Mr. Michael Squire
Division of Environmental Remediation
New York State Department of Environmental Conservation
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Albany, New York 12233

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Date: December 2, 2024
Our Ref: 30230453
Subject: **2024 Groundwater Sampling and Soil Cover Inspection Report**
New York State Electric and Gas
Waterville Former Manufactured Gas Plant Site
Waterville, New York

Dear Mr. Squire,

On behalf of New York State Electric and Gas (NYSEG), Arcadis of New York, Inc. (Arcadis) is pleased to present this annual report summarizing the results of groundwater sampling and soil cover inspection activities conducted in 2024 at the Waterville, New York manufactured gas plant site (the site). Relevant background information is provided below, followed by a discussion of the 2024 results and recommendations for the site.

Background

As required by the New York State Department of Environmental Conservation's (NYSDEC's) Record of Decision, issued in March 2002, NYSEG administered a 5-year post-interim remedial measure groundwater and soil cover monitoring program at the site. The 5-year monitoring program consisted of sampling eight monitoring wells for benzene, toluene, ethylbenzene, and xylenes (BTEX) and polycyclic aromatic hydrocarbons (PAHs) on a biannual basis from May 2002 to November 2006. NYSEG submitted an evaluation of the results of this monitoring program to the NYSDEC on May 8, 2007. Based on the NYSDEC's comments on this evaluation, NYSEG agreed (in a letter dated January 4, 2008) to revise the scope of the monitoring to annual sampling of one well (MW98-7D) and continuing with the soil cover inspections annually for an additional 5 years (until 2012). Based on the results of the supplemental 5-year groundwater monitoring program, which concluded in 2012, and discussions with the NYSDEC, NYSEG agreed to continue sampling groundwater from MW98-7D and conducting the soil cover inspections on an annual basis for an unspecified duration.

2024 Groundwater Sampling Event

Arcadis sampled groundwater from monitoring well MW98-7D and conducted site-wide synoptic water-level gauging on August 8, 2024. The location of the site monitoring wells and other pertinent site features can be found on Figure 1. Consistent with previous sampling events, the sampling from MW98-7D was conducted using low-flow purging techniques. The low-flow method consists of slowly purging water from the well at a rate of approximately 100 to 200 milliliters per minute until readings of the following field parameters stabilize: pH, dissolved oxygen, oxidation-reduction potential (ORP), turbidity, and conductivity. The table below presents the values for these field parameters at the time of sampling:

Well ID	pH (S.U.)	Temperature (°C)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	ORP (mV)	Turbidity (NTU)
MW98-7D	7.00	12.3	0.354	2.04	-107.3	8.04

Notes:
°C = degrees Celsius
mg/L = milligrams per liter
mS/cm = milliSiemens per centimeter
mV = milliVolts
NTU = Nephelometric Turbidity Units
S.U. = Standard Units

No problems arose during the groundwater sampling event. The groundwater sampling log and sampling chain-of-custody are provided in Attachment 1. The collected sample was analyzed for BTEX and PAHs by Eurofins of Buffalo, New York, in accordance with the NYSDEC Analytical Services Protocol. The laboratory-provided Category B deliverables and the data package was validated by Arcadis. The data validation concluded that the laboratory results are useable for their intended purpose. A copy of the Data Usability Summary Report can be provided upon request.

Historical analytical results for MW98-7D are summarized in Table 1 in comparison to NYSDEC Class GA Standards and Guidance Values (Class GA Standards). Consistent with previous sampling events, groundwater sampled from MW98-7D exceeded the Class GA Standards for all the BTEX compounds. Also consistent with previous events, several PAHs continue to be detected in the sample collected from well MW98-7D; however, only acenaphthene and naphthalene were detected at concentrations above the Class GA Standards for these compounds. The levels for both BTEX and PAHs were within the range of concentrations detected during the previous sampling rounds. As shown on the time-series graph provided in Attachment 2, dissolved-phase BTEX concentrations at MW98-7D have decreased since sampling began in 2004, and results from the August 8, 2024 event continue to remain low. Although concentrations of dissolved-phase PAHs increased when compared to the 2023 results, there continues to be an overall downward trend since sampling was initiated.

