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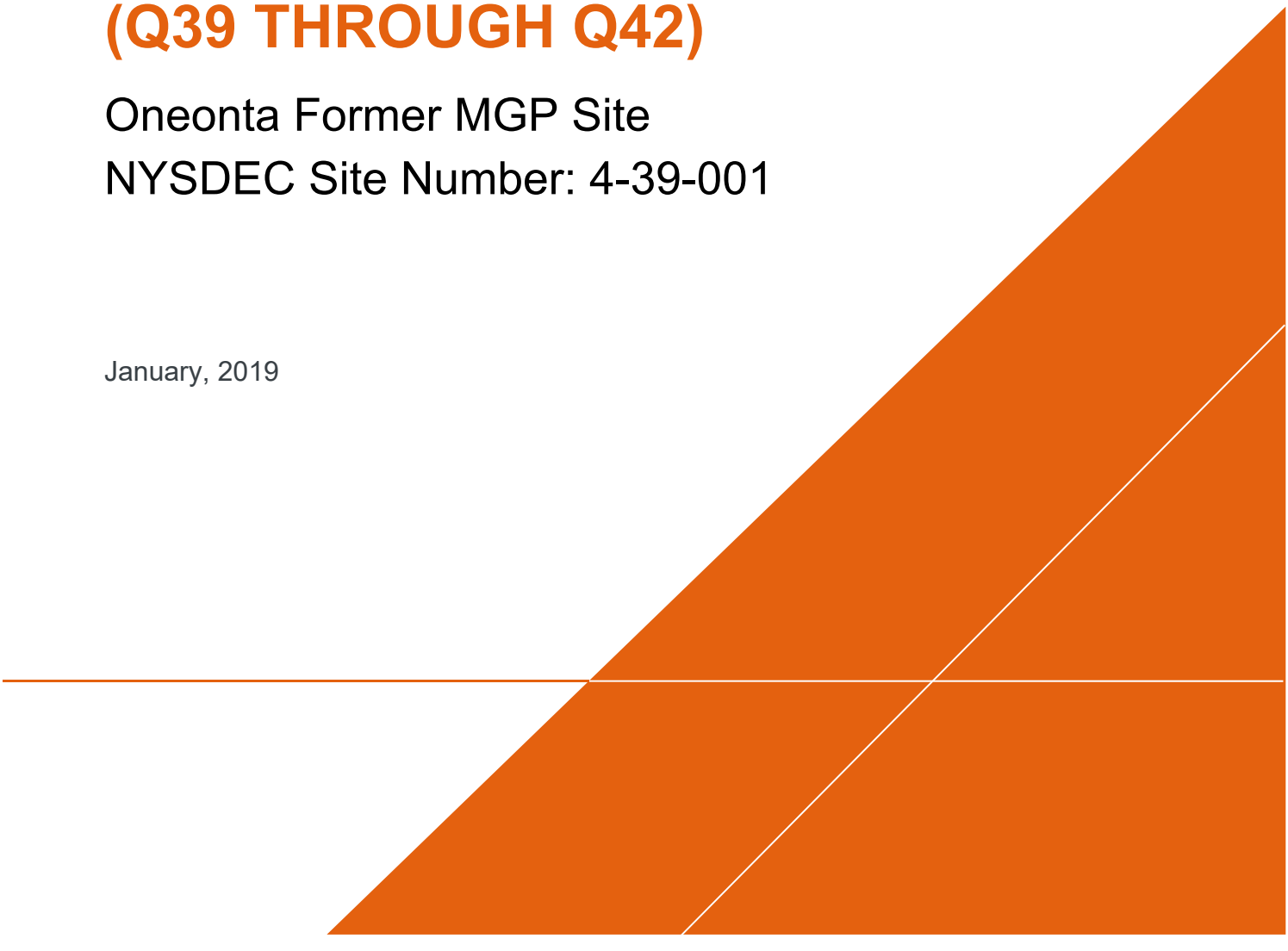
ANNUAL PERIODIC REVIEW REPORT (Q39 THROUGH Q42)

Oneonta Former MGP Site
NYSDEC Site Number: 4-39-001

January, 2019



ANNUAL PERIODIC REVIEW REPORT (Q39 THROUGH Q42)

Oneonta Former MGP Site
NYSDEC Site Number: 4-39-001

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ACRONYMS AND ABBREVIATIONS

AW	application well
BDL	below detection limits
bgs	below ground surface
BTEX	benzene, toluene, ethyl benzene, and xylenes
DNAPL	dense non-aqueous-phase liquid
DUSRs	Data Usability Summary Reports
MGP	manufactured gas plant
MW	monitoring well
NAPL	non-aqueous phase liquid
NRWs	NAPL recovery wells
NYSDEC	New York State Department of Environmental Conservation
O&M	operation and maintenance
PAH	polycyclic aromatic hydrocarbon
PMWs	performance monitoring wells
PZ	piezometer
ROD	Record of Decision
SG	staff gauge
SMP	*Site Management Plan*
µg/L	micrograms per liter
USEPA	United States Environmental Protection Agency

ES EXECUTIVE SUMMARY

This *Annual Periodic Review Report* (Annual PRR) summarizes the monitoring results obtained and operation and maintenance (O&M) activities conducted during the reporting period (December 2017 through December 2018) for the New York State Department of Environmental Conservation- (NYSDEC-) selected remedy for the Oneonta former manufactured gas plant (MGP) site. The former MGP site is located on James Georgeson Avenue (in Neahwa Park) in the southern portion of the City of Oneonta, Otsego County, New York (**Figure 1**).

The NYSDEC-selected soil, sediment, and groundwater remedies for the site are presented in the Record of Decision (NYSDEC, 2005) (ROD). The soil remedy for the site consisted of excavation and off-site disposal of soil within the former MGP footprint that contained MGP-tar or elevated concentrations of polycyclic aromatic hydrocarbons (PAHs), backfilling the excavation with approved fill materials, and finishing the ground surface with macadam, crushed stone, and/or asphalt. The sediment remedy consisted of excavation, off-site disposal, and backfilling activities of portions of Mill Race Creek. The soil and sediment remedies for the site were completed by NYSEG in 2007.

The groundwater remedy consisted of two components:

- Passive removal of drainable MGP-related non-aqueous phase liquid (NAPL), when identified
- In-situ treatment of groundwater

NYSEG completed construction of a permeable wall associated with the groundwater remedy in December 2007, followed by start-up of groundwater treatment in May 2008. Based on review of the initial five-year treatment system performance and effectiveness monitoring data (2008 through 2013), the NYSDEC approved suspension of the oxygen-enhancement of groundwater for a five-year period while collecting monitoring data to document the resulting effect on groundwater quality at the dissolved plume fringe. Application of oxygen-releasing material was suspended during the November 2013 (Q22) site visit. This Annual PRR represents the fifth annual report since suspension of oxygen enhancement of groundwater and includes recommendations for the next five years of site monitoring.

Effectiveness monitoring, NAPL gauging, and O&M activities for the reporting period (Q40 and Q42) were conducted in accordance with the SMP. Based on data collected during the reporting period, along with data collected over the previous five-year period, the following conclusions are made:

- The requirements for effectiveness monitoring were met.
- NAPL was not detected in any of the five site NAPL recovery wells (NRWs), and the sorbent socks installed in AW-12 have been successful at removing the quantity of NAPL entering the well.
- Total BTEX and PAH concentrations in groundwater show an overall decreasing trend since the suspension of oxygen enhancement.
- Neither BTEX or PAHs were detected in groundwater from “internal” well MW-8806S (located approximately 50 feet downgradient from the former treatment area) since application of the oxygen-releasing socks was suspended. Based on the location of this well, this provides strong evidence that

suspension of oxygen enhancement has had no negative effect on downgradient dissolved concentrations.

Recommendations based on operation and monitoring of the site remedy during the reporting period, and over the previous five-year period, the following recommendations include:

- Continue to conduct effectiveness monitoring for the next 5-year period; however, eliminate three monitoring wells (MW-9110S, MW-8807S, and MW-8808S) from the semi-annual and annual sampling requirements; BTEX and PAHs have not been detected in any of these wells for an extended period of time.
- Continue to install a sorbent sock to passively remove accumulated DNAPL in AW-12. Replacement of the sorbent sock should continue to be conducted on a semi-annual basis.
- Continue semi-annual and annual gauging of MWs, PMWs, NRWs, AWs, staff gauges, and piezometers.
- Continue to conduct operation and maintenance, including site inspections and site maintenance for the next 5-year period.
- As previously approved by the NYSDEC, permanently decommission NRW-03, NRW-04 and NRW-05. No evidence of NAPL or sheens have been detected at these wells since installation.
- Continue to prepare annual Periodic Review Reports as described in the NYSDEC's December 19, 2016 letter correspondence to NYSEG.
- Based on NYSDEC approval of the above recommendations to modify the effectiveness monitoring requirements, NYSEG will prepare a SMP Addendum Letter to be included as an attachment to the existing SMP. The SMP Addendum Letter will describe the NYSDEC-approved modifications, including a revised monitoring schedule and revised sampling and analysis summary for the next 5-year monitoring period.

1 INTRODUCTION

This *Annual Periodic Review Report* (Annual PRR) summarizes the monitoring results obtained and operation and maintenance (O&M) activities conducted during the reporting period for the New York State Department of Environmental Conservation- (NYSDEC-) selected remedy for the Oneonta former manufactured gas plant (MGP) site. The former MGP site is located on James Georgeson Avenue (in Neahwa Park) in the southern portion of the City of Oneonta, Otsego County, New York (**Figure 1**).

As directed in the NYSDEC's December 19, 2016 letter correspondence to NYSEG, this Annual PRR covers the time period from December 20, 2017 through December 19, 2018 and includes monitoring data collected from the May 2018 (Q40) and November 2018 (Q42) site visits.

1.1 Background

The NYSDEC-selected soil, sediment, and groundwater remedies for the site are presented in the Record of Decision (NYSDEC, 2005) (ROD). The soil remedy for the site consisted of excavation and off-site disposal of soil within the former MGP footprint that contained MGP-tar or elevated concentrations of polycyclic aromatic hydrocarbons (PAHs), backfilling the excavation with approved fill materials, and finishing the ground surface with macadam, crushed stone, and/or asphalt. The sediment remedy also consisted of excavation, off-site disposal, and backfilling activities. The soil and sediment remedies for the site were completed by NYSEG in 2007.

The groundwater remedy consisted of two components:

- Passive removal of drainable MGP-related non-aqueous phase liquid (NAPL), when identified
- In-situ groundwater treatment

NYSEG completed construction of a permeable wall associated with the groundwater remedy in December 2007 during backfilling operations associated with the soil excavation remedy. Application well (AW), performance monitoring well (PMW), and NAPL recovery well (NRW) installation was completed in March 2008, followed by start-up of groundwater treatment in May 2008. Construction details of the site wells and permeable wall are contained in the *Site Management Plan* (Arcadis, 2014) (SMP). The locations of the permeable wall and associated well network are presented on **Figure 2.**

In-situ treatment of groundwater during the first five years of system operation (i.e., 2008 through 2013) consisted of increasing the oxygen content of groundwater to enhance natural biodegradation of dissolved benzene, toluene, ethyl benzene, and xylenes (BTEX) through the application of oxygen releasing compounds (i.e., Adventus ECH-O oxygen-releasing socks). Based on review of the initial five-year treatment system performance and effectiveness monitoring data, the NYSDEC approved suspension of the oxygen enhancement of groundwater for a five-year period while collecting monitoring data to document the resulting effect on groundwater quality at the dissolved plume fringe. Application of oxygen-releasing material was suspended during the November 2013 (Q22) site visit. This Annual PRR represents the fifth annual report since suspension of oxygen enhancement of groundwater.

The SMP for the second five-years of the site remedy (December 2013 through December 2018) presents activities performed associated with:

- Effectiveness monitoring to document site-wide groundwater quality.

- Monitoring for the presence of NAPL.
- O&M of the groundwater well network.
- Notification and procedural requirements for conducting soil disturbance activities within areas potentially containing MGP-impacted material.
- Vapor intrusion considerations for future development of structures within areas potentially containing residual MGP-impacts.
- Minimum health and safety requirements for contractors performing work within areas potentially containing residual MGP impacts.
- Reporting requirements associated with the site activities.

1.2 Objectives

As presented in the SMP, the objectives of the groundwater remedy for the second five-year monitoring period (December 2013 through December 2018) were to:

- Passively remove drainable NAPL, if identified.
- Monitor groundwater quality to document dissolved BTEX and PAH concentrations at the dissolved plume fringe.

Effectiveness monitoring, NAPL gauging, and O&M activities for the current reporting period (Q40 and Q42) were conducted in accordance with the SMP and are presented in this Annual PRR. A summary of the monitoring, gauging, and O&M tasks completed during the monitoring period, along with the associated dates the tasks were conducted, is presented in **Table** 1.

The objectives of this Annual PRR are to:

- Present the site-wide data collected during the monitoring period.
- Present recommendations for monitoring requirements for the next five year period based on data collected during the past five year period (i.e., from December 2013 [Q22] through December 2018 [Q42].

For comparison purposes and to support the conclusions and recommendations presented in Section 5, data collected during the previous site visits are included in tables, where appropriate.

2 EFFECTIVENESS MONITORING

Effectiveness monitoring was conducted during two site visits during the reporting period:

- May 14 - 17, 2018 (Q40, Annual site visit).
- November 12 - 14, 2018 (Q42, Semi-annual site visit).

As described in the SMP, effectiveness monitoring during the reporting period consisted of:

- Semi-annual measurement of groundwater and surface-water levels in 14 PMWs, 14 MWs, 4 staff gauges, and 4 piezometers.
- Semi-annual gauging of 5 NRWs and AW-12 for the presence of NAPL. Note that the previous Annual PRR dated January 2018 recommended, and the NYSDEC approved, decommissioning of 3 of the 5 NRWs (NRW-03, NRW-04, and NRW-05). These wells are tentatively scheduled for decommissioning during the Spring 2019 (Q44) site visit.
- Semi-annual sampling for BTEX and PAHs in groundwater from 13 monitoring wells across the site.

Objectives of the groundwater effectiveness monitoring are to:

- Assess groundwater movement patterns within the study area using water-level data.
- Document concentrations of dissolved BTEX and PAHs at the plume fringe.
- Document dissolved BTEX and PAH concentration trends.

As presented in the ROD, BTEX data is used to evaluate the effectiveness of the groundwater remedy; however, for completeness, PAH data is also collected and evaluated.

The results from the effectiveness monitoring are presented below.

2.1 Groundwater Movement

To document the depth to groundwater and flow directions, water-level data were collected semi-annually (i.e., Q40 and Q42) from the following locations:

- 14 performance monitoring wells (PMW-01 through PMW-14).
- 14 site monitoring wells (MW-8604S, MW-8806S, MW-8807S, MW-8808S, MW-9109S, MW-9110S, MW-9111S, MW-9112S, MW-9114S, MW-9502S, MW-0201, MW-0203, PTMW-0202, and MW-0301).
- Four staff gauges (SG-105, SG-107, SG-110, and SG-111)
- Four piezometers (PZ-0801, PZ-0802, PZ-0803, and PZ-105).

Table 2 presents water elevation data collected during this reporting period, along with previous elevation data collected.

Figure 3 presents the water-table elevations and flow direction developed from the May 2018 (Q40 annual) gauging event; **Figure 4** presents the water-table elevations and flow direction developed from the November 2018 (Q42 semi-annual) gauging event. As shown on the figures, the general groundwater

flow direction at the site was to the south and southwest during each gauging event. When compared to water-table maps prepared for the nine previous years, no significant changes to site-wide groundwater flow directions have occurred.

2.2 NAPL Monitoring

NAPL monitoring was conducted during both the Q40 and Q42 site visits and consisted of gauging the five NAPL recovery wells (NRW-01, NRW-02, NRW-03, NRW-04, and NRW-05) and change-out of the sorbent sock in AW-12. The objectives of this task were to identify whether NAPL had accumulated within a well, and to remove the NAPL if present and recoverable. Locations of NAPL recovery wells NRW-01 through NRW-04 and AW-12 are shown on **Figure 2**. NAPL recovery well NRW-05 is shown **on Figure 3** and **Figure 4**.

NAPL gauging data are also included in **Table 2.** NAPL was not visually observed during gauging in any of the five NRWs during the reporting period. To date (i.e., since first gauged in April 2008), NAPL has not been visually observed in any of the five NRWs).

As recommended in the sixth *Annual Report (Q21-Q24)*, a NAPL sorbent sock was installed in AW-12 during the Q26 site visit to passively remove DNAPL. The sorbent sock is removed, and a new sock reinstalled during each semi-annual site visit. Similar to previous results, during the Q40 (spring) site visit the sorbent material in the sorbent sock was completely saturated with NAPL. During the Q42 site visit (fall) the sorbent material in the sorbent sock was approximately 80% saturated with NAPL. The recovered sorbent socks were properly containerized and staged in the secure on-site shed for disposal by NYSEG. Photographs of the spent sorbent socks from each site visit during the reporting period are included as **Appendix A**.

2.3 Groundwater Quality

As stated above, in addition to assessing groundwater movement patterns, two additional objectives of groundwater effectiveness monitoring for the second five-year period of monitoring were to:

- document the concentrations of dissolved BTEX and PAHs at the plume fringe.
- document trends in BTEX and PAH concentrations since suspension of groundwater treatment.

An ongoing program of groundwater monitoring has been in place at the site since 1986 (i.e., prior to implementing the site remedy). As presented in the *Supplemental Remedial Investigation Report* (BBL, 2004), based on long-term monitoring data, the extent of impacted groundwater at that time appeared to be stable due to a variety of naturally occurring processes, including dilution, hydrophobic sorption, and in-situ biodegradation.

During both the Q40 and Q42 sampling events, groundwater collected from the 13 monitoring wells identified in the SMP were submitted to TestAmerica Laboratories located in Amherst, New York for analysis of:

- BTEX by United States Environmental Protection Agency (USEPA) SW-846 Method 8260
- PAHs by USEPA SW-846 Method 8270.

Analytical results are summarized in **Table 3**. For comparison purposes, baseline groundwater quality results collected in April 2008 and data collected during the previous nine years of groundwater treatment (i.e., Q1 through Q38). In addition, historical data from 2003 are also included in the table.

Laboratory data packages from both the Q40 and Q4 2 sampling events were reviewed by an individual approved to validate data in New York State, and *Data Usability Summary Reports* (DUSRs) were prepared. Data review indicated that overall laboratory performance was acceptable, and that the overall data quality was within guidelines specified in the respective method for both events. A compact disc containing copies of the DUSRs is included as **Appendix B**.

Laboratory results for BTEX and PAHs are summarized below.

2.3.1 Dissolved BTEX

Laboratory data for dissolved BTEX are presented in **Table 3**. For comparison purposes, dissolved BTEX data from the baseline sampling event through the most recent event are presented on **Figure 5**.

As shown on **Figure 5**, 12 of the wells currently sampled are located around the perimeter of the study area (for discussion purposes MW-8806S is not considered a perimeter well). For the two sampling events included in this reporting period:

- Q40 (Spring): BTEX was not detected in groundwater collected from 7 of the 12 perimeter wells (BTEX was detected at MW-0201, MW-8604S, MW-9111S, MW-9114S, and PTMW-0202).
- Q42 (Fall): BTEX was not detected in groundwater from 9 of the 12 perimeter wells (BTEX was detected at MW-0201, MW-8604S, and PTMW-0202).

These results are consistent with previous Spring and Fall sampling events. Graphs of dissolved concentrations of BTEX over time are presented in **Appendix C** (**Graphs 1** through **3**). For wells with detectable concentrations of BTEX, data from all sampling events (i.e., Spring and Fall events) from May 2003 through November 2018 (Q42) are presented on **Graph 1**; this graph shows the seasonal fluctuation of BTEX concentrations over time. BTEX concentrations from Spring (May) sampling events are presented on **Graph 2**; and data from Fall (November) sampling events are presented on **Graph 3**. Note that prior to implementing the groundwater remedy, wells were not sampled in the Fall; therefore, fewer data points exist. Dates of the source material excavation from the western plant area (WPA) and groundwater oxygen enhancement initiation/suspension are also shown on the graphs for reference.

Further discussions of the results are presented below.

Q40 (Spring 2018):

At the five perimeter wells where BTEX analytes were detected during the Q40 sampling event (MW-0201, MW-8604S, MW-9111S, MW-9114S, and PTMW-0202):

- Benzene was the analyte detected at the highest relative concentrations and at the highest frequency
- At MW-0201 the concentration of total BTEX decreased compared to the Q36 (Spring 2017) sampling event. In addition, as shown on **Graph 2,** (**Appendix C**), the concentrations of BTEX have decreased from 1,241 µg/L to 154 µg/L subsequent to suspension of active treatment of groundwater in 2013.

- At MW-8604S benzene was the only analyte detected, which is consistent with previous Spring sampling events. As also shown on **Graph 2,** (**Appendix C**), concentrations of total BTEX have decreased slightly (however, remain fairly consistent) since the suspension of oxygen enhancement of groundwater in 2013.
- At MW-9111S benzene was the only analyte detected and was reported at a concentration of 0.68 µg/L (below its NYS drinking water standard). BTEX concentrations are generally not-detectable; however, occasional detections of benzene have been reported.
- At MW-9114S toluene was the only analyte detected. Toluene was reported at a concentration of 0.55 µg/L, which has decreased since the Q38 (May 2017) sampling event and is below its NYSDEC drinking water standard.
- At PTMW-0202 concentrations of BTEX have continued to fluctuate since 2012, prior to suspension of oxygen enhancement of groundwater; however, reported BTEX concentrations for the Q40 sampling event were higher than previous results. PTMW-0202 is located between the former MGP and MW-9111S (another perimeter well); as presented above, MW-9111S contained only benzene at a concentration below NYS drinking water standards.

During the Q40 sampling event, BTEX was not detected from “internal” well MW-8806S (located approximately 50 feet downgradient from the former treatment area); this result is consistent with historical Spring sampling events

Q42 (Fall 2018):

At the three perimeter wells where BTEX analytes were detected during the Q42 (Fall 2018) sampling event (MW-0201, MW-8604S, and PTMW-0202):

- Benzene was the analyte detected in the highest relative concentration at each of the three wells (benzene was the only analyte detected at two of the three wells).
- At MW-0201, while the concentration of total BTEX reported for the Fall sampling events has fluctuated since suspension of oxygen enhancement of groundwater in 2013; however, the overall trend indicates decreasing concentrations (from 1,038 µg/L to 550 µg/L).
- At MW-8604S, benzene was the only analyte detected (consistent with previous Spring sampling events); reported concentrations have remained constant ranging between approximately 2 to 3 µg/L since suspension of oxygen enhancement of groundwater.
- At PTMW-0202 reported concentrations of BTEX (primarily benzene) have continued to fluctuate since 2012, prior to suspension of oxygen enhancement of groundwater. PTMW-0202 is located between the former MGP and MW-9111S (another perimeter well) that did not have detectable concentrations of BTEX during the Q42 sampling event.

During the Q42 sampling event at “internal” well MW-8806S total BTEX was not present at detectable concentrations.

2.3.2 Dissolved PAHs

The laboratory data for dissolved PAHs are also presented in **Table 3**. For comparison purposes, dissolved PAH data from the baseline sampling event through the most recent event are presented on **Figure 6**.

As shown on **Figure 6**, 12 of the monitoring wells that are currently sampled are located at the dissolved plume perimeter (again, for discussion purposes MW-8806S is not considered a perimeter well). For the two sampling events included in this reporting period:

- Q40 (Spring): PAHs were not detected in groundwater from 9 of the 12 perimeter wells (PAHs were detected at MW-8604, MW-9111S, and PTMW-0202).
- Q42 (Fall): PAHs were not detected in groundwater from 8 of the 12 perimeter wells (PAHs were detected at MW-0201, MW-8604, MW-9111S, and PTMW-0202)

These results are consistent with results from previous sampling events. Graphs of dissolved concentrations of PAHs over time are presented in **Appendix C** (**Graphs 4** and **5**). PAH data collected from the Spring (i.e., April/May) sampling events from 2003 through 2018 are presented on **Graph 4**; data collected from the Fall (i.e., November) sampling events are presented on **Graph 5**. Note that prior to implementing the SMP, wells were not sampled in the Fall; therefore, fewer data points exist. Dates of the source material excavation from the WPA and the oxygen treatment initiation and suspension are also shown on the graphs.

Further discussions of the results are presented below.

Q40 (Spring 2018):

At the 3 perimeter wells where PAH analytes were detected during the Q40 sampling event during the Q40 sampling event (MW-8604S, MW-9111S and PTMW-0202):

- At MW-8604S, the total PAH results (6.97 µg/L) are consistent with results from the past five years subsequent to suspension of active treatment of groundwater, and have decreased since removal if source material in 2007. None of the PAH analytes present during the Q40 sampling event exceeded their respective drinking water guidance value.
- At MW-9111S, total PAH results (2.5 µg/L) are consistent with historical results, which have ranged between 2.5 µg/L to 4.0 µg/L for the past five years subsequent to suspension of active treatment of groundwater. None of the PAH analytes present during the Q40 sampling event exceeded their respective drinking water guidance value.
- At PTMW-0202, total PAH results (86.2 µg/L) have increased slightly during each of the last four Spring sampling events; however, have generally ranged between 50.0 µg/L to 86.0 µg/L since oxygen enhancement was suspended. Only acenaphthene exceeded its guidance value at PTMW-0201. As stated above, PTMW-0202 is located between the former MGP and MW-9111S (where no PAH analytes exceed groundwater guidance values and concentrations of PAHs are not increasing).

No PAH analytes were detected in groundwater from “internal” well MW-8806S located downgradient from the former treatment area during the Q40 sampling event. This result is consistent with Spring sampling results since 2008.

Q42 (Fall 2018):

Similar to previous Fall sampling events, PAHs were detected in groundwater at 4 of the 12 perimeter wells (MW-0201, MW-8604S, MW-9111S, and PTMW-0202) during the Q42 sampling event; PAHs exceeded a groundwater guidance value in two of those wells:

- At MW-0201 naphthalene was the only PAH analyte detected; naphthalene was reported at a concentration above its guidance value
- At PTMW-0202 naphthalene and acenaphthene were reported above their respective groundwater guidance values

At the four perimeter wells where PAH analytes were detected during the Q42 sampling event:

- At MW-0201, concentrations of naphthalene (and, therefore; total PAHs) have fluctuated within a consistent range between 280 µg/L to 560 µg/L since November 2013 (Q22) when oxygen enhancement of groundwater was suspended; however, have decreased over the last two sampling events.
- At 8604S, no reported PAH analyte exceeded a guidance value; concentrations of total PAHs have decreased slightly since November 2013 (Q22) when oxygen enhancement of groundwater was suspended.
- At MW-9111S, only acenaphthene was present and at a reported concentration below its guidance value; concentrations of acenaphthene (as well as total PAHs) have been consistent since oxygen enhancement of groundwater was suspended.
- At PTMW-0202, the concentrations of naphthalene and acenaphthene (the analytes detected most frequently and at the highest relative concentrations) have continued to fluctuate since oxygen enhancement of groundwater was suspended; however, reported concentrations were noticeably lower during the Q42 sampling event than the previous Fall sampling event.

During the Q42 groundwater sampling event from “internal” well MW-8806S, no PAH analytes were present above their reporting limits. The concentrations of PAHs have significantly decreased since oxygen enhancement of groundwater was suspended.

When the results from the Spring and Fall sampling events are compared, concentrations of PAHs were generally lower during the Spring sampling events compared to the Fall sampling events.

3 OPERATION AND MAINTENANCE

The City of Oneonta is responsible for overall maintenance of Neahwa Park and Damaschke Field; however, NYSEG is responsible for maintaining any aspect of the site that is associated with remediation activities for the former MGP facility.

In addition to routine site maintenance, operation and maintenance activities during the reporting period included annual inspection of site wells and a comprehensive site inspection of all remedial components and site conditions.

A summary of these activities is presented below.

3.1 Well Network

Visual inspections of all site wells (PMWs, NRWs, MWs, AWs, piezometers and staff gauges) were visually inspected during the annual (Q40) visit to confirm that the integrity of the protective road boxes and surrounding concrete collars were maintained, locks were existing, and to identify required repairs. The PMWs, NRWs, and MWs were also inspected during the semi-annual (Q42) site visit.

Depth to bottom measurements and accumulated thickness of sediments (e.g., silts, sands) for each well were collected and are presented in **Table 2**. Depth to bottom measurements were compared to the installed depth as reported on each well's construction logs to determine if re-development is needed. Note that depth to bottom measurements for the AWs are only collected during the annual site visit (Q40). A summary of the results is presented in below.

3.1.1 Monitoring Wells

Based on the Q42 gauging event (i.e., most recent), only 3 of the 14 wells (MW-9111S, MW-9109S, and MW-8606S) contained accumulated sediments (0.18 feet, 0.11 feet, and 0.01 feet, respectively), which is approximately 2.0%, 2.0%, and less than 1.0% of their screen lengths occluded by sediments based on the installed depth and length of screened interval.

3.1.2 Application Wells

As stated above, during the November 2013 (Q22) site visit the oxygen-releasing socks and their stainless-steel canisters were removed. Although the AWs are not currently being used for the application of oxygen-releasing material, depth to bottom measurements were recorded during the Q40 (annual) visit and compared to the baseline measurements to evaluate the potential future need for re-development due to siltation.

Based on the Q40 gauging results, the following were observed:

- 12 of the 16 AWs had some amount of sediment accumulation, ranging from 0.02 feet (AW-05) to 2.41 feet (AW-14)
- Three AWs had greater than 10% of their screen length occluded with sediments:
  - AW-10 (16% of the 7-foot length of screen occluded)

- AW-11 (11% of the 6-foot length of screen occluded)
- AW-14 (60% of the 4-foot length of screen occluded)

These quantities of sedimentation are consistent with historical quantities previously reported; therefore, do not appear to be significantly increasing.

AW-14 has only 4 feet of screen length and historically has had greater than 2 feet of sediment subsequent to development. Past re-development efforts have been unsuccessful at reducing the quantity of sediments in the well.

3.1.3 Performance Monitoring Wells

Similar to the AWs, although these wells are not currently being used, depth to bottom measurements were recorded during the Q42 (most recent) visit and compared to the baseline measurements to evaluate the potential future need for re-development due to siltation.

Based on the Q42 gauging results, the following were observed:

- 8 of the 14 PMWs contained some amount of accumulated sediments, ranging from 0.01 feet (PMW-10 and PMW-11) to 0.4 feet (PMW-07)
- Of the 8 PMWs containing measurable amounts of sediments, only PMW-07 (0.40 feet) had 10% or more of its screen length occluded.

These quantities of sedimentation are consistent with historical quantities previously reported; therefore, do not appear to be increasing significantly.

3.1.4 Piezometers

A comparison of the depth to bottom measurements collected during the Q42 (i.e., most recent) gauging event to the construction details of the four piezometers associated with the site (PZ-0801, PZ-0802, PZ-0803, and PZ-105) is also presented in **Table 2**. The gauging data indicated that accumulated sediment ranged from 0.07 feet (PZ-0803) to 1.14 feet (PZ-0801) in thickness (0.4 to 10.5% of screen length occluded). The quantity of accumulated sediments at PZ-0801 is consistent with historical results dating back to May 2015.

Piezometer PZ-105 (located near the northwest edge of Neahwa Pond) is occasionally dry; historically, when present, water has typically been recorded from 0.1 to 0.8 feet of since 2008. PZ-105 contained 1.0 and 0.6 feet of water during the Q40 and Q42 site visits, respectively. Approximately 0.38 feet of sediment was measured in PZ-105. Historically, this piezometer exhibits siltation of approximately 0.36 - 0.42 feet (even when dry). Therefore, it is likely that either the surveyed depth to bottom is inaccurate or there are consistent and unchanging siltation/small stones in the bottom.

3.1.5 NAPL Recovery Wells

A comparison of the depth to bottom measurements collected during the Q42 gauging event for each of the five NRWs to their respective well construction logs was conducted to determine accumulation of materials within the each well.

As shown on **Table 2**, four of the five NRWs did not contain a significant amount of accumulated material in the sumps; NRW-05 contained 0.06 feet of material in the sump. Because each of the NRWs was constructed with a 2-foot-long collection sump, and no significant accumulation of sediments existed, none of their screen lengths were occluded.

As stated above, decommissioning of three NRWs (NRW-03, NRW-04, and NRW-05) is tentatively scheduled to occur in Spring 2019.

3.1.6 Staff Gauges

All staff gauges were present and in good condition during the reporting period. Gauging results are included in **Table 2**.

3.2 Annual Site Inspection

An annual site inspection was conducted May 14, 2018. During the annual inspection, areas within the former MGP footprint were inspected for sparse vegetation, erosion, settling, damaged asphalt (including, but not limited to, cracks and depressions) or cover material, and obvious obstructions within drainage features (e.g., catch basins). A photographic log documenting the site conditions at the time of the annual inspection is included as **Appendix D**. The location where each photograph was taken, and the direction that the photographer was facing, is shown on **Figure 7**. The annual site inspection indicated that overall the site cover is in good condition, and:

- Maintenance to the soil cover across the site was not required.
- Maintenance to the asphalt surface above the groundwater treatment system was not required.
- Drainage features were clear of obstructions.

In addition, photographic documentation of the condition of each well associated with the site, including protective covers, locking devices, and overall integrity of the wells is provided as **Appendix E**.

Inspections of the site wells and staff gauges were also conducted during the annual site visit. No significant deficiencies were identified during this reporting period. No repairs or maintenance actions are required; however, the protective road boxes for NAPL recovery wells NRW-03 and NRW-04 have settled slightly. NRW-03 and NRW-04 are located in the paved parking area adjacent to the baseball stadium, and have been approved by the NYSEC for decommissioning; the wells are tentatively scheduled for decommissioning in Spring 2019.

4 DISTURBANCE ACTIVITIES IN POTENTIALLY IMPACTED AREAS

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

5 CONCLUSIONS AND RECOMMENDATIONS

Conclusions and recommendations based on the fifth year of monitoring subsequent to suspension of oxygen-enhancement of groundwater are presented below.

5.1 Conclusions

A summary of pertinent conclusions is presented below.

5.1.1 Effectiveness Monitoring

- Requirements for effectiveness monitoring were met during the reporting period.
- Groundwater Movement
  - General groundwater flow direction continues to be to the south and southwest; the groundwater movement pattern is consistent with the previous nine years of monitoring.
- NAPL Monitoring
  - NAPL was not detected in any of the five NRWs during the reporting period; NAPL has not been detected in any of the NRWs during the ten years of monitoring.
  - The sorbent sock(s) installed in AW-12 have been successful at removing the quantity of NAPL entering the well.
- Groundwater Quality

  Total BTEX concentrations in groundwater shows an overall decreasing trend since the suspension of oxygen enhancement.

  During Spring sampling events, BTEX and/or PAHs have been detected in 4 to 5 downgradient monitoring wells over the past 10 years. Laboratory data supports the conclusion that suspension of oxygen enhancement of groundwater has not had a negative effect on the concentration of either BTEX or PAHs in downgradient groundwater, and that natural attenuation is occurring:
  - At MW-0201, since 2008 BTEX concentrations in groundwater have declined from 2,149 µg/L to 154 µg/L; since suspension of oxygen enhancement of groundwater in November 2013 BTEX concentrations have continued to drop from 1,241 µg/L to 154 µg/L. While reported PAH concentrations have fluctuated, since suspension of oxygen enhancement concentrations have decreased from 230 µg/L to below detectable limits.
  - At MW-8604S, since 2003 BTEX concentrations in groundwater have declined from 626 µg/L to 1.1 µg/L; since suspension of oxygen enhancement of groundwater, while low, concentrations have continued to drop from 3.9 µg/L to 1.1 µg/L and total PAH concentrations have remained steady at approximately 7 µg/L with no exceedance of guidance values.
  - At MW-9111S, since 2003 concentrations of BTEX have been reported at or near below detection limits, and results have remained similar since suspension of the active groundwater remedy.

