

Mr. Michael Squire Division of Environmental Remediation New York State Department of Environmental Conservation 625 Broadway Albany, New York 12233

Subject: 2020 Groundwater Sampling & Soil Cover Inspection Report Waterville Former MGP Site Waterville, New York

Dear Mr. Squire:

On behalf of 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 2020 at the Waterville manufactured gas plant (MGP) site. Relevant background information is provided below, followed by a discussion of the 2020 results and recommendations for the site.

BACKGROUND

As required by the New York State Department of Environmental Conservation's (NYSDEC's) Record of Decision (ROD) issued in March 2002, NYSEG administered a 5-year post- interim remedial measure (IRM) groundwater and soil cover monitoring program at the Waterville, New York Former MGP site. The 5-year monitoring program consisted of sampling eight monitoring wells for BTEX (benzene, toluene, ethylbenzene, and xylenes) and PAHs (polycyclic aromatic hydrocarbons) 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 sampling just 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 concluding 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.

2020 GROUNDWATER SAMPLING EVENT

Arcadis sampled groundwater from monitoring well MW98-7D and conducted site wide synoptic water-level gauging on July 15, 2020. The location of site monitoring wells and other pertinent site features can be found on Figure 1. Measured water levels were observed to be within the range of historical levels. Depending on location, the depth to water is generally between 5 to 12 feet below grade.

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ENVIRONMENT

Date: November 19, 2020

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Our ref: 30003362.00001 Mr. Michael Squire New York State Department of Environmental Conservation November 19, 2020

Consistent with the 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 (mL/min) 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	рН	Temperature	Conductivity	Dissolved Oxygen	ORP	Turbidity
	(S.U.)	(°C)	(mS/cm)	(mg/L)	(mV)	(NTU)
MW98-7D	7.07	13.8	0.403	0.20	-85.2	3.71

Notes:

S.U. = Standard Units. °C = degrees Celsius. mS/cm = milliSiemens per centimeter.

mg/L = milligrams per liter. mV = milliVolts. NTU = Nephelometric Turbidity Units.

No problems arose during the groundwater sampling event. The groundwater sampling log, field notes, and sampling chain-of-custody are provided in Attachment 1. The collected sample was analyzed for BTEX and PAHs by Eurofins TestAmerica, Buffalo of Amherst, New York in accordance with NYSDEC Analytical Services Protocol (ASP). 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 (DUSR) 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 Values¹. Consistent with previous sampling events, groundwater sampled from MW98-7D exceeded the NYSDEC Class GA Standards for all of the BTEX compounds. Also consistent with previous events, several PAHs continue to be detected in the sample collected from well MW98-7D. While trace amounts of individual PAHs continue to be detected, only acenaphthene and naphthalene were detected at concentrations above the NYSDEC Class GA Guidance Value 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, there is no discernable trend in dissolved-phase BTEX concentrations at MW98-7D since sampling began in 2004; however, there does appear to be an overall slow downward trend in the concentration of dissolved phase PAHs.

2020 RECONNAISSANCE OF SOIL COVER AREA

On July 15, 2020, Arcadis also performed the annual reconnaissance of the soil cover portion of the site, as required by the site's ROD. Findings of the reconnaissance were generally consistent with those found during previous years. Please refer to the photographic log in Attachment 3 for pictures of relevant features of the soil cover. Tire ruts that are typically observed during the annual events were not observed in the southwest corner of the property, likely due to the relatively dry weather conditions in 2020.

As reported since the 2014 inspection report, the above-ground pool (Photo #1) installed behind the 139 Babbott Avenue property and small raised-bed vegetable garden (Photo #2) behind 145 Babbott Avenue are all still present on-site. The vegetable garden behind 139 Babbott Avenue observed since 2018 is also still present east of monitoring well CW91-6 (Photo #3), however, it no longer appears to be a raised-bed garden. New in 2020 is the appearance on a small vegetable garden immediately south of the small

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¹ The NYSDEC Class GA Guidance Values are published in the NYSDEC Division of Water Technical and Operational Guidance Series (1.1.1) Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations; reissued June 1998 and revised in April 2000 and June 2004.