2024 Inspection of Soil Cover Area

On August 8, 2024, Arcadis also performed the annual inspection of the soil cover portion of the site, as required by the site's Record of Decision. Please refer to the photograph log in Attachment 3 for pictures of relevant features of the soil cover. As observed in previous years, the above-ground pool and small raised-bed garden (Photographs 1 and 2) behind 139 Babbott Avenue North are still present at the site. The rectangular gardens previously observed behind 139 Babbott Avenue North are no longer present (Photograph 2). A new metal chain-link fence has been installed along the south/southeast edge of the soil cover, as depicted on Figure 1 (Photographs 1, 2, 3, 4, and 5). Based on visual observations during the fieldwork, it appeared that the fence was installed by the cemetery. There were no visible gates for entering through the fence onto the 139 or the 145 Babbott Avenue North properties, and there is now an opening along the previously existing western fence leading up to the cemetery where there was once a gate. During a call on November 7, 2024, the Waterville Cemetery Association confirmed that the fence was installed by the cemetery. The Cemetery Association indicated that they were having a problem with motorized vehicles (All Terrain Vehicles) traversing the property and continuing up onto the main cemetery property and decided that a fence was necessary. The new fence appears to be located just outside the soil cover perimeter and not within the soil cover footprint. No additional

disturbances were observed during the 2024 inspection, and the soil cover appeared to be in good condition (Photographs 1, 3, 5, and 6).

Summary

The 2024 PAH analytical results for the groundwater sample collected from MW98-7D are slightly higher than the 2023 results but are within the range of concentrations historically detected at this well. Only acenaphthene and naphthalene were found to exceed the Class GA Standards for these compounds. BTEX concentrations remained low in 2024, compared to historical analytical results, but remained within the range of more recent sampling results observed in groundwater from this well. Consistent with previous years, BTEX concentrations exceeded Class GA Standards for each respective compound. There is a slightly downward overall trend for PAHs when reviewing historical data. Analytical data from the 2025 sampling event will be evaluated to determine if any discernible trends develop but are anticipated to remain relatively stable.

Aside from the disturbances caused by installation of the above-ground pool and the small rectangular garden observed since 2014, the soil cover appeared to be in good condition with no obvious damage. A new chain-link fence was installed along the southern boundary of the soil cover by the Waterville Cemetery Association.

The next groundwater sampling and soil cover inspection event is scheduled for the summer of 2025. If you have any questions, please feel free to contact John Ruspantini of NYSEG at 585.484.6787 or me at 315.671.9379.

Sincerely,
Arcadis of New York, Inc.

David A. Cornell
Senior Geologist

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Mobile: 315.439.6222

CC. John J. Ruspantini, CHMM, NYSEG
Keith A. White, C.P.G., Arcadis

Enclosures:

- Table 1 – Summary of Groundwater Sampling Results in Comparison to NYSDEC Class GA Standards and Guidance Values
- Figure 1 – Site Map
- Attachment 1 – Field Notes
- Attachment 2 – MW98-7D Time-Series Graph
- Attachment 3 – Soil Cover Inspection Photograph Log

Table

Table 1
Summary of Groundwater Sampling Results in Comparison to NYSDEC Class GA Standards and Guidance Values

