = 0.2 FEET.
 - STORM SEWER LOCATION DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303, ENTITLED: PRELIMINARY REPORT, COMPREHENSIVE STORM DRAINAGE, EXISTING FACILITIES. PREPARED BY VERNON O. SHUMAKER, CONSULTING ENGINEER, VESTAL, NEW YORK, DATE NOT PROVIDED.



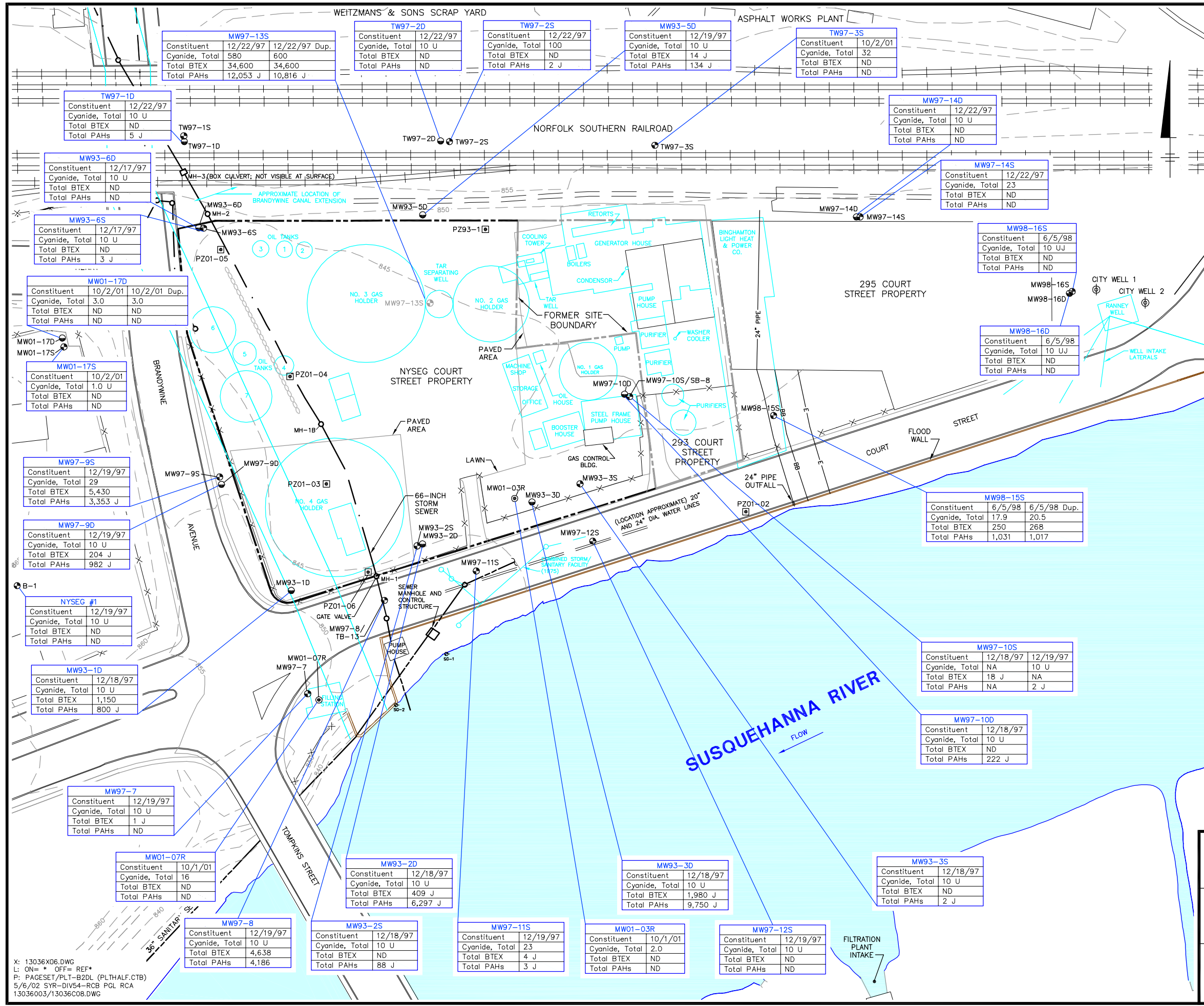
NEW YORK STATE ELECTRIC & GAS CORP.
 BINGHAMTON, NEW YORK
 COURT STREET SITE
 PHASE II SRI