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Mr. Michael Squire New York State Department of Environmental Conservation November 19, 2020

raised-bed vegetable garden at 145 Babbott Avenue and immediately north of the MW98-8 well cluster (Photo #4). Also new in 2020 is the appearance to four rectangular raised-bed vegetable gardens west of the aboveground pool behind 139 Babbott Avenue (Photo #4). Both of the new gardens appear to be immediately outside of the soil cover footprint. No additional disturbances were observed during the 2020 inspection and the soil cover appeared in good condition (Photos #5 & 6).

SUMMARY

The 2020 PAH analytical results for the groundwater sample collected from MW98-7D are higher than the 2019 results but are within the range of concentrations historically detected at this well. Only acenaphthene and naphthalene were found to exceed Class GA Guidance Values for these compounds. BTEX concentrations decreased slightly in 2020 compared to analytical results from 2019, but remained within the range of historical BTEX concentrations observed in groundwater from this well. Consistent with previous years, BTEX concentrations exceeded Class GA Standards for each respective compound. Analytical data from the 2021 BTEX and PAH results will be evaluated to determine if any concentration trends become apparent.

Aside from the disturbances caused by the installation of the above-ground pool and vegetable gardens, the soil cover appeared to be in good condition with no obvious damage.

The next groundwater sampling and soil cover inspection event is scheduled for the summer of 2021. 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

^{Copies:} 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

Attachments

- 1 Field Notes
- 2 MW98-7D Time-Series Graph
- 3 Soil Cover Inspection Photograph Log

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TABLE

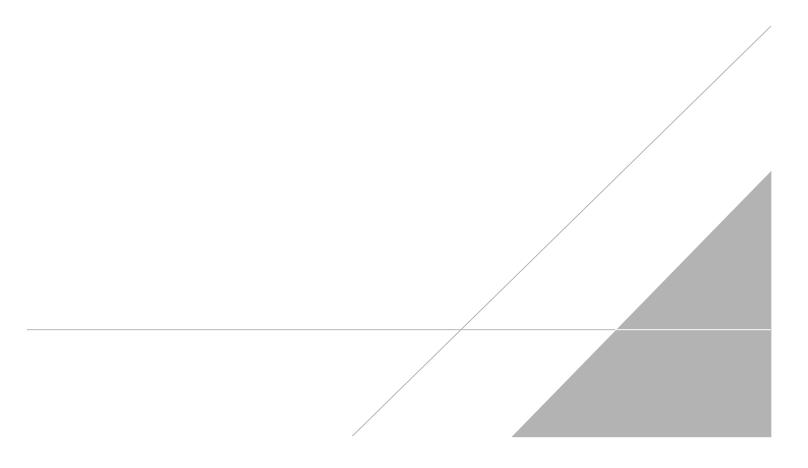


Table 1 Summary of Groundwater Sampling Results in Comparison to NYSDEC Class GA Standards and Guidance Values