2024 Groundwater Sampling and Soil Cover Inspection Report
Waterville Former MGP Site
Waterville, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Standards and Guidance Values	Units	MW98-7D 05/10/05	MW98-7D 11/10/05	MW98-7D 05/10/06	MW98-7D 11/07/06	MW98-7D 05/01/08	MW98-7D 05/28/09	MW98-7D 06/03/11
Detected Volatile Organics									
Benzene	1	ug/L	**160 [150]**	**90**	**140 [140]**	**110 [94]**	**140 D [120 D]**	**110 D08 [120 D08]**	**57 [170]**
Ethylbenzene	5	ug/L	**110 [110]**	**84**	**97 [93]**	**85 [66 J]**	**86 [81]**	**90 M7 [91]**	**36 [150]**
m&p-Xylene	- -	ug/L	NA	NA	NA	NA	**38 [36]**	**39 [40]**	**20 [62]**
o-Xylene	- -	ug/L	NA	NA	NA	NA	**52 [50]**	**52 M7 [53]**	**26 [77]**
Toluene	5	ug/L	**26 [28]**	**20 J**	**27 [26]**	**18 [16 J]**	**26 [24]**	**22 [23]**	**9.0 [34]**
Xylenes (total)	5	ug/L	**110 [110]**	**81**	**95 [91]**	**90 [64 J]**	NA	**92 M7 [93]**	**46 [140]**
Total BTEX	- -	ug/L	**406 [398]**	**275 J**	**359 [350]**	**303 [240 J]**	**342 [311]**	**314 [327]**	**148 [494]**
Detected Semivolatile Organics									
2-Methylnaphthalene	- -	ug/L	**110 [120]**	**140 [140]**	**130 [52]**	**100 J [82 J]**	**110 [97]**	**110 M7 [140 D08]**	NA
Acenaphthene	20	ug/L	**110 [110]**	**140 [140]**	**96 J [92]**	**140 [110]**	**120 [120]**	**120 D08 [140 D08]**	**130 [160]**
Acenaphthylene	- -	ug/L	**23 J [22 J]**	**24 J [23 J]**	**19 J [14 J]**	**19 J [15 J]**	**22 [22]**	**19 [25]**	**21 J [24 J]**
Anthracene	50	ug/L	**7.0 J [7.2 J]**	**11 J [11 J]**	**44 J [5.2 J]**	**8.7 J [7.6 J]**	**8.0 [9.0]**	**7.8 [9.6]**	**8.5 J [9.6 J]**
Dibenzofuran	- -	ug/L	NA	NA	NA	NA	**2.0 J [2.0 J]**	**2.3 [2.9]**	NA
Fluoranthene	50	ug/L	**2.6 J [2.3 J]**	100 U [100 U]	100 U [21 U]	**3.5 J [3.0 J]**	**3.0 J [3.0 J]**	**2.6 [3.2]**	48 U [48 U]
Fluorene	50	ug/L	**13 J [13 J]**	**100 U [17 J]**	**57 J [28]**	**14 J [12 J]**	**16 [15]**	**19 [24]**	**20 J [22 J]**
Naphthalene	10	ug/L	**970 [1,000]**	**1,200 [1,100]**	**910 [360]**	**1,300 [930]**	**1,100 D [980 D]**	**850 D08 [1,100 D08]**	**780 [1,000]**
Phenanthrene	50	ug/L	**44 J [42 J]**	**54 J [51 J]**	**75 J [39]**	**51 J [44 J]**	**46 [45]**	**44 [56]**	**59 [69]**
Pyrene	50	ug/L	**2.9 J [3.4 J]**	100 U [100 U]	100 U [21 U]	**4.1 J [3.1 J]**	**4.0 J [4.0 J]**	**3.0 [3.7]**	**3.3 J [3.7 J]**
Total PAHs	- -	ug/L	**1,280 J [1,320 J]**	**1,570 J [1,480 J]**	**1,330 J [590 J]**	**1,640 J [1,210 J]**	**1,430 J [1,300 J]**	**1,180 [1,500]**	**1,020 J [1,290 J]**
Detected Inorganics									
Iron	300	ug/L	**859**	**1,200**	**1,180**	**1,130**	NA	NA	NA
Manganese	300	ug/L	**1,130**	**1,390**	**1,380**	**1,220**	NA	NA	NA
Nitrate	- -	ug/L	100 U	100 U	**110**	100 U	NA	NA	NA
Sulfate	250,000	ug/L	5,000 U	5,000 U	5,000 U	5,000 U	NA	NA	NA
Total Organic Carbon	- -	ug/L	**1,700**	**1,800**	**2,100**	**1,700**	NA	NA	NA

See Notes on Page 3.

Table 1
Summary of Groundwater Sampling Results in Comparison to NYSDEC Class GA Standards and Guidance Values

2024 Groundwater Sampling and Soil Cover Inspection Report
Waterville Former MGP Site
Waterville, New York

Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Standards and Guidance Values	Units	MW98-7D 06/14/12	MW98-7D 06/28/13	MW98-7D 06/20/14	MW98-7D 07/09/15	MW98-7D 07/20/16	MW98-7D 06/15/17	MW98-7D 06/26/18
Detected Volatile Organics									
Benzene	1	ug/L	**90 J**	**8.9**	**17**	**68**	**39 J**	**130 DJ**	**48 [49]**
Ethylbenzene	5	ug/L	**97 J**	**6.3**	**11**	**66**	**48 J**	**110 DJ**	**47 [47]**
m&p-Xylene	- -	ug/L	**39**	**3.3**	**6.9**	**31**	**22**	**48 J**	**21 [21]**
o-Xylene	- -	ug/L	**54 J**	**4.2**	**10**	**43**	**30 J**	**62 J**	**29 [28]**
Toluene	5	ug/L	**18**	**2.2**	**3.3**	**15**	**9.7**	**37 J**	**11 [11]**
Xylenes (total)	5	ug/L	**93 J**	**7.5**	**17**	**74**	**52 J**	**110 J**	**50 [49]**
Total BTEX	- -	ug/L	**298 J**	**24.9**	**48.3**	**223**	**149 J**	**387 J**	**156 [156]**
Detected Semivolatile Organics									
2-Methylnaphthalene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	20	ug/L	**86 J**	**120 D**	**61**	**35 J**	**100 EJ**	**150 EJ**	**88 DJ [62]**
Acenaphthylene	- -	ug/L	**12 J**	**20**	**5.6**	**0.66 J**	**18**	**27**	**18 [13]**
Anthracene	50	ug/L	**6.3 J**	**7.7**	**4.2**	**4.9 J**	**7.8**	**9.1**	**6.9 [4.9 J]**
Dibenzofuran	- -	ug/L	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	50	ug/L	49 U	**2.7 J**	**1.7 J**	**1.7 J**	**2.6 J**	**3.1 J**	**2.4 J [1.7 J]**
Fluorene	50	ug/L	**15 J**	**18**	**8.5**	**9.7**	**14**	**15**	**9.4 [7.2]**
Naphthalene	10	ug/L	**600**	**990 D**	1.9 U	**0.86 J**	**640 D**	**910 D**	**440 D [370 D]**
Phenanthrene	50	ug/L	**37 J**	**49**	**23**	**24**	**45**	**58 J**	**39 J [29]**
Pyrene	50	ug/L	49 U	**3.4 J**	**2.2**	**2.0 J**	**2.8 J**	**4.0 J**	**2.7 J [2.0 J]**
Total PAHs	- -	ug/L	**756 J**	**1,210 J**	**106 J**	**78.8 J**	**830 J**	**1,180 J**	**606 J [490 J]**
Detected Inorganics									
Iron	300	ug/L	NA	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA	NA
Nitrate	- -	ug/L	NA	NA	NA	NA	NA	NA	NA
Sulfate	250,000	ug/L	NA	NA	NA	NA	NA	NA	NA
Total Organic Carbon	- -	ug/L	NA	NA	NA	NA	NA	NA	NA