Similarly, total PAH concentrations have remained between 4 µg/L to 6 µg/L with no exceedances of guidance values.

- At MW-9114S, with one exception, concentrations of BTEX have remained below groundwater standards (toluene exceeded its groundwater standard once). Total PAHs have not been detected in groundwater since the suspension of oxygen enhancement.
- At PTMW-0202, reported concentrations of total BTEX have fluctuated between 43 µg/L to 97 µg/L since suspension of groundwater treatment; however, total BTEX concentrations were at 126 µg/L prior to suspension. Concentrations of total PAHs have been increasing since May 2013, prior to suspension of groundwater treatment.

Similarly, during Fall sampling events, BTEX and/or PAHs have been detected in 4 to 5 of the downgradient monitoring wells over the past 10 years. Laboratory data also support the conclusion that suspension of oxygen enhancement of groundwater has not had a negative effect on the concentration of either BTEX or PAHs in downgradient groundwater, and that natural attenuation is occurring:

- At MW-0201, since 2008 BTEX concentrations in groundwater have declined from 2,688 µg/L to 550 µg/L; since suspension of oxygen enhancement of groundwater in November 2013 BTEX concentration have decreased from1,038 µg/L to 550 µg/L.
- At MW-8604S, BTEX concentrations in groundwater have declined from 79 µg/L to 2.4 µg/L since 2008 (earliest Fall sampling data) and PAHs decreased from 92 µg/L to 10.6 µg/L. Since suspension of oxygen enhancement of groundwater, concentrations of BTEX have remained constant and total PAH concentrations have decreased slightly.
- At MW-9111S, since 2003 BTEX has generally been reported at below detection limits with the occasional presence of benzene (Q42 results did not contain any BTEX analyte above detection limits). Similarly, total PAH concentrations have remained between 4 µg/L to 6 µg/L with no exceedances of guidance values.
- At MW-9114S, with one exception, concentrations of BTEX have remained below groundwater standards (toluene exceeded its groundwater standard once). Total PAHs have not been detected in groundwater since the suspension of oxygen enhancement.
- At PTMW-0202, the concentrations of both total BTEX and total PAHs have continued to fluctuate since 2012, prior to suspension of oxygen enhancement of groundwater.

BTEX were not detected from “internal” well MW-8806S (located approximately 50 feet downgradient from the former treatment area) since application of the oxygen-releasing socks was suspended. Based on the location of this well, this provides strong evidence that suspension of oxygen enhancement has had no negative effects on downgradient dissolved concentrations.

Seasonal changes continue to have an effect on dissolved BTEX and PAH concentrations. Where present, dissolved BTEX and PAH concentrations were generally higher during the Fall sampling events compared to Spring sampling events. Any changes observed were likely the result of seasonal precipitation and runoff volume fluctuations, completion of the soil remedy (i.e., removal of source material), along with natural attenuation and seasonal dilution, and not from the suspension of oxygen within the treatment system.

5.1.2 Operation and Maintenance

- Requirements for effectiveness monitoring were met during the reporting period.
- Well Network
  - Visual inspections and gauging of the site wells were conducted during semi-annual and annual site visits; no required repairs were identified.
  - None of the MWs contained significant amounts of accumulated sediments.
  - Three (3) of the 16 AWs had greater than 10% of their screen lengths occluded with sediments; however, the amount of sediments are consistent with previous gauging events and the AWs are not currently being used.
  - None of the 14 PMWs contained significant amounts of accumulated sediments, and the PMWs are not currently being used.
  - Accumulated sediments in the four piezometers are consistent with historical measurements; sediment accumulation within the piezometers does not appear to be increasing.
  - None of the NRWs contained significant amounts of accumulated materials
  - No sediment removal or redevelopment of site wells is required at this time.
- Annual Site Inspection
  - The soil cover and asphalt surface above the groundwater treatment system were in good condition; no repairs were required.
  - Drainage features were clear of obstructions
  - No repairs to MWs, NRWs, AWs, or PMWs were required.

5.2 Recommendations

Recommendations based on operation and monitoring of the NYSDEC-selected remedy during the reporting period are presented below.

5.2.1 Effectiveness Monitoring

- Continue to conduct effectiveness monitoring for the next 5-year period; however, eliminate the following three monitoring wells from the semi-annual and annual sampling requirements:
  - MW-9110S: sampling results from groundwater collected from this well have been “non-detect” for both BTEX and PAHs since 2009.
  - MW-8807S: sampling results from groundwater collected from this well have been “non-detect” for BTEX since 2011 and for PAHs since 2008.
  - MW-8808S: sampling results from groundwater collected from this well have been “non-detect” for BTEX since 2009 and for PAHs since 2008.

These wells will still be gauged on a semi-annual basis to evaluate groundwater flow patterns.

- Continue to install a sorbent sock to passively remove accumulated DNAPL in AW-12. Replacement of the sorbent sock should continue to be conducted on a semi-annual basis.
- Continue semi-annual and annual gauging of MWs, PMWs, NRWs, AWs, staff gauges, and piezometers.

5.2.2 Operation and Maintenance

- Continue to conduct operation and maintenance, including site inspections and site maintenance for the next 5-year period, as described in the SMP.
- As previously approved by the NYSDEC, permanently decommission NRW-03, NRW-04 and NRW-05. No evidence of NAPL or sheens have been detected at these wells since installation. in addition, NRW-05 is located east of the parking area in a grassed area with public access. This well also no longer provides useful information and should also be decommissioned so it no longer needs to be maintained.

5.2.3 Reporting

- Continue to prepare annual Periodic Review Reports as described in the NYSDEC's December 19, 2016 letter correspondence to NYSEG.
- Based on NYSDEC approval of the above recommendations to modify the effectiveness monitoring requirements and decommission NRW-05, NYSEG will prepare a SMP Addendum Letter to be included as an attachment to the existing SMP. The SMP Addendum Letter will describe the NYSSDEC-approved modifications, including a revised monitoring schedule and revised sampling and analysis summary for the next 5-year monitoring period.

6 CERTIFICATION STATEMENT

A statement from NYSEG confirming that site controls were in place and effective and no changes occurred during the reporting period that would impair the ability of the controls to protect public health and the environment is included as **Appendix F**. Additionally, included in **Appendix F**, is the completed NYSDEC Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form.

7 REFERENCES

Arcadis. 2018. *Annual Project Report (Q34 through Q38).* Prepared for New York State Electric & Gas Corporation, Oneonta Former MGP Site, Oneonta New York (January 2018)

Arcadis. 2014. *Site Management Plan.* Prepared for New York State Electric & Gas Corporation, Oneonta Former MGP Site, Oneonta, New York (February 2014).

BBL. 2004. *Supplemental Remedial Investigation Report*, Prepared for New York State Electric & Gas Corporation, Oneonta Former MGP Site, Oneonta, New York (May 2004).

New York State Department of Environmental Conservation. 2005. *Record of Decision*, NYSEG Oneonta MGP Site, City of Oneonta, Otsego County, New York. Site Number 4-39-001. March 2005.

New York State Department of Environmental Conservation. 2016. Site Management (SM) Periodic Review Report (PRR) Response Letter, NYSEG – Oneonta MGP, Oneonta. December 19, 2016.

TABLES

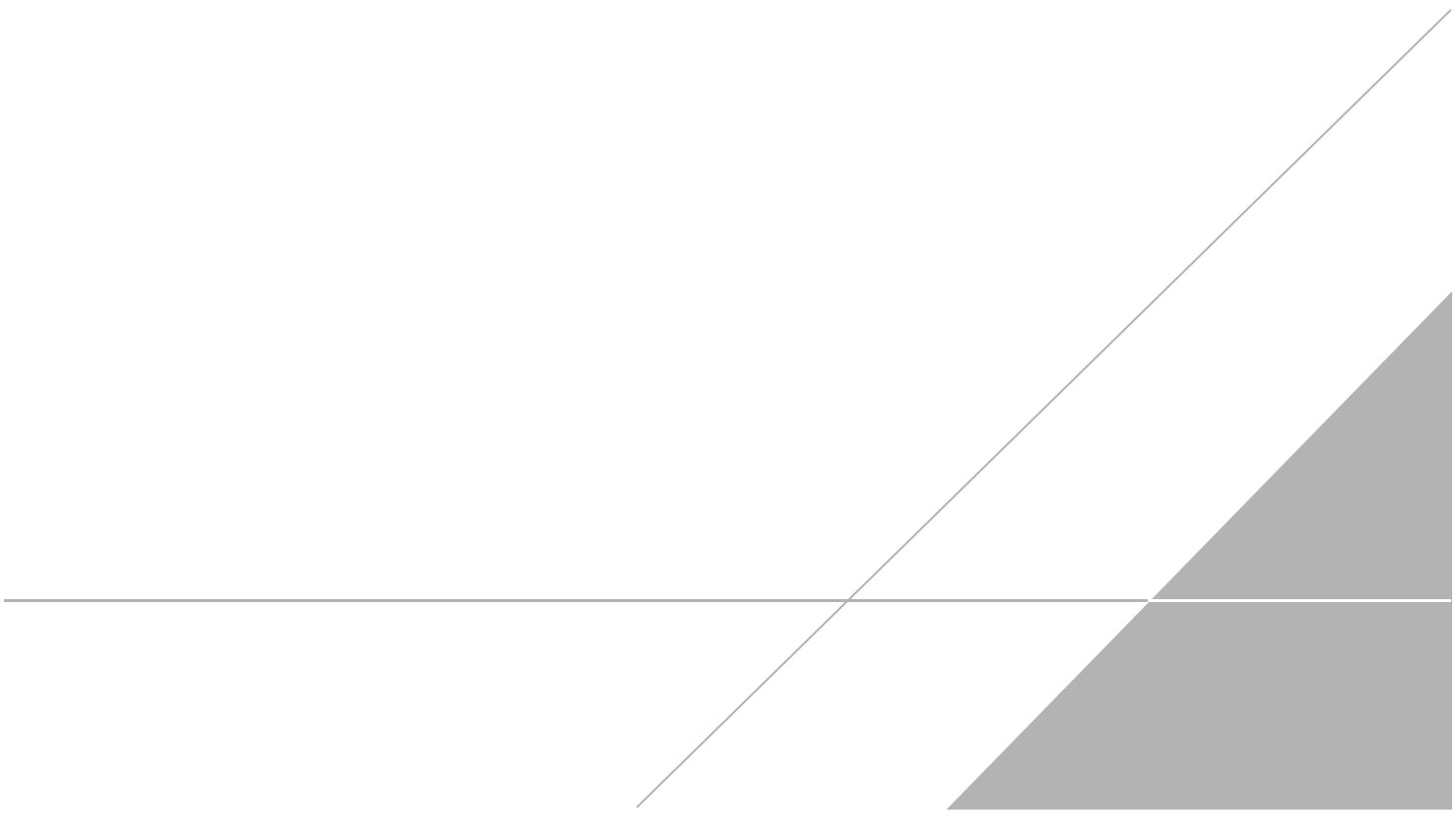

Table 1
Monitoring, Operation and Maintenance Tasks
Annual Periodic Review Report (Q39 through Q42)
Oneonta Former MGP Site, Oneonta, New York

Event	Dates Completed/ Anticipated	Activities Completed/Scheduled			
		Effectiveness Monitoring	NAPL Gauging	O&M	
				Site Inspection	Well Inspections
Q22 Monitoring (Semi-annual)	November 11-15, 2013	X	X		X
Q24 Monitoring (6th Annual)	May 27-30, 2014	X	X	X	X
Q26 Monitoring (Semi-annual)	November 17-19, 2014	X	X		X
Q28 Monitoring (7th Annual)	May 19-21, 2015	X	X	X	X
Q30 Monitoring (Semi-annual)	November 11-18, 2015	X	X		X
Q32 Monitoring (8th Annual)	May 9-11, 2016	X	X	X	X
Q34 Monitoring (Semi-annual)	November 2016	X	X		X
Q36 Monitoring (9th Annual)	May 2017	X	X	X	X
Q38 Monitoring (Semi-annual)	November 2017	X	X		X
Q40 Monitoring (Annual)	May 14-16, 2018	X	X	X	X
Q42 Monitoring (Semi-Annual)	November 12-14, 2018	X	X		X

Notes:

- Shaded area identifies monitoring that was completed during the reporting period
- Effectiveness Monitoring includes:
  - semi-annual gauging of 14 PMWs, 14 MWs, 4 SGs, and 4 PZs
  - semi-annual sampling of 13 MWs for BTEX and PAHs
- NAPL Gauging includes DTW & DTB in 5 NRWs and AW-12
- Operation and Maintenance includes:
  - Annual Site Inspections includes visual inspections of MWs, PMWs, NRWs, SGs, and AWs associated with the site
  - Semi-Annual: includes visual inspection and depth to bottom measurements of the 16 AWs and 14 PMWs

Table 2
Gauging Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
MW-9502S	1080.77	23.72	19.0	April 21, 2008	5.56	1075.41	-	24.01	-0.09	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	7.47	1073.50	-	24.04	-0.12	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	6.67	1074.30	-	24.01	-0.09	0.00
				August 5, 2009	6.04	1074.93	-	24.02	-0.10	0.00
				November 30, 2009	6.77	1074.20	-	24.02	-0.10	0.00
				February 24, 2010	7.22	1073.75	-	24.03	-0.11	0.00
				May 17, 2010	6.15	1074.82	-	23.97	-0.05	0.00
				November 1, 2010	5.55	1075.42	-	23.80	0.12	0.63
				May 9, 2011	4.70	1076.07	-	23.80	-0.08	0.00
				November 7, 2011	6.08	1074.69	-	23.81	-0.09	0.00
				May 29, 2012	6.09	1074.68	-	23.82	-0.10	0.00
				November 26, 2012	7.23	1073.54	-	23.88	-0.16	0.00
				May 6, 2013	6.01	1074.76	-	23.77	-0.05	0.00
				November 12, 2013	7.22	1073.55	-	23.75	-0.03	0.00
				May 27, 2014	5.44	1075.33	-	23.76	-0.04	0.00
				November 17, 2014	7.35	1073.42	-	23.75	-0.03	0.00
				May 19, 2015	7.01	1073.76	-	23.74	-0.02	0.00
				November 16, 2015	6.10	1074.67	-	23.78	-0.06	0.00
				May 9, 2016	6.68	1074.09	-	23.74	-0.02	0.00
				November 15, 2016	8.01	1072.76	-	23.75	-0.03	0.00
				May 16, 2017	5.54	1075.23	-	23.75	-0.03	0.00
				November 6, 2017	7.65	1073.12	-	23.75	-0.03	0.00
				May 14, 2018	5.95	1074.82	-	23.75	-0.03	0.00
				November 12, 2018	5.79	1074.98	-	23.75	-0.03	0.00
MW-0203*	1075.16	29.58	10.0	April 21, 2008	1.95	1073.21	-	28.82	0.76	5.60
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	3.57	1071.59	-	28.84	0.74	5.40
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	3.23	1071.93	-	28.80	0.78	5.80
				August 5, 2009	2.29	1072.87	-	28.84	0.74	5.40
				November 30, 2009	3.11	1072.05	-	28.81	0.77	5.70
				February 24, 2010	3.57	1071.59	-	28.81	0.77	5.70
				May 17, 2010	2.64	1072.52	-	29.58	0.00	0.00
				November 1, 2010	1.93	1073.23	-	29.63	-0.05	0.00
				May 9, 2011	1.09	1074.07	-	29.62	-0.04	0.00
				November 7, 2011	2.57	1072.59	-	29.58	0.00	0.00
				May 29, 2012	2.85	1072.31	-	29.66	-0.08	0.00
				November 26, 2012	3.69	1071.47	-	29.62	-0.04	0.00
				May 6, 2013	2.68	1072.48	-	29.54	0.04	0.00
				November 12, 2013	3.82	1071.34	-	29.57	0.01	0.00
				May 27, 2014	2.11	1073.05	-	29.63	-0.05	0.00
				November 17, 2014	3.90	1071.26	-	29.60	-0.02	0.00
				May 19, 2015	3.85	1071.31	-	29.59	-0.01	0.00
				November 16, 2015	2.58	1072.58	-	29.59	-0.01	0.00
				May 9, 2016	3.19	1071.97	-	29.59	-0.01	0.00
				November 15, 2016	4.62	1070.54	-	29.59	-0.01	0.00
				May 16, 2017	2.02	1073.14	-	29.60	-0.02	0.00
				November 6, 2017	4.00	1071.16	-	29.59	-0.01	0.00
				May 14, 2018	2.59	1072.57	-	29.59	-0.01	0.00
				November 12, 2018	2.02	1073.14	-	29.59	-0.01	0.00
MW-9114S	1082.38	10.63	5.5	April 21, 2008	6.23	1076.15	-	11.16	-0.53	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	8.15	1074.23	-	11.16	-0.53	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	7.38	1075.00	-	11.16	-0.53	0.00
				August 5, 2009	6.71	1075.67	-	11.16	-0.53	0.00
				November 30, 2009	7.51	1074.87	-	11.15	-0.52	0.00
				February 24, 2010	7.83	1074.55	-	11.17	-0.54	0.00
				May 17, 2010	6.77	1075.61	-	11.11	-0.48	0.00
				November 1, 2010	6.38	1076.00	-	11.16	-0.53	0.00
				May 9, 2011	5.54	1076.84	-	11.16	-0.53	0.00
				November 7, 2011	7.10	1075.28	-	11.18	-0.55	0.00
				May 29, 2012	7.08	1075.30	-	11.18	-0.55	0.00
				November 26, 2012	8.21	1074.17	-	11.17	-0.54	0.00
				May 6, 2013	7.03	1075.35	-	11.16	-0.53	0.00
				November 12, 2013	8.09	1074.29	-	11.12	-0.49	0.00
				May 27, 2014	6.30	1076.08	-	11.15	-0.52	0.00
				November 17, 2014	8.20	1074.18	-	11.15	-0.52	0.00
				May 19, 2015	7.89	1074.49	-	11.11	-0.48	0.00
				November 16, 2015	7.04	1075.34	-	11.13	-0.50	0.00
				May 9, 2016	7.60	1074.78	-	11.13	-0.50	0.00
				November 15, 2016	8.89	1073.49	-	11.12	-0.49	0.00
				May 16, 2017	6.40	1075.98	-	11.13	-0.50	0.00
				November 6, 2017	8.40	1073.98	-	11.12	-0.49	0.00
				May 14, 2018	6.85	1075.53	-	11.15	-0.52	0.00
				November 12, 2018	6.66	1075.72	-	11.14	-0.51	0.00

Table 2
Gauging Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

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MW-8604S	1083.02	19.00	15.0	April 21, 2008	9.22	1073.80	-	19.48	-0.48	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	9.40	1073.62	-	19.49	-0.49	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	9.19	1073.83	-	19.48	-0.48	0.00
				August 5, 2009	8.97	1074.05	-	19.46	-0.46	0.00
				November 30, 2009	9.20	1073.82	-	19.48	-0.48	0.00
				February 24, 2010	9.37	1073.65	-	19.47	-0.47	0.00
				May 17, 2010	8.98	1074.04	-	19.44	-0.44	0.00
				November 1, 2010	8.89	1074.13	-	19.48	-0.48	0.00
				May 9, 2011	8.90	1074.12	-	19.51	-0.51	0.00
				November 7, 2011	9.23	1073.79	-	19.50	-0.50	0.00
				May 29, 2012	9.09	1073.93	-	19.44	-0.44	0.00
				November 26, 2012	9.36	1073.66	-	19.50	-0.50	0.00
				May 6, 2013	9.01	1074.01	-	19.45	-0.45	0.00
				November 12, 2013	9.29	1073.73	-	19.48	-0.48	0.00
				May 27, 2014	8.86	1074.16	-	19.44	-0.44	0.00
				November 17, 2014	9.31	1073.71	-	19.47	-0.47	0.00
				May 19, 2015	9.06	1073.96	-	19.45	-0.45	0.00
				November 16, 2015	9.35	1073.67	-	19.43	-0.43	0.00
				May 9, 2016	9.49	1073.53	-	19.47	-0.47	0.00
				November 15, 2016	10.11	1072.91	-	19.50	-0.50	0.00
				May 16, 2017	8.80	1074.22	-	19.45	-0.45	0.00
				November 6, 2017	8.95	1074.07	-	19.50	-0.50	0.00
				May 14, 2018	9.10	1073.92	-	19.35	-0.35	0.00
				November 12, 2018	9.24	1073.78	-	19.47	-0.47	0.00
MW-9112S	1079.32	9.44	5.0	April 21, 2008	3.46	1075.86	-	9.59	-0.15	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	5.87	1073.45	-	9.60	-0.16	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	5.24	1074.08	-	9.58	-0.14	0.00
				August 5, 2009	4.12	1075.20	-	9.59	-0.15	0.00
				November 30, 2009	5.19	1074.13	-	9.56	-0.12	0.00
				February 24, 2010	5.96	1073.36	-	9.59	-0.15	0.00
				May 17, 2010	4.96	1074.36	-	9.55	-0.11	0.00
				November 1, 2010	3.60	1075.72	-	9.60	-0.16	0.00
				May 9, 2011	4.85	1074.47	-	9.59	-0.15	0.00
				November 7, 2011	4.71	1074.61	-	9.61	-0.17	0.00
				May 29, 2012	4.95	1074.37	-	9.64	-0.20	0.00
				November 26, 2012	6.59	1072.73	-	9.53	-0.09	0.00
				May 6, 2013	4.91	1074.41	-	9.59	-0.15	0.00
				November 12, 2013	6.01	1073.31	-	9.55	-0.11	0.00
				May 27, 2014	3.50	1075.82	-	9.59	-0.15	0.00
				November 17, 2014	7.10	1072.22	-	9.59	-0.15	0.00
				May 19, 2015	6.14	1073.18	-	9.54	-0.10	0.00
				November 16, 2015	4.84	1074.48	-	9.55	-0.11	0.00
				May 9, 2016	5.60	1073.72	-	9.56	-0.12	0.00
				November 15, 2016	7.81	1071.51	-	9.55	-0.11	0.00
				May 16, 2017	3.80	1075.52	-	9.58	-0.14	0.00
				November 6, 2017	6.85	1072.47	-	9.55	-0.11	0.00
				May 14, 2018	5.21	1074.11	-	9.60	-0.16	0.00
				November 12, 2018	4.28	1075.04	-	9.55	-0.11	0.00
PTMW-0202*	1078.17	16.40	10.0	April 21, 2008	3.28	1074.89	-	15.88	0.52	3.20
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	5.03	1073.14	-	15.88	0.52	3.20
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	4.24	1073.93	-	15.87	0.53	3.30
				August 5, 2009	3.75	1074.42	-	15.90	0.50	3.00
				November 30, 2009	4.34	1073.83	-	15.88	0.52	3.20
				February 24, 2010	4.71	1073.46	-	15.84	0.56	3.60
				May 17, 2010	3.88	1074.29	-	15.81	0.59	3.90
				November 1, 2010	3.43	1074.74	-	15.90	0.50	3.00
				May 9, 2011	2.73	1075.44	-	15.89	0.51	3.10
				November 7, 2011	3.90	1074.27	-	15.90	0.50	3.00
				May 29, 2012	3.92	1074.25	-	15.90	0.50	3.00
				November 26, 2012	4.78	1073.39	-	15.87	0.53	3.30
				May 6, 2013	3.75	1074.42	-	15.88	0.52	3.20
				November 12, 2013	4.71	1073.46	-	15.85	0.55	3.50
				May 27, 2014	3.29	1074.88	-	15.86	0.54	3.40
				November 17, 2014	5.05	1073.12	-	15.88	0.52	3.20
				May 19, 2015	4.55	1073.62	-	16.42	-0.02	0.00
				November 16, 2015	3.79	1074.38	-	16.44	-0.04	0.00
				May 9, 2016	4.33	1073.84	-	16.45	-0.05	0.00
				November 15, 2016	5.35	1072.82	-	16.44	-0.04	0.00
				May 16, 2017	3.20	1074.97	-	16.45	-0.05	0.00
				November 6, 2017	5.25	1072.92	-	16.39	0.01	0.00
				May 14, 2018	3.60	1074.57	-	16.45	-0.05	0.00
				November 12, 2018	3.62	1074.55	-	16.42	-0.02	0.00

Table 2
Gauging Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
MW-9111S	1076.43	15.92	10.0	April 21, 2008	2.65	1073.78	-	15.98	-0.06	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	4.42	1072.01	-	15.95	-0.03	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	3.97	1072.46	-	15.92	0.00	0.00
				August 5, 2009	3.01	1073.42	-	15.91	0.01	0.10
				November 30, 2009	3.94	1072.49	-	15.93	-0.01	0.00
				February 24, 2010	4.39	1072.04	-	15.93	-0.01	0.00
				May 17, 2010	3.35	1073.08	-	15.89	0.03	0.30
				November 1, 2010	2.72	1073.71	-	15.80	0.12	1.20
				May 9, 2011	1.83	1074.60	-	15.92	0.00	0.00
				November 7, 2011	3.41	1073.02	-	15.82	0.10	1.00
				May 29, 2012	3.60	1072.83	-	15.92	0.00	0.00
				November 26, 2012	4.54	1071.89	-	15.87	0.05	0.50
				May 6, 2013	3.43	1073.00	-	15.90	0.02	0.20
				November 12, 2013	4.64	1071.79	-	15.85	0.07	0.70
				May 27, 2014	2.81	1073.62	-	15.74	0.18	1.80
				November 17, 2014	4.67	1071.76	-	15.88	0.04	0.40
				May 19, 2015	4.60	1071.83	-	15.75	0.17	1.70
				November 16, 2015	3.32	1073.11	-	15.82	0.10	1.00
				May 9, 2016	4.00	1072.43	-	15.80	0.12	1.20
				November 15, 2016	5.41	1071.02	-	15.78	0.14	1.40
				May 16, 2017	2.79	1073.64	-	15.68	0.24	2.40
				November 6, 2017	4.88	1071.55	-	15.70	0.22	2.20
				May 14, 2018	3.35	1073.08	-	15.72	0.20	2.00
				November 12, 2018	2.91	1073.52	-	15.74	0.18	1.80
MW-9109S	1076.45	7.86	5.0	April 21, 2008	5.63	1070.82	-	7.75	0.11	2.20
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	6.88	1069.57	-	7.74	0.12	2.40
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	6.16	1070.29	-	7.74	0.12	2.40
				August 5, 2009	6.12	1070.33	-	7.78	0.08	1.60
				November 30, 2009	6.53	1069.92	-	7.73	0.13	2.60
				February 24, 2010	6.91	1069.54	-	7.73	0.13	2.60
				May 17, 2010	6.23	1070.22	-	7.71	0.15	3.00
				November 1, 2010	5.67	1070.78	-	7.75	0.11	2.20
				May 9, 2011	4.83	1071.62	-	7.76	0.10	2.00
				November 7, 2011	6.07	1070.38	-	7.78	0.08	1.60
				May 29, 2012	6.18	1070.27	-	7.78	0.08	1.60
				November 26, 2012	6.92	1069.53	-	7.75	0.11	2.20
				May 6, 2013	5.96	1070.49	-	7.74	0.12	2.40
				November 12, 2013	6.94	1069.51	-	7.71	0.15	3.00
				May 27, 2014	5.72	1070.73	-	7.70	0.16	3.20
				November 17, 2014	7.52	1068.93	-	7.73	0.13	2.60
				May 19, 2015	6.98	1069.47	-	7.75	0.11	2.20
				November 16, 2015	5.92	1070.53	-	7.74	0.12	2.40
				May 9, 2016	6.45	1070.00	-	7.75	0.11	2.20
				November 15, 2016	7.36	1069.09	-	7.75	0.11	2.20
				May 16, 2017	5.40	1071.05	-	7.76	0.10	2.00
				November 6, 2017	7.18	1069.27	-	7.72	0.14	2.80
				May 14, 2018	6.00	1070.45	-	7.75	0.11	2.20
				November 12, 2018	5.52	1070.93	-	7.75	0.11	2.20
MW-8808S	1076.00	17.65	16.3	April 21, 2008	4.65	1071.35	-	16.77	0.88	5.40
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	6.58	1069.42	-	16.78	0.87	5.34
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	4.76	1071.24	-	16.74	0.91	5.58
				August 5, 2009	4.56	1071.44	-	16.75	0.90	5.52
				November 30, 2009	5.59	1070.41	-	16.75	0.90	5.52
				February 24, 2010	6.17	1069.83	-	16.75	0.90	5.52
				May 17, 2010	5.45	1070.55	-	17.65	0.00	0.00
				November 1, 2010	5.04	1070.96	-	17.71	-0.06	0.00
				May 9, 2011	4.31	1071.69	-	17.70	-0.05	0.00
				November 7, 2011	5.13	1070.87	-	17.72	-0.07	0.00
				May 29, 2012	4.71	1071.29	-	17.74	-0.09	0.00
				November 26, 2012	6.31	1069.69	-	17.72	-0.07	0.00
				May 6, 2013	4.30	1071.70	-	17.70	-0.05	0.00
				November 12, 2013	6.34	1069.66	-	17.67	-0.02	0.00
				May 27, 2014	4.72	1071.28	-	17.71	-0.06	0.00
				November 17, 2014	7.05	1068.95	-	17.72	-0.07	0.00
				May 19, 2015	6.10	1069.90	-	17.67	-0.02	0.00
				November 16, 2015	5.08	1070.92	-	17.68	-0.03	0.00
				May 9, 2016	5.74	1070.26	-	17.70	-0.05	0.00
				November 15, 2016	6.21	1069.79	-	17.67	-0.02	0.00
				May 16, 2017	4.29	1071.71	-	17.70	-0.05	0.00
				November 6, 2017	6.78	1069.22	-	17.67	-0.02	0.00
				May 14, 2018	4.83	1071.17	-	17.70	-0.05	0.00
				November 12, 2018	5.18	1070.82	-	17.68	-0.03	0.00

Table 2
Gauging Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
MW-0201*	1077.20	18.92	5.0	April 21, 2008	5.17	1072.03	-	19.71	-0.79	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	7.11	1070.09	-	19.62	-0.70	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	5.74	1071.46	-	19.62	-0.70	0.00
				August 5, 2009	5.84	1071.36	-	19.69	-0.77	0.00
				November 30, 2009	6.08	1071.12	-	19.63	-0.71	0.00
				February 24, 2010	6.41	1070.79	-	19.67	-0.75	0.00
				May 17, 2010	5.97	1071.23	-	19.63	-0.71	0.00
				November 1, 2010	5.29	1071.91	-	19.70	-0.78	0.00
				May 9, 2011	4.86	1072.34	-	19.68	-0.76	0.00
				November 7, 2011	5.51	1071.69	-	19.64	-0.72	0.00
				May 29, 2012	5.48	1071.72	-	19.72	-0.80	0.00
				November 26, 2012	6.61	1070.59	-	19.63	-0.71	0.00
				May 6, 2013	5.16	1072.04	-	19.62	-0.70	0.00
				November 12, 2013	6.88	1070.32	-	19.63	-0.71	0.00
				May 27, 2014	5.45	1071.75	-	19.69	-0.77	0.00
				November 17, 2014	7.33	1069.87	-	19.67	-0.75	0.00
				May 19, 2015	6.57	1070.63	-	19.64	-0.72	0.00
				November 16, 2015	5.66	1071.54	-	19.67	-0.75	0.00
				May 9, 2016	6.22	1070.98	-	19.65	-0.73	0.00
				November 15, 2016	6.76	1070.44	-	19.65	-0.73	0.00
				May 16, 2017	5.00	1072.20	-	19.66	-0.74	0.00
				November 6, 2017	7.13	1070.07	-	19.63	-0.71	0.00
				May 14, 2018	5.45	1071.75	-	19.65	-0.73	0.00
				November 12, 2018	5.84	1071.36	-	19.66	-0.74	0.00
MW-9110S	1077.66	22.00	10.0	April 21, 2008	4.84	1072.82	-	20.91	1.09	10.90
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	5.11	1072.55	-	20.64	1.36	13.60
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	5.11	1072.55	-	20.64	1.36	13.60
				August 5, 2009	4.92	1072.74	-	20.69	1.31	13.10
				November 30, 2009	5.21	1072.45	-	20.65	1.35	13.50
				February 24, 2010	5.55	1072.11	-	20.53	1.47	14.70
				May 17, 2010	4.99	1072.67	-	22.00	0.00	0.00
				November 1, 2010	4.74	1072.92	-	22.06	-0.06	0.00
				May 9, 2011	4.33	1073.33	-	22.05	-0.05	0.00
				November 7, 2011	3.95	1073.71	-	22.08	-0.08	0.00
				May 29, 2012	4.94	1072.72	-	22.08	-0.08	0.00
				November 26, 2012	5.71	1071.95	-	22.01	-0.01	0.00
				May 6, 2013	4.87	1072.79	-	22.05	-0.05	0.00
				November 12, 2013	5.63	1072.03	-	22.01	-0.01	0.00
				May 27, 2014	4.70	1072.96	-	22.01	-0.01	0.00
				November 17, 2014	5.74	1071.92	-	22.04	-0.04	0.00
				May 19, 2015	5.42	1072.24	-	22.01	-0.01	0.00
				November 16, 2015	4.84	1072.82	-	22.02	-0.02	0.00
				May 9, 2016	5.21	1072.45	-	22.03	-0.03	0.00
				November 15, 2016	5.94	1071.72	-	22.02	-0.02	0.00
				May 16, 2017	4.42	1073.24	-	22.01	-0.01	0.00
				November 6, 2017	5.62	1072.04	-	21.95	0.05	0.50
				May 14, 2018	4.89	1072.77	-	22.01	-0.01	0.00
				November 12, 2018	4.68	1072.98	-	22.00	0.00	0.00
MW-8807S	1077.89	17.94	16.3	April 21, 2008	4.50	1073.39	-	15.54	2.40	14.72
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	5.21	1072.68	-	15.37	2.57	15.77
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	4.75	1073.14	-	15.39	2.55	15.64
				August 5, 2009	4.40	1073.49	-	15.46	2.48	15.21
				November 30, 2009	4.76	1073.13	-	15.43	2.51	15.40
				February 24, 2010	5.10	1072.79	-	15.38	2.56	15.71
				May 17, 2010	4.53	1073.36	-	17.94	0.00	0.00
				November 1, 2010	4.38	1073.51	-	17.98	-0.04	0.00
				May 9, 2011	4.15	1073.74	-	17.97	-0.03	0.00
				November 7, 2011	4.61	1073.28	-	17.98	-0.04	0.00
				May 29, 2012	4.65	1073.24	-	17.99	-0.05	0.00
				November 26, 2012	5.19	1072.70	-	17.98	-0.04	0.00
				May 6, 2013	4.56	1073.33	-	17.98	-0.04	0.00
				November 12, 2013	5.91	1071.98	-	17.94	0.00	0.00
				May 27, 2014	4.39	1073.50	-	17.97	-0.03	0.00
				November 17, 2014	5.32	1072.57	-	17.95	-0.01	0.00
				May 19, 2015	4.90	1072.99	-	17.95	-0.01	0.00
				November 16, 2015	4.45	1073.44	-	17.98	-0.04	0.00
				May 9, 2016	4.86	1073.03	-	17.97	-0.03	0.00
				November 15, 2016	5.53	1072.36	-	17.96	-0.02	0.00
				May 16, 2017	4.05	1073.84	-	17.98	-0.04	0.00
				November 6, 2017	5.19	1072.70	-	17.96	-0.02	0.00
				May 14, 2018	4.41	1073.48	-	17.98	-0.04	0.00
				November 12, 2018	4.33	1073.56	-	17.95	-0.01	0.00