2020 Groundwater Sampling and Soil Cover Inspection Report Waterville Former MGP Site Waterville, New York

Location ID: Date Collected:		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	MW98-7D 06/14/12
Detected Volatile Organic	s									
Benzene	1	ug/L	160 [150]	90	140 [140]	110 [94]	140 D [120 D]	110 D08 [120 D08]	57 [170]	90 J
Ethylbenzene	5	ug/L	110 [110]	84	97 [93]	85 [66 J]	86 [81]	90 M7 [91]	36 [150]	97 J
m&p-Xylene		ug/L	NA	NA	NA	NA	38 [36]	39 [40]	20 [62]	39
o-Xylene		ug/L	NA	NA	NA	NA	52 [50]	52 M7 [53]	26 [77]	54 J
Toluene	5	ug/L	26 [28]	20 J	27 [26]	18 [16 J]	26 [24]	22 [23]	9.0 [34]	18
Xylenes (total)	5	ug/L	110 [110]	81	95 [91]	90 [64 J]	NA	92 M7 [93]	46 [140]	93 J
Total BTEX		ug/L	406 [398]	275 J	359 [350]	303 [240 J]	342 [311]	314 [327]	148 [494]	298 J
Detected Semivolatile Or	ganics									
2-Methylnaphthalene		ug/L	110 [120]	140 [140]	130 [52]	100 J [82 J]	110 [97]	110 M7 [140 D08]	NA	NA
Acenaphthene	20	ug/L	110 [110]	140 [140]	96 J [92]	140 [110]	120 [120]	120 D08 [140 D08]	130 [160]	86 J
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]	12 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]	6.3 J
Dibenzofuran		ug/L	NA	NA	NA	NA	2.0 J [2.0 J]	2.3 [2.9]	NA	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]	49 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]	15 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]	600
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]	37 J
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]	49 U
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]	756 J
Detected Inorganics										
Iron	300	ug/L	859	1,200	1,180	1,130	NA	NA	NA	NA
Manganese	300	ug/L	1,130	1,390	1,380	1,220	NA	NA	NA	NA
Nitrate		ug/L	100 U	100 U	110	100 U	NA	NA	NA	NA
Sulfate	250,000	ug/L	5,000 U	5,000 U	5,000 U	5,000 U	NA	NA	NA	NA
Total Organic Carbon		ug/L	1,700	1,800	2,100	1,700	NA	NA	NA	NA

See Notes on Page 2.

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



2020 Groundwater Sampling and Soil Cover Inspection Report Waterville Former MGP Site Waterville, New York

	NYSDEC TOGS 1.1.1 Water Guidance Values	Units	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	MW98-7D 06/13/19	MW98-7D 07/15/20
Detected Volatile Organic	cs									
Benzene	1	ug/L	8.9	17	68	39 J	130 DJ	48 [49]	93 [88]	45 [44]
Ethylbenzene	5	ug/L	6.3	11	66	48 J	110 DJ	47 [47]	97 J [92]	68 [66]
m&p-Xylene		ug/L	3.3	6.9	31	22	48 J	21 [21]	38 [35]	27 [26]
o-Xylene		ug/L	4.2	10	43	30 J	62 J	29 [28]	52 [51]	41 [39]
Toluene	5	ug/L	2.2	3.3	15	9.7	37 J	11 [11]	22 [22]	14 [14]
Xylenes (total)	5	ug/L	7.5	17	74	52 J	110 J	50 [49]	90 [86]	68 [65]
Total BTEX		ug/L	24.9	48.3	223	149 J	387 J	156 [156]	302 J [288]	195 [189]
Detected Semivolatile Or	ganics									
2-Methylnaphthalene		ug/L	NA							
Acenaphthene	20	ug/L	120 D	61	35 J	100 EJ	150 EJ	88 DJ [62]	86 J [75 J]	80 J [72 J]
Acenaphthylene		ug/L	20	5.6	0.66 J	18	27	18 [13]	9.6 J [8.5 J]	15 J [15 J]
Anthracene	50	ug/L	7.7	4.2	4.9 J	7.8	9.1	6.9 [4.9 J]	6.3 J [6.0 J]	7.9 J [5.8 J]
Dibenzofuran		ug/L	NA							
Fluoranthene	50	ug/L	2.7 J	1.7 J	1.7 J	2.6 J	3.1 J	2.4 J [1.7 J]	100 UJ [100 U]	100 U [100 U]
Fluorene	50	ug/L	18	8.5	9.7	14	15	9.4 [7.2]	100 UB [100 UB]	8.6 J [8.4 J]
Naphthalene	10	ug/L	990 D	1.9 U	0.86 J	640 D	910 D	440 D [370 D]	100 U [100 U]	590 [540]
Phenanthrene	50	ug/L	49	23	24	45	58 J	39 J [29]	100 UBJ [100 UB]	27 J [25 J]
Pyrene	50	ug/L	3.4 J	2.2	2.0 J	2.8 J	4.0 J	2.7 J [2.0 J]	100 UJ [100 U]	100 U [100 U]
Total PAHs		ug/L	1,210 J	106 J	78.8 J	830 J	1,180 J	606 J [490 J]	102 J [89.5 J]	729 J [666 J]
Detected Inorganics										
Iron	300	ug/L	NA							
Manganese	300	ug/L	NA							
Nitrate		ug/L	NA							
Sulfate	250,000	ug/L	NA							
Total Organic Carbon		ug/L	NA							