See Notes on Page 3.

Table 1
Summary of Groundwater Sampling Results in Comparison to NYSDEC Class GA Standards and Guidance Values

2024 Groundwater Sampling and Soil Cover Inspection Report
Waterville Former MGP Site
Waterville, New York

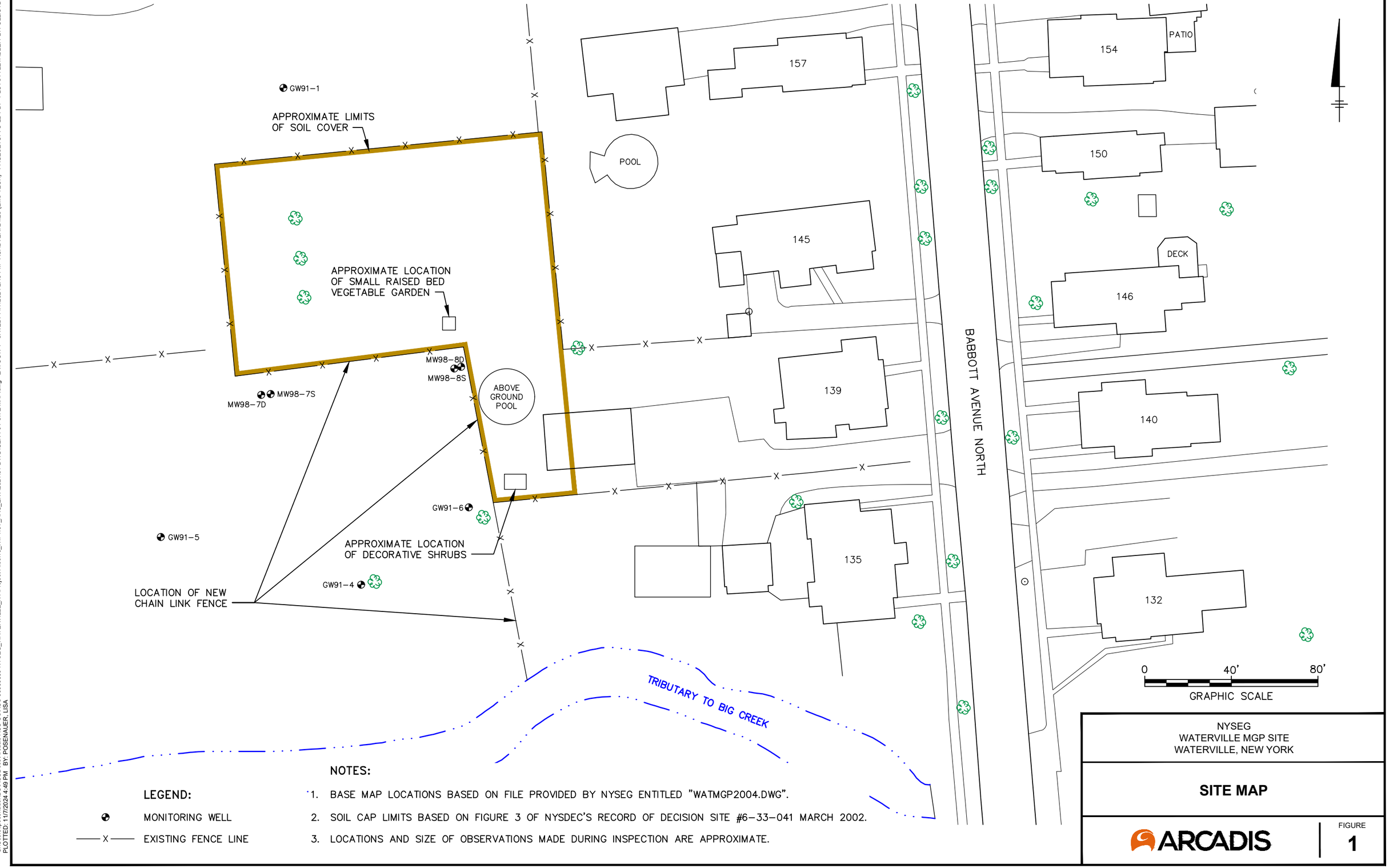
Location ID: / Date Collected:	NYSDEC TOGS 1.1.1 Water Standards and Guidance Values	Units	MW98-7D 06/13/19	MW98-7D 07/15/20	MW98-7D 07/01/21	MW98-7D 07/07/22	MW98-7D 07/06/23	MW98-7D 08/08/24
Detected Volatile Organics								
Benzene	1	ug/L	**93 [88]**	**45 [44]**	**49 [48]**	**54 [56]**	**39 [42]**	**37 [36]**
Ethylbenzene	5	ug/L	**97 J [92]**	**68 [66]**	**79 [75]**	**82 [81]**	**58 [65]**	**57 [57]**
m&p-Xylene	- -	ug/L	**38 [35]**	**27 [26]**	**29 [29]**	**35 [33]**	**22 [25]**	**22 [22]**
o-Xylene	- -	ug/L	**52 [51]**	**41 [39]**	**41 [40]**	**44 [45]**	**30 [34]**	**31 [32]**
Toluene	5	ug/L	**22 [22]**	**14 [14]**	**16 [15]**	**18 [19]**	**11 [13]**	**14 [13]**
Xylenes (total)	5	ug/L	**90 [86]**	**68 [65]**	**70 [69]**	**79 [78]**	**52 [59]**	**53 [54]**
Total BTEX	- -	ug/L	**302 J [288]**	**195 [189]**	**214 [207]**	**233 [234]**	**160 [180]**	**160 [160]**
Detected Semivolatile Organics								
2-Methylnaphthalene	- -	ug/L	NA	NA	NA	NA	NA	NA
Acenaphthene	20	ug/L	**86 J [75 J]**	**80 J [72 J]**	**170 J [180 J]**	**120 J [130 J]**	**76 [91]**	**64 [61]**
Acenaphthylene	- -	ug/L	**9.6 J [8.5 J]**	**15 J [15 J]**	**25 [25]**	**19 [21J]**	**11 [15]**	**8.7 J [8.6]**
Anthracene	50	ug/L	**6.3 J [6.0 J]**	**7.9 J [5.8 J]**	**8.8 [9]**	14U [14 U]	**7.8 [8.5]**	**5.2 J [4.0 J]**
Dibenzofuran	- -	ug/L	NA	NA	NA	NA	NA	NA