Table 2
Gauging Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
MW-0301*	1075.36	18.72	10.0	April 21, 2008	4.38	1070.98	-	18.57	0.15	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	6.35	1069.01	-	18.58	0.14	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	4.58	1070.78	-	18.56	0.16	0.00
				August 5, 2009	5.16	1070.20	-	18.52	0.20	0.00
				November 30, 2009	5.34	1070.02	-	18.54	0.18	0.00
				February 24, 2010	5.91	1069.45	-	18.54	0.18	0.00
				May 17, 2010	5.16	1070.20	-	18.72	0.00	0.00
				November 1, 2010	4.69	1070.67	-	18.75	-0.03	0.00
				May 9, 2011	3.94	1071.42	-	18.74	-0.02	0.00
				November 7, 2011	4.80	1070.56	-	18.78	-0.06	0.00
				May 29, 2012	4.45	1070.91	-	18.78	-0.06	0.00
				November 26, 2012	6.01	1069.35	-	18.74	-0.02	0.00
				May 6, 2013	4.06	1071.30	-	18.50	0.22	0.20
				November 12, 2013	6.07	1069.29	-	18.72	0.00	0.00
				May 27, 2014	4.42	1070.94	-	18.75	-0.03	0.00
				November 17, 2014	6.68	1068.68	-	18.79	-0.07	0.00
				May 19, 2015	5.88	1069.48	-	18.74	-0.02	0.00
				November 16, 2015	4.72	1070.64	-	18.73	-0.01	0.00
				May 9, 2016	5.39	1069.97	-	18.73	-0.01	0.00
				November 15, 2016	5.99	1069.37	-	18.74	-0.02	0.00
				May 16, 2017	4.01	1071.35	-	18.75	-0.03	0.00
				November 6, 2017	6.35	1069.01	-	18.72	0.00	0.00
				May 14, 2018	4.69	1070.67	-	18.75	-0.03	0.00
				November 12, 2018	4.80	1070.56	-	18.76	-0.04	0.00
MW-8806S	1079.10	19.30	16.3	April 21, 2008	4.73	1074.37	-	18.66	0.64	3.93
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	5.72	1073.38	-	18.67	0.63	3.87
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	5.30	1073.80	-	18.60	0.70	4.29
				August 5, 2009	4.80	1074.30	-	18.67	0.63	3.87
				November 30, 2009	5.23	1073.87	-	18.56	0.74	4.54
				February 24, 2010	5.62	1073.48	-	18.65	0.65	3.99
				May 17, 2010	4.97	1074.13	-	19.30	0.00	0.00
				November 1, 2010	4.65	1074.45	-	19.37	-0.07	0.00
				May 9, 2011	4.33	1074.77	-	19.35	-0.05	0.00
				November 7, 2011	5.09	1074.01	-	19.38	-0.08	0.00
				May 29, 2012	5.02	1074.08	-	19.37	-0.07	0.00
				November 26, 2012	5.64	1073.46	-	19.34	-0.04	0.00
				May 6, 2013	4.91	1074.19	-	19.35	-0.05	0.00
				November 12, 2013	5.62	1073.48	-	19.30	0.00	0.00
				May 27, 2014	4.64	1074.46	-	19.34	-0.04	0.00
				November 17, 2014	5.52	1073.58	-	19.32	-0.02	0.00
				May 19, 2015	5.16	1073.94	-	19.29	0.01	0.06
				November 16, 2015	4.88	1074.22	-	19.30	0.00	0.00
				May 9, 2016	5.32	1073.78	-	19.30	0.00	0.00
				November 15, 2016	6.21	1072.89	-	19.31	-0.01	0.00
				May 16, 2017	4.16	1074.94	-	19.30	0.00	0.00
				November 6, 2017	5.75	1073.35	-	19.30	0.00	0.00
				May 14, 2018	4.78	1074.32	-	19.30	0.00	0.00
				November 12, 2018	4.74	1074.36	-	19.29	0.01	0.06
AW-01	1079.68	15.04	11.7	April 21, 2008	5.20	1074.73	-	15.26	0.03	0.26
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	15.29	0.00	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	15.23	0.06	0.51
				August 5, 2009	4.88	1075.05	-	15.12	0.17	1.45
				November 30, 2009	-	-	-	15.23	0.06	0.51
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	14.70	0.59	5.04
				November 1, 2010	4.68	1075.25	-	14.40	0.89	7.61
				May 9, 2011	4.77	1074.91	-	14.35	0.69	5.90
				November 7, 2011	4.83	1074.85	-	14.53	0.51	4.36
				May 29, 2012	4.85	1074.83	-	14.52	0.52	4.44
				November 26, 2012	5.16	1074.52	-	14.40	0.64	5.47
				May 6, 2013	4.89	1074.79	-	15.14	-0.10	0.00
				November 12, 2013	4.82	1074.86	-	15.12	-0.08	0.00
				May 27, 2014	4.78	1074.90	-	14.99	0.05	0.43
				May 19, 2015	-	-	-	15.00	0.04	0.34
				May 9, 2016	4.86	1074.82	-	15.50	-0.46	0.00
				May 16, 2017	4.60	1075.08	-	14.98	0.06	0.51
				May 14, 2018	4.80	1074.88	-	15.05	-0.01	0.00

Table 2
Gauging Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
AW-02	1079.57	14.69	6.0	April 21, 2008	4.85	1074.72	-	13.79	0.90	15.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	13.70	0.99	16.50
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	13.48	1.21	20.17
				August 5, 2009	4.54	1075.03	-	13.41	1.28	21.33
				November 30, 2009	-	-	-	13.29	1.40	23.33
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	14.53	0.16	2.67
				November 1, 2010	4.47	1075.10	-	14.34	0.35	5.83
				May 9, 2011	4.55	1075.02	-	14.33	0.36	6.00
				November 7, 2011	4.60	1074.97	-	14.45	0.24	4.00
				May 29, 2012	4.61	1074.96	-	14.31	0.38	6.33
				November 26, 2012	4.95	1074.62	-	14.34	0.35	5.83
				May 6, 2013	4.65	1074.92	-	14.29	0.40	6.67
				November 12, 2013	4.61	1074.96	-	14.37	0.32	5.33
				May 27, 2014	4.52	1075.05	-	14.28	0.41	6.83
				May 19, 2015	-	-	-	14.27	0.42	7.00
				May 9, 2016	4.68	1074.89	-	14.33	0.36	6.00
				May 16, 2017	4.39	1075.18	-	14.20	0.49	8.17
				May 14, 2018	4.60	1074.97	-	14.19	0.50	8.33
AW-03	1079.69	17.13	8.0	April 21, 2008	4.96	1074.73	-	14.83	2.30	28.75
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	14.65	2.48	31.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	14.27	2.86	35.75
				August 5, 2009	4.93	1074.76	-	14.35	2.78	34.75
				November 30, 2009	-	-	-	14.25	2.88	36.00
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	17.13	0.00	0.00
				November 1, 2010	4.56	1075.13	-	17.21	-0.08	0.00
				May 9, 2011	4.68	1075.01	-	17.10	0.03	0.37
				November 7, 2011	4.69	1075.00	-	17.15	-0.02	0.00
				May 29, 2012	4.73	1074.96	-	17.01	0.12	1.50
				November 26, 2012	5.05	1074.64	-	17.15	-0.02	0.00
				May 6, 2013	4.77	1074.92	-	17.10	0.03	0.37
				November 12, 2013	4.71	1074.98	-	17.12	0.01	0.12
				May 27, 2014	4.66	1075.03	-	16.97	0.16	2.00
				May 19, 2015	-	-	-	17.05	0.08	1.00
				May 9, 2016	4.79	1074.90	-	17.10	0.03	0.37
				May 16, 2017	4.45	1075.24	-	16.88	0.25	3.13
				May 14, 2018	4.67	1075.02	-	16.90	0.23	2.88
AW-04	1081.31	18.97	10.0	April 21, 2008	7.01	1074.73	-	17.95	1.45	14.50
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	17.75	1.65	16.50
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	17.52	1.88	18.80
				August 5, 2009	6.71	1075.03	-	17.59	1.81	18.10
				November 30, 2009	-	-	-	17.32	2.08	20.80
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	19.40	0.00	0.00
				November 1, 2010	6.45	1075.29	-	19.28	0.12	1.20
				May 9, 2011	6.54	1074.77	-	19.27	-0.30	0.00
				November 7, 2011	6.58	1074.73	-	19.26	-0.29	0.00
				May 29, 2012	6.60	1074.71	-	19.30	-0.33	0.00
				November 26, 2012	6.93	1074.38	-	19.23	-0.26	0.00
				May 6, 2013	6.65	1074.66	-	19.24	-0.27	0.00
				November 12, 2013	6.95	1074.36	-	19.14	-0.17	0.00
				May 27, 2014	6.51	1074.80	-	19.22	-0.25	0.00
				May 19, 2015	-	-	-	19.19	-0.22	0.00
				May 9, 2016	6.64	1074.67	-	19.24	-0.27	0.00
				May 16, 2017	6.32	1074.99	-	19.20	-0.23	0.00
				May 14, 2018	6.42	1074.89	-	19.24	-0.27	0.00

Table 2
Gauging Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
AW-05	1081.00	16.25	8.5	April 21, 2008	6.27	1074.73	-	15.54	0.71	8.35
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	15.65	0.60	7.06
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	15.21	1.04	12.24
				August 5, 2009	5.98	1075.02	-	15.38	0.87	10.24
				November 30, 2009	-	-	-	15.15	1.10	12.94
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	16.25	0.00	0.00
				November 1, 2010	5.88	1075.12	-	16.36	-0.11	0.00
				May 9, 2011	5.99	1075.01	-	16.23	0.02	0.24
				November 7, 2011	6.01	1074.99	-	16.25	0.00	0.00
				May 29, 2012	6.05	1074.95	-	16.30	-0.05	0.00
				November 26, 2012	6.35	1074.65	-	16.24	0.01	0.12
				May 6, 2013	6.08	1074.92	-	16.29	-0.04	0.00
				November 12, 2013	6.82	1074.18	-	16.20	0.05	0.59
				May 27, 2014	5.96	1075.04	-	16.22	0.03	0.35
				May 19, 2015	-	-	-	16.19	0.06	0.71
				May 9, 2016	6.09	1074.91	-	16.20	0.05	0.59
				May 16, 2017	5.76	1075.24	-	16.22	0.03	0.35
				May 14, 2018	6.00	1075.00	-	16.23	0.02	0.24
AW-06	1080.72	14.80	9.0	April 21, 2008	6.00	1074.72	-	14.45	0.35	3.89
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	14.83	-0.03	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	14.11	0.69	7.67
				August 5, 2009	5.71	1075.01	-	13.90	0.90	10.00
				November 30, 2009	-	-	-	14.00	0.80	8.89
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	13.76	1.04	11.56
				November 1, 2010	5.61	1075.11	-	13.60	1.20	13.33
				May 9, 2011	5.71	1075.01	-	13.65	1.15	12.78
				November 7, 2011	5.74	1074.98	-	13.76	1.04	11.56
				May 29, 2012	5.78	1074.94	-	13.72	1.08	12.00
				November 26, 2012	6.08	1074.64	-	13.74	1.06	11.78
				May 6, 2013	5.81	1074.91	-	14.85	-0.05	0.00
				November 12, 2013	5.73	1074.99	-	14.28	0.52	5.78
				May 27, 2014	5.68	1075.04	-	14.51	0.29	3.22
				May 19, 2015	-	-	-	14.76	0.04	0.44
				May 9, 2016	5.82	1074.90	-	14.69	0.11	1.22
				May 16, 2017	5.51	1075.21	-	14.51	0.29	3.22
				May 14, 2018	5.67	1075.05	-	14.51	0.29	3.22
AW-07	1080.38	14.56	9.0	April 21, 2008	5.65	1074.73	-	14.40	0.16	1.78
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	14.47	0.09	1.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	14.42	0.14	1.56
				August 5, 2009	5.38	1075.00	-	14.41	0.15	1.67
				November 30, 2009	-	-	-	14.32	0.24	2.67
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	14.25	0.31	3.44
				November 1, 2010	5.27	1075.11	-	14.35	0.21	2.33
				May 9, 2011	5.36	1075.02	-	14.35	0.21	2.33
				November 7, 2011	5.40	1074.98	-	14.40	0.16	1.78
				May 29, 2012	5.44	1074.94	-	14.38	0.18	2.00
				November 26, 2012	5.74	1074.64	-	14.36	0.20	2.22
				May 6, 2013	5.46	1074.92	-	14.35	0.21	2.33
				November 12, 2013	5.43	1074.95	-	14.33	0.23	2.56
				May 27, 2014	5.34	1075.04	-	14.19	0.37	4.11
				May 19, 2015	-	-	-	14.32	0.24	2.67
				May 9, 2016	5.47	1074.91	-	14.28	0.28	3.11
				May 16, 2017	5.11	1075.27	-	14.22	0.34	3.78
				May 14, 2018	5.35	1075.03	-	14.25	0.31	3.44

Table 2
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Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
AW-08	1079.93	13.95	8.0	April 21, 2008	5.59	1074.67	-	14.21	0.07	0.87
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	14.32	-0.04	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	14.22	0.06	0.75
				August 5, 2009	5.25	1075.01	-	14.12	0.16	2.00
				November 30, 2009	-	-	-	14.18	0.10	1.25
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	13.87	0.41	5.13
				November 1, 2010	5.02	1075.24	-	13.97	0.31	3.87
				May 9, 2011	5.11	1074.82	-	13.74	0.21	2.62
				November 7, 2011	5.16	1074.77	-	13.32	0.63	7.87
				May 29, 2012	5.19	1074.74	-	13.29	0.66	8.25
				November 26, 2012	5.49	1074.44	-	13.27	0.68	8.50
				May 6, 2013	5.23	1074.70	-	14.15	-0.20	0.00
				November 12, 2013	5.18	1074.75	-	13.75	0.20	2.50
				May 27, 2014	5.10	1074.83	-	13.21	0.74	9.25
				May 19, 2015	-	-	-	13.27	0.68	8.50
				May 9, 2016	5.22	1074.71	-	13.29	0.66	8.25
				May 16, 2017	4.90	1075.03	-	13.28	0.67	8.38
				May 14, 2018	5.10	1074.83	-	13.28	0.67	8.38
AW-09	1080.15	15.13	7.5	April 21, 2008	5.42	1074.73	-	15.11	0.02	0.27
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	15.19	-0.06	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	14.95	0.18	2.40
				August 5, 2009	5.13	1075.02	-	14.90	0.23	3.07
				November 30, 2009	-	-	-	14.80	0.33	4.40
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	13.72	1.41	18.80
				November 1, 2010	5.03	1075.12	-	13.75	1.38	18.40
				May 9, 2011	5.12	1075.03	-	14.85	0.28	3.73
				November 7, 2011	5.17	1074.98	-	14.79	0.34	4.53
				May 29, 2012	5.18	1074.97	-	14.82	0.31	4.13
				November 26, 2012	5.51	1074.64	-	14.83	0.30	4.00
				May 6, 2013	5.25	1074.90	-	14.90	0.23	3.07
				November 12, 2013	5.16	1074.99	-	14.75	0.38	5.07
				May 27, 2014	5.12	1075.03	-	14.29	0.84	11.20
				May 19, 2015	-	-	-	14.65	0.48	6.40
				May 9, 2016	5.23	1074.92	-	14.60	0.53	7.07
				May 16, 2017	4.87	1075.28	-	14.43	0.70	9.33
				May 14, 2018	5.13	1075.02	-	14.44	0.69	9.20
AW-10	1079.78	15.90	7.0	April 21, 2008	5.04	1074.74	-	15.90	0.00	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	15.92	-0.02	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	15.33	0.57	8.14
				August 5, 2009	4.77	1075.01	-	15.50	0.40	5.71
				November 30, 2009	-	-	-	15.30	0.60	8.57
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	15.24	0.66	9.43
				November 1, 2010	4.66	1075.12	-	15.14	0.76	10.86
				May 9, 2011	4.73	1075.05	-	14.80	1.10	15.71
				November 7, 2011	4.77	1075.01	-	15.37	0.53	7.57
				May 29, 2012	4.80	1074.98	-	15.25	0.65	9.29
				November 26, 2012	5.13	1074.65	-	15.20	0.70	10.00
				May 6, 2013	4.85	1074.93	-	15.92	-0.02	0.00
				November 12, 2013	4.81	1074.97	-	15.55	0.35	5.00
				May 27, 2014	4.73	1075.05	-	14.72	1.18	16.86
				May 19, 2015	-	-	-	15.10	0.80	11.43
				May 9, 2016	4.87	1074.91	-	14.85	1.05	15.00
				May 16, 2017	4.52	1075.26	-	14.78	1.12	16.00
				May 14, 2018	4.81	1074.97	-	14.80	1.10	15.71

Table 2
Gauging Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
AW-11	1080.20	16.30	7.0	April 21, 2008	6.01	1074.73	-	16.19	0.11	1.57
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	16.26	0.04	0.57
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	16.12	0.18	2.57
				August 5, 2009	5.72	1075.02	-	16.02	0.28	4.00
				November 30, 2009	-	-	-	15.80	0.50	7.14
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	15.60	0.70	10.00
				November 1, 2010	5.29	1075.45	-	15.27	1.03	14.71
				May 9, 2011	5.42	1074.78	-	15.76	0.54	7.71
				November 7, 2011	4.45	1075.75	-	14.93	1.37	19.57
				May 29, 2012	5.47	1074.73	-	15.13	1.17	16.71
				November 26, 2012	5.80	1074.40	-	15.04	1.26	18.00
				May 6, 2013	5.52	1074.68	-	15.92	0.38	5.43
				November 12, 2013	5.45	1074.75	-	15.67	0.63	9.00
				May 27, 2014	5.40	1074.80	-	15.54	0.76	10.86
				May 19, 2015	-	-	-	15.52	0.78	11.14
				May 9, 2016	5.52	1074.68	-	15.57	0.73	10.43
				May 16, 2017	5.15	1075.05	-	15.56	0.74	10.57
				May 14, 2018	5.46	1074.74	-	15.56	0.74	10.57
AW-12*	1079.47	19.43	10.0	April 21, 2008	4.73	1074.74	-	19.39	0.04	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	19.76	-0.33	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	18.72	19.22	0.21	0.00
				August 5, 2009	4.42	1075.05	18.80	19.30	0.13	0.00
				November 30, 2009	4.42	1075.05	18.06	19.40	0.03	0.00
				February 24, 2010	4.72	1074.75	18.88	19.38	0.05	0.00
				May 17, 2010	4.44	1075.03	19.17	19.37	0.06	0.00
				November 1, 2010	4.32	1075.15	19.06	19.76	-0.33	0.00
				May 9, 2011	4.43	1075.04	19.26	19.76	-0.33	0.00
				November 7, 2011	4.47	1075.00	19.26	19.76	-0.33	0.00
				May 29, 2012	4.51	1074.96	-	19.73	-0.30	0.00
				November 26, 2012	4.83	1074.64	-	19.73	-0.30	0.00
				May 6, 2013	4.55	1074.92	-	19.73	-0.30	0.00
				November 12, 2013	4.48	1074.99	-	19.73	-0.30	0.00
				May 27, 2014	4.42	1075.05	-	18.65	0.78	0.00
				November 17, 2014	-	-	-	19.32	0.11	0.00
				May 19, 2015	-	-	-	19.23	0.20	0.00
				November 18, 2015	-	-	-	-	-	-
				May 9, 2016	4.58	1074.89	-	18.50	0.93	0.00
				November 15, 2016	4.38	1075.09	-	18.55	0.88	0.00
				May 16, 2017	4.41	1075.06	-	19.25	0.18	0.00
				November 6, 2017	4.57	1074.90	-	19.05	0.38	0.00
				May 14, 2018	4.40	1075.07	-	19.40	0.03	0.00
				November 14, 2018	4.29	1075.18	-	19.29	0.14	0.00
AW-13	1079.39	19.00	11.0	April 21, 2008	4.66	1074.73	-	19.02	-0.02	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	19.35	-0.35	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	18.84	0.16	1.45
				August 5, 2009	4.37	1075.02	-	18.98	0.02	0.18
				November 30, 2009	-	-	-	18.84	0.16	1.45
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	18.89	0.11	1.00
				November 1, 2010	4.25	1075.14	-	18.54	0.46	4.18
				May 9, 2011	4.37	1075.02	-	18.63	0.37	3.36
				November 7, 2011	4.40	1074.99	-	18.45	0.55	5.00
				May 29, 2012	4.42	1074.97	-	18.57	0.43	3.91
				November 26, 2012	4.74	1074.65	-	18.55	0.45	4.09
				May 6, 2013	4.47	1074.92	-	18.54	0.46	4.18
				November 12, 2013	4.41	1074.98	-	18.42	0.58	5.27
				May 27, 2014	4.35	1075.04	-	18.25	0.75	6.82
				May 19, 2015	-	-	-	18.20	0.80	7.27
				May 9, 2016	4.45	1074.94	-	18.27	0.73	6.64
				May 16, 2017	4.13	1075.26	-	18.25	0.75	6.82
				May 14, 2018	4.40	1074.99	-	18.20	0.80	7.27

Table 2
Gauging Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
AW-14	1079.60	23.05	4.0	April 21, 2008	4.01	1075.59	-	20.05	3.00	75.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	20.05	3.00	75.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	19.91	3.14	78.50
				August 5, 2009	4.26	1075.34	-	19.97	3.08	77.00
				November 30, 2009	-	-	-	19.90	3.15	78.75
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	20.15	2.90	72.50
				November 1, 2010	4.22	1075.38	-	19.86	3.19	79.75
				May 9, 2011	3.39	1076.21	-	21.05	2.00	50.00
				November 7, 2011	4.45	1075.15	-	21.94	1.11	27.75
				May 29, 2012	4.25	1075.35	-	20.80	2.25	56.25
				November 26, 2012	5.34	1074.26	-	20.75	2.30	57.50
				May 6, 2013	4.27	1075.33	-	20.65	2.40	60.00
				November 12, 2013	5.28	1074.32	-	20.73	2.32	58.00
				May 27, 2014	3.79	1075.81	-	20.66	2.39	59.75
				May 19, 2015	-	-	-	20.57	2.48	62.00
				May 9, 2016	4.80	1074.80	-	20.60	2.45	61.25
				May 16, 2017	3.80	1075.80	-	20.64	2.41	60.25
				May 14, 2018	4.10	1075.50	-	20.64	2.41	60.25
AW-15	1079.85	19.33	3.0	April 21, 2008	4.27	1075.58	-	19.34	-0.01	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	19.34	-0.01	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	19.30	0.03	1.00
				August 5, 2009	4.52	1075.33	-	19.35	-0.02	0.00
				November 30, 2009	-	-	-	19.30	0.03	1.00
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	19.28	0.05	1.67
				November 1, 2010	4.41	1075.44	-	19.86	-0.53	0.00
				May 9, 2011	3.66	1076.19	-	19.29	0.04	1.33
				November 7, 2011	4.69	1075.16	-	19.36	-0.03	0.00
				May 29, 2012	4.51	1075.34	-	19.32	0.01	0.33
				November 26, 2012	5.60	1074.25	-	19.31	0.02	0.67
				May 6, 2013	4.53	1075.32	-	19.10	0.23	7.67
				November 12, 2013	5.56	1074.29	-	19.26	0.07	2.33
				May 27, 2014	4.01	1075.84	-	19.08	0.25	8.33
				May 19, 2015	-	-	-	19.42	-0.09	0.00
				May 9, 2016	5.05	1074.80	-	19.25	0.08	2.67
				May 16, 2017	4.01	1075.84	-	19.26	0.07	2.33
				May 14, 2018	4.35	1075.50	-	19.26	0.07	2.33
AW-16	1079.61	18.39	3.0	April 21, 2008	4.04	1075.57	-	17.76	0.63	21.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	17.70	0.69	23.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	17.69	0.70	23.33
				August 5, 2009	4.30	1075.31	-	17.71	0.68	22.67
				November 30, 2009	-	-	-	17.69	0.70	23.33
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	-	-	-	18.39	0.00	0.00
				November 1, 2010	4.19	1075.42	-	18.47	-0.08	0.00
				May 9, 2011	3.39	1076.22	-	18.46	-0.07	0.00
				November 7, 2011	4.44	1075.17	-	18.48	-0.09	0.00
				May 29, 2012	4.29	1075.32	-	18.47	-0.08	0.00
				November 26, 2012	5.37	1074.24	-	18.45	-0.06	0.00
				May 6, 2013	4.32	1075.29	-	18.42	-0.03	0.00
				November 12, 2013	5.31	1074.30	-	18.39	0.00	0.00
				May 27, 2014	3.86	1075.75	-	18.40	-0.01	0.00
				May 19, 2015	-	-	-	18.39	0.00	0.00
				May 9, 2016	4.86	1074.75	-	18.44	-0.05	0.00
				May 16, 2017	3.83	1075.78	-	18.45	-0.06	0.00
				May 14, 2018	4.21	1075.40	-	18.45	-0.06	0.00

Table 2
Gauging Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
PMW-01	1079.56	14.65	6.0	April 21, 2008	4.83	1074.73	-	14.67	-0.02	0.00
				May 6, 2008	4.85	1074.71	-	14.50	0.15	2.50
				August 5, 2008	4.76	1074.80	-	14.52	0.13	2.17
				November 10, 2008	4.83	1074.73	-	14.62	0.03	0.50
				February 17, 2009	4.50	1075.06	-	14.50	0.15	2.50
				May 11, 2009	4.64	1074.92	-	14.47	0.18	3.00
				August 5, 2009	4.53	1075.03	-	14.52	0.13	2.17
				November 30, 2009	4.46	1075.10	-	14.41	0.24	4.00
				February 24, 2010	4.65	1074.91	-	14.52	0.13	2.17
				May 17, 2010	4.62	1074.94	-	14.48	0.17	2.83
				November 1, 2010	4.45	1075.11	-	14.47	0.18	3.00
				May 9, 2011	4.54	1075.02	-	14.47	0.18	3.00
				November 7, 2011	4.57	1074.99	-	14.50	0.15	2.50
				May 29, 2012	4.60	1074.96	-	14.51	0.14	2.33
				November 26, 2012	4.93	1074.63	-	14.45	0.20	3.33
				May 6, 2013	4.64	1074.92	-	14.44	0.21	3.50
				November 12, 2013	4.59	1074.97	-	14.44	0.21	3.50
				May 27, 2014	4.54	1075.02	-	14.44	0.21	3.50
				November 17, 2014	4.00	1075.56	-	14.40	0.25	4.17
				May 19, 2015	4.39	1075.17	-	14.40	0.25	4.17
				November 16, 2015	4.69	1074.87	-	14.46	0.19	3.17
				May 9, 2016	4.63	1074.93	-	14.43	0.22	3.67
				November 15, 2016	4.97	1074.59	-	14.38	0.27	4.50
				May 16, 2017	4.31	1075.25	-	14.40	0.25	4.17
				November 6, 2017	-	-	-	-	-	-
				May 14, 2018	4.65	1074.91	-	14.40	0.25	4.17
				November 12, 2018	4.45	1075.11	-	14.43	0.22	3.67
PMW-02*	1079.64	11.53	3.0	April 21, 2008	5.74	1074.02	-	11.73	-0.08	0.00
				May 6, 2008	6.09	1073.67	-	11.66	-0.01	0.00
				August 5, 2008	6.22	1073.54	-	11.62	0.03	1.00
				November 10, 2008	6.42	1073.34	-	11.68	-0.03	0.00
				February 17, 2009	5.50	1074.26	-	11.62	0.03	1.00
				May 11, 2009	6.04	1073.72	-	11.65	0.00	0.00
				August 5, 2009	5.63	1074.13	-	11.71	-0.06	0.00
				November 30, 2009	5.89	1073.87	-	11.55	0.10	3.33
				February 24, 2010	6.30	1073.46	-	11.66	-0.01	0.00
				May 17, 2010	5.86	1073.90	-	11.60	0.05	1.67
				November 1, 2010	5.50	1074.26	-	11.68	-0.03	0.00
				May 9, 2011	5.36	1074.40	-	11.67	-0.02	0.00
				November 7, 2011	5.90	1073.86	-	11.67	-0.02	0.00
				May 29, 2012	5.90	1073.86	-	11.70	-0.05	0.00
				November 26, 2012	6.41	1073.35	-	11.65	0.00	0.00
				May 6, 2013	5.79	1073.97	-	11.68	-0.03	0.00
				November 12, 2013	6.35	1073.41	-	11.64	0.01	0.33
				May 27, 2014	5.59	1074.17	-	11.69	-0.04	0.00
				November 17, 2014	-	-	-	-	-	-
				May 19, 2015	5.86	1073.90	-	11.60	0.05	1.67
				November 16, 2015	6.01	1073.75	-	11.63	0.02	0.67
				May 9, 2016	6.18	1073.46	-	11.51	0.02	0.67
				November 15, 2016	6.86	1072.78	-	11.50	0.03	1.00
				May 16, 2017	5.20	1074.44	-	11.53	0.00	0.00
				November 6, 2017	-	-	-	-	-	-
				May 14, 2018	5.70	1073.94	-	11.53	0.00	0.00
				November 12, 2018	5.68	1073.96	-	11.53	0.00	0.00
PMW-03	1079.80	14.57	9.0	April 21, 2008	5.06	1074.74	-	14.59	-0.02	0.00
				May 6, 2008	5.11	1074.69	-	14.60	-0.03	0.00
				August 5, 2008	4.99	1074.81	-	14.59	-0.02	0.00
				November 10, 2008	5.07	1074.73	-	14.59	-0.02	0.00
				February 17, 2009	4.79	1075.01	-	14.55	0.02	0.22
				May 11, 2009	4.87	1074.93	-	14.57	0.00	0.00
				August 5, 2009	4.78	1075.02	-	14.62	-0.05	0.00
				November 30, 2009	4.28	1075.52	-	14.58	-0.01	0.00
				February 24, 2010	4.89	1074.91	-	14.58	-0.01	0.00
				May 17, 2010	4.84	1074.96	-	14.53	0.04	0.44
				November 1, 2010	4.70	1075.10	-	14.58	-0.01	0.00
				May 9, 2011	4.76	1075.04	-	14.58	-0.01	0.00
				November 7, 2011	4.82	1074.98	-	14.50	0.07	0.78
				May 29, 2012	4.81	1074.99	-	14.37	0.20	2.22
				November 26, 2012	5.16	1074.64	-	14.45	0.12	1.33
				May 6, 2013	4.88	1074.92	-	14.50	0.07	0.78
				November 12, 2013	4.88	1074.92	-	14.51	0.06	0.67
				May 27, 2014	4.79	1075.01	-	14.50	0.07	0.78
				November 17, 2014	5.83	1073.97	-	14.52	0.05	0.56
				May 19, 2015	3.35	1076.45	-	14.49	0.08	0.89
				November 16, 2015	4.91	1074.89	-	14.52	0.05	0.56
				May 9, 2016	4.86	1074.94	-	14.51	0.06	0.67
				November 15, 2016	5.21	1074.59	-	14.51	0.06	0.67
				May 16, 2017	4.50	1075.30	-	14.53	0.04	0.44
				November 6, 2017	-	-	-	-	-	-
				May 14, 2018	4.80	1075.00	-	14.53	0.04	0.44
				November 12, 2018	4.65	1075.15	-	14.53	0.04	0.44

Table 2
Gauging Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
PMW-04	1080.88	14.50	9.0	April 21, 2008	6.16	1074.72	-	14.54	-0.04	0.00
				May 6, 2008	6.21	1074.67	-	14.55	-0.05	0.00
				August 5, 2008	6.05	1074.83	-	14.49	0.01	0.11
				November 10, 2008	6.15	1074.73	-	14.56	-0.06	0.00
				February 17, 2009	5.85	1075.03	-	14.49	0.01	0.11
				May 11, 2009	5.95	1074.93	-	14.53	-0.03	0.00
				August 5, 2009	5.87	1075.01	-	14.56	-0.06	0.00
				November 30, 2009	5.78	1075.10	-	14.40	0.10	1.11
				February 24, 2010	5.97	1074.91	-	14.53	-0.03	0.00
				May 17, 2010	5.93	1074.95	-	14.49	0.01	0.11
				November 1, 2010	5.77	1075.11	-	14.52	-0.02	0.00
				May 9, 2011	5.86	1075.02	-	14.52	-0.02	0.00
				November 7, 2011	5.90	1074.98	-	14.53	-0.03	0.00
				May 29, 2012	5.91	1074.97	-	14.55	-0.05	0.00
				November 26, 2012	6.24	1074.64	-	14.50	0.00	0.00
				May 6, 2013	5.96	1074.92	-	14.49	0.01	0.11
				November 12, 2013	5.92	1074.96	-	14.70	-0.20	0.00
				May 27, 2014	5.85	1075.03	-	14.46	0.04	0.44
				November 17, 2014	5.32	1075.56	-	14.45	0.05	0.56
				May 19, 2015	5.70	1075.18	-	14.42	0.08	0.89
				November 16, 2015	6.01	1074.87	-	14.45	0.05	0.56
				May 9, 2016	5.96	1074.92	-	14.47	0.03	0.33
				November 15, 2016	6.32	1074.56	-	14.48	0.02	0.22
				May 16, 2017	5.64	1075.24	-	14.45	0.05	0.56
				November 6, 2017	5.82	1075.06	-	14.45	0.05	0.56
				May 14, 2018	5.85	1075.03	-	14.45	0.05	0.56
				November 12, 2018	5.74	1075.14	-	14.47	0.03	0.33
PMW-05	1079.79	15.50	7.0	April 21, 2008	5.02	1074.70	-	16.09	-0.59	0.00
				May 6, 2008	5.07	1074.65	-	16.09	-0.59	0.00
				August 5, 2008	4.93	1074.79	-	16.08	-0.58	0.00
				November 10, 2008	5.02	1074.70	-	16.10	-0.60	0.00
				February 17, 2009	4.68	1075.04	-	16.18	-0.68	0.00
				May 11, 2009	4.82	1074.90	-	16.10	-0.60	0.00
				August 5, 2009	4.71	1075.01	-	16.14	-0.64	0.00
				November 30, 2009	4.61	1075.11	-	16.04	-0.54	0.00
				February 24, 2010	4.83	1074.89	-	16.12	-0.62	0.00
				May 17, 2010	4.79	1074.93	-	16.07	-0.57	0.00
				November 1, 2010	4.62	1075.10	-	16.08	-0.58	0.00
				May 9, 2011	4.72	1075.00	-	16.11	-0.61	0.00
				November 7, 2011	4.75	1074.97	-	16.12	-0.62	0.00
				May 29, 2012	4.77	1074.95	-	16.14	-0.64	0.00
				November 26, 2012	5.09	1074.63	-	16.10	-0.60	0.00
				May 6, 2013	4.82	1074.90	-	16.10	-0.60	0.00
				November 12, 2013	4.78	1074.94	-	16.07	-0.57	0.00
				May 27, 2014	4.71	1075.01	-	16.09	-0.59	0.00
				November 17, 2014	4.14	1075.58	-	16.08	-0.58	0.00
				May 19, 2015	4.52	1075.27	-	16.06	-0.56	0.00
				November 16, 2015	4.86	1074.93	-	16.06	-0.56	0.00
				May 9, 2016	4.82	1074.97	-	16.07	-0.57	0.00
				November 15, 2016	5.14	1074.65	-	16.06	-0.56	0.00
				May 16, 2017	4.45	1075.34	-	16.08	-0.58	0.00
				November 6, 2017	-	-	-	-	-	-
				May 14, 2018	4.75	1075.04	-	16.08	-0.58	0.00
				November 12, 2018	4.60	1075.19	-	16.08	-0.58	0.00
PMW-06	1080.39	16.24	7.0	April 21, 2008	5.65	1074.73	-	16.29	-0.05	0.00
				May 6, 2008	5.71	1074.67	-	16.36	-0.12	0.00
				August 5, 2008	5.57	1074.81	-	16.25	-0.01	0.00
				November 10, 2008	5.65	1074.73	-	16.29	-0.05	0.00
				February 17, 2009	5.33	1075.05	-	16.23	0.01	0.14
				May 11, 2009	5.45	1074.93	-	16.27	-0.03	0.00
				August 5, 2009	5.37	1075.01	-	16.15	0.09	1.29
				November 30, 2009	5.27	1075.11	-	16.05	0.19	2.71
				February 24, 2010	5.46	1074.92	-	15.95	0.29	4.14
				May 17, 2010	5.43	1074.95	-	15.84	0.40	5.71
				November 1, 2010	5.27	1075.11	-	15.86	0.38	5.43
				May 9, 2011	5.35	1075.03	-	15.85	0.39	5.57
				November 7, 2011	5.39	1074.99	-	16.30	-0.06	0.00
				May 29, 2012	5.42	1074.96	-	16.29	-0.05	0.00
				November 26, 2012	5.73	1074.65	-	16.25	-0.01	0.00
				May 6, 2013	5.45	1074.93	-	16.23	0.01	0.14
				November 12, 2013	5.38	1075.00	-	16.25	-0.01	0.00
				May 27, 2014	5.34	1075.04	-	16.23	0.01	0.14
				November 17, 2014	4.78	1075.60	-	14.52	1.72	24.57
				May 19, 2015	5.15	1075.24	-	16.18	0.06	0.86
				November 16, 2015	5.51	1074.88	-	16.19	0.05	0.71
				May 9, 2016	5.45	1074.94	-	16.23	0.01	0.14
				November 15, 2016	5.80	1074.59	-	16.18	0.06	0.86
				May 16, 2017	5.12	1075.27	-	16.18	0.06	0.86
				November 6, 2017	5.30	1075.09	-	16.18	0.06	0.86
				May 14, 2018	5.35	1075.04	-	16.20	0.04	0.57
				November 12, 2018	5.19	1075.20	-	16.21	0.03	0.43