Notes:

D = Compound quantitated using a secondary dilution.

D08 = Compound quantitated using a secondary dilution.

E = Analyte exceeded calibration range.

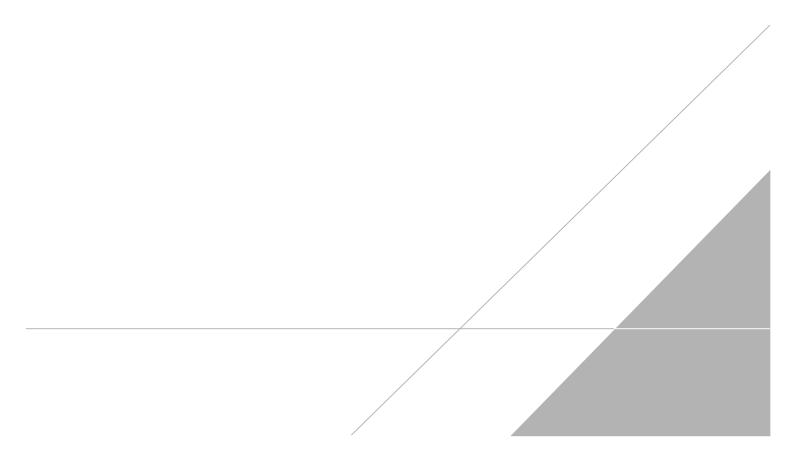
J = Indicates an estimated value.