Fluoranthene	50	ug/L	100 UJ [100 U]	100 U [100 U]	**3.3 J [3.6 J]**	20 U [20 U]	**2.7 J [2.8 J]**	ND **[1.5 J]**
Fluorene	50	ug/L	100 UB [100 UB]	**8.6 J [8.4 J]**	**15 [15]**	18 U [18 U]	**8.9 [11]**	**6.0 J [6.1]**
Naphthalene	10	ug/L	100 U [100 U]	**590 [540]**	**630 D [800 D]**	**230 D [270 D]**	**51 [92]**	**310 [240 E]**
Phenanthrene	50	ug/L	100 UBJ [100 UB]	**27 J [25 J]**	**55 J [59 J]**	**49 J [51 J]**	**40 [43]**	**25 [24]**
Pyrene	50	ug/L	100 UJ [100 U]	100 U [100 U]	**3.9 J [4 J]**	17 U [17 U]	**3.2 J [3.4 J]**	**1.9 J [1.9 J]**
Total PAHs	- -	ug/L	**102 J [89.5 J]**	**729 J [666 J]**	**911 J [1096 J]**	**418 J [472 J]**	**201 J [267 J]**	**421 J [347 J]**
Detected Inorganics								
Iron	300	ug/L	NA	NA	NA	NA	NA	NA
Manganese	300	ug/L	NA	NA	NA	NA	NA	NA
Nitrate	- -	ug/L	NA	NA	NA	NA	NA	NA
Sulfate	250,000	ug/L	NA	NA	NA	NA	NA	NA
Total Organic Carbon	- -	ug/L	NA	NA	NA	NA	NA	NA

Acronyms and Abbreviations:
- - = No standards exist for analyte.
[ ] = duplicate sample
BTEX = benzene, toluene, ethylbenzene, and xylenes
NA = Not Analyzed
ND = Not Detected
NYSDEC = New York State Department of Environmental Conservation
PAH = polycyclic aromatic hydrocarbon
TOGS 1.1.1 = Technical and Operational Guidance Series (1.1.1) (NYSDEC 1998)
ug/L = micrograms per liter

Laboratory Qualifiers:
D = Compound quantitated using a secondary dilution.
D08 = Compound quantitated using a secondary dilution.
E = Analyte exceeded calibration range.
J = Indicates an estimated value.
U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

References:
NYSDEC. 1998. Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations. June.