Table 2
Gauging Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
PMW-07	1079.93	23.60	4.0	April 21, 2008	4.29	1075.64	-	22.26	1.34	33.50
				May 6, 2008	4.70	1075.23	-	22.26	1.34	33.50
				August 5, 2008	5.26	1074.67	-	22.18	1.42	35.50
				November 10, 2008	5.59	1074.34	-	22.43	1.17	29.25
				February 17, 2009	4.67	1075.26	-	22.43	1.17	29.25
				May 11, 2009	4.93	1075.00	-	22.43	1.17	29.25
				August 5, 2009	4.49	1075.44	-	22.25	1.35	33.75
				November 30, 2009	4.89	1075.04	-	22.14	1.46	36.50
				February 24, 2010	5.25	1074.68	-	22.24	1.36	34.00
				May 17, 2010	4.58	1075.35	-	22.15	1.45	36.25
				November 1, 2010	4.29	1075.64	-	21.12	2.48	62.00
				May 9, 2011	3.63	1076.30	-	23.60	0.00	0.00
				November 7, 2011	4.68	1075.25	-	22.95	0.65	16.25
				May 29, 2012	4.51	1075.42	-	22.86	0.74	18.50
				November 26, 2012	5.56	1074.37	-	22.90	0.70	17.50
				May 6, 2013	4.53	1075.40	-	23.65	-0.05	0.00
				November 12, 2013	5.48	1074.45	-	23.49	0.11	2.75
				May 27, 2014	4.07	1075.86	-	23.35	0.25	6.25
				November 17, 2014	5.10	1074.83	-	23.28	0.32	8.00
				May 19, 2015	4.97	1074.96	-	23.28	0.32	8.00
				November 16, 2015	4.84	1075.09	-	23.33	0.27	6.75
				May 9, 2016	5.01	1074.92	-	23.25	0.35	8.75
				November 15, 2016	5.96	1073.97	-	23.21	0.39	9.75
				May 16, 2017	4.05	1075.88	-	23.20	0.40	10.00
				November 6, 2017	-	-	-	-	-	-
				May 14, 2018	4.40	1075.53	-	23.20	0.40	10.00
				November 12, 2018	4.44	1075.49	-	23.20	0.40	10.00
PMW-08	1079.54	23.04	4.0	April 21, 2008	4.46	1075.08	-	23.08	-0.04	0.00
				May 6, 2008	5.32	1074.22	-	23.08	-0.04	0.00
				August 5, 2008	5.08	1074.46	-	23.02	0.02	0.50
				November 10, 2008	5.45	1074.09	-	23.12	-0.08	0.00
				February 17, 2009	4.55	1074.99	-	23.02	0.02	0.50
				May 11, 2009	4.89	1074.65	-	23.08	-0.04	0.00
				August 5, 2009	4.55	1074.99	-	23.11	-0.07	0.00
				November 30, 2009	4.85	1074.69	-	22.99	0.05	1.25
				February 24, 2010	5.15	1074.39	-	23.09	-0.05	0.00
				May 17, 2010	4.63	1074.91	-	23.05	-0.01	0.00
				November 1, 2010	4.34	1075.20	-	23.07	-0.03	0.00
				May 9, 2011	4.03	1075.51	-	23.09	-0.05	0.00
				November 7, 2011	4.65	1074.89	-	23.10	-0.06	0.00
				May 29, 2012	4.65	1074.89	-	23.13	-0.09	0.00
				November 26, 2012	5.38	1074.16	-	23.09	-0.05	0.00
				May 6, 2013	4.62	1074.92	-	23.10	-0.06	0.00
				November 12, 2013	5.24	1074.30	-	23.05	-0.01	0.00
				May 27, 2014	4.30	1075.24	-	23.09	-0.05	0.00
				November 17, 2014	5.02	1074.52	-	23.06	-0.02	0.00
				May 19, 2015	4.94	1074.60	-	23.03	0.01	0.25
				November 16, 2015	4.72	1074.82	-	23.05	-0.01	0.00
				May 9, 2016	4.96	1074.58	-	23.05	-0.01	0.00
				November 15, 2016	5.78	1073.76	-	23.05	-0.01	0.00
				May 16, 2017	4.10	1075.44	-	23.07	-0.03	0.00
				November 6, 2017	-	-	-	-	-	-
				May 14, 2018	5.50	1074.04	-	23.07	-0.03	0.00
				November 12, 2018	4.41	1075.13	-	23.07	-0.03	0.00
PMW-09	1080.18	14.43	8.5	April 21, 2008	5.45	1074.73	-	14.45	-0.02	0.00
				May 6, 2008	5.51	1074.67	-	14.47	-0.04	0.00
				August 5, 2008	5.36	1074.82	-	14.41	0.02	0.24
				November 10, 2008	5.45	1074.73	-	14.44	-0.01	0.00
				February 17, 2009	5.14	1075.04	-	14.40	0.03	0.35
				May 11, 2009	5.25	1074.93	-	14.44	-0.01	0.00
				August 5, 2009	5.16	1075.02	-	14.47	-0.04	0.00
				November 30, 2009	5.09	1075.09	-	14.35	0.08	0.94
				February 24, 2010	5.27	1074.91	-	14.45	-0.02	0.00
				May 17, 2010	5.21	1074.97	-	14.41	0.02	0.24
				November 1, 2010	5.08	1075.10	-	14.45	-0.02	0.00
				May 9, 2011	5.16	1075.02	-	14.42	0.01	0.12
				November 7, 2011	5.20	1074.98	-	14.46	-0.03	0.00
				May 29, 2012	5.21	1074.97	-	14.47	-0.04	0.00
				November 26, 2012	5.54	1074.64	-	14.45	-0.02	0.00
				May 6, 2013	5.26	1074.92	-	14.44	-0.01	0.00
				November 12, 2013	5.20	1074.98	-	14.41	0.02	0.24
				May 27, 2014	5.15	1075.03	-	14.45	-0.02	0.00
				November 17, 2014	4.60	1075.58	-	14.42	0.01	0.12
				May 19, 2015	5.01	1075.17	-	14.40	0.03	0.35
				November 16, 2015	5.31	1074.87	-	14.42	0.01	0.12
				May 9, 2016	5.30	1074.88	-	14.41	0.02	0.24
				November 15, 2016	5.60	1074.58	-	14.42	0.01	0.12
				May 16, 2017	4.94	1075.24	-	14.42	0.01	0.12
				November 6, 2017	5.12	1075.06	-	14.42	0.01	0.12
				May 14, 2018	5.16	1075.02	-	14.42	0.01	0.12
				November 12, 2018	5.04	1075.14	-	14.41	0.02	0.24

Table 2
Gauging Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
PMW-10	1080.25	14.70	8.5	April 21, 2008	5.52	1074.73	-	14.72	-0.02	0.00
				May 6, 2008	5.55	1074.70	-	14.70	0.00	0.00
				August 5, 2008	5.44	1074.81	-	14.68	0.02	0.24
				November 10, 2008	5.51	1074.74	-	14.74	-0.04	0.00
				February 17, 2009	5.23	1075.02	-	14.67	0.03	0.35
				May 11, 2009	5.33	1074.92	-	14.70	0.00	0.00
				August 5, 2009	5.23	1075.02	-	14.76	-0.06	0.00
				November 30, 2009	5.14	1075.11	-	14.63	0.07	0.82
				February 24, 2010	5.33	1074.92	-	14.73	-0.03	0.00
				May 17, 2010	5.30	1074.95	-	14.96	-0.26	0.00
				November 1, 2010	5.14	1075.11	-	14.72	-0.02	0.00
				May 9, 2011	5.23	1075.02	-	14.72	-0.02	0.00
				November 7, 2011	5.26	1074.99	-	14.75	-0.05	0.00
				May 29, 2012	5.29	1074.96	-	14.71	-0.01	0.00
				November 26, 2012	5.60	1074.65	-	14.72	-0.02	0.00
				May 6, 2013	5.33	1074.92	-	14.71	-0.01	0.00
				November 12, 2013	5.28	1074.97	-	14.66	0.04	0.47
				May 27, 2014	5.22	1075.03	-	14.75	-0.05	0.00
				November 17, 2014	4.68	1075.57	-	14.70	0.00	0.00
				May 19, 2015	5.06	1075.19	-	14.66	0.04	0.47
				November 16, 2015	5.38	1074.87	-	14.69	0.01	0.12
				May 9, 2016	5.32	1074.93	-	14.68	0.02	0.24
				November 15, 2016	5.66	1074.59	-	14.70	0.00	0.00
				May 16, 2017	5.02	1075.23	-	14.68	0.02	0.24
				November 6, 2017	5.18	1075.07	-	14.70	0.00	0.00
				May 14, 2018	5.25	1075.00	-	14.70	0.00	0.00
				November 12, 2018	5.09	1075.16	-	14.69	0.01	0.12
PMW-11	1080.25	14.65	7.5	April 21, 2008	5.52	1074.73	-	14.68	-0.03	0.00
				May 6, 2008	5.56	1074.69	-	14.65	0.00	0.00
				August 5, 2008	5.45	1074.80	-	14.64	0.01	0.13
				November 10, 2008	5.53	1074.72	-	14.65	0.00	0.00
				February 17, 2009	5.22	1075.03	-	14.63	0.02	0.27
				May 11, 2009	5.33	1074.92	-	14.65	0.00	0.00
				August 5, 2009	5.25	1075.00	-	14.71	-0.06	0.00
				November 30, 2009	5.16	1075.09	-	14.58	0.07	0.93
				February 24, 2010	5.32	1074.93	-	14.67	-0.02	0.00
				May 17, 2010	5.31	1074.94	-	14.64	0.01	0.13
				November 1, 2010	3.13	1077.12	-	14.69	-0.04	0.00
				May 9, 2011	5.24	1075.01	-	14.67	-0.02	0.00
				November 7, 2011	5.27	1074.98	-	14.70	-0.05	0.00
				May 29, 2012	5.30	1074.95	-	14.67	-0.02	0.00
				November 26, 2012	5.60	1074.65	-	14.69	-0.04	0.00
				May 6, 2013	5.33	1074.92	-	14.64	0.01	0.13
				November 12, 2013	5.29	1074.96	-	14.62	0.03	0.40
				May 27, 2014	5.22	1075.03	-	14.69	-0.04	0.00
				November 17, 2014	4.67	1075.58	-	14.65	0.00	0.00
				May 19, 2015	5.03	1075.22	-	14.61	0.04	0.53
				November 16, 2015	5.39	1074.86	-	14.65	0.00	0.00
				May 9, 2016	5.43	1074.82	-	14.65	0.00	0.00
				November 15, 2016	5.67	1074.58	-	14.65	0.00	0.00
				May 16, 2017	5.02	1075.23	-	14.64	0.01	0.13
				November 6, 2017	5.20	1075.05	-	14.63	0.02	0.27
				May 14, 2018	5.25	1075.00	-	14.65	0.00	0.00
				November 12, 2018	5.12	1075.13	-	14.64	0.01	0.13
PMW-12	1080.34	15.20	7.0	April 21, 2008	5.61	1074.73	-	16.43	-1.23	0.00
				May 6, 2008	5.66	1074.68	-	16.34	-1.14	0.00
				August 5, 2008	5.50	1074.84	-	16.31	-1.11	0.00
				November 10, 2008	5.60	1074.74	-	16.30	-1.10	0.00
				February 17, 2009	5.30	1075.04	-	16.30	-1.10	0.00
				May 11, 2009	5.41	1074.93	-	16.20	-1.00	0.00
				August 5, 2009	5.33	1075.01	-	16.36	-1.16	0.00
				November 30, 2009	5.22	1075.12	-	16.24	-1.04	0.00
				February 24, 2010	5.42	1074.92	-	16.23	-1.03	0.00
				May 17, 2010	5.38	1074.96	-	16.31	-1.11	0.00
				November 1, 2010	5.21	1075.13	-	16.21	-1.01	0.00
				May 9, 2011	5.31	1075.03	-	16.22	-1.02	0.00
				November 7, 2011	5.34	1075.00	-	16.32	-1.12	0.00
				May 29, 2012	5.37	1074.97	-	16.37	-1.17	0.00
				November 26, 2012	5.69	1074.65	-	16.31	-1.11	0.00
				May 6, 2013	5.41	1074.93	-	16.31	-1.11	0.00
				November 12, 2013	5.35	1074.99	-	16.35	-1.15	0.00
				May 27, 2014	5.30	1075.04	-	16.32	-1.12	0.00
				November 17, 2014	4.73	1075.61	-	16.25	-1.05	0.00
				May 19, 2015	5.10	1075.24	-	16.26	-1.06	0.00
				November 16, 2015	5.45	1074.89	-	16.25	-1.05	0.00
				May 9, 2016	5.41	1074.93	-	16.28	-1.08	0.00
				November 15, 2016	5.75	1074.59	-	16.31	-1.11	0.00
				May 16, 2017	5.08	1075.26	-	16.25	-1.05	0.00
				November 6, 2017	5.21	1075.13	-	16.25	-1.05	0.00
				May 14, 2018	5.30	1075.04	-	16.25	-1.05	0.00
				November 12, 2018	5.19	1075.15	-	16.27	-1.07	0.00

Table 2
Gauging Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
PMW-13	1080.16	15.53	6.5	April 21, 2008	5.45	1074.71	-	16.13	-0.60	0.00
				May 6, 2008	5.48	1074.68	-	16.13	-0.60	0.00
				August 5, 2008	5.34	1074.82	-	16.10	-0.57	0.00
				November 10, 2008	5.41	1074.75	-	16.15	-0.62	0.00
				February 17, 2009	5.10	1075.06	-	16.07	-0.54	0.00
				May 11, 2009	5.22	1074.94	-	16.12	-0.59	0.00
				August 5, 2009	5.14	1075.02	-	16.15	-0.62	0.00
				November 30, 2009	5.03	1075.13	-	16.04	-0.51	0.00
				February 24, 2010	5.24	1074.92	-	16.12	-0.59	0.00
				May 17, 2010	5.20	1074.96	-	16.08	-0.55	0.00
				November 1, 2010	5.04	1075.12	-	16.13	-0.60	0.00
				May 9, 2011	5.13	1075.03	-	16.12	-0.59	0.00
				November 7, 2011	5.18	1074.98	-	16.16	-0.63	0.00
				May 29, 2012	5.20	1074.96	-	16.16	-0.63	0.00
				November 26, 2012	5.52	1074.64	-	16.13	-0.60	0.00
				May 6, 2013	5.23	1074.93	-	16.13	-0.60	0.00
				November 12, 2013	5.18	1074.98	-	16.08	-0.55	0.00
				May 27, 2014	5.12	1075.04	-	16.14	-0.61	0.00
				November 17, 2014	4.57	1075.59	-	16.10	-0.57	0.00
				May 19, 2015	4.92	1075.24	-	16.09	-0.56	0.00
				November 16, 2015	5.22	1074.94	-	16.09	-0.56	0.00
				May 9, 2016	5.23	1074.93	-	16.10	-0.57	0.00
				November 15, 2016	5.51	1074.65	-	16.10	-0.57	0.00
				May 16, 2017	4.89	1075.27	-	16.10	-0.57	0.00
				November 6, 2017	5.03	1075.13	-	16.09	-0.56	0.00
				May 14, 2018	5.15	1075.01	-	16.10	-0.57	0.00
				November 12, 2018	4.97	1075.19	-	16.09	-0.56	0.00
PMW-14	1080.03	15.90	6.0	April 21, 2008	5.30	1074.73	-	15.96	-0.06	0.00
				May 6, 2008	5.34	1074.69	-	15.96	-0.06	0.00
				August 5, 2008	5.22	1074.81	-	15.92	-0.02	0.00
				November 10, 2008	5.29	1074.74	-	16.03	-0.13	0.00
				February 17, 2009	4.97	1075.06	-	15.90	0.00	0.00
				May 11, 2009	5.10	1074.93	-	15.94	-0.04	0.00
				August 5, 2009	5.01	1075.02	-	15.99	-0.09	0.00
				November 30, 2009	4.88	1075.15	-	15.87	0.03	0.50
				February 24, 2010	5.11	1074.92	-	15.96	-0.06	0.00
				May 17, 2010	5.09	1074.94	-	15.91	-0.01	0.00
				November 1, 2010	4.88	1075.15	-	15.96	-0.06	0.00
				May 9, 2011	4.99	1075.04	-	15.96	-0.06	0.00
				November 7, 2011	5.01	1075.02	-	15.97	-0.07	0.00
				May 29, 2012	5.08	1074.95	-	15.98	-0.08	0.00
				November 26, 2012	5.37	1074.66	-	15.95	-0.05	0.00
				May 6, 2013	5.09	1074.94	-	15.95	-0.05	0.00
				November 12, 2013	5.03	1075.00	-	15.91	-0.01	0.00
				May 27, 2014	4.92	1075.11	-	15.96	-0.06	0.00
				November 17, 2014	4.47	1075.56	-	15.92	-0.02	0.00
				May 19, 2015	4.78	1075.25	-	15.90	0.00	0.00
				November 16, 2015	5.14	1074.89	-	15.92	-0.02	0.00
				May 9, 2016	5.08	1074.95	-	15.91	-0.01	0.00
				November 15, 2016	5.42	1074.61	-	15.92	-0.02	0.00
				May 16, 2017	4.74	1075.29	-	15.91	-0.01	0.00
				November 6, 2017	4.86	1075.17	-	15.90	0.00	0.00
				May 14, 2018	5.05	1074.98	-	15.91	-0.01	0.00
				November 12, 2018	4.86	1075.17	-	15.91	-0.01	0.00
NRW-01*	1079.09	18.36	13.0	April 21, 2008	4.41	1074.68	-	18.42	-0.06	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	5.29	1073.80	-	18.44	-0.08	0.00
				November 10, 2008	5.52	1073.57	-	18.42	-0.06	0.00
				February 17, 2009	4.51	1074.58	-	18.44	-0.08	0.00
				May 11, 2009	5.02	1074.07	-	18.44	-0.08	0.00
				August 5, 2009	-	-	-	-	-	-
				November 30, 2009	4.95	1074.14	-	18.33	0.03	0.00
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	4.73	1074.36	-	18.39	-0.03	0.00
				November 1, 2010	4.28	1074.81	-	18.41	-0.05	0.00
				May 9, 2011	3.98	1075.11	-	18.43	-0.07	0.00
				November 7, 2011	4.79	1074.30	-	18.45	-0.09	0.00
				May 29, 2012	4.73	1074.36	-	18.44	-0.08	0.00
				November 26, 2012	5.48	1073.61	-	18.43	-0.07	0.00
				May 6, 2013	4.68	1074.41	-	18.45	-0.09	0.00
				November 12, 2013	5.43	1073.66	-	18.35	0.01	0.00
				May 27, 2014	4.31	1074.78	-	18.44	-0.08	0.00
				November 17, 2014	4.72	1074.37	-	18.40	-0.04	0.00
				May 19, 2015	4.86	1074.23	-	18.39	-0.03	0.00
				November 16, 2015	4.74	1074.35	-	18.42	-0.06	0.00
				May 9, 2016	5.09	1074.00	-	18.38	-0.02	0.00
				November 15, 2016	6.01	1073.08	-	18.40	-0.04	0.00
				May 16, 2017	3.85	1075.24	-	18.41	-0.05	0.00
				November 6, 2017	5.30	1073.79	-	18.40	-0.04	0.00
				May 14, 2018	4.54	1074.55	-	18.40	-0.04	0.00
				November 12, 2018	4.43	1074.66	-	18.38	-0.02	0.00

Table 2
Gauging Data

Annual Periodic Review Report (Q39 - Q42)
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Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
NRW-02*	1079.40	13.20	8.0	April 21, 2008	4.78	1074.72	-	13.34	-0.04	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	5.68	1073.82	-	13.25	0.05	0.00
				November 10, 2008	5.92	1073.58	-	13.35	-0.05	0.00
				February 17, 2009	4.90	1074.60	-	13.28	0.02	0.00
				May 11, 2009	5.40	1074.10	-	13.25	0.05	0.00
				August 5, 2009	-	-	-	-	-	-
				November 30, 2009	5.35	1074.15	-	13.12	0.18	0.00
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	5.10	1074.40	-	13.19	0.11	0.00
				November 1, 2010	4.46	1075.04	-	13.35	-0.05	0.00
				May 9, 2011	4.32	1075.18	-	13.35	-0.05	0.00
				November 7, 2011	5.18	1074.32	-	13.24	0.06	0.00
				May 29, 2012	5.14	1074.36	-	13.29	0.01	0.00
				November 26, 2012	5.87	1073.63	-	13.35	-0.05	0.00
				May 6, 2013	5.05	1074.45	-	13.26	0.04	0.00
				November 12, 2013	5.85	1073.65	-	13.29	0.01	0.00
				May 27, 2014	4.74	1074.76	-	13.25	0.05	0.00
				November 17, 2014	5.27	1074.23	-	13.37	-0.07	0.00
				May 19, 2015	5.31	1074.19	-	13.21	0.09	0.00
				November 16, 2015	5.20	1074.30	-	13.28	0.02	0.00
				May 9, 2016	5.43	1073.97	-	13.18	0.02	0.00
				November 15, 2016	6.35	1073.05	-	13.13	0.07	0.00
				May 16, 2017	4.22	1075.18	-	13.20	0.00	0.00
				November 6, 2017	5.61	1073.79	-	13.14	0.06	0.00
				May 14, 2018	4.95	1074.45	-	13.20	0.00	0.00
				November 12, 2018	4.82	1074.58	-	13.24	-0.04	0.00
NRW-03*	1080.26	17.67	18.0	April 21, 2008	4.67	1075.59	-	17.68	-0.01	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	5.89	1074.37	-	17.71	-0.04	0.00
				November 10, 2008	6.18	1074.08	-	17.74	-0.07	0.00
				February 17, 2009	5.30	1074.96	-	17.74	-0.07	0.00
				May 11, 2009	5.46	1074.80	-	17.72	-0.05	0.00
				August 5, 2009	-	-	-	-	-	-
				November 30, 2009	5.56	1074.70	-	17.72	-0.05	0.00
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	5.06	1075.20	-	17.70	-0.03	0.00
				November 1, 2010	4.76	1075.50	-	17.73	-0.06	0.00
				May 9, 2011	4.14	1076.12	-	17.78	-0.11	0.00
				November 7, 2011	5.25	1075.01	-	17.78	-0.11	0.00
				May 29, 2012	5.25	1075.01	-	17.79	-0.12	0.00
				November 26, 2012	6.22	1074.04	-	17.78	-0.11	0.00
				May 6, 2013	5.21	1075.05	-	17.79	-0.12	0.00
				November 12, 2013	6.18	1074.08	-	17.73	-0.06	0.00
				May 27, 2014	4.79	1075.47	-	17.84	-0.17	0.00
				November 17, 2014	6.25	1074.01	-	17.80	-0.13	0.00
				May 19, 2015	6.09	1074.17	-	17.85	-0.18	0.00
				November 16, 2015	5.45	1074.81	-	17.90	-0.23	0.00
				May 9, 2016	5.84	1074.42	-	17.89	-0.22	0.00
				November 15, 2016	6.92	1073.34	-	17.90	-0.23	0.00
				May 16, 2017	4.90	1075.36	-	17.96	-0.29	0.00
				November 6, 2017	6.59	1073.67	-	17.92	-0.25	0.00
				May 14, 2018	5.35	1074.91	-	17.97	-0.30	0.00
				November 12, 2018	5.14	1075.12	-	17.95	-0.28	0.00
NRW-04*	1080.55	22.60	18.0	April 21, 2008	4.94	1075.61	-	22.29	0.31	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	6.15	1074.40	-	22.24	0.36	0.00
				November 10, 2008	6.44	1074.11	-	22.38	0.22	0.00
				February 17, 2009	5.31	1075.24	-	22.38	0.22	0.00
				May 11, 2009	5.72	1074.83	-	22.23	0.37	0.00
				August 5, 2009	-	-	-	-	-	-
				November 30, 2009	5.81	1074.74	-	22.22	0.38	0.00
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	5.28	1075.27	-	22.12	0.48	0.00
				November 1, 2010	4.98	1075.57	-	22.09	0.51	0.00
				May 9, 2011	4.43	1076.12	-	22.09	0.51	0.00
				November 7, 2011	5.44	1075.11	-	22.05	0.55	0.00
				May 29, 2012	5.43	1075.12	-	22.12	0.48	0.00
				November 26, 2012	6.40	1074.15	-	22.10	0.50	0.00
				May 6, 2013	5.39	1075.16	-	22.10	0.50	0.00
				November 12, 2013	6.38	1074.17	-	22.51	0.09	0.00
				May 27, 2014	4.90	1075.65	-	22.13	0.47	0.00
				November 17, 2014	6.35	1074.20	-	22.11	0.49	0.00
				May 19, 2015	6.13	1074.42	-	22.64	-0.04	0.00
				November 16, 2015	5.51	1075.04	-	22.54	0.06	0.00
				May 9, 2016	5.92	1074.63	-	22.65	-0.05	0.00
				November 15, 2016	6.87	1073.68	-	22.55	0.05	0.00
				May 16, 2017	4.94	1075.61	-	22.68	-0.08	0.00
				November 7, 2017	6.60	1073.95	-	22.70	-0.10	0.00
				May 14, 2018	5.30	1075.25	-	22.65	-0.05	0.00
				November 12, 2018	5.12	1075.43	-	22.60	0.00	0.00

Table 2
Gauging Data

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Oneonta Former MGP Site, Oneonta, New York

Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
NRW-05*	1080.76	20.74	14.0	April 21, 2008	NA	NA	-	NA	-	-
				May 6, 2008	NA	NA	-	NA	-	-
				August 5, 2008	NA	NA	-	NA	-	-
				November 10, 2008	NA	NA	-	NA	-	-
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	6.11	1074.65	-	20.03	0.71	0.00
				August 5, 2009	-	-	-	-	-	-
				November 30, 2009	6.22	1074.54	-	20.15	0.59	0.00
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	5.59	1075.17	-	20.22	0.52	0.00
				November 1, 2010	5.18	1075.58	-	20.25	0.49	0.00
				May 9, 2011	4.37	1076.39	-	20.27	0.47	0.00
				November 7, 2011	5.80	1074.96	-	20.30	0.44	0.00
				May 29, 2012	5.78	1074.98	-	20.27	0.47	0.00
				November 26, 2012	6.91	1073.85	-	20.30	0.44	0.00
				May 6, 2013	5.68	1075.08	-	20.26	0.48	0.00
				November 12, 2013	6.87	1073.89	-	20.22	0.52	0.00
				May 27, 2014	5.08	1075.68	-	20.28	0.46	0.00
				November 17, 2014	5.48	1075.28	-	20.24	0.50	0.00
				May 19, 2015	6.60	1074.16	-	20.65	0.09	0.00
				November 16, 2015	5.77	1074.99	-	20.64	0.10	0.00
				May 9, 2016	6.28	1074.48	-	20.65	0.09	0.00
				November 15, 2016	7.59	1073.17	-	20.67	0.07	0.00
				May 16, 2017	5.07	1075.69	-	20.68	0.06	0.00
				November 6, 2017	7.20	1073.56	-	20.68	0.06	0.00
				May 14, 2018	5.61	1075.15	-	20.68	0.06	0.00
				November 12, 2018	5.39	1075.37	-	20.66	0.08	0.00
PZ-0801	1078.90	15.00	11.0	April 21, 2008	3.57	1075.16	-	14.89	0.11	1.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	5.36	1073.37	-	14.93	0.07	0.64
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	4.62	1074.11	-	14.88	0.12	1.09
				August 5, 2009	-	-	-	-	-	-
				November 30, 2009	4.71	1074.02	-	14.88	0.12	1.09
				February 24, 2010	5.22	1073.51	-	14.87	0.13	1.18
				May 17, 2010	4.21	1074.52	-	14.78	0.22	2.00
				November 1, 2010	3.71	1075.02	-	14.86	0.14	1.27
				May 9, 2011	2.96	1075.77	-	14.81	0.19	1.73
				November 7, 2011	4.25	1074.48	-	14.88	0.12	1.09
				May 29, 2012	4.04	1074.69	-	14.88	0.12	1.09
				November 26, 2012	5.24	1073.49	-	14.83	0.17	1.55
				May 6, 2013	3.95	1074.78	-	14.81	0.19	1.73
				November 12, 2013	5.21	1073.52	-	14.78	0.22	2.00
				May 27, 2014	3.57	1075.16	-	14.83	0.17	1.55
				November 17, 2014	-	-	-	-	-	-
				May 19, 2015	4.83	1074.07	-	13.90	1.10	10.00
				November 16, 2015	4.30	1074.60	-	13.90	1.10	10.00
				May 9, 2016	4.88	1074.02	-	13.88	1.12	10.18
				November 15, 2016	5.99	1072.91	-	13.89	1.11	10.09
				May 16, 2017	3.72	1075.18	-	13.87	1.13	10.27
				November 6, 2017	5.81	1073.09	-	13.85	1.15	10.45
				May 14, 2018	4.01	1074.89	-	13.85	1.15	10.45
				November 12, 2018	4.12	1074.78	-	13.86	1.14	10.36
PZ-0802	1081.42	14.30	11.0	April 21, 2008	5.54	1075.88	-	14.44	-0.14	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	6.73	1074.69	-	14.42	-0.12	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	5.78	1075.64	-	14.42	-0.12	0.00
				August 5, 2009	5.73	1075.69	-	14.45	-0.15	0.00
				November 30, 2009	6.11	1075.31	-	14.28	0.02	0.18
				February 24, 2010	6.40	1075.02	-	14.34	-0.04	0.00
				May 17, 2010	5.56	1075.86	-	14.38	-0.08	0.00
				November 1, 2010	5.58	1075.84	-	14.02	0.28	2.55
				May 9, 2011	5.17	1076.25	-	14.20	0.10	0.91
				November 7, 2011	5.75	1075.67	-	13.95	0.35	3.18
				May 29, 2012	5.72	1075.70	-	13.93	0.37	3.36
				November 26, 2012	6.70	1074.72	-	13.95	0.35	3.18
				May 6, 2013	5.83	1075.59	-	13.89	0.41	3.73
				November 12, 2013	6.42	1075.00	-	13.82	0.48	4.36
				May 27, 2014	5.63	1075.79	-	13.83	0.47	4.27
				November 17, 2014	6.42	1075.00	-	13.82	0.48	4.36
				May 19, 2015	6.29	1075.13	-	13.87	0.43	3.91
				November 16, 2015	5.95	1075.47	-	13.81	0.49	4.45
				May 9, 2016	5.32	1076.10	-	13.90	0.40	3.64
				November 15, 2016	7.80	1073.62	-	13.86	0.44	4.00
				May 16, 2017	5.50	1075.92	-	13.91	0.39	3.55
				November 6, 2017	6.09	1075.33	-	13.80	0.50	4.55
				May 14, 2018	4.48	1076.94	-	13.80	0.50	4.55
				November 12, 2018	5.71	1075.71	-	13.94	0.36	3.27

Table 2
Gauging Data

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Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
PZ-0803	1081.84	21.50	18.0	April 21, 2008	6.35	1075.49	-	21.55	-0.05	0.00
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	7.01	1074.83	-	21.56	-0.06	0.00
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	6.48	1075.36	-	21.49	0.01	0.06
				August 5, 2009	6.15	1075.69	-	21.58	-0.08	0.00
				November 30, 2009	7.49	1074.35	-	21.49	0.01	0.06
				February 24, 2010	6.70	1075.14	-	21.46	0.04	0.22
				May 17, 2010	6.25	1075.59	-	21.45	0.05	0.28
				November 1, 2010	6.15	1075.69	-	21.51	-0.01	0.00
				May 9, 2011	5.74	1076.10	-	21.50	0.00	0.00
				November 7, 2011	6.30	1075.54	-	21.52	-0.02	0.00
				May 29, 2012	6.19	1075.65	-	21.54	-0.04	0.00
				November 26, 2012	6.92	1074.92	-	21.48	0.02	0.11
				May 6, 2013	6.27	1075.57	-	21.51	-0.01	0.00
				November 12, 2013	6.74	1075.10	-	21.45	0.05	0.28
				May 27, 2014	5.93	1075.91	-	21.46	0.04	0.22
				November 17, 2014	6.62	1075.22	-	21.45	0.05	0.28
				May 19, 2015	6.39	1075.45	-	21.43	0.07	0.39
				November 16, 2015	6.42	1075.42	-	21.46	0.04	0.22
				May 9, 2016	6.39	1075.45	-	21.45	0.05	0.28
				November 15, 2016	7.15	1074.69	-	21.47	0.03	0.17
				May 16, 2017	5.98	1075.86	-	21.46	0.04	0.22
				November 6, 2017	6.82	1075.02	-	21.42	0.08	0.44
				May 14, 2018	6.09	1075.75	-	21.46	0.04	0.22
				November 12, 2018	6.06	1075.78	-	21.43	0.07	0.39
PZ-105*	1077.23	6.10	5.0	April 21, 2008	5.29	1071.94	-	5.68	0.42	6.40
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	5.69	0.41	6.20
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	4.92	1072.31	-	5.68	0.42	6.40
				August 5, 2009	-	-	-	5.68	0.42	6.40
				November 30, 2009	-	-	-	5.68	0.42	6.40
				February 24, 2010	-	-	-	5.71	0.39	5.80
				May 17, 2010	-	-	-	5.71	0.39	5.80
				November 1, 2010	-	-	-	5.74	0.36	5.20
				May 9, 2011	-	-	-	5.74	0.36	5.20
				November 7, 2011	5.67	1071.56	-	5.72	0.38	5.60
				May 29, 2012	5.03	1072.20	-	5.76	0.34	4.80
				November 26, 2012	-	-	-	5.69	0.41	6.20
				May 6, 2013	4.86	1072.37	-	5.69	0.41	6.20
				November 12, 2013	5.64	1071.59	-	5.71	0.39	5.80
				May 27, 2014	5.28	1071.95	-	5.68	0.42	6.40
				November 17, 2014	-	-	-	6.03	0.07	0.00
				May 19, 2015	-	-	-	5.71	0.39	5.80
				November 16, 2015	5.57	1071.66	-	5.71	0.39	5.80
				May 9, 2016	-	-	-	5.71	0.39	5.80
				November 15, 2016	5.56	1071.67	-	5.71	0.39	5.80
				May 16, 2017	4.85	1072.38	-	5.72	0.38	5.60
				November 6, 2017	-	-	-	5.71	0.39	5.80
				May 14, 2018	5.08	1072.15	-	5.72	0.38	5.60
				November 12, 2018	5.50	1071.73	-	5.72	0.38	5.60
SG 107	1081.96	-	-	April 21, 2008	8.90	1073.06	-	-	-	-
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	7.04	1074.92	-	-	-	-
				February 17, 2009	6.38	1075.58	-	-	-	-
				May 11, 2009	6.59	1075.37	-	-	-	-
				August 5, 2009	6.52	1075.44	-	-	-	-
				November 30, 2009	6.63	1075.33	-	-	-	-
				February 24, 2010	6.82	1075.14	-	-	-	-
				May 17, 2010	6.54	1075.42	-	-	-	-
				November 1, 2010	6.51	1075.45	-	-	-	-
				May 9, 2011	6.60	1075.36	-	-	-	-
				November 7, 2011	6.58	1075.38	-	-	-	-
				May 29, 2012	6.74	1075.22	-	-	-	-
				November 26, 2012	6.82	1075.14	-	-	-	-
				May 6, 2013	6.74	1075.22	-	-	-	-
				November 12, 2013	6.85	1075.11	-	-	-	-
				May 27, 2014	6.68	1075.28	-	-	-	-
				November 17, 2014	6.85	1075.11	-	-	-	-
				May 19, 2015	6.79	1075.17	-	-	-	-
				November 16, 2015	6.81	1075.15	-	-	-	-
				May 9, 2016	6.72	1075.24	-	-	-	-
				November 15, 2016	6.91	1075.05	-	-	-	-
				May 16, 2017	6.66	1075.30	-	-	-	-
				November 6, 2017	6.80	1075.16	-	-	-	-
				May 14, 2018	6.77	1075.19	-	-	-	-
				November 12, 2018	6.33	1075.63	-	-	-	-