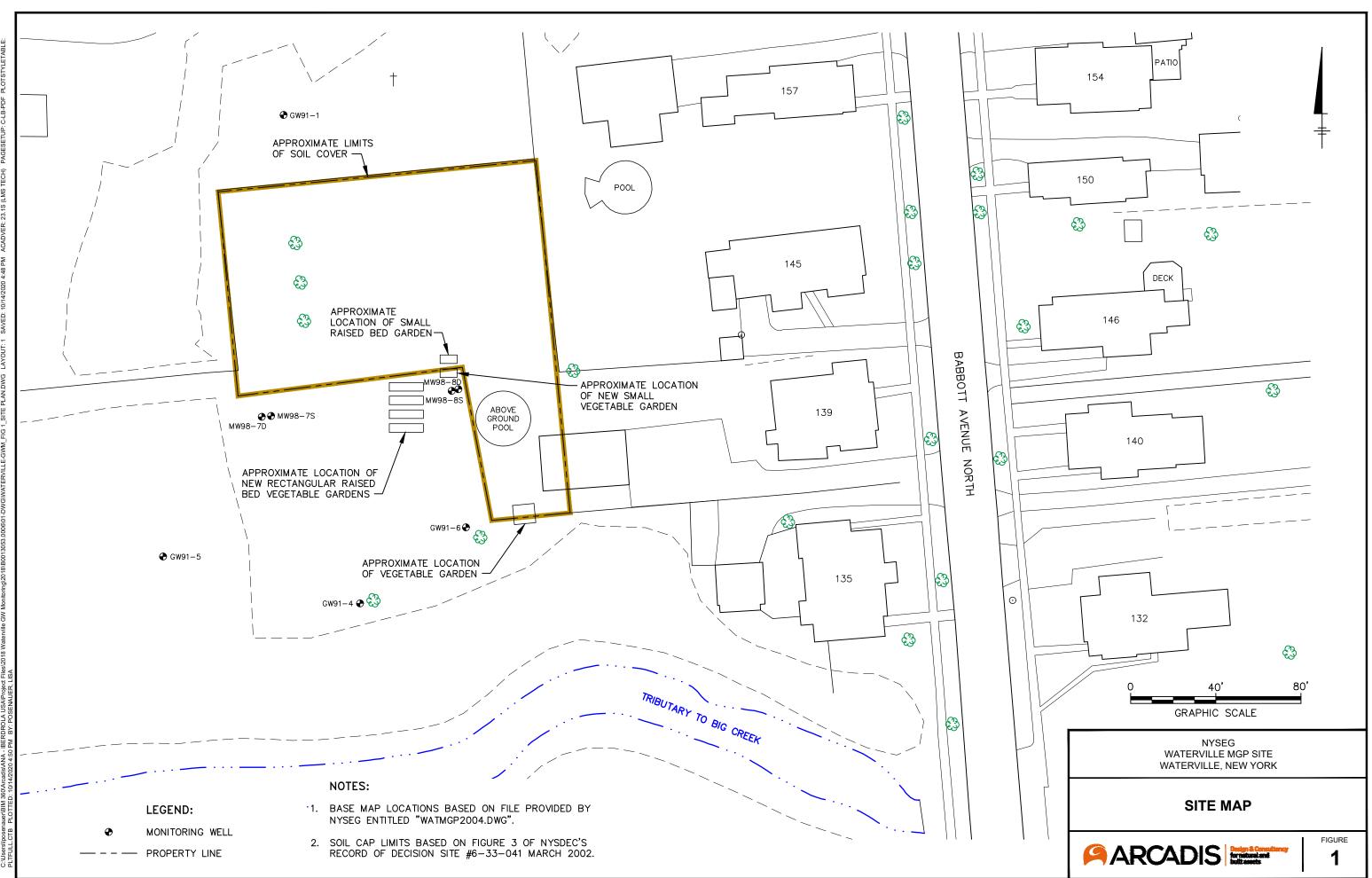
U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