Figure



LEGEND:

- MONITORING WELL
- EXISTING FENCE LINE

NOTES:

1. BASE MAP LOCATIONS BASED ON FILE PROVIDED BY NYSEG ENTITLED "WATMGP2004.DWG".
2. SOIL CAP LIMITS BASED ON FIGURE 3 OF NYSDEC'S RECORD OF DECISION SITE #6–33–041 MARCH 2002.
3. LOCATIONS AND SIZE OF OBSERVATIONS MADE DURING INSPECTION ARE APPROXIMATE.

NYSEG
WATERVILLE MGP SITE
WATERVILLE, NEW YORK

SITE MAP

ARCADIS

FIGURE
1

Attachment 1

Field Notes

Site

Event

GROUND-WATER SAMPLING LOG

Sampling Personnel: DRM
Client / Job Number:
Weather: 70° Rain

Well ID: MW-98-7D
Date: 8-8-24
Time In: 1015 Time Out:

Well Information

Depth to Water:	(feet) 7.15	(from MP)	
Total Depth:	(feet) 18.46	(from MP)	
Length of Water Column:	(feet) 11.32		
Volume of Water in Well:	(gal) 1.85		
Three Well Volumes:	(gal) 5.55		

Well Type:		Flushmount		Stick-Up
Well Material:	Stainless Steel			PVC
Well Locked:		Yes		No
Measuring Point Marked:		Yes		No
Well Diameter:	1"	2"	Other:	

Purging Information

Purging Method:	Bailer	Peristaltic	Waterra	Other:
Tubing/Bailer Material:	Steel	Polyethylene	Teflon	Other:
Sampling Method:	Bailer	Peristaltic	Waterra	Other:
Duration of Pumping:	(min) 73			
Average Pumping Rate:	(ml/min) 150	Water-Quality Meter Type:	YSI Pro	
Total Volume Removed:	~~(gal)~~ 9 Litres	Did well go dry:	Yes	No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	±10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
	1025	1030	1035	1040	1045	1050	1055	1100	1105
Volume Purged (~~gal~~) Litres	0.75	1.5	2.25	3.0	3.75	4.5	5.25	6.0	6.75
Rate (mL/min)	150	150	150	150	150	150	150	150	150
Depth to Water (ft.)	7.93	9.03	9.62	9.80	9.81	9.81	9.81	9.81	9.81
pH	8.17	7.11	6.93	6.85	6.94	6.97	6.99	7.02	7.02
Temp. (C)	12.2	11.9	11.9	12.0	12.2	12.3	12.4	12.3	12.4
Conductivity (mS/cm)	0.184	0.162	0.149	0.159	0.333	0.339	0.343	0.347	0.347
Dissolved Oxygen (mg/L)	8.26	6.86	6.61	6.58	3.11	2.89	2.72	2.43	2.18
ORP (mV)	210.7	239.4	255.5	269.1	-76.7	-82.4	-97.2	-103.6	-106.6
Turbidity (NTU)	24.9	17.8	16.4	19.9	22.3	24.6	17.6	12.4	7.88
Notes:									

Sampling Information

Analyses	#	Laboratory
8260C	3	Eurofins
8270D	2	"
Sample ID: MW-98-7D	Sample Time: 1120	
MS/MSD: (Yes)	No	
Duplicate: (Yes)	No	
Duplicate ID DUP-080824	Dup. Time: 1121	
Chain of Custody Signed By:		

Problems / Observations

Pump on @ 1022
Pump off @ 1135

Site

Event

GROUND-WATER SAMPLING LOG

Sampling Personnel:

Well ID: MW-98-7D

Client / Job Number:

Date:

Weather:

Time In: Time Out:

Well Information

Depth to Water:	(feet)	(from MP)
Total Depth:	(feet)	(from MP)
Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Three Well Volumes:	(gal)	

Well Type:	Flushmount	Stick-Up
Well Material:	Stainless Steel	PVC
Well Locked:	Yes	No
Measuring Point Marked:	Yes	No
Well Diameter:	1" 2"	Other:

Purging Information

Purging Method:	Bailer	Peristaltic	Waterra	Other:
Tubing/Bailer Material:	Steel	Polyethylene	Teflon	Other:
Sampling Method:	Bailer	Peristaltic	Waterra	Other:
Duration of Pumping:	(min)			
Average Pumping Rate:	(ml/min)	Water-Quality Meter Type:		
Total Volume Removed:	(gal)	Did well go dry:	Yes	No

Conversion Factors				
gal / ft. of water	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469
1 gal = 3.785 L =3785 ml = 0.1337 cubic feet				

Unit Stability			
pH	DO	Cond.	ORP
± 0.1	±10%	± 3.0%	± 10 mV

Parameter:	1	2	3	4	5	6	7	8	9
	1110	1115							
Volume Purged (gal)	7.5	8.25							
Rate (mL/min)	150	150							
Depth to Water (ft.)	9.81	9.81							
pH	7.01	7.00							
Temp. (C)	12.2	12.3							
Conductivity (mS/cm)	0.351	0.354							
Dissolved Oxygen (mg/L)	2.13	2.04							
ORP (mV)	-106.6	-107.3							
Turbidity (NTU)	8.31	8.04							
Notes:									

Sampling Information

Analyses	#	Laboratory

Sample ID:	Sample Time:	
MS/MSD:	Yes	No
Duplicate:	Yes	No
Duplicate ID	Dup. Time:	
Chain of Custody Signed By:		

Problems / Observations

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins
Environment Testing

Syracuse

#225

Client Information	Sampler: D. Meandso	Lab PM: Schove, John R	Carrier Tracking No(s):	COC No: 480-186733-35720.1
Client Contact: Mr. David Cornell	Phone: 315-992-0568	E-Mail: John.Schove@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Arcadis U.S., Inc.	PWSID:			Job #:
Address: One Lincoln Center 110 West Fayette St, Suite 300	Due Date Requested:			
City: Syracuse	TAT Requested (days): 10 Day Standard			
State, Zip: NY, 13202	Compliance Project: Δ Yes Δ No			
Phone: 315-671-9379(Tel)	PO #: Purchase Order not required			
Email: david.cornell@arcadis.com	WO #: 30181850.061923			
Project Name: NYSEG Waterville - GW Sampling	Project #: 48024006			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
N - None
A - HCL

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - PAH Semivolatiles	8260C - BTEX	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	A		
MW-98-7D	8-8-24	1120	G	Water		X	X	X	15	
DUP-080824	8-8-24	-	G	Water			X	X	5	
TRIP BLANK	-	-	G	Water				X	2	
				Water						
				Water						
				Water						

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	8-8-24 1465	ARM	[signature]	8.8.24, 1405	EyA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