Table 2
Gauging Data

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Well ID	Measuring Point Elevation	Actual Depth to Bottom	Screen Length	Date	Depth to Water (feet TOC)	Groundwater Elevation	Depth to Product (feet TOC)	Depth to Bottom (feet TOC)	Accumulated Thickness of Sediments (feet)	Percent Screen Occluded By Sediments (%)
SG 105	1079.45	-	-	April 21, 2008	3.96	1075.49	-	-	-	-
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	-	-	-	-	-	-
				February 17, 2009	-	-	-	-	-	-
				May 11, 2009	-	-	-	-	-	-
				August 5, 2009	-	-	-	-	-	-
				November 30, 2009	-	-	-	-	-	-
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	4.31	1075.14	-	-	-	-
				November 1, 2010	4.39	1075.06	-	-	-	-
				May 9, 2011	4.05	1075.40	-	-	-	-
				November 7, 2011	3.94	1075.51	-	-	-	-
				May 29, 2012	3.29	1076.16	-	-	-	-
				November 26, 2012	3.89	1075.56	-	-	-	-
				May 6, 2013	3.65	1075.80	-	-	-	-
				November 12, 2013	3.86	1075.59	-	-	-	-
				May 27, 2014	4.18	1075.27	-	-	-	-
				November 17, 2014	4.79	1074.66	-	-	-	-
				May 19, 2015	4.19	1075.26	-	-	-	-
				November 16, 2015	4.11	1075.34	-	-	-	-
				May 9, 2016	4.18	1075.27	-	-	-	-
				November 15, 2016	3.86	1075.59	-	-	-	-
				May 16, 2017	3.51	1075.94	-	-	-	-
				November 6, 2017	4.72	1074.73	-	-	-	-
				May 14, 2018	4.24	1075.21	-	-	-	-
				November 12, 2018	4.37	1075.08	-	-	-	-
SG-110	1081.75	-	-	April 21, 2008	4.60	1076.21	-	-	-	-
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	4.49	1076.32	-	-	-	-
				February 17, 2009	4.12	1076.69	-	-	-	-
				May 11, 2009	4.39	1076.42	-	-	-	-
				August 5, 2009	4.40	1076.41	-	-	-	-
				November 30, 2009	-	-	-	-	-	-
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	5.05	1075.76	-	-	-	-
				November 1, 2010	-	-	-	-	-	-
				May 9, 2011	-	-	-	-	-	-
				November 7, 2011	5.34	-	-	-	-	-
				May 29, 2012	5.41	1076.84	-	-	-	-
				November 26, 2012	-	-	-	-	-	-
				May 6, 2013	5.20	-	-	-	-	-
				November 12, 2013	5.19	-	-	-	-	-
				May 27, 2014	5.19	-	-	-	-	-
				November 17, 2014	5.05	-	-	-	-	-
				May 19, 2015	5.25	1076.50	-	-	-	-
				November 16, 2015	5.44	1076.31	-	-	-	-
				May 9, 2016	5.41	1076.34	-	-	-	-
				November 15, 2016	5.50	1076.25	-	-	-	-
				May 16, 2017	4.95	1076.80	-	-	-	-
				November 6, 2017	5.36	1076.39	-	-	-	-
				May 14, 2018	5.65	1076.10	-	-	-	-
				November 12, 2018	4.90	1076.85	-	-	-	-
SG-111	1078.40	-	-	April 21, 2008	4.22	1074.14	-	-	-	-
				May 6, 2008	-	-	-	-	-	-
				August 5, 2008	-	-	-	-	-	-
				November 10, 2008	4.18	1074.18	-	-	-	-
				February 17, 2009	3.80	1074.56	-	-	-	-
				May 11, 2009	3.97	1074.39	-	-	-	-
				August 5, 2009	3.86	1074.50	-	-	-	-
				November 30, 2009	3.89	1074.47	-	-	-	-
				February 24, 2010	-	-	-	-	-	-
				May 17, 2010	3.98	1074.42	-	-	-	-
				November 1, 2010	3.82	1074.58	-	-	-	-
				May 9, 2011	4.09	1074.31	-	-	-	-
				November 7, 2011	4.15	1074.25	-	-	-	-
				May 29, 2012	4.30	1074.10	-	-	-	-
				November 26, 2012	4.42	1073.98	-	-	-	-
				May 6, 2013	4.30	1074.10	-	-	-	-
				November 12, 2013	4.15	1074.25	-	-	-	-
				May 27, 2014	4.28	1074.12	-	-	-	-
				November 17, 2014	4.05	1074.35	-	-	-	-
				May 19, 2015	4.35	1074.05	-	-	-	-
				November 16, 2015	4.42	1073.98	-	-	-	-
				May 9, 2016	4.49	1073.91	-	-	-	-
				November 15, 2016	5.65	1072.75	-	-	-	-
				May 16, 2017	5.45	1072.95	-	-	-	-
				November 6, 2017	5.37	1073.03	-	-	-	-
				May 14, 2018	5.70	1072.70	-	-	-	-
				November 12, 2018	5.45	1072.95	-	-	-	-

Table 2
Gauging Data

Annual Project Report (Q34 - Q38)
Oneonta Former MGP Site, Oneonta, New York

Notes:

1. All measurements from Top of Casing (TOC).
2. "-" Indicates measurement not taken or not available.
3. Elevations in feet above mean sea level (ft amsl), 1929 National Geodetic Vertical Datum (NGVD).
4. NA - indicates NRW not installed at time of gauging event.
5. Staff gauge SG-105 re-installed Apr 2008 and missing on Nov 2008 gauging event.
6. During the Nov 2009 gauging event SG-105 and SG-110 were destroyed.
7. During the Feb 2010 gauging event SG-111 was not accessible.
8. During the May 2010 site activities;
   - SG-110 and SG-105 were replaced and resurveyed at a later date.
   - the riser height for MW-9502S, AW-01, AW-04, AW-08, AW-11 was adjusted and the wells resurveyed May 9, 2011.
   - MW-0203, MW-0301, MW-8806S, MW-8807S, MW-8808S, MW-9110S, AW-03, AW-04, AW-05, AW-14 and AW-16 were redeveloped. Depth to bottom measurements for these wells list the depth to bottom recorded after redevelopment.
9. During the May 2011 site activities;
   - SG-105, SG-111, MW-9502S, AW-01, AW-04, AW-08, AW-11 locations and elevations resurveyed May 9, 2011.
   - AW-06, AW-09, AW-AW-14, PMW-07 were redeveloped May 31, 2011. Depth to bottom measurements for these wells list depth to bottom recorded after redevelopment.
10. Staff gauge SG-110 missing during November 2010 and May 2011 gauging events.
11. Staff gauge SG-110 reinstalled during November 2011 site visit and discovered missing before it could be resurveyed.
12. Staff gauge SG-110 reinstalled during May 2012 site visit and resurveyed May 30, 2012.
13. Staff gauge SG-110 reinstalled during November 2012 site visit. Survey information not available for inclusion in this report.
14. * Indicates location was installed with a sump. Refer to well construction log for respective sump length.
15. Calculations of percent screen occluded are based on total screen length installed and do not take into consideration length of saturated screen.
16. Gauging data could not be collected from locations PMW-02 and PZ-0801 November 17, 2014 due to standing surface water at time of gauging.
17. Staff Gauge SG-110, Piezometer PZ-0801, and Performance Monitoring Wells PMW-05 and PMW-06 were resurveyed May 20, 2015.
18. Removed 0.12 feet of riser from PMW-02 after the November 16, 2015 gauging event.
19. Removed 0.10 feet of riser from NRW-02 after the November 16, 2015 gauging event.
20. Gauging data could not be collected on November 6, 2018 from locations PMW-01, PMW-02, PMW-03, PMW-05, PMW-07 and PMW-08 due to standing surface water at time of gauging .
21. Due to standing surface water at the time of the November 6, 2017 gauging event, NRW-04 was gauged November 7, 2017.

Table 3
Groundwater Quality Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Location ID: / Date Collected:	NYSDEC GW Stds & GVs	Units	MW-0201 05/29/03	MW-0201 04/22/08	MW-0201 11/11/08	MW-0201 05/12/09	MW-0201 12/02/09	MW-0201 05/20/10	MW-0201 11/02/10	MW-0201 05/10/11	MW-0201 11/08/11	MW-0201 05/30/12	MW-0201 11/29/12	MW-0201 05/09/13	MW-0201 11/14/13	MW-0201 05/28/14	MW-0201 11/18/14	MW-0201 05/19/15	MW-0201 11/17/15	MW-0201 05/10/16	MW-0201 11/15/16	MW-0201 05/16/17	MW-0201 11/07/17	MW-0201 05/15/18	MW-0201 11/13/18	MW-0203 05/29/03	MW-0203 04/23/08	MW-0203 11/11/08	MW-0203 05/12/09	MW-0203 12/01/09	MW-0203 05/18/10	MW-0203 11/02/10
BTEX																																
Benzene	1	µg/L	**2,500**	**1,300 D**	**1,700**	**930 D**	**1,900 D**	**1,200**	**2,200 DJ**	**270**	**1,400 D**	**850 J**	**670**	**690**	**500**	**310**	**430**	**110**	**180**	**190**	**470**	**250**	**120**	**94**	**290 D**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	**500**	**550 D**	**660**	**290 D**	**670 D**	**380**	**810 DJ**	**100**	**640 D**	**290 J**	**480**	**350**	**390**	**180**	**290**	**46**	**91**	**63**	**250**	**91**	**64**	**24**	**140 D**	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m/p-Xylenes	- -	µg/L	NA	**100**	NA	**36**	**93**	**26 J**	**86**	**6.7 J**	**83**	**28**	**39**	**40**	**24**	**13**	**28**	10 U	**4.8 J**	**6.1 J**	**44**	**12**	**3.7**	**3**	**21**	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	- -	µg/L	NA	**180 D**	NA	**87 D**	**200 D**	**110**	**240 D**	**32**	**200 D**	**110**	**150**	**150**	**120**	**79**	**120**	**31**	**68**	**54**	**140**	**75**	**54**	**31**	**99 D**	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	**28 J**	**19**	**18 J**	**9.9**	**17**	**11 J**	**16**	**3.3 J**	**15**	**9.6 J**	**9.6 J**	**11**	**8.1 J**	**4.8 J**	**8.3**	5 U	**3.2 J**	**3.3 J**	**8.2**	**4.7 J**	**2.8**	**1.7**	10 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	**530**	NA	**310**	**110 D**	**290 D**	**140**	**350 D**	**39**	**280 D**	**140**	**190**	**190**	**140**	**92**	**150**	**31**	**73**	**60**	**180**	**87**	**58**	**34**	**120 D**	5.0 U	NA	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	- -	µg/L	**3,558**	**2,149**	**2,688 J**	**1,340**	**2,877**	**1,731 J**	**3,376**	**412 J**	**2,335**	**1,290 J**	**1,350 J**	**1,241**	**1,038 J**	**587 J**	**878**	**187**	**347 J**	**316 J**	**908**	**433 J**	**245**	**154**	**550 D**	ND	ND	ND	ND	ND	ND	ND
PAHs																																
Acenaphthene	20	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.48 U
Acenaphthylene	- -	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.48 U
Anthracene	50	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.48 U
Benzo(a)anthracene	0.002	µg/L	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	**0.34 J**	4.8 U	4.7 U	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 UB	0.50 U	0.48 U
Benzo(a)pyrene	0	µg/L	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	**0.37 J**	0.50 U	0.48 U
Benzo(b)fluoranthene	0.002	µg/L	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.48 U
Benzo(g,h,i)perylene	- -	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	**0.24 J**	0.50 U	0.48 U
Benzo(k)fluoranthene	0.002	ug/L	1 U	0.5 UJ	0.5 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U	5 U	1 U	0.5 UJ	0.5 U	0.47 U	0.47 U	0.5 U	0.48 U
Chrysene	0.002	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U	4.7 U	4.8 U	4.5 U	270 UJ	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 UB	0.50 U	0.48 U
Dibenzo(a,h)anthracene	- -	ug/L	1 U	0.5 U	0.5 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U	5 U	1 U	0.5 U	0.5 U	0.47 U	0.47 U	0.5 U	0.48 U
Fluoranthene	50	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.48 U
Fluorene	50	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.48 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U	4.7 U	4.8 U	4.5 U	270 UJ	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.48 U
Naphthalene	10	µg/L	**7.8 J**	**460 D**	**470 D**	**54**	**390 D**	**160**	**260 D**	4.8 U	**560 D**	**270 D**	**530 D**	**390**	**400 D**	**230 D**	**460**	**4.3 J**	**280 D**	**120**	**580 D**	**210 D**	**390**	5 U	**360 D**	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.48 U
Phenanthrene	50	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.48 U
Pyrene	50	µg/L	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.94 U	0.49 U	4.8 U	4.8 U	4.8 U	4.7 U	4.7 U	4.8 U	4.5 U	270 U	4.9 U	4.8 U	4.8 U	4.8 U	5 U	50 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.48 U
Total PAHs	- -	µg/L	**7.8**	**460 J**	**470 J**	**54**	**390 J**	**160**	**260 J**	ND	**560 J**	**270 D**	**530 D**	**390**	**400 D**	**230 D**	**460**	**4.3 J**	**280**	**120**	**580**	**210**	**390**	ND	**360 D**	ND	ND	ND	ND	**0.61 J**	ND	ND

Notes:
1. Samples were submitted to Test America, Amherst, New York for analysis using USEPA SW-846 Methods 8260B (VOCs) and 8270C (SVOCs).
2. D - Compound quantitated using a secondary dilution.
3. J - Indicates that the analyte was detected at a concentration less than the practical quantitation limit (PQL).
4. U - Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
5. B - Indicates an estimated values between the instrument detection limit (IDL) and the PQL.
6. ND - not detected
7. Sample results detected above the Method Detection Limit (MDL) are presented in bold font.
8. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.
9. Only detected Benzene, Ethlybenzene, Toluene, Xylenes [BTEX] and Polycyclic Aromatic Hydrocarbons [PAH] are presented.
10. NA - not analyzed
11. For groundwater samples where the laboratory reported both the individual congeners for xylenes (m/p- & o-) plus a value for total xylenes, total BTEX calculations used the laboratory reported value for total xylenes.

Table 3
Groundwater Quality Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Location ID: / Date Collected:	NYSDEC GW Stds & GVs	Units	MW-0203 11/02/10	MW-0203 05/10/11	MW-0203 11/08/11	MW-0203 05/31/12	MW-0203 11/29/12	MW-0203 05/10/13	MW-0203 11/14/13	MW-0203 05/29/14	MW-0203 11/18/14	MW-0203 05/19/15	MW-0203 11/18/15	MW-0203 05/10/16	MW-0203 11/15/16	MW-0203 05/17/17	MW-0203 11/07/17	MW-0203 05/15/18	MW-0203 11/13/18	MW-0301 05/29/03	MW-0301 04/22/08	MW-0301 11/12/08	MW-0301 05/12/09	MW-0301 12/01/09	MW-0301 05/18/10	MW-0301 11/02/10	MW-0301 05/10/11	MW-0301 11/08/11	MW-0301 05/30/12	MW-0301 11/29/12	MW-0301 05/09/13	MW-0301 11/15/13
BTEX																															
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U
Ethylbenzene	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	**0.9 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U
m/p-Xylenes	- -	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	**0.72 J**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U
o-Xylene	- -	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U
Toluene	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	**0.72 J**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	3 U	2 U	2 U	5.0 U	NA	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U
Total BTEX	- -	µg/L	ND	ND	ND	ND	**1.62 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs																															
Acenaphthene	20	µg/L	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U
Acenaphthylene	- -	µg/L	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U
Anthracene	50	µg/L	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U
Benzo(a)anthracene	0.002	µg/L	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U
Benzo(a)pyrene	0	µg/L	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 UJ
Benzo(b)fluoranthene	0.002	µg/L	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 UJ
Benzo(g,h,i)perylene	- -	µg/L	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 UJ
Benzo(k)fluoranthene	0.002	ug/L	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	1 U	0.5 UJ	0.5 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 UJ
Chrysene	0.002	µg/L	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 UJ	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	NA
Dibenzo(a,h)anthracene	- -	ug/L	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	1 U	0.5 U	0.5 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 UJ
Fluoranthene	50	µg/L	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U
Fluorene	50	µg/L	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 UJ	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 UJ
Naphthalene	10	µg/L	0.48 U	4.8 U	4.7 U	4.7 U	**1.4 J**	4.8 U	5.2 U	4.6 U	4.8 U	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U
Phenanthrene	50	µg/L	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U
Pyrene	50	µg/L	0.48 U	4.8 U	4.7 U	4.7 U	4.7 U	4.8 U	5.2 U	4.6 U	4.8 U	5 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.48 U	0.52 U	0.47 U	4.7 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U
Total PAHs	- -	µg/L	ND	ND	ND	ND	**1.4 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
1. Samples were submitted to Test America, Amherst, New York for analysis using USEPA SW-846 Methods 8260B (VOCs) and 8270C (SVOCs).
3. D - Compound quantitated using a secondary dilution.
4. J - Indicates that the analyte was detected at a concentration less than the practical quantitation limit (PQL).
5. U - Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
6. B - Indicates an estimated values between the instrument detection limit (IDL) and the PQL.
7. ND - not detected
8. Sample results detected above the Method Detection Limit (MDL) are presented in bold font.
9. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.
10. Only detected Benzene, Ethlybenzene, Toluene, Xylenes [BTEX] and Polycyclic Aromatic Hydrocarbons [PAH] are presented.
11. NA - not analyzed
12. For groundwater samples where the laboratory reported both the individual congeners for xylenes (m/p- & o-) plus a value for total xylenes, total BTEX calculations used the laboratory reported value for total xylenes.

Table 3
Groundwater Quality Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Location ID: / Date Collected:	NYSDEC GW Stds & GVs	Units	MW-0301 05/29/14	MW-8604S 05/23/03	MW-8604S 04/22/08	MW-8604S 11/11/08	MW-8604S 05/13/09	MW-8604S 12/01/09	MW-8604S 05/20/10	MW-8604S 11/03/10	MW-8604S 05/11/11	MW-8604S 11/08/11	MW-8604S 05/31/12	MW-8604S 11/30/12	MW-8604S 05/10/13	MW-8604S 11/14/13	MW-8604S 05/29/14	MW-8604S 11/19/14	MW-8604S 05/21/15	MW-8604S 11/17/15	MW-8604S 05/10/16	MW-8604S 11/15/16	MW-8604S 05/16/17	MW-8604S 11/08/17	MW-8604S 05/15/18	MW-8604S 11/13/18	MW-8806S 05/23/03	MW-8806S 04/23/08	MW-8806S 11/12/08	MW-8806S 05/12/09	MW-8806S 12/01/09	MW-8806S 05/18/10
BTEX																																
Benzene	1	µg/L	1 U	**360**	**22**	**33**	**43**	**24**	**20**	**31**	**14**	**3.2**	**5.8**	**0.67 J**	**2.5**	**0.72 J**	**3.9**	**2.1**	**2.2**	**2.1**	**2.6**	**3.1**	**1.6**	**1.6**	**1.1**	**2.4**	**580**	1.0 U	**150 D**	1.0 U	**14**	1.0 U
Ethylbenzene	5	µg/L	1 U	**230**	**31**	**35**	**62**	**35**	**21**	**18**	1.0 U	**1.1**	**1.7**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**5.5**	1 U	1 U	1 U	1 U	1 U	**1.8 J**	1.0 U	**26**	1.0 U	1.0 U	1.0 U
m/p-Xylenes	- -	µg/L	2 U	NA	**1.9 J**	NA	**6.8**	**2.8**	**2.3**	**2.0**	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**0.7 J**	2 U	2 U	2 U	2 U	2 U	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U
o-Xylene	- -	µg/L	1 U	NA	**9.3**	NA	**17**	**11**	**10**	**5.2**	**0.83 J**	**2.0**	**1.9**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2.4**	1 U	1 U	1 U	1 U	1 U	NA	1.0 U	NA	1.0 U	**1.4**	1.0 U
Toluene	5	µg/L	1 U	**3.7 J**	**0.55 J**	**0.78 J**	**1.4**	**0.86 J**	**0.87 J**	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2.1 J**	1.0 U	**4.4**	1.0 U	**0.52 J**	1.0 U
Xylenes (total)	5	µg/L	2 U	**32**	NA	**10**	**24**	**14**	**13**	**7.1**	**0.83 J**	**2.0**	**1.9 J**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**3.1**	2 U	2 U	3 U	2 U	2 U	**74**	NA	**52**	2.0 U	**2.0**	2.0 U
Total BTEX	- -	µg/L	ND	**626 J**	**54 J**	**79 J**	**130**	**74 J**	**55 J**	**56**	**15 J**	**6.3**	**9.4 J**	**0.67 J**	**2.5**	**0.72 J**	**3.9**	**2.1**	**2.2**	**2.1**	**11.2**	**3.1**	**1.6**	**1.6**	**1.1**	**2.4**	**658**	ND	**232**	ND	**17 J**	ND
PAHs																																
Acenaphthene	20	µg/L	5.1 U	**3.3 J**	**9.0**	**41**	**22**	**24**	**4.0 J**	**20**	**2.3 J**	**7.9**	**7.3**	**7.9**	**1.5 J**	**16**	**6.1**	**14**	**8.8**	**11**	**3.7 J**	**12**	**5.3**	**15**	**5.5**	**7.6**	**2.8**	0.50 U	**10**	0.48 U	0.47 U	0.48 U
Acenaphthylene	- -	µg/L	5.1 U	**0.80 J**	**0.80**	**2.0**	**1.2**	**0.81**	**0.21 J**	**0.44 J**	4.8 U	**0.52 J**	4.7 U	**1.2 J**	4.7 U	**2 J**	**0.42 J**	**1.8 J**	**0.73 J**	**1 J**	**0.49 J**	**0.75 J**	5 U	**1.4 J**	**0.5 J**	**1.1 J**	**1.6 J**	0.50 U	**0.90**	0.48 U	0.47 U	0.48 U
Anthracene	50	µg/L	5.1 U	10 U	0.50 U	**1.0**	0.47 U	**0.31 J**	0.50 U	**0.22 J**	4.8 U	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U
Benzo(a)anthracene	0.002	µg/L	5.1 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 UB	0.50 U	0.47 U	4.8 U	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U
Benzo(a)pyrene	0	µg/L	5.1 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U
Benzo(b)fluoranthene	0.002	µg/L	5.1 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U
Benzo(g,h,i)perylene	- -	µg/L	5.1 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 UJ	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U
Benzo(k)fluoranthene	0.002	ug/L	5.1 U	1 U	0.5 UJ	0.5 U	0.47 U	0.47 U	0.5 U	0.47 U	4.8 U	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 U	4.8 U	5 U	5 U	5 U	5 U	1 U	0.5 UJ	0.5 U	0.48 U	0.47 U	0.48 U
Chrysene	0.002	µg/L	NA	10 U	0.50 U	0.50 U	0.47 U	0.47 UB	0.50 U	0.47 U	4.8 U	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 UJ	5.1 U	4.7 U	5 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U
Dibenzo(a,h)anthracene	- -	ug/L	5.1 U	1 U	0.5 U	0.5 U	0.47 U	0.47 U	0.5 U	0.47 U	4.8 U	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 U	4.8 U	5 U	5 U	5 U	5 U	1 U	0.5 U	0.5 U	0.48 U	0.47 U	0.48 U
Fluoranthene	50	µg/L	5.1 U	10 U	0.50 U	**0.90**	0.47 U	**0.24 J**	0.50 U	**0.18 J**	4.8 U	4.7 U	4.7 U	4.8 U	4.7 U	**0.45 J**	4.9 U	**0.39 J**	5.1 U	4.7 U	5 U	**0.6 J**	5 U	**0.66 J**	**5 U**	**0.52 J**	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U
Fluorene	50	µg/L	5.1 U	**2.0 J**	**2.0**	**7.0**	**3.9**	**3.6**	**0.61**	**3.4**	4.8 U	**1.3 J**	**1.4 J**	**1.5 J**	4.7 U	**2.4 J**	**1.2 J**	**2.3 J**	**1.6 J**	**2.1 J**	**0.99 J**	**1.4 J**	**1.1 J**	**1.7 J**	**0.97 J**	**0.92 J**	**0.20 J**	0.50 U	**0.30 J**	0.48 U	0.47 U	0.48 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5.1 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 UJ	5.1 U	4.7 U	5 UJ	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U
Naphthalene	10	µg/L	5.1 U	**53**	**14**	**34**	**33**	**32 J**	**7.2 J**	**24**	**1.6 J**	**3.6 J**	4.7 U	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	**2.6 J**	4.8 U	5 U	5 U	5 U	5 U	**130**	0.50 U	**7.0**	0.48 U	**2.0**	0.48 U
Phenanthrene	50	µg/L	5.1 U	**0.70 J**	**0.40 J**	**5.0**	**1.3**	**1.7**	**0.22 J**	**1.6**	4.8 U	**0.61 J**	**0.63 J**	4.8 U	4.7 U	4.7 U	4.9 U	4.8 U	5.1 U	4.7 U	5 U	4.8 U	5 U	5 U	5 U	5 U	**0.40 J**	0.50 U	**0.60**	0.48 U	0.47 U	0.48 U
Pyrene	50	µg/L	5.1 U	10 U	0.50 U	**0.70**	0.47 U	**0.19 J**	0.50 U	**0.14 J**	4.8 U	4.7 U	4.7 U	**0.34 J**	4.7 U	**0.42 J**	4.9 U	**0.34 J**	5.1 U	4.7 U	5 U	**0.54 J**	5 U	**0.62 J**	**5 U**	**0.46 J**	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U
Total PAHs	- -	µg/L	ND	**60 J**	**26 J**	**92 J**	**62 J**	**63 J**	**12 J**	**50 J**	**3.9 J**	**14 J**	**9.3 J**	**11 J**	**1.5 J**	**21.3 J**	**7.72 J**	**18.8 J**	**11.1 J**	**14.1 J**	**7.78 J**	**15.3 J**	**6.4 J**	**19.4 J**	**7.0 J**	**10.6 J**	**140 J**	ND	**19 J**	ND	**2.0**	ND

Notes:
1. Samples were submitted to Test America, Amherst, New York for analysis using USEPA SW-846 Methods 8260B (VOCs) and 8270C (SVOCs).
3. D - Compound quantitated using a secondary dilution.
4. J - Indicates that the analyte was detected at a concentration less than the practical quantitation limit (PQL).
5. U - Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
6. B - Indicates an estimated values between the instrument detection limit (IDL) and the PQL.
7. ND - not detected
8. Sample results detected above the Method Detection Limit (MDL) are presented in bold font.
9. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.
10. Only detected Benzene, Ethlybenzene, Toluene, Xylenes [BTEX] and Polycyclic Aromatic Hydrocarbons [PAH] are presented.
11. NA - not analyzed
12. For groundwater samples where the laboratory reported both the individual congeners for xylenes (m/p- & o-) plus a value for total xylenes, total BTEX calculations used the laboratory reported value for total xylenes.

Table 3
Groundwater Quality Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Location ID: / Date Collected:	NYSDEC GW Stds & GVs	Units	MW-8806S 11/02/10	MW-8806S 05/10/11	MW-8806S 11/09/11	MW-8806S 05/31/12	MW-8806S 11/28/12	MW-8806S 05/08/13	MW-8806S 11/15/13	MW-8806S 05/28/14	MW-8806S 11/19/14	MW-8806S 05/19/15	MW-8806S 11/17/15	MW-8806S 05/11/16	MW-8806S 11/16/16	MW-8806S 05/17/17	MW-8806S 11/07/17	MW-8806S 05/15/18	MW-8806S 11/13/18	MW-8807S 05/28/03	MW-8807S 04/22/08	MW-8807S 11/11/08	MW-8807S 05/12/09	MW-8807S 12/02/09	MW-8807S 05/18/10	MW-8807S 11/02/10	MW-8807S 05/10/11	MW-8807S 11/08/11	MW-8807S 05/30/12	MW-8807S 11/29/12	MW-8807S 05/09/13	MW-8807S 11/14/13
BTEX																																
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	**4.5 J**	1 U	**810 DJ**	1 U	**120 D**	1 U	1 U	1 U	**100**	1 U	**24**	1 U	1 U	**96**	1.0 U	1.0 U	1.0 U	1.0 U	**8.5**	1.0 U	1.0 U	**16**	1.0 U	1.0 U	1 U	1 U
Ethylbenzene	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	**4**	1 U	**200 D**	1 U	**49**	1 U	1 U	1 U	**31**	1 U	1 U	1 U	1 U	**24**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U
m/p-Xylenes	- -	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	**0.92 J**	2 U	**100**	2 U	**28**	2 U	2 U	2 U	**7.7**	2 U	2 U	2 U	2 U	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U
o-Xylene	- -	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	**1.3**	1 U	**220 D**	1 U	**49**	1 U	1 U	1 U	**19**	1 U	**5.5**	1 U	1 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U
Toluene	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	**18**	1 U	**8.1**	1 U	1 U	1 U	**2.6**	1 U	1 U	1 U	1 U	**0.40 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U
Xylenes (total)	5	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	**2.2**	2 U	**310 D**	2 U	**77**	2 U	2 U	2 U	**27**	2 U	**5.5**	2 U	2 U	**2.6 J**	NA	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U
Total BTEX	- -	µg/L	ND	ND	ND	ND	**11 J**	ND	**1,338 J**	ND	**254**	ND	ND	ND	**161**	ND	**29.5**	ND	ND	**123**	ND	ND	ND	ND	**8.5**	ND	ND	**16**	ND	ND	ND	ND
PAHs																																
Acenaphthene	20	µg/L	0.47 U	4.8 U	4.8 U	5.2 U	**1.2 J**	4.8 U	**36**	4.5 U	250 U	4.6 U	5.1 U	4.8 U	**4.9**	5 U	**1.7 J**	5 U	5 U	**2.9 J**	**0.90**	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Acenaphthylene	- -	µg/L	0.47 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	**3.3 J**	4.5 U	250 U	4.6 U	5.1 U	4.8 U	**0.42 J**	5 U	5 U	5 U	5 U	**0.30 J**	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Anthracene	50	µg/L	0.47 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	**0.44 J**	4.5 U	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Benzo(a)anthracene	0.002	µg/L	**0.37 J**	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 U	4.5 U	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Benzo(a)pyrene	0	µg/L	**0.38 J**	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 UJ	4.5 U	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Benzo(b)fluoranthene	0.002	µg/L	**0.32 J**	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 UJ	4.5 U	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Benzo(g,h,i)perylene	- -	µg/L	0.47 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 UJ	4.5 U	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Benzo(k)fluoranthene	0.002	ug/L	0.47 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 UJ	4.5 U	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1 U	0.5 UJ	0.5 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Chrysene	0.002	µg/L	**0.24 J**	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 U	4.5 U	250 UJ	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Dibenzo(a,h)anthracene	- -	ug/L	0.47 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 UJ	4.5 U	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1 U	0.5 U	0.5 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Fluoranthene	50	µg/L	**0.31 J**	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 U	4.5 U	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Fluorene	50	µg/L	0.47 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	**2.3 J**	4.5 U	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	**0.12 J**	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	4.7 UJ	4.5 U	250 UJ	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Naphthalene	10	µg/L	0.47 U	4.8 U	4.8 U	5.2 U	**9.9**	4.8 U	**1,400 DJ**	4.5 U	**260**	4.6 U	5.1 U	4.8 U	**73 D**	5 U	**15**	5 U	5 U	**3.0 J**	**13**	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Phenanthrene	50	µg/L	0.47 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	**2.3 J**	4.5 U	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Pyrene	50	µg/L	**0.30 J**	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	**0.43 J**	4.5 U	250 U	4.6 U	5.1 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.48 U	0.47 U	0.48 U	0.48 U	4.9 U	4.7 U	4.7 U	4.8 U	5 U	4.9 U
Total PAHs	- -	µg/L	**2.0 J**	ND	ND	ND	**11 J**	ND	**1,445 J**	ND	**260**	ND	ND	ND	**78.3 J**	ND	**16.7 J**	ND	ND	**6.2**	**14**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
1. Samples were submitted to Test America, Amherst, New York for analysis using USEPA SW-846 Methods 8260B (VOCs) and 8270C (SVOCs).
3. D - Compound quantitated using a secondary dilution.
4. J - Indicates that the analyte was detected at a concentration less than the practical quantitation limit (PQL).
5. U - Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
6. B - Indicates an estimated values between the instrument detection limit (IDL) and the PQL.
7. ND - not detected
8. Sample results detected above the Method Detection Limit (MDL) are presented in bold font.
9. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.
10. Only detected Benzene, Ethlybenzene, Toluene, Xylenes [BTEX] and Polycyclic Aromatic Hydrocarbons [PAH] are presented.
11. NA - not analyzed
12. For groundwater samples where the laboratory reported both the individual congeners for xylenes (m/p- & o-) plus a value for total xylenes, total BTEX calculations used the laboratory reported value for total xylenes.