- [] = duplicate sample
- NA = Not Analyzed

ug/L = micrograms per liter

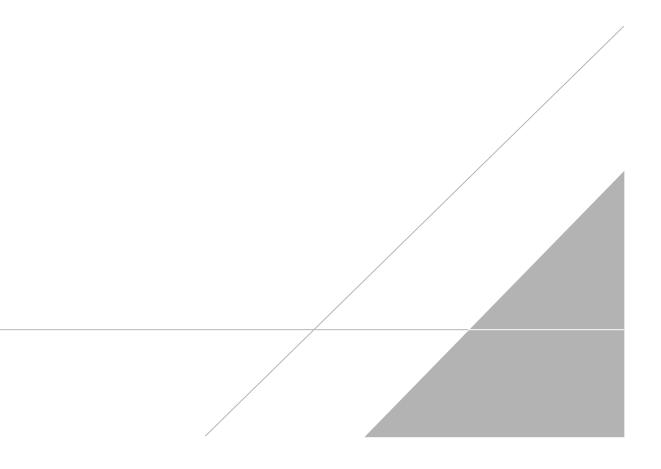
FIGURE





ATTACHMENT 1

Field Notes



NYSEG- Waterville, NY

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				Grundfos	and the second s	Carry Services and					
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Duration of Pumping: 55 Average Pumping Rate: 200 Total Volume	(min)	Pensta	Water-Qualit	*	Other:		1 gal = 3 pH ±0.1	1	115	d.	ORP 10 mV
Duration of Pumping: 55 Average Pumping Rate: 200 Total Volume Removed: 2.8	(min) (ml/min)	Pensta	Water-Qualit	ty Meter Type:	Y \$1	Ng	рН	Uni DO	t Stabilit Con	d.	ORP
Duration of Pumping: 55 Average Pumping Rate: 200 Total Volume	(min) (ml/min)	1315 ²	Water-Qualit	ty Meter Type:	YS1 Yes		рН	Uni DO ± 10%	t Stabilit Con	y d.)% ±	ORP
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Duration of Pumping: 55 Average Pumping Rate: 200 Total Volume Removed: 2.8 Time: Parameter: Volume Purged (mL) Rate (mL/min) Depth to Water (ft.) pH Temp. (c) Conductivity (mS/cm)	(min) (ml/min) (gal) 1310 0.0 2.00 7.67	1315 ² 0.15 2.00 8.91	Water-Quality 1320 0,50 9.50 9.50 9.50 9.50 13.5 0.213	ty Meter Type: id well go dry: 1325 0.75 200 9.26 6.97 14-3 0.240	Y83 Y83 1330 1.w 200 9.26 6.9(c 14.(c) 0.512	1335 1.25 200 9.26 7.00 14.0 0.33	рн ±0.1 1.3 9. 9. 14. 14. 14.	Uni DO ± 10% 40 50 00 26 97 6 7 10 10 10 10 10 10 10 10 10 10	134 1.7 201 9.2 7.0 14. 0.3	× 4. 5. 5. 5. 6. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	ORP 10 mV 2.0 2.0 7.0 7.0 14-9 0.3
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TH APPORTUNE DESCRIPTION

NYSEG - Waterville, NY Site

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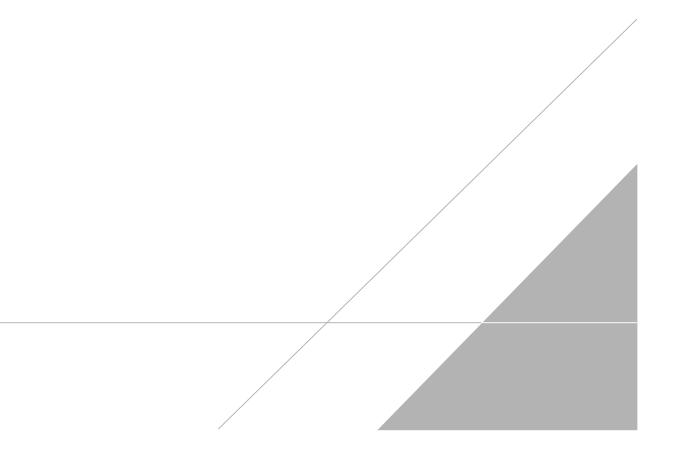
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ATTACHMENT 2