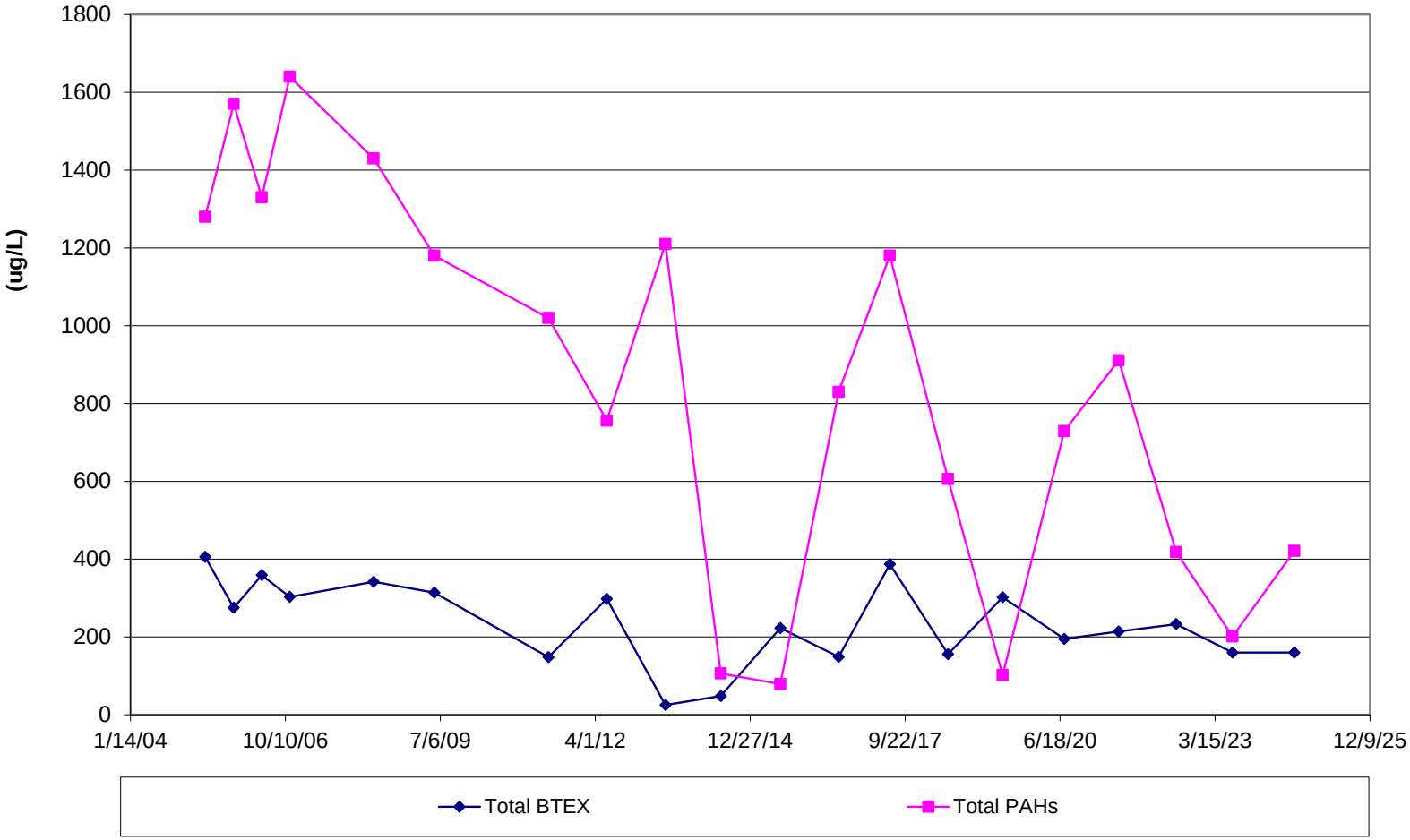
Ver: 04/02/2024

Attachment 2

MW98-7D Time Series Graph

TOTAL BTEX & PAH CONCENTRATION OVER TIME
MONITORING WELL - MW98-7D

2024 GROUNDWATER SAMPLING & SOIL COVER INSPECTION REPORT
NYSEG
WATERVILLE FORMER MGP SITE
WATERVILLE, NEW YORK



Attachment 3

Soil Cover Inspection Photograph Log

SOIL COVER INSPECTION PHOTOGRAPH LOG

CLIENT: NYSEG	**SITE NAME: Waterville Former MGP Site**
PROJECT #: 30230453	**SITE LOCATION: Waterville, New York**
PHOTOGRAPH #: 1	
PHOTOGRAPHER: DM	
DATE: 08/8/2024	
DIRECTION: South	
COMMENT: View of soil cover looking south behind 139 and 145 Babbott Avenue North. Above-ground swimming pool, small raised-bed vegetable garden, and new fence to the right of the pool in the background behind 139 Babbott Avenue.	

CLIENT: NYSEG	**SITE NAME: Waterville Former MGP Site**
PROJECT #: 30230453	**SITE LOCATION: Waterville, New York**
PHOTOGRAPH #: 2	
PHOTOGRAPHER: DM	
DATE: 08/8/2024	
DIRECTION: East	
COMMENT: View of swimming pool, small vegetable garden, and new fence behind 139 Babbott Avenue North. Location of former rectangular gardens behind 139 Babbott Avenue North property in the foreground.	

CLIENT: NYSEG	**SITE NAME: Waterville Former MGP Site**
PROJECT #: 30230453	**SITE LOCATION: Waterville, New York**
PHOTOGRAPH #: 3	
PHOTOGRAPHER: DM	
DATE: 08/8/2024	
DIRECTION: North	
COMMENT: View of soil cover beyond new fence looking north.	

CLIENT: NYSEG	**SITE NAME: Waterville Former MGP Site**
PROJECT #: 30230453	**SITE LOCATION: Waterville, New York**
PHOTOGRAPH #: 4	
PHOTOGRAPHER: DM	
DATE: 08/8/2024	
DIRECTION: East	
COMMENT View of new fence behind 139 Babbott Avenue North property.	

CLIENT: NYSEG	**SITE NAME: Waterville Former MGP Site**
PROJECT #: 30230453	**SITE LOCATION: Waterville, New York**
PHOTOGRAPH #: 5	
PHOTOGRAPHER: DM	
DATE: 08/8/2024	
DIRECTION: Northeast	
COMMENT: View of soil cover and new fence looking northeast.	

CLIENT: NYSEG	**SITE NAME: Waterville Former MGP Site**
PROJECT #: 30230453	**SITE LOCATION: Waterville, New York**
PHOTOGRAPH #: 6	
PHOTOGRAPHER: DM	
DATE: 08/8/2024	
DIRECTION: Southwest	
COMMENT: View of soil cover looking southwest.	