Table 3
Groundwater Quality Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Location ID: / Date Collected:	NYSDEC GW Stds & GVs	Units	MW-8807S 05/28/14	MW-8807S 11/18/14	MW-8807S 05/19/15	MW-8807S 11/17/15	MW-8807S 05/10/16	MW-8807S 11/15/16	MW-8807S 05/16/17	MW-8807S 11/07/17	MW-8807S 05/15/18	MW-8807S 11/14/18	MW-8808S 05/29/03	MW-8808S 04/22/08	MW-8808S 11/11/08	MW-8808S 05/12/09	MW-8808S 12/01/09	MW-8808S 05/18/10	MW-8808S 11/02/10	MW-8808S 05/10/11	MW-8808S 11/08/11	MW-8808S 05/30/12	MW-8808S 11/29/12	MW-8808S 05/09/13	MW-8808S 11/14/13	MW-8808S 05/29/14	MW-8808S 11/19/14	MW-8808S 05/19/15	MW-8808S 11/17/15	MW-8808S 05/10/16	MW-8808S 11/15/16	MW-8808S 05/16/17
BTEX																																
Benzene	1	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1.0 U	1.0 U	1.0 U	**0.82 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	4.0 U	1.0 U	1.0 U	**0.49 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	- -	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	2 U	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	- -	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	3 U	2 UJ	2 U	5.0 U	NA	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX	- -	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.3 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs																																
Acenaphthene	20	µg/L	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U	5 U
Acenaphthylene	- -	µg/L	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U	5 U
Anthracene	50	µg/L	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U	5 U
Benzo(a)anthracene	0.002	µg/L	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U	5 U
Benzo(a)pyrene	0	µg/L	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U	5 U
Benzo(b)fluoranthene	0.002	µg/L	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U	5 U
Benzo(g,h,i)perylene	- -	µg/L	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U	5 U
Benzo(k)fluoranthene	0.002	ug/L	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1 U	0.5 UJ	0.5 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U	5 U
Chrysene	0.002	µg/L	4.5 U	4.8 UJ	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 UJ	5 U	5 U	4.8 U	4.8 U	5 U
Dibenzo(a,h)anthracene	- -	ug/L	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1 U	0.5 U	0.5 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U	5 U
Fluoranthene	50	µg/L	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U	5 U
Fluorene	50	µg/L	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U	5 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	4.5 U	4.8 UJ	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 UJ	5 U	5 U	4.8 U	4.8 U	5 U
Naphthalene	10	µg/L	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U	5 U
Phenanthrene	50	µg/L	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U	5 U
Pyrene	50	µg/L	4.5 U	4.8 U	4.8 U	5.2 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.47 U	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.9 U	4.7 U	5.1 U	5 U	5 U	4.8 U	4.8 U	5 U
Total PAHs	- -	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
1. Samples were submitted to Test America, Amherst, New York for analysis using USEPA SW-846 Methods 8260B (VOCs) and 8270C (SVOCs).
3. D - Compound quantitated using a secondary dilution.
4. J - Indicates that the analyte was detected at a concentration less than the practical quantitation limit (PQL).
5. U - Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
6. B - Indicates an estimated values between the instrument detection limit (IDL) and the PQL.
7. ND - not detected
8. Sample results detected above the Method Detection Limit (MDL) are presented in bold font.
9. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.
10. Only detected Benzene, Ethlybenzene, Toluene, Xylenes [BTEX] and Polycyclic Aromatic Hydrocarbons [PAH] are presented.
11. NA - not analyzed
12. For groundwater samples where the laboratory reported both the individual congeners for xylenes (m/p- & o-) plus a value for total xylenes, total BTEX calculations used the laboratory reported value for total xylenes.

Table 3
Groundwater Quality Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Location ID: / Date Collected:	NYSDEC GW Stds & GVs	Units	MW-8808S 11/07/17	MW-8808S 05/15/18	MW-8808S 11/13/18	MW-9109S 05/20/03	MW-9109S 04/22/08	MW-9109S 11/11/08	MW-9109S 05/12/09	MW-9109S 12/01/09	MW-9109S 05/20/10	MW-9109S 11/02/10	MW-9109S 05/10/11	MW-9109S 11/08/11	MW-9109S 05/30/12	MW-9109S 11/30/12	MW-9109S 05/10/13	MW-9109S 11/15/13	MW-9109S 05/29/14	MW-9110S 05/28/03	MW-9110S 04/22/08	MW-9110S 11/11/08	MW-9110S 05/12/09	MW-9110S 12/02/09	MW-9110S 05/18/10	MW-9110S 11/02/10	MW-9110S 05/10/11	MW-9110S 11/08/11	MW-9110S 05/30/12	MW-9110S 11/29/12	MW-9110S 05/09/13	MW-9110S 11/14/13
BTEX																																
Benzene	1	µg/L	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U
Ethylbenzene	5	µg/L	1 U	1 U	1 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U
m/p-Xylenes	- -	µg/L	2 U	2 U	2 U	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U
o-Xylene	- -	µg/L	1 U	1 U	1 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U
Toluene	5	µg/L	1 U	1 U	1 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	3 U	2 U	2 U	5.0 U	NA	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	5.0 U	NA	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U
Total BTEX	- -	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs																																
Acenaphthene	20	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Acenaphthylene	- -	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Anthracene	50	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Benzo(a)anthracene	0.002	µg/L	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 UB	0.48 U	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Benzo(a)pyrene	0	µg/L	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 UJ	4.6 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Benzo(b)fluoranthene	0.002	µg/L	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 UJ	4.6 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Benzo(g,h,i)perylene	- -	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 UJ	4.6 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Benzo(k)fluoranthene	0.002	ug/L	5 U	5 U	5 U	1 U	0.5 UJ	0.5 U	0.47 U	0.48 U	0.48 U	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 UJ	4.6 U	1 U	0.5 UJ	0.5 U	0.47 U	0.47 U	0.48 U	0.48 U	5 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Chrysene	0.002	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 UB	0.48 UJ	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	NA	NA	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Dibenzo(a,h)anthracene	- -	ug/L	5 U	5 U	5 U	1 U	0.5 U	0.5 U	0.47 U	0.48 U	0.48 U	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 UJ	4.6 U	1 U	0.5 U	0.5 U	0.47 U	0.47 U	0.48 U	0.48 U	5 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Fluoranthene	50	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Fluorene	50	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 UJ	4.6 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Naphthalene	10	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U	**0.11 J**	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Phenanthrene	50	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Pyrene	50	µg/L	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.48 U	0.48 U	0.48 U	4.8 U	4.7 U	4.8 U	4.7 U	4.7 U	5.4 U	4.6 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.48 U	0.48 U	5.0 U	4.8 U	4.7 U	4.8 U	4.8 U	4.6 U
Total PAHs	- -	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.11 J**	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
1. Samples were submitted to Test America, Amherst, New York for analysis using USEPA SW-846 Methods 8260B (VOCs) and 8270C (SVOCs).
3. D - Compound quantitated using a secondary dilution.
4. J - Indicates that the analyte was detected at a concentration less than the practical quantitation limit (PQL).
5. U - Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
6. B - Indicates an estimated values between the instrument detection limit (IDL) and the PQL.
7. ND - not detected
8. Sample results detected above the Method Detection Limit (MDL) are presented in bold font.
9. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.
10. Only detected Benzene, Ethlybenzene, Toluene, Xylenes [BTEX] and Polycyclic Aromatic Hydrocarbons [PAH] are presented.
11. NA - not analyzed
12. For groundwater samples where the laboratory reported both the individual congeners for xylenes (m/p- & o-) plus a value for total xylenes, total BTEX calculations used the laboratory reported value for total xylenes.

Table 3
Groundwater Quality Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Location ID: / Date Collected:	NYSDEC GW Stds & GVs	Units	MW-9110S 05/28/14	MW-9110S 11/18/14	MW-9110S 05/19/15	MW-9110S 11/17/15	MW-9110S 05/10/16	MW-9110S 11/15/16	MW-9110S 05/16/17	MW-9110S 11/07/17	MW-9110S 05/15/18	MW-9110S 11/14/18	MW-9111S 05/28/03	MW-9111S 04/23/08	MW-9111S 11/11/08	MW-9111S 05/12/09	MW-9111S 12/01/09	MW-9111S 05/20/10	MW-9111S 11/02/10	MW-9111S 05/10/11	MW-9111S 11/09/11	MW-9111S 05/30/12	MW-9111S 11/30/12	MW-9111S 05/10/13	MW-9111S 11/14/13	MW-9111S 05/29/14	MW-9111S 11/19/14	MW-9111S 05/21/15	MW-9111S 11/17/15	MW-9111S 05/10/16	MW-9111S 11/15/16	MW-9111S 05/16/17
BTEX																																
Benzene	1	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2.4**	1.0 U	**57**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.1**	1 U	1 U	1 U	**1.6**	1 U	1 U	**2.2**	1 U	1 U
Ethylbenzene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.0 U	1.0 U	**2.0**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.79 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	- -	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	- -	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	3 U	2 U	2 U	5.0 U	NA	**1.4 J**	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX	- -	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.4**	ND	**60 J**	ND	ND	ND	ND	ND	ND	ND	**2.9 J**	ND	ND	ND	**1.6**	ND	ND	**2.2**	ND	ND
PAHs																																
Acenaphthene	20	µg/L	5.1 U	5 U	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	**11**	**5.0**	**10**	**4.5**	**7.8**	**4.5**	**6.1**	**3.8 J**	**5.6**	**4.2 J**	**5.3**	**3.1 J**	**5.8**	**3.8 J**	**3.7 J**	**3.4 J**	**3.7 J**	**4 J**	**4.7**	**2.5 J**
Acenaphthylene	- -	µg/L	5.1 U	5 U	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U	4.7 U	5.2 U	4.7 U	**0.68 J**	5.2 U	4.6 U	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U
Anthracene	50	µg/L	5.1 U	5 U	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	**0.099 J**	0.47 U	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U
Benzo(a)anthracene	0.002	µg/L	5.1 U	5 U	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 UJ	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U
Benzo(a)pyrene	0	µg/L	5.1 U	5 U	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U
Benzo(b)fluoranthene	0.002	µg/L	5.1 U	5 U	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 UJ	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U
Benzo(g,h,i)perylene	- -	µg/L	5.1 U	5 U	4.6 U	4.9 U	4.8 U	4.8 UJ	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 UJ	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U
Benzo(k)fluoranthene	0.002	ug/L	5.1 U	5 U	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1 U	0.5 UJ	0.5 U	0.47 U	0.47 U	0.5 U	0.47 UJ	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U
Chrysene	0.002	µg/L	5.1 U	5 UJ	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	**0.11 J**	0.47 UJ	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U	4.7 UJ	5 U	5 U	4.9 U	4.6 U	5 U
Dibenzo(a,h)anthracene	- -	ug/L	5.1 U	5 U	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	1 U	0.5 U	0.5 U	0.47 U	0.47 U	0.5 U	0.47 UJ	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U
Fluoranthene	50	µg/L	5.1 U	5 U	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U
Fluorene	50	µg/L	5.1 U	5 U	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	**0.80 J**	**0.50**	**1.0**	**0.42 J**	**0.77**	**0.35 J**	**0.58**	4.8 U	**0.51 J**	5.2 U	**0.42 J**	4.7 U	**0.54 J**	4.6 U	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5.1 U	5 UJ	4.6 U	4.9 U	4.8 U	4.8 UJ	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 UJ	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U	4.7 UJ	5 U	5 U	4.9 U	4.6 U	5 U
Naphthalene	10	µg/L	5.1 U	5 U	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	**0.40 J**	0.50 U	**5.0**	0.47 U	**0.32 J**	**0.19 J**	0.47 U	4.8 U	4.7 U	5.2 U	**1.2 J**	4.7 U	5.2 U	4.6 U	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U
Phenanthrene	50	µg/L	5.1 U	5 U	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	**0.20 J**	0.47 U	**0.17 J**	0.50 U	0.47 U	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U
Pyrene	50	µg/L	5.1 U	5 U	4.6 U	4.9 U	4.8 U	4.8 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.50 U	0.47 U	4.8 U	4.7 U	5.2 U	4.7 U	4.7 U	5.2 U	4.6 U	4.7 U	5 U	5 U	4.9 U	4.6 U	5 U
Total PAHs	- -	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**12 J**	**5.5**	**16 J**	**4.9 J**	**9.1 J**	**5.3 J**	**6.7**	**3.8 J**	**6.1 J**	**4.2 J**	**6.9 J**	**3.8 J**	**6.34 J**	**3.8 J**	**3.7 J**	**3.4 J**	**3.7 J**	**4 J**	**4.7**	**2.5 J**

Notes:
1. Samples were submitted to Test America, Amherst, New York for analysis using USEPA SW-846 Methods 8260B (VOCs) and 8270C (SVOCs).
3. D - Compound quantitated using a secondary dilution.
4. J - Indicates that the analyte was detected at a concentration less than the practical quantitation limit (PQL).
5. U - Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
6. B - Indicates an estimated values between the instrument detection limit (IDL) and the PQL.
7. ND - not detected
8. Sample results detected above the Method Detection Limit (MDL) are presented in bold font.
9. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.
10. Only detected Benzene, Ethlybenzene, Toluene, Xylenes [BTEX] and Polycyclic Aromatic Hydrocarbons [PAH] are presented.
11. NA - not analyzed
12. For groundwater samples where the laboratory reported both the individual congeners for xylenes (m/p- & o-) plus a value for total xylenes, total BTEX calculations used the laboratory reported value for total xylenes.

Table 3
Groundwater Quality Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Location ID: / Date Collected:	NYSDEC GW Stds & GVs	Units	MW-9111S 11/08/17	MW-9111S 05/15/18	MW-9111S 11/13/18	MW-9112D 05/22/03	MW-9112D 09/18/07	MW-9112D 12/17/07	MW-9112D 11/11/08	MW-9112D 05/12/09	MW-9112D 12/01/09	MW-9112D 05/19/10	MW-9112D 11/03/10	MW-9112D 05/10/11	MW-9112D 11/08/11	MW-9112D 05/30/12	MW-9112D 11/29/12	MW-9112D 05/09/13	MW-9112D 11/13/13	MW-9112D 05/28/14	MW-9112D 11/18/14	MW-9112D 05/19/15	MW-9112D 11/18/15	MW-9112D 05/11/16	MW-9112D 11/15/16	MW-9112D 05/16/17	MW-9112D 11/07/17	MW-9112D 05/16/18	MW-9112D 11/13/18	MW-9112S 05/22/03	MW-9112S 09/18/07	MW-9112S 12/17/07
BTEX																																
Benzene	1	µg/L	**18**	**0.68 J**	1 U	1.0 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U	0.50 U	0.50 U
Ethylbenzene	5	µg/L	**0.45 J**	1 U	1 U	4.0 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.75 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.0 U	0.50 U	0.50 U
m/p-Xylenes	- -	µg/L	2 U	2 U	2 U	NA	NA	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA
o-Xylene	- -	µg/L	**0.21 J**	1 U	1 U	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA
Toluene	5	µg/L	1 U	1 U	1 U	5.0 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.0 U	0.50 U	0.50 U
Xylenes (total)	5	µg/L	3 U	2 U	2 U	5.0 U	1.5 U	1.5 U	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	3 U	2 U	5.0 U	1.5 U	1.5 U
Total BTEX	- -	µg/L	**18.5 J**	**0.68 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.75 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAHs																																
Acenaphthene	20	µg/L	**4.4 J**	**2.5 J**	**4.5 J**	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Acenaphthylene	- -	µg/L	5 U	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Anthracene	50	µg/L	5 U	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Benzo(a)anthracene	0.002	µg/L	5 U	5 U	5 U	1.0 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	NA	NA
Benzo(a)pyrene	0	µg/L	5 U	5 U	5 U	1.0 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 UJ	4.8 U	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	NA	NA
Benzo(b)fluoranthene	0.002	µg/L	5 U	5 U	5 U	1.0 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	NA	NA
Benzo(g,h,i)perylene	- -	µg/L	5 U	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 UJ	4.8 U	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Benzo(k)fluoranthene	0.002	µg/L	5 U	5 U	5 U	1 U	NA	NA	0.5 U	0.5 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	1 U	NA	NA
Chrysene	0.002	µg/L	5 U	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 UJ	4.8 U	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Dibenzo(a,h)anthracene	- -	µg/L	5 U	5 U	5 U	1 U	NA	NA	0.5 U	0.5 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 UJ	4.8 U	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	1 U	NA	NA
Fluoranthene	50	µg/L	5 U	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	**0.41 J**	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Fluorene	50	µg/L	5 U	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5 U	5 U	5 U	1.0 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 UJ	4.8 U	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	NA	NA
Naphthalene	10	µg/L	**1.6 J**	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	**1.2 J**	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Phenanthrene	50	µg/L	5 U	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	**0.54 J**	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Pyrene	50	µg/L	5 U	5 U	5 U	10 U	NA	NA	0.50 U	0.52 U	9.6 U	0.47 U	0.47 U	4.8 U	4.9 U	5.6 U	4.7 U	4.8 U	4.8 U	4.6 U	4.7 U	4.8 U	4.9 U	4.9 U	4.6 U	5 U	5 U	5 U	5 U	10 U	NA	NA
Total PAHs	- -	µg/L	**6 J**	**2.5 J**	**4.5 J**	ND	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	**1.2 J**	ND	ND	ND	ND	**0.95 J**	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA

Notes:
1. Samples were submitted to Test America, Amherst, New York for analysis using USEPA SW-846 Methods 8260B (VOCs) and 8270C (SVOCs).
3. D - Compound quantitated using a secondary dilution.
4. J - Indicates that the analyte was detected at a concentration less than the practical quantitation limit (PQL).
5. U - Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
6. B - Indicates an estimated values between the instrument detection limit (IDL) and the PQL.
7. ND - not detected
8. Sample results detected above the Method Detection Limit (MDL) are presented in bold font.
9. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.
10. Only detected Benzene, Ethlybenzene, Toluene, Xylenes [BTEX] and Polycyclic Aromatic Hydrocarbons [PAH] are presented.
11. NA - not analyzed
12. For groundwater samples where the laboratory reported both the individual congeners for xylenes (m/p- & o-) plus a value for total xylenes, total BTEX calculations used the laboratory reported value for total xylenes.

Table 3
Groundwater Quality Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Location ID: / Date Collected:	NYSDEC GW Stds & GVs	Units	MW-9112S 04/23/08	MW-9112S 11/11/08	MW-9112S 05/12/09	MW-9112S 12/01/09	MW-9112S 05/19/10	MW-9112S 11/03/10	MW-9112S 05/10/11	MW-9112S 11/08/11	MW-9112S 05/30/12	MW-9112S 11/29/12	MW-9112S 05/09/13	MW-9112S 11/13/13	MW-9112S 05/28/14	MW-9112S 11/18/14	MW-9112S 05/19/15	MW-9112S 11/18/15	MW-9112S 05/11/16	MW-9112S 11/15/16	MW-9112S 05/16/17	MW-9112S 11/07/17	MW-9112S 05/15/18	MW-9112S 11/13/18	MW-9114S 05/21/03	MW-9114S 04/23/08	MW-9114S 11/11/08	MW-9114S 05/12/09	MW-9114S 12/02/09	MW-9114S 05/19/10	MW-9114S 11/02/10	MW-9114S 05/11/11
BTEX																																
Benzene	1	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.42 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.42 J**	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m/p-Xylenes	- -	µg/L	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	- -	µg/L	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	µg/L	NA	3.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	3 U	2 U	2 U	5.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total BTEX	- -	µg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.6 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.42 J**	ND	ND	ND
PAHs																																
Acenaphthene	20	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Acenaphthylene	- -	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Anthracene	50	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Benzo(a)anthracene	0.002	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Benzo(a)pyrene	0	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Benzo(b)fluoranthene	0.002	µg/L	0.50 UJ	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Benzo(g,h,i)perylene	- -	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Benzo(k)fluoranthene	0.002	ug/L	0.5 UJ	0.5 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	1 U	0.5 UJ	0.5 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Chrysene	0.002	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U	5.6 U	4.6 U	5.5 UJ	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Dibenzo(a,h)anthracene	- -	ug/L	0.5 UJ	0.5 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	1 U	0.5 U	0.5 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Fluoranthene	50	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Fluorene	50	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	0.50 UJ	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U	5.6 U	4.6 U	5.5 UJ	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Naphthalene	10	µg/L	**0.50**	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	**1.8 J**	4.8 U	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	**1.0**	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Phenanthrene	50	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Pyrene	50	µg/L	0.50 U	0.50 U	0.48 U	0.48 U	0.47 U	0.47 U	4.8 U	4.7 U	5.6 U	4.7 U	4.8 U	5.6 U	4.6 U	5.5 U	5.2 U	4.8 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.50 U	0.50 U	0.47 U	0.47 U	0.49 U	0.47 U	4.9 U
Total PAHs	- -	µg/L	**0.50**	ND	ND	ND	ND	ND	ND	ND	ND	**1.8 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.2 J**	ND	ND	ND	ND	ND	ND

Notes:
1. Samples were submitted to Test America, Amherst, New York for analysis using USEPA SW-846 Methods 8260B (VOCs) and 8270C (SVOCs).
3. D - Compound quantitated using a secondary dilution.
4. J - Indicates that the analyte was detected at a concentration less than the practical quantitation limit (PQL).
5. U - Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
6. B - Indicates an estimated values between the instrument detection limit (IDL) and the PQL.
7. ND - not detected
8. Sample results detected above the Method Detection Limit (MDL) are presented in bold font.
9. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.
10. Only detected Benzene, Ethlybenzene, Toluene, Xylenes [BTEX] and Polycyclic Aromatic Hydrocarbons [PAH] are presented.
11. NA - not analyzed
12. For groundwater samples where the laboratory reported both the individual congeners for xylenes (m/p- & o-) plus a value for total xylenes, total BTEX calculations used the laboratory reported value for total xylenes.

Table 3
Groundwater Quality Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Location ID: / Date Collected:	NYSDEC GW Stds & GVs	Units	MW-9114S 11/08/11	MW-9114S 05/30/12	MW-9114S 11/29/12	MW-9114S 05/09/13	MW-9114S 11/14/13	MW-9114S 05/28/14	MW-9114S 11/18/14	MW-9114S 05/19/15	MW-9114S 11/17/15	MW-9114S 05/11/16	MW-9114S 11/16/16	MW-9114S 05/16/17	MW-9114S 11/07/17	MW-9114S 05/16/18	MW-9114S 11/14/18	MW-9502S 05/21/03	MW-9502S 09/18/07	MW-9502S 12/17/07	MW-9502S 12/01/09	MW-9502S 05/20/10	MW-9502S 11/02/10	MW-9502S 05/10/11	MW-9502S 11/08/11	MW-9502S 05/30/12	MW-9502S 11/29/12	MW-9502S 05/09/13	MW-9502S 11/14/13	MW-9502S 05/28/14	MW-9502S 11/18/14	MW-9502S 05/19/15
BTEX																																
Benzene	1	µg/L	1.0 U	1.0 U	**0.76 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.0 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.9**	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	µg/L	1.0 U	1.0 U	**1.9**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4.0 U	**0.94**	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.3**	1 U	1 U	1 U	1 U	1 U
m/p-Xylenes	- -	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	NA	NA	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U
o-Xylene	- -	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5	µg/L	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.9**	1 U	1 U	**25**	1 U	**0.55 J**	1 U	5.0 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5	µg/L	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	3 U	2 U	2 U	5.0 U	**1.4 J**	1.5 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX	- -	µg/L	ND	ND	**2.7 J**	ND	ND	ND	ND	ND	**1.9**	ND	ND	**25**	ND	**0.55 J**	ND	ND	**2.3 J**	ND	ND	ND	ND	ND	ND	ND	**3.2**	ND	ND	ND	ND	ND
PAHs																																
Acenaphthene	20	µg/L	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	10 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	**0.49 J**	4.8 U	5.3 U	4.5 U	4.7 U	4.8 U
Acenaphthylene	- -	µg/L	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	10 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U	4.7 U	4.8 U
Anthracene	50	µg/L	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	10 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U	4.7 U	4.8 U
Benzo(a)anthracene	0.002	µg/L	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	1.0 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U	4.7 U	4.8 U
Benzo(a)pyrene	0	µg/L	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	1.0 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U	4.7 U	4.8 U
Benzo(b)fluoranthene	0.002	µg/L	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	1.0 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U	4.7 U	4.8 U
Benzo(g,h,i)perylene	- -	µg/L	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 UJ	4.7 U	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	10 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U	4.7 U	4.8 UJ
Benzo(k)fluoranthene	0.002	ug/L	4.7 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	1 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U	4.7 U	4.8 U
Chrysene	0.002	µg/L	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 UJ	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	10 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U	4.7 UJ	4.8 U
Dibenzo(a,h)anthracene	- -	ug/L	4.7 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 UJ	4.7 U	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	1 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U	4.7 U	4.8 U
Fluoranthene	50	µg/L	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	10 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U	4.7 U	4.8 U
Fluorene	50	µg/L	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	10 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U	4.7 U	4.8 U
Indeno(1,2,3-cd)pyrene	0.002	µg/L	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 UJ	4.7 UJ	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	1.0 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U	4.7 UJ	4.8 UJ
Naphthalene	10	µg/L	0.47 U	5.3 U	**2.3 J**	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	10 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	**2.1 J**	4.8 U	5.3 U	4.5 U	4.7 U	4.8 U
Phenanthrene	50	µg/L	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	10 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U	4.7 U	4.8 U
Pyrene	50	µg/L	0.47 U	5.3 U	4.7 U	4.7 U	5.4 U	4.6 U	4.7 U	5 U	5.1 U	4.8 U	4.5 U	5 U	5 U	5 U	5 U	10 U	NA	NA	0.47 U	0.48 U	0.48 U	4.8 U	4.8 U	5.2 U	4.7 U	4.8 U	5.3 U	4.5 U	4.7 U	4.8 U
Total PAHs	- -	µg/L	ND	ND	**2.3 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND	ND	ND	ND	ND	**2.6 J**	ND	ND	ND	ND	ND

Notes:
1. Samples were submitted to Test America, Amherst, New York for analysis using USEPA SW-846 Methods 8260B (VOCs) and 8270C (SVOCs).
3. D - Compound quantitated using a secondary dilution.
4. J - Indicates that the analyte was detected at a concentration less than the practical quantitation limit (PQL).
5. U - Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
6. B - Indicates an estimated values between the instrument detection limit (IDL) and the PQL.
7. ND - not detected
8. Sample results detected above the Method Detection Limit (MDL) are presented in bold font.
9. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.
10. Only detected Benzene, Ethlybenzene, Toluene, Xylenes [BTEX] and Polycyclic Aromatic Hydrocarbons [PAH] are presented.
11. NA - not analyzed
12. For groundwater samples where the laboratory reported both the individual congeners for xylenes (m/p- & o-) plus a value for total xylenes, total BTEX calculations used the laboratory reported value for total xylenes.

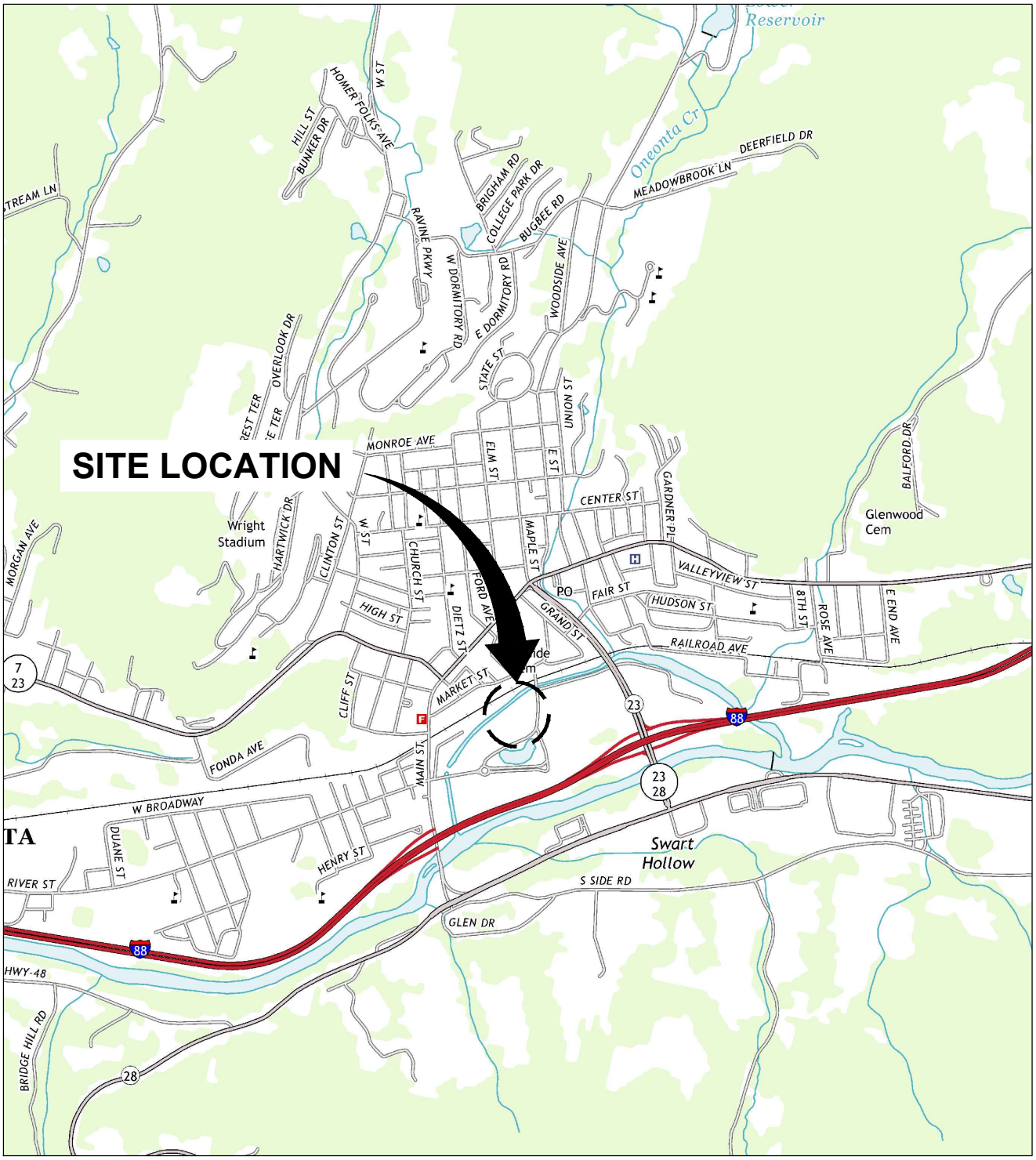
Table 3
Groundwater Quality Data

Annual Periodic Review Report (Q39 - Q42)
Oneonta Former MGP Site, Oneonta, New York

Location ID: / Date Collected:	NYSDEC GW Stds & GVs	Units	MW-9502S 11/17/15	MW-9502S 05/10/16	MW-9502S 11/15/16	MW-9502S 05/16/17	MW-9502S 11/07/17	MW-9502S 05/15/18	MW-9502S 11/14/18	PTMW-0202 05/28/03	PTMW-0202 12/01/09	PTMW-0202 05/20/10	PTMW-0202 11/02/10	PTMW-0202 05/10/11	PTMW-0202 11/09/11	PTMW-0202 05/30/12	PTMW-0202 11/30/12	PTMW-0202 05/09/13	PTMW-0202 11/14/13	PTMW-0202 05/29/14	PTMW-0202 11/19/14	PTMW-0202 05/21/15	PTMW-0202 11/17/15	PTMW-0202 05/10/16	PTMW-0202 11/15/16	PTMW-0202 05/16/17	PTMW-0202 11/08/17	PTMW-0202 05/15/18	PTMW-0202 11/13/18
BTEX																													
Benzene	1	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**22**	**12**	**7.1**	**33**	1.0 U	1.0 U	**32**	**320 D**	**120**	**30**	**53**	**290 D**	**90**	**230**	**97**	1 U	**40**	**380**	**260**	**160**
Ethylbenzene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**7.7**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**12**	2 U	1 U	1 U	**0.92 J**	1 U	**21**	4 U	1 U	1 U	**43**	4 U	4 U
m/p-Xylenes	- -	µg/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U	NA	2.0 U	2.0 U	**1.4 J**	2.0 U	2.0 U	2.0 U	**1.2 J**	4 U	2 U	2 U	**2.6**	2 U	8 U	8 U	2 U	2 U	**3.8**	8 U	8 U
o-Xylene	- -	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	NA	**2.4**	1.0 U	**3.2**	1.0 U	1.0 U	1.0 U	**12**	**6.2**	1 U	**1.6**	**7.5**	**1.9**	**7.2**	4 U	1 U	**2.7**	**17**	**4.9**	**5.3**
Toluene	5	µg/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.67 J**	2 U	1 U	1 U	1 U	1 U	4 U	4 U	1 U	**0.52 J**	**0.86 J**	4 U	4 U
Xylenes (total)	5	µg/L	2 U	2 U	2 U	2 U	3 U	2 U	2 U	**1.6 J**	**2.9**	2.0 U	**4.6**	2.0 U	2.0 U	2.0 U	**13**	**6.2**	2 U	**1.6 J**	**10**	**1.9 J**	**7.2 J**	8 U	2 U	**2.7**	**21**	**4.9 J**	**5.3 J**
Total BTEX	- -	µg/L	ND	ND	ND	ND	ND	ND	ND	**31 J**	**15**	**7.1**	**38 J**	ND	ND	**32**	**346 J**	**126**	**30**	**54.6 J**	**301 J**	**91.9 J**	**258 J**	**97**	ND	**43.2 J**	**445 J**	**265 J**	**165 J**
PAHs																													
Acenaphthene	20	µg/L	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	**52**	**39**	**34**	**42**	**23**	**41**	**35**	**55**	**43 J**	**20**	**43**	**61 J**	**40**	**20**	**39**	4.6 U	**57**	**86 D**	**63**	**88**
Acenaphthylene	- -	µg/L	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	**1.2 J**	0.47 U	0.48 U	**0.40 J**	4.8 U	**0.46 J**	5.3 U	**0.41 J**	R	5.5 U	**0.4 J**	230 U	**0.43 J**	4.7 U	4.8 U	4.6 U	5 U	**0.8 J**	**0.62 J**	5 U
Anthracene	50	µg/L	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	**0.60 J**	**0.27 J**	**0.12 J**	**0.23 J**	4.8 U	4.7 U	5.3 U	**0.33 J**	R	5.5 U	**0.34 J**	230 U	5.1 U	**0.27 J**	**0.56 J**	4.6 U	**0.63 J**	**1.2 J**	**0.64 J**	**1.7 J**
Benzo(a)anthracene	0.002	µg/L	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	**0.34 J**	5.5 U	4.6 U	230 U	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Benzo(a)pyrene	0	µg/L	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	R	5.5 U	4.6 U	230 U	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Benzo(b)fluoranthene	0.002	µg/L	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	**0.32 J**	5.5 U	4.6 U	230 U	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Benzo(g,h,i)perylene	- -	µg/L	5 U	4.7 U	**0.38 J**	5 U	5 U	5 U	5 U	10 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	R	5.5 U	4.6 U	230 U	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Benzo(k)fluoranthene	0.002	ug/L	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	1 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	R	5.5 U	4.6 U	230 U	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Chrysene	0.002	µg/L	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	10 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	R	5.5 U	4.6 U	230 UJ	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Dibenzo(a,h)anthracene	- -	ug/L	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	1 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	R	5.5 U	4.6 U	230 U	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Fluoranthene	50	µg/L	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	**0.50 J**	**0.56**	**0.45 J**	**0.88**	4.8 U	4.7 U	5.3 U	**0.41 J**	R	**0.5 J**	**0.56 J**	230 U	5.1 U	**0.44 J**	**0.6 J**	4.6 U	**0.63 J**	**0.93 J**	**0.55 J**	**1.6 J**
Fluorene	50	µg/L	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	**6.9 J**	**3.1**	**5.2**	**9.8**	4.8 U	**4.7**	**5.2 J**	**7.8**	**3.9 J**	**2.2 J**	**8.4**	230 U	**3.4 J**	**3.5 J**	**5.9**	4.6 U	**8**	**16**	**11**	**21**
Indeno(1,2,3-cd)pyrene	0.002	µg/L	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	1.0 U	0.47 U	0.48 U	0.48 U	4.8 U	4.7 U	5.3 U	4.7 U	R	5.5 U	4.6 U	230 UJ	5.1 U	4.7 U	4.8 U	4.6 U	5 U	5 U	5 U	5 U
Naphthalene	10	µg/L	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	**0.70 J**	**16**	**0.36 J**	**48**	4.8 U	4.7 U	5.3 U	**69**	**R**	**1.3 J**	4.6 U	**120 J**	5.1 U	**18**	**12**	4.6 U	5 U	**290 D**	**7.8**	**99 D**
Phenanthrene	50	µg/L	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	**5.2 J**	**0.38 J**	0.48 U	**0.42 J**	4.8 U	4.7 U	5.3 U	**2.4 J**	**1.7 J**	5.5 U	**1.5 J**	230 U	**0.89 J**	**1.1 J**	**2.4 J**	4.6 U	**2.6 J**	**4.8 J**	**2.1 J**	**7.8**
Pyrene	50	µg/L	5 U	4.7 U	4.6 U	5 U	5 U	5 U	5 U	**0.50 J**	**0.55**	**0.45 J**	**0.85**	4.8 U	**0.85 J**	5.3 U	**0.44 J**	**0.71 J**	**0.53 J**	**0.68 J**	230 U	5.1 U	4.7 U	**0.59 J**	4.6 U	**0.61 J**	**1 J**	**0.51 J**	**1.5 J**
Total PAHs	- -	µg/L	ND	ND	**0.38 J**	ND	ND	ND	ND	**68 J**	**60 J**	**41 J**	**100 J**	**23**	**47 J**	**40 J**	**136 J**	**50 J**	**24.5 J**	**54.9 J**	**181 J**	**44.7 J**	**43.3 J**	**61.1 J**	ND	**69.5 J**	**401 J**	**86.2 J**	**221 DJ**

Notes:
1. Samples were submitted to Test America, Amherst, New York for analysis using USEPA SW-846 Methods 8260B (VOCs) and 8270C (SVOCs).
3. D - Compound quantitated using a secondary dilution.
4. J - Indicates that the analyte was detected at a concentration less than the practical quantitation limit (PQL).
5. U - Indicates the constituent was not detected at the PQL. The value preceding the U indicates the PQL.
6. B - Indicates an estimated values between the instrument detection limit (IDL) and the PQL.
7. ND - not detected
8. Sample results detected above the Method Detection Limit (MDL) are presented in bold font.
9. Shading indicates that the result exceeds the NYSDEC TOGS 1.1.1 Water Quality Standard or Guidance Value.
10. Only detected Benzene, Ethlybenzene, Toluene, Xylenes [BTEX] and Polycyclic Aromatic Hydrocarbons [PAH] are presented.
11. NA - not analyzed
12. For groundwater samples where the laboratory reported both the individual congeners for xylenes (m/p- & o-) plus a value for total xylenes, total BTEX calculations used the laboratory reported value for total xylenes.