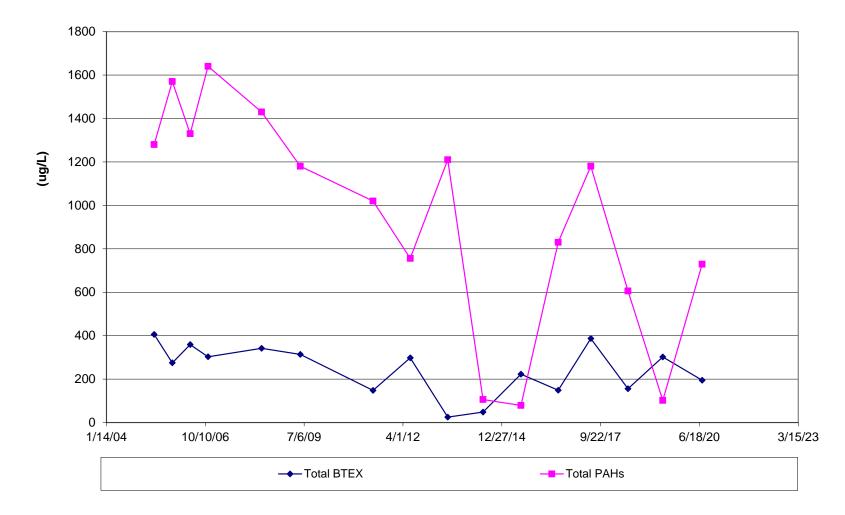
MW98-7D Time-Series Graph





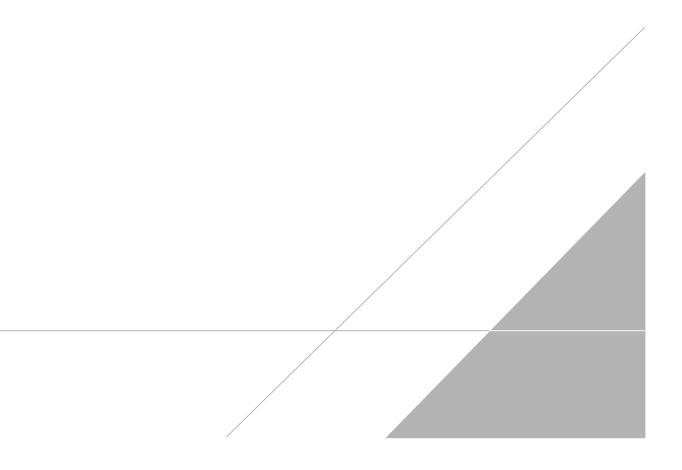
TOTAL BTEX & PAH CONCENTRATION OVER TIME MONITORING WELL - MW98-7D

2020 GROUNDWATER SAMPLING REPORT NYSEG WATERVILLE FORMER MGP SITE WATERVILLE, NEW YORK



ATTACHMENT 3

Soil Cover Inspection Photograph Log



CLIENT: NYSEG	SITE NAME: Waterville Former MGP Site
PROJECT#: 30056393	SITE LOCATION: Waterville, New York
PHOTOGRAPH #: 1	
PHOTOGRAPHER: JES	
DATE: 07/15/2020	
DIRECTION: South COMMENT: View of above- ground swimming pool behind 139 Babbott Ave.	

CLIENT: NYSEG	SITE NAME: Waterville Former MGP Site
PROJECT#: 30056393	SITE LOCATION: Waterville, New York
PHOTOGRAPH #: 2	
PHOTOGRAPHER: JES DATE: 07/15/2020 DIRECTION: Southwest COMMENT: View of small raised-bed vegetable garden behind 145 Babbott Avenue property.	

CLIENT: NYSEG	SITE NAME: Waterville Former MGP Site
PROJECT#: 30056393	SITE LOCATION: Waterville, New York
PHOTOGRAPH #: 3	
PHOTOGRAPHER: JES	
DATE: 07/15/2020	
DIRECTION: South	
COMMENT: View of	
vegetable garden behind	
139 Babbott Avenue	
property.	

CLIENT: NYSEG	SITE NAME: Waterville Former MGP Site
PROJECT#: 30056393	SITE LOCATION: Waterville, New York
PHOTOGRAPH #: 4	
PHOTOGRAPHER: JES	
DATE: 07/15/2020	
DIRECTION: West	
COMMENT: View of new small vegetable garden (foreground) and four new rectangular raised-bed vegetable gardens (fenced in background) behind 139 Babbott Avenue property.	

CLIENT: NYSEG	SITE NAME: Waterville Former MGP Site
PROJECT#: 30056393	
	SITE LOCATION: Waterville, New York
PHOTOGRAPH #: 5	
PHOTOGRAPHER: JES	
DATE: 07/15/2020	
DIRECTION: Southeast	
COMMENT: View of soil	
cover looking southeast.	
CLIENT: NYSEG	SITE NAME: Waterville Former MGP Site
PROJECT#: 30056393	SITE LOCATION: Waterville, New York
PHOTOGRAPH #: 6	
PHOTOGRAPHER: JES	

PROJEC 1#: 30056393	SITE LOCATION: Waterville, New York
PHOTOGRAPH #: 6	
PHOTOGRAPHER: JES	
DATE: 07/15/2020	
DIRECTION: North	
COMMENT: View of soil cover	
looking north.	
	E Contraction of the second seco