**SAND AND GRAVEL UNIT
 GROUNDWATER POTENTIOMETRIC
 ELEVATION CONTOUR MAP -
 OCTOBER 1, 2001**

BBL
 BLASLAND, BOUCK & LEE, INC.
 engineers & scientists

FIGURE
12

X: 13036X06.DWG
 L: ON= * OFF= REF*
 P: PAGESET/PLT-B2DL (PLTHALF.CTB)
 5/6/02 SYR-DIV54-RCB PGL RCA
 13036003/13036T03.DWG



LEGEND

- FLOOD WALL
- RAILROAD TRACK
- FENCE
- SITE PROPERTY LINES (APPROXIMATE)
- SEWER LINE (APPROXIMATE)
- GROUND SURFACE ELEVATION CONTOUR (FT. AMSL)
- HISTORICAL FEATURE
- BURIED CONCRETE WALL
- MONITORING WELL (SHALLOW)
- MONITORING WELL (DEEP)
- MONITORING WELL (BEDROCK)
- PIEZOMETER
- CITY MONITORING WELL
- STAFF GAUGE
- DECOMMISSIONED MONITORING WELL

MW93-3S

Constituent	12/18/97
Cyanide, Total	10 U
Total BTEX	ND
Total PAHs	2 J

MW98-16S

Constituent	6/5/98
Cyanide, Total	10 UJ
Total BTEX	ND
Total PAHs	ND

MW98-16D

Constituent	6/5/98
Cyanide, Total	10 UJ
Total BTEX	ND
Total PAHs	ND

RESULTS ARE IN MICROGRAMS PER LITER (ug/L) EQUIVALENT TO PARTS PER BILLION (ppb)

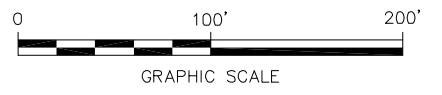
U CYANIDE CONCENTRATION WAS NOT DETECTED ABOVE THE INDICATED INSTRUMENT DETECTION LIMIT

ND CONCENTRATIONS WERE NOT DETECTED ABOVE THE INSTRUMENT DETECTION LIMIT

J ESTIMATED VALUE

Dup. DUPLICATE SAMPLE

- NOTES:
- BASE MAP PROVIDED BY NYSEG (JUNE 12, 1997).
 - SURFACE ELEVATIONS DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303, FLOWN DECEMBER 2, 1973 AND MAPPED APRIL 1, 1974.
 - ALL ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL USING NATIONAL GEODETIC VERTICAL DATUM OF 1929, HORIZONTAL DATUM: NAD 83 NEW YORK STATE CENTRAL 3102.
 - ALL INVESTIGATION LOCATIONS SURVEYED BY HAWK ENGINEERING, P.C. BINGHAMTON, N.Y. EXCEPT THE FOLLOWING SEDIMENT PROBING AND SAMPLING LOCATIONS:
 - LOCATIONS WITH AN "SS" OR "SF" PREFIX;
 - LOCATIONS WITH A "-2" SUFFIX; AND
 - SEDIMENT SAMPLING LOCATIONS SED-1 AND SED-2.