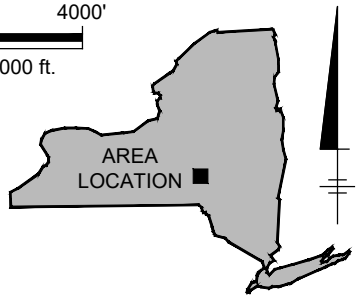
FIGURES



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., ONEONTA, NY, 2013

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.

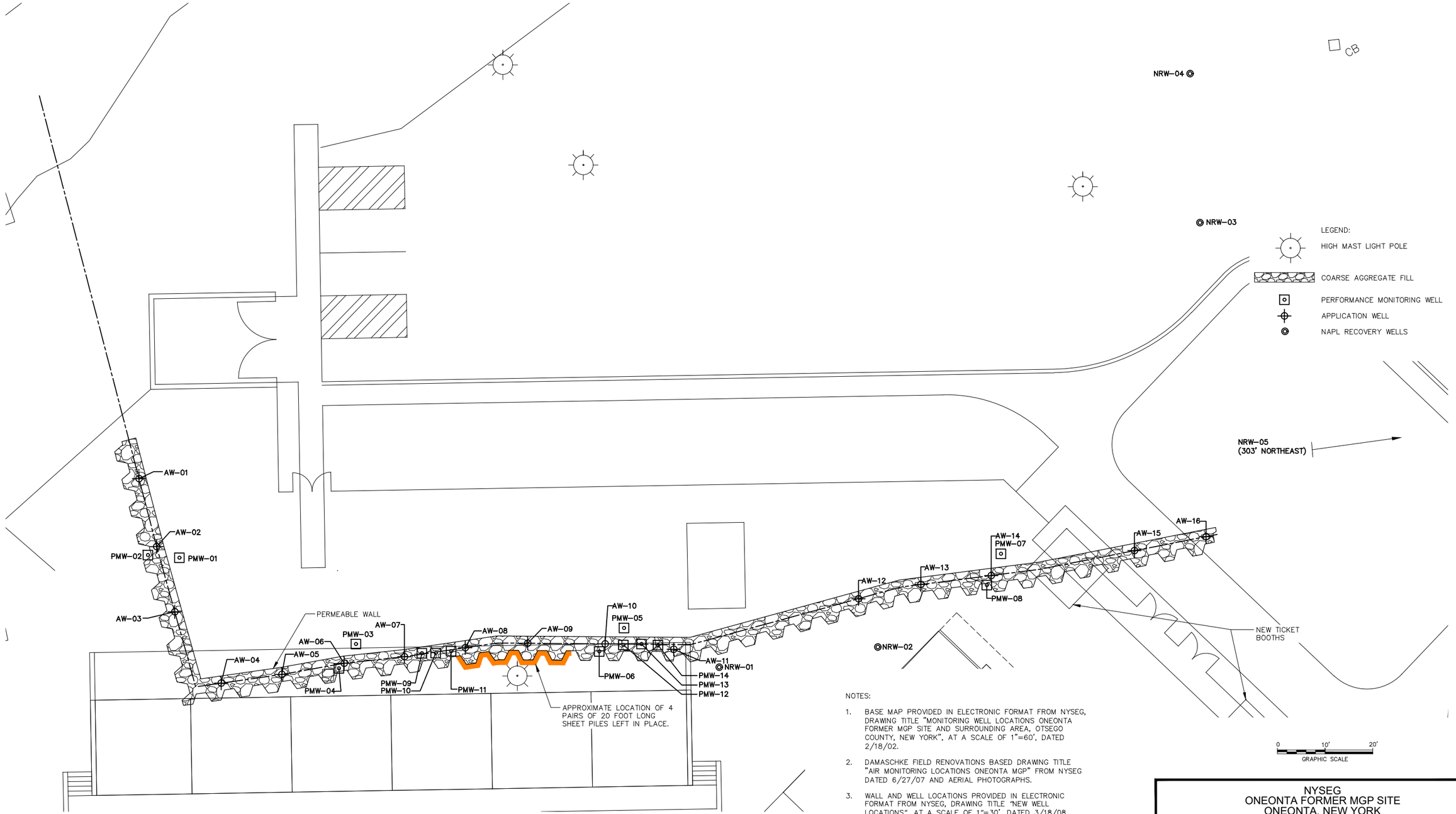


NYSEG/ONEONTA, FORMER MGP SITE
ONEONTA, NEW YORK
PERIODIC REVIEW REPORT

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1



NOTES:

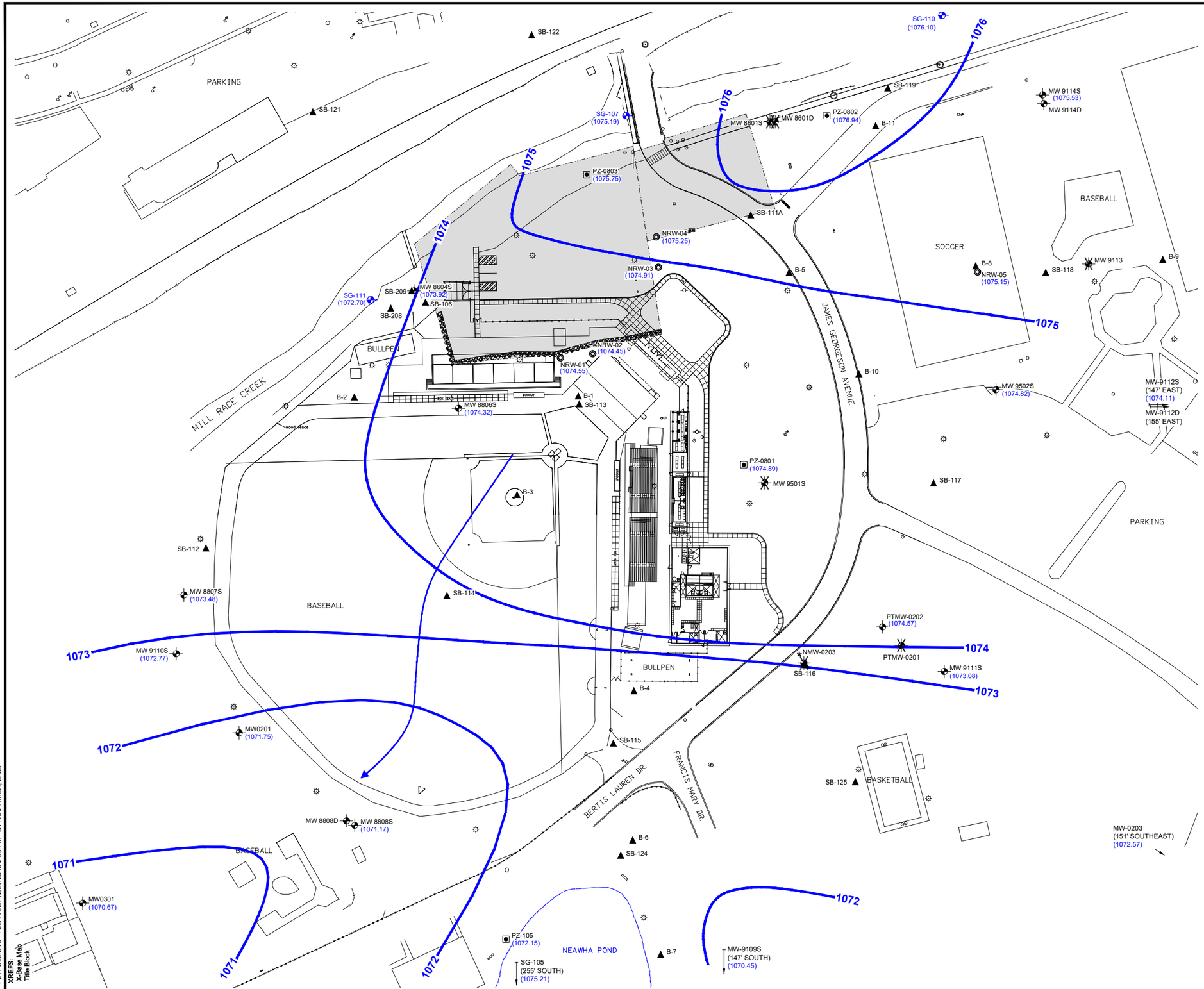
1. BASE MAP PROVIDED IN ELECTRONIC FORMAT FROM NYSEG, DRAWING TITLE "MONITORING WELL LOCATIONS ONEONTA FORMER MGP SITE AND SURROUNDING AREA, OTSEGO COUNTY, NEW YORK", AT A SCALE OF 1"=60', DATED 2/18/02.
2. DAMASCHKE FIELD RENOVATIONS BASED DRAWING TITLE "AIR MONITORING LOCATIONS ONEONTA MGP" FROM NYSEG DATED 6/27/07 AND AERIAL PHOTOGRAPHS.
3. WALL AND WELL LOCATIONS PROVIDED IN ELECTRONIC FORMAT FROM NYSEG, DRAWING TITLE "NEW WELL LOCATIONS", AT A SCALE OF 1"=30', DATED 3/18/08.
4. APPROXIMATE LOCATION OF SHEET PILES LEFT IN PLACE OBTAINED FROM EARTH TECH CORRESPONDENCE DATED JULY 18, 2007.

NYSEG
ONEONTA FORMER MGP SITE
ONEONTA, NEW YORK
PERIODIC REVIEW REPORT

PERMEABLE WALL AND ASSOCIATED WELLS

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2



LEGEND:

- HIGH MAST LIGHT POLE
- PERMEABLE WALL LOCATION (APPROXIMATE)
- FORMER MGP EXCAVATION LIMITS (PROVIDED BY NYSEG)
- NAPL RECOVERY WELL
- STAFF GAUGE
- MONITORING WELL
- SOIL BORING
- WELL EQUIPPED WITH SUMP
- PIEZOMETER
- MONITORING WELL THAT NO LONGER EXISTS
- 1073 — WATER TABLE ELEVATION (FAMSL)
- (1072.70) — GROUNDWATER ELEVATION (FAMSL)
- GROUNDWATER FLOW DIRECTION

NOTES:

1. BASE MAP PROVIDED IN ELECTRONIC FORMAT FROM NYSEG, DRAWING TITLE "MONITORING WELL LOCATIONS ONEONTA FORMER MGP SITE AND SURROUNDING AREA, OTSEGO COUNTY, NEW YORK, AT A SCALE OF 1"=60', DATED 2/18/02.
2. DAMASCHKE FIELD RENOVATIONS BASED DRAWING TITLE "AIR MONITORING LOCATIONS ONEONTA MGP" FROM NYSEG DATED 6/27/07 AND AERIAL PHOTOGRAPHS.
3. ALL ELEVATIONS ARE REFERENCED TO NGVD 1929.
4. FAMSL – FEET ABOVE MEAN SEA LEVEL.

0 50' 100'
GRAPHIC SCALE

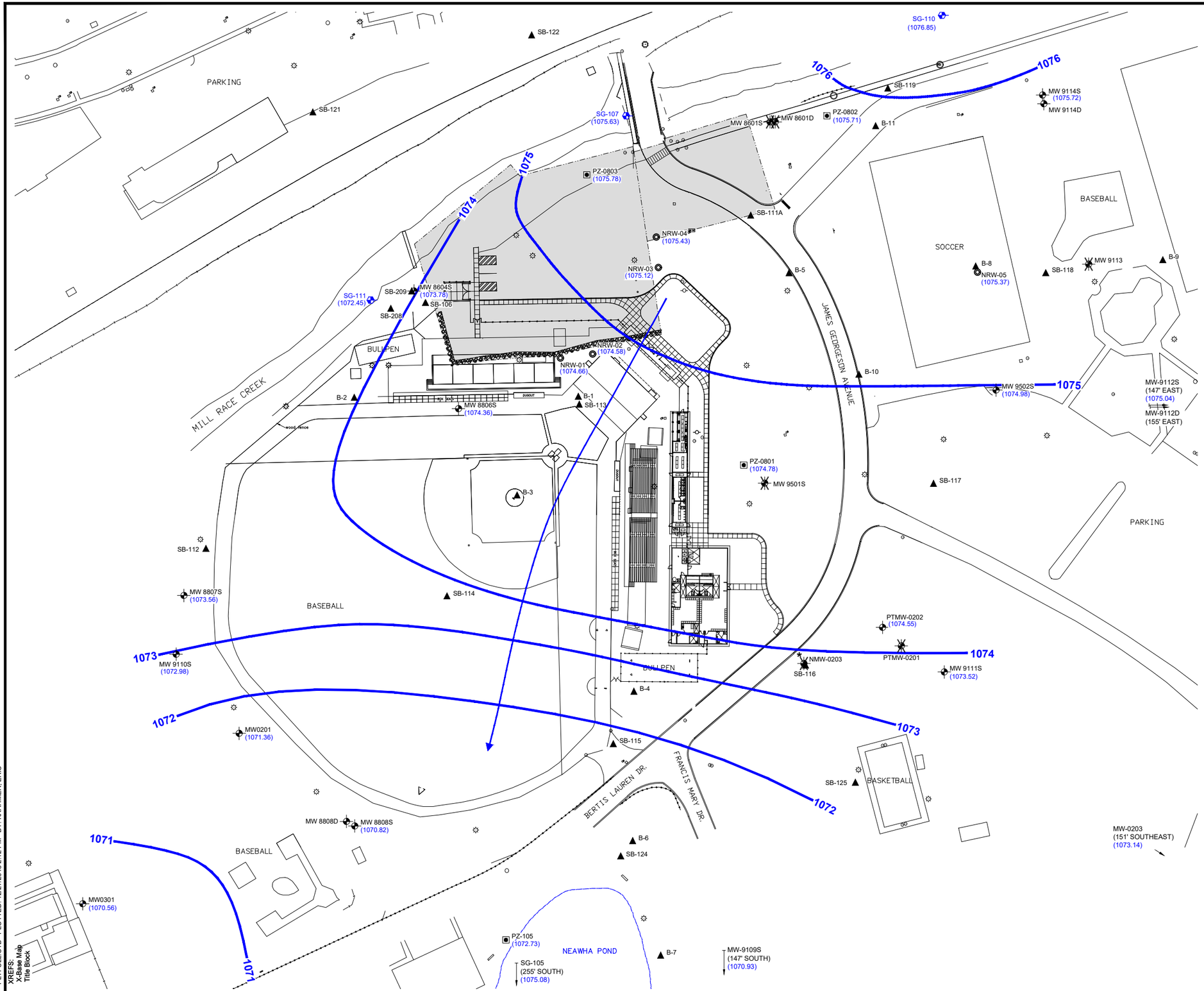
NYSEG
ONEONTA FORMER MGP SITE
ONEONTA, NEW YORK
PERIODIC REVIEW REPORT

WATER TABLE FIGURE - MAY 14, 2018

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

CITY: SYRACUSE NY DIV/GROUP: ENVCAD DB: A. SCHILLING, R. BASSETT, E. KRAHMER PIC: K. WHITE PM/TM: B. AHRENS TR: N. BEYRLE LYR: ON=*;OFF=REF.;(FRZ)
C:\Users\EKrahmer\OneDrive - ARCADIS\BIM 360 Docs\BERDROLA USA\NYSEG ONEONTA 2018 O&M AND REP\2018\B0013118.0008\01-DWG\PRR_2018_Fig3-GW Cont-May 2018.dwg LAYOUT: 3 SAVED: 12/19/2018 2:53 PM ACADVER: 21.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE:
PLTFULL.CTB PLOTTED: 12/27/2018 2:06 PM BY: KRAHMER, ERIC
XREFS:
X-Base Map
Title Block



LEGEND:

- HIGH MAST LIGHT POLE
- PERMEABLE WALL LOCATION (APPROXIMATE)
- FORMER MGP EXCAVATION LIMITS (PROVIDED BY NYSEG)
- NAPL RECOVERY WELL
- STAFF GAUGE
- MONITORING WELL
- SOIL BORING
- WELL EQUIPPED WITH SUMP
- PIEZOMETER
- MONITORING WELL THAT NO LONGER EXISTS
- 1073 — WATER TABLE ELEVATION (FAMSL)
- (1075.63) GROUNDWATER ELEVATION (FAMSL)
- GROUNDWATER FLOW DIRECTION

NOTES:

1. BASE MAP PROVIDED IN ELECTRONIC FORMAT FROM NYSEG, DRAWING TITLE "MONITORING WELL LOCATIONS ONEONTA FORMER MGP SITE AND SURROUNDING AREA, OTSEGO COUNTY, NEW YORK, AT A SCALE OF 1"=60', DATED 2/18/02.
2. DAMASCHKE FIELD RENOVATIONS BASED DRAWING TITLE "AIR MONITORING LOCATIONS ONEONTA MGP" FROM NYSEG DATED 6/27/07 AND AERIAL PHOTOGRAPHS.
3. ALL ELEVATIONS ARE REFERENCED TO NGVD 1929.
4. FAMSL – FEET ABOVE MEAN SEA LEVEL.