NEW YORK STATE ELECTRIC & GAS CORP.
 BINGHAMTON, NEW YORK
 COURT STREET SITE
 PHASE II SRI

SUMMARY OF GROUNDWATER ANALYTICAL DATA

BBL
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 engineers & scientists

FIGURE 13

X: 13036X06.DWG
 L: ON = OFF = REF*
 P: PAGESET/PLT-B2DL (PLTHALF.CTB)
 5/6/02 SYR-DIV54-RCB PGL RCA
 13036003/13036008.DWG

Attachment 2

Site Inspection Form

Binghamton (Court Street) Former MGP Site Binghamton, Broome County, New York Site-Wide Inspection Form

Date: 11-3-22
 Personnel: D. Meandro T. Platt
 Time of Arrival: 0900
 Time of Departure: 1530

Weather Conditions: 55° Sunny
 Temperature: 55°
 Wind Speed: ~10 mph
 Wind Direction (from): _____

Inspection Checklist	Yes	No	Comments
Cover System			
Intrusive Activities Being Performed?			
- Trenching?		X	
- Excavation?		X	
- Tunneling?		X	
- Saw cutting?		X	
Signs of Previous Intrusive Activities Performed?			
- New drainage feature?		X	
- Evidence of a new underground utility?		X	
- New grass/vegetation/asphalt?		X	
- Other (e.g., cracking, potholes, depressions)		X	
Monitoring Well Condition			
Groundwater monitoring needs to be performed this year?	X		
Covers secure?	X		
Casing in need of repair?		X	<i>Noted on gangway sheet</i>
Concrete surface seal intact?	X		
Settling in area around well?		X	
Well obstructed?		X	
Ponded water above well?		X	
Well screen silted in?		X	
Well in need of redevelopment?		X	

General Comments/Suggested Action Items:

Attachment 3

Sheen Monitoring Photo Log

Photograph Log

NYSEG
Binghamton Court St. Former MGP Site Operable Unit No. 2
Quarterly Sheen Monitoring



Photograph: 1

Description: OU-2
Remedial Area 1,
facing upstream, taken
from former Tompkins
Street Bridge abutment

Location: Binghamton
Court Street OU-2

Date: 3/4/2022

Time: 10:40 am



Photograph: 2

Description: OU-2
Remedial Area 1,
facing upstream, taken
from former Tompkins
Street Bridge abutment

Location: Binghamton
Court Street OU-2

Date: 3/4/2022

Time: 11:10 am

Photograph Log

NYSEG
Binghamton Court St. Former MGP Site Operable Unit No. 2
Quarterly Sheen Monitoring



Photograph: 1

Description: OU-2
Remedial Area 1,
facing upstream, taken
from former Tompkins
Street Bridge abutment

Location: Binghamton
Court Street OU-2

Date: 5/24/2022

Time: 11:38 am



Photograph: 2

Description: OU-2
Remedial Area 1,
facing upstream, taken
from former Tompkins
Street Bridge abutment

Location: Binghamton
Court Street OU-2

Date: 5/24/2022

Time: 12:08 pm

Photograph Log



NYSEG
Binghamton Court St. Former MGP Site Operable Unit No. 2
Quarterly Sheen Monitoring



Photograph: 1

Description: OU-2 Remedial Area 1, facing upstream, taken from former Tompkins Street Bridge abutment

Location: Binghamton Court Street OU-2

Date: 7/29/2022

Time: 10:35 am



Photograph: 2

Description: OU-2 Remedial Area 1, facing upstream, taken from former Tompkins Street Bridge abutment

Location: Binghamton Court Street OU-2

Date: 7/29/2022

Time: 10:56 pm

Photograph Log



NYSEG
Binghamton Court St. Former MGP Site Operable Unit No. 2
Quarterly Sheen Monitoring



Photograph: 1

Description: OU-2
Remedial Area 1,
facing upstream, taken
from former Tompkins
Street Bridge abutment

Location: Binghamton
Court Street OU-2

Date: 11/3/2022

Time: 09:34 am



Photograph: 2

Description: OU-2
Remedial Area 1,
facing upstream, taken
from former Tompkins
Street Bridge abutment

Location: Binghamton
Court Street OU-2

Date: 11/3/2022

Time: 11:46 am