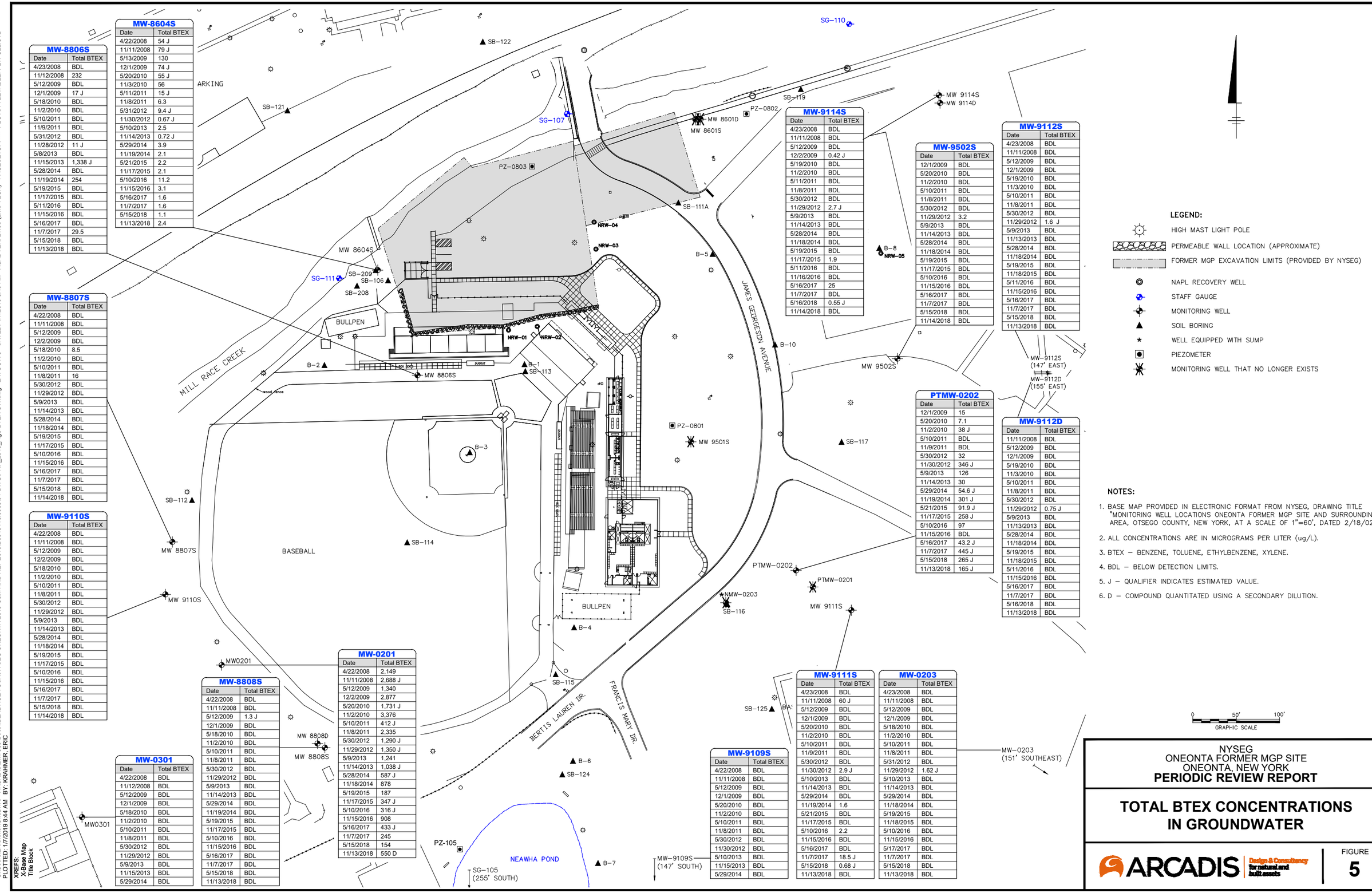
0 50' 100'
GRAPHIC SCALE

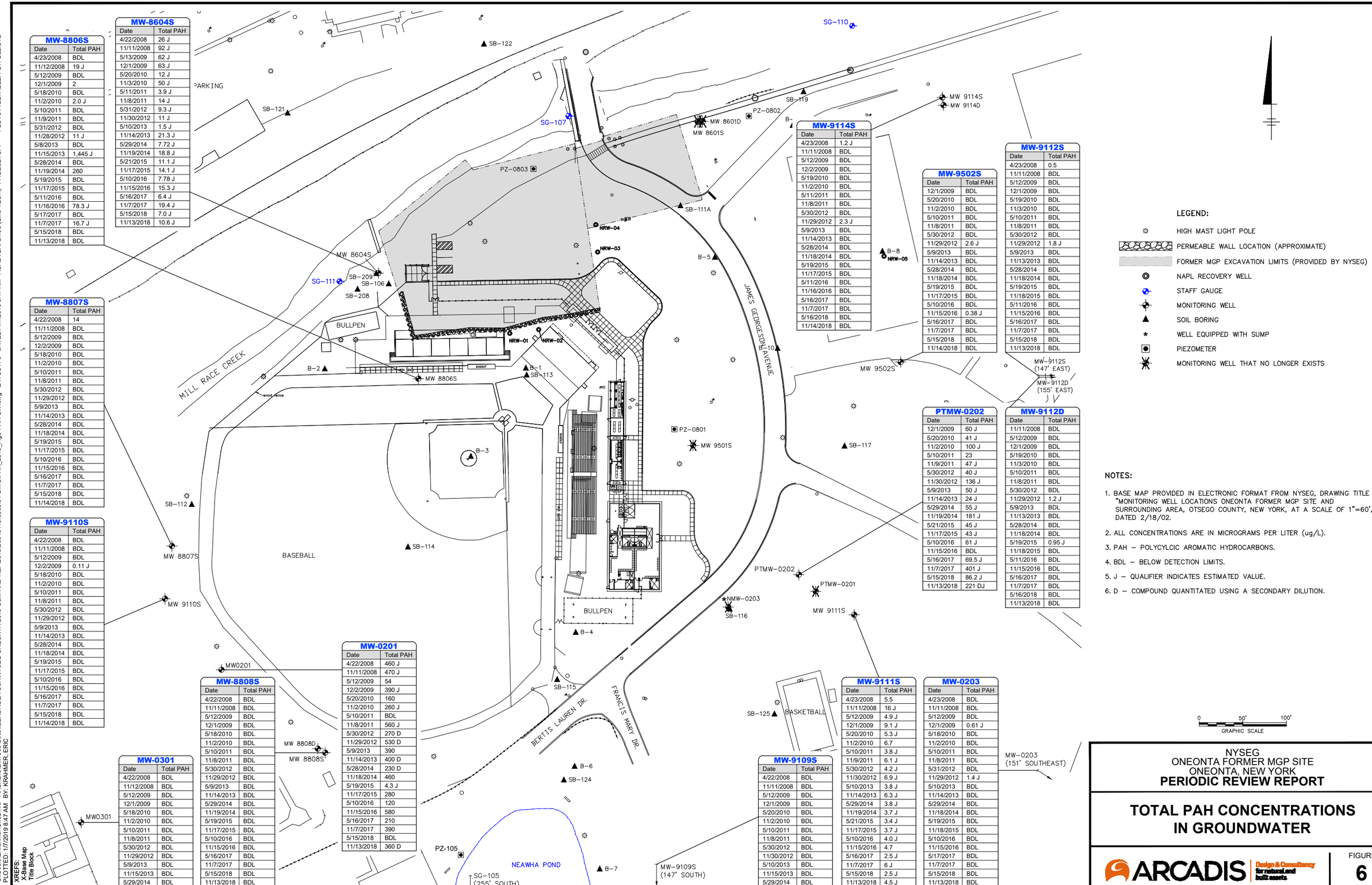
NYSEG
ONEONTA FORMER MGP SITE
ONEONTA, NEW YORK
PERIODIC REVIEW REPORT

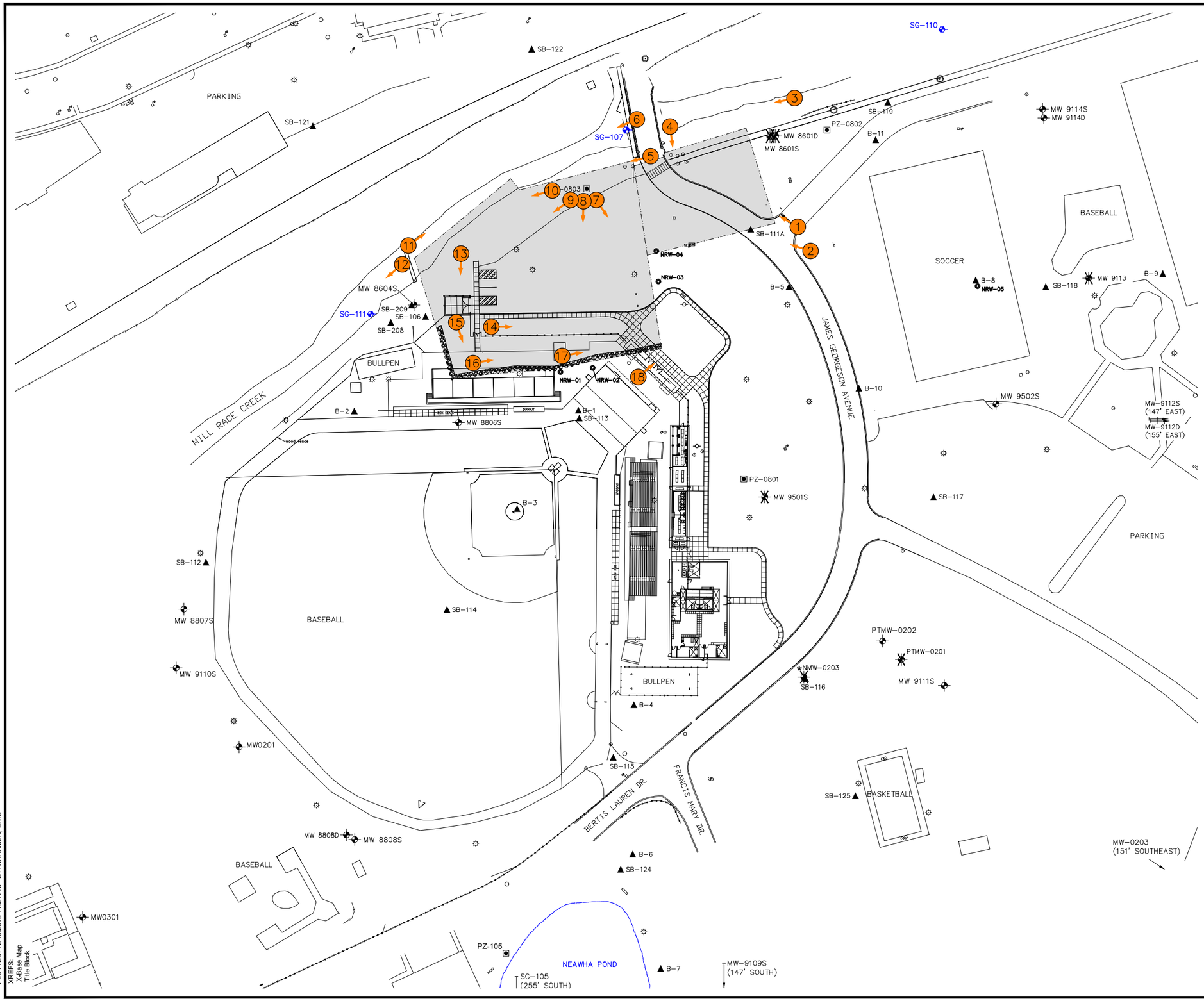
WATER TABLE FIGURE - NOVEMBER 12, 2018

ARCADIS Design & Consultancy for natural and built assets

FIGURE
4


MW-8806S
Date | Total BTEX
4/23/2008 | BDL
11/12/2008 | 232
5/12/2009 | BDL
12/1/2009 | 17 J
5/18/2010 | BDL
11/2/2010 | BDL
5/10/2011 | BDL
11/9/2011 | BDL
5/31/2012 | BDL
11/28/2012 | 11 J
5/8/2013 | BDL
11/15/2013 | 1,338 J
5/28/2014 | BDL
11/19/2014 | 254
5/19/2015 | BDL
11/17/2015 | BDL
5/11/2016 | BDL
11/15/2016 | BDL
5/16/2017 | BDL
11/7/2017 | 29.5
5/15/2018 | BDL
11/13/2018 | BDL
MW-8604S
Date | Total BTEX
4/22/2008 | 54 J
11/11/2008 | 79 J
5/13/2009 | 130
12/1/2009 | 74 J
5/20/2010 | 55 J
11/3/2010 | 56
5/11/2011 | 15 J
11/8/2011 | 6.3
5/31/2012 | 9.4 J
11/30/2012 | 0.67 J
5/10/2013 | 2.5
11/14/2013 | 0.72 J
5/29/2014 | 3.9
11/19/2014 | 2.1
5/21/2015 | 2.2
11/17/2015 | 2.1
5/10/2016 | 11.2
11/15/2016 | 3.1
5/16/2017 | 1.6
11/7/2017 | 1.6
5/15/2018 | 1.1
11/13/2018 | 2.4
MW-8807S
Date | Total BTEX
4/22/2008 | BDL
11/11/2008 | BDL
5/12/2009 | BDL
12/2/2009 | BDL
5/18/2010 | 8.5
11/2/2010 | BDL
5/10/2011 | BDL
11/8/2011 | 16
5/30/2012 | BDL
11/29/2012 | BDL
5/9/2013 | BDL
11/14/2013 | BDL
5/28/2014 | BDL
11/18/2014 | BDL
5/19/2015 | BDL
11/17/2015 | BDL
5/10/2016 | BDL
11/15/2016 | BDL
5/16/2017 | BDL
11/7/2017 | BDL
5/15/2018 | BDL
11/14/2018 | BDL
MW-9110S
Date | Total BTEX
4/22/2008 | BDL
11/11/2008 | BDL
5/12/2009 | BDL
12/2/2009 | BDL
5/18/2010 | BDL
11/2/2010 | BDL
5/10/2011 | BDL
11/8/2011 | BDL
5/30/2012 | BDL
11/29/2012 | BDL
5/9/2013 | BDL
11/14/2013 | BDL
5/28/2014 | BDL
11/18/2014 | BDL
5/19/2015 | BDL
11/17/2015 | BDL
5/10/2016 | BDL
11/15/2016 | BDL
5/16/2017 | BDL
11/7/2017 | BDL
5/15/2018 | BDL
11/14/2018 | BDL
MW-0301
Date | Total BTEX
4/22/2008 | BDL
11/12/2008 | BDL
5/12/2009 | BDL
12/1/2009 | BDL
5/18/2010 | BDL
11/2/2010 | BDL
5/10/2011 | BDL
11/8/2011 | BDL
5/30/2012 | BDL
11/29/2012 | BDL
5/9/2013 | BDL
11/15/2013 | BDL
5/29/2014 | BDL
MW-8808S
Date | Total BTEX
4/22/2008 | BDL
11/11/2008 | BDL
5/12/2009 | 1.3 J
12/1/2009 | BDL
5/18/2010 | BDL
11/2/2010 | BDL
5/10/2011 | BDL
11/8/2011 | BDL
5/30/2012 | BDL
11/29/2012 | BDL
5/9/2013 | BDL
11/14/2013 | BDL
5/29/2014 | BDL
11/19/2014 | BDL
5/19/2015 | BDL
11/17/2015 | BDL
5/10/2016 | BDL
11/15/2016 | BDL
5/16/2017 | BDL
11/7/2017 | BDL
5/15/2018 | BDL
11/13/2018 | BDL
MW-0201
Date | Total BTEX
4/22/2008 | 2,149
11/11/2008 | 2,688 J
5/12/2009 | 1,340
12/2/2009 | 2,877
5/20/2010 | 1,731 J
11/2/2010 | 3,376
5/10/2011 | 412 J
11/8/2011 | 2,335
5/30/2012 | 1,290 J
11/29/2012 | 1,350 J
5/9/2013 | 1,241
11/14/2013 | 1,038 J
5/28/2014 | 587 J
11/18/2014 | 878
5/19/2015 | 187
11/17/2015 | 347 J
5/10/2016 | 316 J
11/15/2016 | 908
5/16/2017 | 433 J
11/7/2017 | 245
5/15/2018 | 154
11/13/2018 | 550 D
MW-9114S
Date | Total BTEX
4/23/2008 | BDL
11/11/2008 | BDL
5/12/2009 | BDL
12/2/2009 | 0.42 J
5/19/2010 | BDL
11/2/2010 | BDL
5/11/2011 | BDL
11/8/2011 | BDL
5/30/2012 | BDL
11/29/2012 | 2.7 J
5/9/2013 | BDL
11/14/2013 | BDL
5/28/2014 | BDL
11/18/2014 | BDL
5/19/2015 | BDL
11/17/2015 | 1.9
5/11/2016 | BDL
11/16/2016 | BDL
5/16/2017 | 25
11/7/2017 | BDL
5/16/2018 | 0.55 J
11/14/2018 | BDL
MW-9502S
Date | Total BTEX
12/1/2009 | BDL
5/20/2010 | BDL
11/2/2010 | BDL
5/10/2011 | BDL
11/8/2011 | BDL
5/30/2012 | BDL
11/29/2012 | 3.2
5/9/2013 | BDL
11/14/2013 | BDL
5/28/2014 | BDL
11/18/2014 | BDL
5/19/2015 | BDL
11/17/2015 | BDL
5/10/2016 | BDL
11/15/2016 | BDL
5/16/2017 | BDL
11/7/2017 | BDL
5/15/2018 | BDL
11/14/2018 | BDL
MW-9112S
Date | Total BTEX
4/23/2008 | BDL
11/11/2008 | BDL
5/12/2009 | BDL
12/1/2009 | BDL
5/19/2010 | BDL
11/3/2010 | BDL
5/10/2011 | BDL
11/8/2011 | BDL
5/30/2012 | BDL
11/29/2012 | 1.6 J
5/9/2013 | BDL
11/13/2013 | BDL
5/28/2014 | BDL
11/18/2014 | BDL
5/19/2015 | BDL
11/18/2015 | BDL
5/11/2016 | BDL
11/15/2016 | BDL
5/16/2017 | BDL
11/7/2017 | BDL
5/15/2018 | BDL
11/13/2018 | BDL
PTMW-0202
Date | Total BTEX
12/1/2009 | 15
5/20/2010 | 7.1
11/2/2010 | 38 J
5/10/2011 | BDL
11/9/2011 | BDL
5/30/2012 | 32
11/30/2012 | 346 J
5/9/2013 | 126
11/14/2013 | 30
5/29/2014 | 54.6 J
11/19/2014 | 301 J
5/21/2015 | 91.9 J
11/17/2015 | 258 J
5/10/2016 | 97
11/15/2016 | BDL
5/16/2017 | 43.2 J
11/7/2017 | 445 J
5/15/2018 | 265 J
11/13/2018 | 165 J
MW-9112D
Date | Total BTEX
11/11/2008 | BDL
5/12/2009 | BDL
12/1/2009 | BDL
5/19/2010 | BDL
11/3/2010 | BDL
5/10/2011 | BDL
11/8/2011 | BDL
5/30/2012 | BDL
11/29/2012 | 0.75 J
5/9/2013 | BDL
11/13/2013 | BDL
5/28/2014 | BDL
11/18/2014 | BDL
5/19/2015 | BDL
11/18/2015 | BDL
5/11/2016 | BDL
11/15/2016 | BDL
5/16/2017 | BDL
11/7/2017 | BDL
5/16/2018 | BDL
11/13/2018 | BDL
MW-9109S
Date | Total BTEX
4/22/2008 | BDL
11/11/2008 | BDL
5/12/2009 | BDL
12/1/2009 | BDL
5/20/2010 | BDL
11/2/2010 | BDL
5/10/2011 | BDL
11/8/2011 | BDL
5/30/2012 | BDL
11/30/2012 | BDL
5/10/2013 | BDL
11/15/2013 | BDL
5/29/2014 | BDL
MW-9111S
Date | Total BTEX
4/23/2008 | BDL
11/11/2008 | 60 J
5/12/2009 | BDL
12/1/2009 | BDL
5/20/2010 | BDL
11/2/2010 | BDL
5/10/2011 | BDL
11/9/2011 | BDL
5/30/2012 | BDL
11/30/2012 | 2.9 J
5/10/2013 | BDL
11/14/2013 | BDL
5/29/2014 | BDL
11/19/2014 | 1.6
5/21/2015 | BDL
11/17/2015 | BDL
5/10/2016 | 2.2
11/15/2016 | BDL
5/16/2017 | BDL
11/7/2017 | 18.5 J
5/15/2018 | 0.68 J
11/13/2018 | BDL
MW-0203
Date | Total BTEX
4/23/2008 | BDL
11/11/2008 | BDL
5/12/2009 | BDL
12/1/2009 | BDL
5/18/2010 | BDL
11/2/2010 | BDL
5/10/2011 | BDL
11/8/2011 | BDL
5/31/2012 | BDL
11/29/2012 | 1.62 J
5/10/2013 | BDL
11/14/2013 | BDL
5/29/2014 | BDL
11/18/2014 | BDL
5/19/2015 | BDL
11/18/2015 | BDL
5/10/2016 | BDL
11/15/2016 | BDL
5/17/2017 | BDL
11/7/2017 | BDL
5/15/2018 | BDL
11/13/2018 | BDL
LEGEND:
HIGH MAST LIGHT POLE
PERMEABLE WALL LOCATION (APPROXIMATE)
FORMER MGP EXCAVATION LIMITS (PROVIDED BY NYSEG)
NAPL RECOVERY WELL
STAFF GAUGE
MONITORING WELL
SOIL BORING
WELL EQUIPPED WITH SUMP
PIEZOMETER
MONITORING WELL THAT NO LONGER EXISTS
NOTES:
1. BASE MAP PROVIDED IN ELECTRONIC FORMAT FROM NYSEG, DRAWING TITLE "MONITORING WELL LOCATIONS ONEONTA FORMER MGP SITE AND SURROUNDING AREA, OTSEGO COUNTY, NEW YORK, AT A SCALE OF 1"=60', DATED 2/18/02.
2. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (ug/L).
3. BTEX – BENZENE, TOLUENE, ETHYLBENZENE, XYLENE.
4. BDL – BELOW DETECTION LIMITS.
5. J – QUALIFIER INDICATES ESTIMATED VALUE.
6. D – COMPOUND QUANTITATED USING A SECONDARY DILUTION.
0 50' 100'
GRAPHIC SCALE
MW-9112S (147' EAST)
MW-9112D (155' EAST)
MW-0203 (151' SOUTHEAST)
MW-9109S (147' SOUTH)
SG-105 (255' SOUTH)
SB-122
SB-121
SB-119
SB-111A
SB-5
SB-10
SB-117
SB-116
SB-125
SB-115
SB-106
SB-208
SB-209
SB-2
SB-1
SB-113
SB-3
SB-112
SB-114
SB-4
SB-6
SB-124
SB-7
SG-110
SG-107
SG-111
PZ-0802
PZ-0803
PZ-0801
PZ-105
MW 8601D
MW 8601S
MW 8604S
MW 8806S
MW 8807S
MW 9110S
MW 9501S
MW 9502S
MW 9114S
MW 9114D
MW 9111S
MW0201
MW 8808D
MW 8808S
MW0301
PTMW-0202
PTMW-0201
NMW-0203
NRW-01
NRW-02
NRW-03
NRW-04
B-8
NRW-05
ARKING
BULLPEN
BASEBALL
MILL RACE CREEK
JAMES GEORGESON AVENUE
BERTIS LAUREN DR.
FRANCIS MARY DR.
NEAWHA POND
DUGOUT
wood fence
XREFS:
X-Base Map
Title Block
NYSEG
ONEONTA FORMER MGP SITE
ONEONTA, NEW YORK
PERIODIC REVIEW REPORT
TOTAL BTEX CONCENTRATIONS IN GROUNDWATER
ARCADIS Design & Consultancy for natural and built assets
FIGURE
5
CITY:SYRACUSE,NY DIV/GROUP:EnvCAD DB: A. SCHILLING, R. ALLEN, E. KRAHMER PIC: K. WHITE PM/TM: B.AHRENS TR: N. BEYRLE LYR:(On);*;OFF;*REF*
C:\Users\Ekrahmer\OneDrive - ARCADIS\BIM 360 Docs\BERDROLA USA\NYSEG ONEONTA 2018 O&M AND REP\2019\B0013118.0008\01-DWG\PRR_2018_Fig5-BTEX GW.dwg LAYOUT: 5 SAVED: 1/7/2019 8:40 AM ACADVER: 21.0S (LMS TECH) PAGESETUP:---- PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 1/7/2019 8:44 AM BY: KRAHMER, ERIC





LEGEND:

- HIGH MAST LIGHT POLE
- PERMEABLE WALL LOCATION (APPROXIMATE)
- FORMER MGP EXCAVATION LIMITS (PROVIDED BY NYSEG)
- NAPL RECOVERY WELL
- STAFF GAUGE
- MONITORING WELL
- SOIL BORING
- WELL EQUIPPED WITH SUMP
- PIEZOMETER
- MONITORING WELL THAT NO LONGER EXISTS
- PHOTOGRAPH LOCATION AND DIRECTION

NOTES:

1. BASE MAP PROVIDED IN ELECTRONIC FORMAT FROM NYSEG, DRAWING TITLE "MONITORING WELL LOCATIONS ONEONTA FORMER MGP SITE AND SURROUNDING AREA, OTSEGO COUNTY, NEW YORK, AT A SCALE OF 1"=60', DATED 2/18/02.
2. DAMASCHKE FIELD RENOVATIONS BASED DRAWING TITLE "AIR MONITORING LOCATIONS ONEONTA MGP" FROM NYSEG DATED 6/27/07 AND AERIAL PHOTOGRAPHS.

0 50' 100'
GRAPHIC SCALE

NYSEG
ONEONTA FORMER MGP SITE
ONEONTA, NEW YORK
PERIODIC REVIEW REPORT

PHOTOGRAPH ORIENTATION

ARCADIS Design & Consultancy for natural and built assets

FIGURE
7

CITY: SYRACUSE NY DIV/GROUP: EnvCAD DB: A. SCHILLING, R. BASSETT, E. KRAHMER PIC: K. WHITE PM/TM: B. AHRENS TR: N. BEYRLE LYR: ON=*;OFF=REF, (FRZ)
C:\Users\EKrahmer\OneDrive - ARCADIS\BIM 360 Docs\IBERDROLA USA\NYSEG ONEONTA 2018 O&M AND REP-2018\B0013118.0008\01-DWG\PRR_2018_Fig7-Photo Orient.dwg LAYOUT: 7 SAVED: 12/19/2018 11:24 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB
PLOTTED: 12/19/2018 11:24 AM BY: KRAHMER, ERIC
XREFS:
X-Base Map
Title Block

APPENDIX A

Absorbent Socks Photographic Log

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0007	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 1	
PHOTOGRAPHER: RDC	
DATE: 5/14/2018	
DIRECTION: NA	
COMMENT: Picture showing sorbent socks removed from AW-12. Two socks installed in series. Sock installed deeper (left) is completely saturated with DNAPL.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0007	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 2	
PHOTOGRAPHER: RDC	
DATE: 5/14/2018	
DIRECTION: NA	
COMMENT: Picture showing sorbent socks removed from AW-12. Two socks installed in series. Sock installed deeper (left) is completely saturated with DNAPL.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0007	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 4 **PHOTOGRAPHER: RDC** **DATE: 11/14/2018** **DIRECTION: NA** **COMMENT:** Picture showing sorbent socks removed from AW-12. Two socks installed in series. Sock installed deeper (right) is partially saturated with DNAPL.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0007	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 5 **PHOTOGRAPHER: RDC** **DATE: 11/14/2018** **DIRECTION: NA** **COMMENT:** Picture showing sorbent material inside sock (after it has been opened and examined).	

APPENDIX B

DUSR

ARCADIS Design & Consultancy for natural and built assets

NYSEG Oneonta Former MGP Site

DATA USABILITY SUMMARY REPORT

Oneonta, New York

Volatile and Semivolatile Analysis

SDG #480-136145-1

Analyses Performed By:
TestAmerica Laboratories
Amherst, New York

Report #29941R
Review Level: Tier III
Project: B0013118.0008.00002

SUMMARY

This data usability summary report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-136145-1 for samples collected in association with the NYSEG Oneonta Former MGP Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-8807S	480-136145-1	Water	5/15/2018		X	X			
MW-8806S	480-136145-2	Water	5/15/2018		X	X			
MW-9110S	480-136145-3	Water	5/15/2018		X	X			
DUP-051518	480-136145-4	Water	5/15/2018	MW-9110S	X	X			
MW-0201	480-136145-5	Water	5/15/2018		X	X			
MW-8604S	480-136145-6	Water	5/15/2018		X	X			
MW-8808S	480-136145-7	Water	5/15/2018		X	X			
MW-9502S	480-136145-8	Water	5/15/2018		X	X			
PTMW-0202	480-136145-9	Water	5/15/2018		X	X			
MW-9111S	480-136145-10	Water	5/15/2018		X	X			
MW-9112S	480-136145-11	Water	5/15/2018		X	X			
TRIP BLANK	480-136145-12	Water	5/15/2018		X				
MW-0203	480-136145-13	Water	5/15/2018		X	X			
MW-9112D	480-136145-14	Water	5/16/2018		X	X			
MW-9114S	480-136145-15	Water	5/16/2018		X	X			

Note:

1. Matrix spike/matrix spike duplicate was performed on sample location MW-8807S for VOCs and SVOCs.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8.Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

Note:
QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260C and 8270D. Data were reviewed in accordance with USEPA National Functional Guidelines (October 1999) and applicable Region II SOPs. USEPA NFGs and Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

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

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times/Preservation

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

Note:
s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries.

Sample locations associated with MS/MSD recoveries exhibiting an RPD greater than the control limit are presented in the following table.

Sample Locations	Compound
MW-8807S	Benzene
	Toluene
	Ethylbenzene
	m-Xylene & p-Xylene
	o-Xylene
	Xylenes, Total

The criteria used to evaluate the RPD between the MS/MSD recoveries are presented in the following table. In the case of an RPD deviation, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> UL	Non-detect	UJ
	Detect	J

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-9110S/DUP-051518	All compounds	U	U	AC

Notes:
AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

The laboratory noted that sample location PTMW-0202 (480-136145-9) was originally analyzed at a dilution to bring the concentration of target analytes within the calibration range. The dilution resulted in elevated reporting limits (RLs).

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					
LCS/LCSD Precision (RPD)					
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X	X		
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the SVOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-9110S/DUP-051518	All compounds	U	U	AC

Notes:
AC Acceptable

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR SVOCs

SVOCs: SW-846 8270	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate(LCSD) %R					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate(MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
F. Reconstructed ion chromatograms		X		X	
G. Quantitation Reports		X		X	
H. RT of sample compounds within the established RT windows		X		X	

SVOCs: SW-846 8270		Reported		Performance Acceptable		Not Required
		No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
I.	Quantitation transcriptions/calculations		X		X	
J.	Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

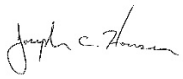
SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]					Noncompliance
					VOC	SVOC	PCB	MET	MISC	
480-136145-1	5/15/2018	USEPA/ SW846	MW-8807S	Water	No	Yes	--	--	--	VOC – MS/MSD RPD
	5/15/2018	USEPA/ SW846	MW-8806S	Water	Yes	Yes	--	--	--	
	5/15/2018	USEPA/ SW846	MW-9110S	Water	Yes	Yes	--	--	--	
	5/15/2018	USEPA/ SW846	DUP-051518	Water	Yes	Yes	--	--	--	
	5/15/2018	USEPA/ SW846	MW-0201	Water	Yes	Yes	--	--	--	
	5/15/2018	USEPA/ SW846	MW-8604S	Water	Yes	Yes	--	--	--	
	5/15/2018	USEPA/ SW846	MW-8808S	Water	Yes	Yes	--	--	--	
	5/15/2018	USEPA/ SW846	MW-9502S	Water	Yes	Yes	--	--	--	
	5/15/2018	USEPA/ SW846	PTMW-0202	Water	Yes	Yes	--	--	--	
	5/15/2018	USEPA/ SW846	MW-9111S	Water	Yes	Yes	--	--	--	
	5/15/2018	USEPA/ SW846	MW-9112S	Water	Yes	Yes	--	--	--	
	5/15/2018	USEPA/ SW846	TRIP BLANK	Water	Yes	--	--	--	--	
	5/15/2018	USEPA/ SW846	MW-0203	Water	Yes	Yes	--	--	--	
	5/16/2018	USEPA/ SW846	MW-9112D	Water	Yes	Yes	--	--	--	
	5/16/2018	USEPA/ SW846	MW-9114S	Water	Yes	Yes	--	--	--	

Note:

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

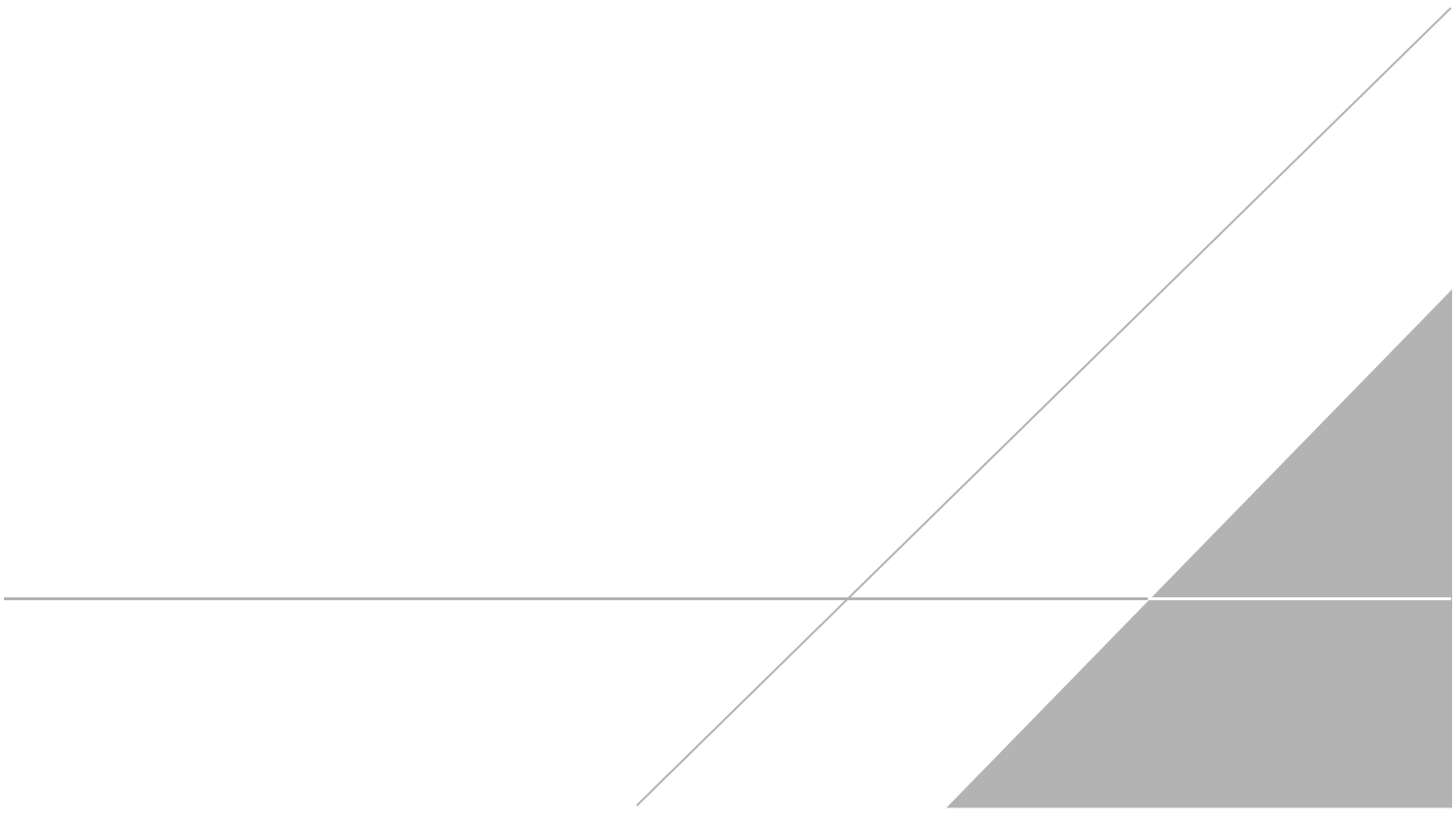
DATE: June 17, 2018

PEER REVIEW: Andrew Korycinski

DATE: June 21, 2018

CHAIN OF CUSTODY

CORRECTED SAMPLE ANALYSIS DATA SHEETS



Client: New York State Electric & Gas

Job Number: 480-136145-1

Client Sample ID: **MW-8807S**

Lab Sample ID: 480-136145-1
Client Matrix: Water

Date Sampled: 05/15/2018 0845
Date Received: 05/17/2018 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-415447	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P33147.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/21/2018 1224			Final Weight/Volume:	5 mL
Prep Date:	05/21/2018 1224				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND	~~F2~~ UJ	0.41	1.0
Toluene	ND	F2	0.51	1.0
Ethylbenzene	ND	F2	0.74	1.0
m-Xylene & p-Xylene	ND	F2	0.66	2.0
o-Xylene	ND	F2	0.76	1.0
Xylenes, Total	ND	F2	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
Toluene-d8 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	87		73 - 120
Dibromofluoromethane (Surr)	97		75 - 123

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-8806S

Lab Sample ID: 480-136145-2 Date Sampled: 05/15/2018 0920
Client Matrix: Water Date Received: 05/17/2018 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-415447	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P33148.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/21/2018 1251			Final Weight/Volume:	5 mL
Prep Date:	05/21/2018 1251				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
Toluene-d8 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	88		73 - 120
Dibromofluoromethane (Surr)	97		75 - 123

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-9110S

Lab Sample ID: 480-136145-3 Date Sampled: 05/15/2018 1210
Client Matrix: Water Date Received: 05/17/2018 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-415447	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P33149.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/21/2018 1318			Final Weight/Volume:	5 mL
Prep Date:	05/21/2018 1318				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
Toluene-d8 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	89		73 - 120
Dibromofluoromethane (Surr)	96		75 - 123

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: DUP-051518

Lab Sample ID: 480-136145-4 Date Sampled: 05/15/2018 0000
Client Matrix: Water Date Received: 05/17/2018 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-415447	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P33150.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/21/2018 1346			Final Weight/Volume:	5 mL
Prep Date:	05/21/2018 1346				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	90		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-0201

Lab Sample ID: 480-136145-5 Date Sampled: 05/15/2018 1335
Client Matrix: Water Date Received: 05/17/2018 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-415447	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P33151.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/21/2018 1413			Final Weight/Volume:	5 mL
Prep Date:	05/21/2018 1413				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	94		0.41	1.0
Toluene	1.7		0.51	1.0
Ethylbenzene	24		0.74	1.0
m-Xylene & p-Xylene	3.0		0.66	2.0
o-Xylene	31		0.76	1.0
Xylenes, Total	34		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
Toluene-d8 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	93		75 - 123

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-8604S

Lab Sample ID: 480-136145-6 Date Sampled: 05/15/2018 1305
Client Matrix: Water Date Received: 05/17/2018 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-415447	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P33152.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/21/2018 1441			Final Weight/Volume:	5 mL
Prep Date:	05/21/2018 1441				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	1.1		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		77 - 120
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	91		73 - 120
Dibromofluoromethane (Surr)	94		75 - 123

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-8808S

Lab Sample ID: 480-136145-7 Date Sampled: 05/15/2018 1435
Client Matrix: Water Date Received: 05/17/2018 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-415447	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P33153.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/21/2018 1508			Final Weight/Volume:	5 mL
Prep Date:	05/21/2018 1508				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	89		73 - 120
Dibromofluoromethane (Surr)	96		75 - 123

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-9502S

Lab Sample ID: 480-136145-8 Date Sampled: 05/15/2018 1445
Client Matrix: Water Date Received: 05/17/2018 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-415447	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P33154.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/21/2018 1536			Final Weight/Volume:	5 mL
Prep Date:	05/21/2018 1536				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	88		73 - 120
Dibromofluoromethane (Surr)	98		75 - 123

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: PTMW-0202

Lab Sample ID: 480-136145-9 Date Sampled: 05/15/2018 1520
Client Matrix: Water Date Received: 05/17/2018 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-415625	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P33185.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/22/2018 0651			Final Weight/Volume:	5 mL
Prep Date:	05/22/2018 0651				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	260		1.6	4.0
Toluene	ND		2.0	4.0
Ethylbenzene	ND		3.0	4.0
m-Xylene & p-Xylene	ND		2.6	8.0
o-Xylene	4.9		3.0	4.0
Xylenes, Total	4.9	J	2.6	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
Toluene-d8 (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	87		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-9111S

Lab Sample ID: 480-136145-10 Date Sampled: 05/15/2018 1625
Client Matrix: Water Date Received: 05/17/2018 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-415447	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P33156.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/21/2018 1631			Final Weight/Volume:	5 mL
Prep Date:	05/21/2018 1631				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	0.68	J	0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		77 - 120
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	91		73 - 120
Dibromofluoromethane (Surr)	93		75 - 123

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-9112S

Lab Sample ID: 480-136145-11 Date Sampled: 05/15/2018 1645
Client Matrix: Water Date Received: 05/17/2018 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-415447	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P33157.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/21/2018 1658			Final Weight/Volume:	5 mL
Prep Date:	05/21/2018 1658				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-136145-12 Date Sampled: 05/15/2018 0000
Client Matrix: Water Date Received: 05/17/2018 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-415447	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P33158.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/21/2018 1726			Final Weight/Volume:	5 mL
Prep Date:	05/21/2018 1726				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	91		73 - 120
Dibromofluoromethane (Surr)	98		75 - 123

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-0203

Lab Sample ID: 480-136145-13 Date Sampled: 05/15/2018 1720
Client Matrix: Water Date Received: 05/17/2018 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-415447	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P33159.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/21/2018 1753			Final Weight/Volume:	5 mL
Prep Date:	05/21/2018 1753				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	97		75 - 123

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-9112D

Lab Sample ID: 480-136145-14 Date Sampled: 05/16/2018 0835
Client Matrix: Water Date Received: 05/17/2018 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-415447	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P33160.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/21/2018 1820			Final Weight/Volume:	5 mL
Prep Date:	05/21/2018 1820				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
Toluene-d8 (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	89		73 - 120
Dibromofluoromethane (Surr)	96		75 - 123

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-9114S

Lab Sample ID: 480-136145-15 Date Sampled: 05/16/2018 0845
Client Matrix: Water Date Received: 05/17/2018 1700

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-415447	Instrument ID:	HP5973P
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	P33161.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/21/2018 1847			Final Weight/Volume:	5 mL
Prep Date:	05/21/2018 1847				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	0.55	J	0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
Toluene-d8 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	87		73 - 120
Dibromofluoromethane (Surr)	98		75 - 123

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-8807S

Lab Sample ID: 480-136145-1 Date Sampled: 05/15/2018 0845
Client Matrix: Water Date Received: 05/17/2018 1700

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-415983	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-415454	Lab File ID:	W4084.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/24/2018 0735			Final Weight/Volume:	1 mL
Prep Date:	05/21/2018 0749			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	93		46 - 120
2-Fluorobiphenyl	98		48 - 120
p-Terphenyl-d14	104		59 - 136

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-8806S

Lab Sample ID: 480-136145-2 Date Sampled: 05/15/2018 0920
Client Matrix: Water Date Received: 05/17/2018 1700

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-415983	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-415454	Lab File ID:	W4085.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/24/2018 0804			Final Weight/Volume:	1 mL
Prep Date:	05/21/2018 0749			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	88		46 - 120
2-Fluorobiphenyl	96		48 - 120
p-Terphenyl-d14	110		59 - 136

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-9110S

Lab Sample ID: 480-136145-3 Date Sampled: 05/15/2018 1210
Client Matrix: Water Date Received: 05/17/2018 1700

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-415983	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-415454	Lab File ID:	W4086.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/24/2018 0832			Final Weight/Volume:	1 mL
Prep Date:	05/21/2018 0749			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	91		46 - 120
2-Fluorobiphenyl	95		48 - 120
p-Terphenyl-d14	107		59 - 136

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: DUP-051518

Lab Sample ID: 480-136145-4 Date Sampled: 05/15/2018 0000
Client Matrix: Water Date Received: 05/17/2018 1700

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-415983	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-415454	Lab File ID:	W4087.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/24/2018 0901			Final Weight/Volume:	1 mL
Prep Date:	05/21/2018 0749			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	97		46 - 120
2-Fluorobiphenyl	102		48 - 120
p-Terphenyl-d14	109		59 - 136

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-0201

Lab Sample ID: 480-136145-5 Date Sampled: 05/15/2018 1335
Client Matrix: Water Date Received: 05/17/2018 1700

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-415983	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-415454	Lab File ID:	W4088.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/24/2018 0929			Final Weight/Volume:	1 mL
Prep Date:	05/21/2018 0749			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	86		46 - 120
2-Fluorobiphenyl	92		48 - 120
p-Terphenyl-d14	100		59 - 136

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-8604S

Lab Sample ID: 480-136145-6 Date Sampled: 05/15/2018 1305
Client Matrix: Water Date Received: 05/17/2018 1700

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-415983	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-415454	Lab File ID:	W4089.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/24/2018 0957			Final Weight/Volume:	1 mL
Prep Date:	05/21/2018 0749			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	5.5		0.41	5.0
Acenaphthylene	0.50	J	0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	0.97	J	0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	97		46 - 120
2-Fluorobiphenyl	100		48 - 120
p-Terphenyl-d14	107		59 - 136

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-8808S

Lab Sample ID: 480-136145-7 Date Sampled: 05/15/2018 1435
Client Matrix: Water Date Received: 05/17/2018 1700

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-415983	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-415454	Lab File ID:	W4090.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/24/2018 1026			Final Weight/Volume:	1 mL
Prep Date:	05/21/2018 0749			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	97		46 - 120
2-Fluorobiphenyl	102		48 - 120
p-Terphenyl-d14	110		59 - 136

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-9502S

Lab Sample ID: 480-136145-8 Date Sampled: 05/15/2018 1445
Client Matrix: Water Date Received: 05/17/2018 1700

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-415983	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-415454	Lab File ID:	W4091.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/24/2018 1055			Final Weight/Volume:	1 mL
Prep Date:	05/21/2018 0749			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	98		46 - 120
2-Fluorobiphenyl	101		48 - 120
p-Terphenyl-d14	95		59 - 136

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: PTMW-0202

Lab Sample ID: 480-136145-9 Date Sampled: 05/15/2018 1520
Client Matrix: Water Date Received: 05/17/2018 1700

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-415983	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-415454	Lab File ID:	W4092.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/24/2018 1124			Final Weight/Volume:	1 mL
Prep Date:	05/21/2018 0749			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	63		0.41	5.0
Acenaphthylene	0.62	J	0.38	5.0
Anthracene	0.64	J	0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	0.55	J	0.40	5.0
Fluorene	11		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	7.8		0.76	5.0
Phenanthrene	2.1	J	0.44	5.0
Pyrene	0.51	J	0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	94		46 - 120
2-Fluorobiphenyl	100		48 - 120
p-Terphenyl-d14	100		59 - 136

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-9111S

Lab Sample ID: 480-136145-10 Date Sampled: 05/15/2018 1625
Client Matrix: Water Date Received: 05/17/2018 1700

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-415983	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-415454	Lab File ID:	W4093.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/24/2018 1153			Final Weight/Volume:	1 mL
Prep Date:	05/21/2018 0749			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	2.5	J	0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	95		46 - 120
2-Fluorobiphenyl	99		48 - 120
p-Terphenyl-d14	106		59 - 136

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-9112S

Lab Sample ID: 480-136145-11 Date Sampled: 05/15/2018 1645
Client Matrix: Water Date Received: 05/17/2018 1700

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-415983	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-415454	Lab File ID:	W4094.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/24/2018 1221			Final Weight/Volume:	1 mL
Prep Date:	05/21/2018 0749			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	97		46 - 120
2-Fluorobiphenyl	103		48 - 120
p-Terphenyl-d14	105		59 - 136

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-0203

Lab Sample ID: 480-136145-13 Date Sampled: 05/15/2018 1720
Client Matrix: Water Date Received: 05/17/2018 1700

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-415983	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-415454	Lab File ID:	W4095.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/24/2018 1250			Final Weight/Volume:	1 mL
Prep Date:	05/21/2018 0749			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	105		46 - 120
2-Fluorobiphenyl	113		48 - 120
p-Terphenyl-d14	126		59 - 136

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-9112D

Lab Sample ID: 480-136145-14 Date Sampled: 05/16/2018 0835
Client Matrix: Water Date Received: 05/17/2018 1700

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-415983	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-415454	Lab File ID:	W4096.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/24/2018 1318			Final Weight/Volume:	1 mL
Prep Date:	05/21/2018 0749			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	96		46 - 120
2-Fluorobiphenyl	101		48 - 120
p-Terphenyl-d14	98		59 - 136

Client: New York State Electric & Gas Job Number: 480-136145-1

Client Sample ID: MW-9114S

Lab Sample ID: 480-136145-15 Date Sampled: 05/16/2018 0845
Client Matrix: Water Date Received: 05/17/2018 1700

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-415983	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-415454	Lab File ID:	W4097.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	05/24/2018 1348			Final Weight/Volume:	1 mL
Prep Date:	05/21/2018 0749			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	96		46 - 120
2-Fluorobiphenyl	99		48 - 120
p-Terphenyl-d14	102		59 - 136

TestAmerica Amherst
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record

252765

4/125

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

480-136145 COC

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other: Beyrle

Client Contact	Project Manager:	Site Contact: Nicholas	Date:	COC No:
Company Name: Arcadis (Nicholas Beyrle)	Tel/Fax:	Lab Contact:	Carrier:	1 of 2 COCs
Address: 295 Woodcliff drive #2 3rd fl	Analysis Turnaround Time			Sampler:
City/State/Zip: Fairport/NY/14450	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 585-752-8882	TAT if different from Below ____			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day Standard			Lab Sampling:
Project Name: NYSEG - Oneonta				Job / SDG No.:
Site:				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	8270D - PAH Semivol	8260C - BTEX - 8260D	Sample Specific Notes:
MW-8807S	5/15/18	0845	G	water	15		Y	x	x	MS/MSD
MW-8806S		0920			5					
MW-9110S		1210			5					
DUP-051518		—			5					
MW-0201		1335			5					
MW-8604S		1305			5					
MW-8808S		1435			5					
MW-9502S		1445			5					
PTMW-0202		1520			5					
MW-9111S		1625			5					
MW-9112S	5/15/18	1645	G		5			x	x	
TRIP BLANK	—	—	—	water	1				X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

x Per Contract

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 2.1, 3.2, 4.3 | Corr'd: ____ | Therm ID No.: #4

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Arcadis	5/16/18 1100		WCS	5.17.18 @ 1430
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	WCS	5.17.18 1700		TAS	5/17/18 1706
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

2.1, 3.2, 4.3

05/30/2018

TestAmerica Amherst
10 Hazelwood Drive
Amherst, NY 14228
Phone: 716.691.2600 Fax: 716.691.7991

Chain of Custody Record

252763

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact: Nicholas Beyer	Date:	COC No:
Company Name: Arcadis	Tel/Fax:	Lab Contact:	Carrier:	2 of 2 COCs
Address: 295 Woodcliff drive #2 Floor 3 Suite 300	Analysis Turnaround Time			Sampler:
City/State/Zip: Fairport, NY / 14450	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 585-752-8852	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks STANDARD			Lab Sampling:
Project Name: NYSEG-Onondaga	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	8270D - PAH Semivolatile	8260C - BTEX - 8260	Sample Specific Notes:
MW-0203	5/15/18	1720	G	water	5			X	X	
MW-9112D	5/16/18	0835	G	water	5			X	X	
MW-9114S	5/16/18	0845	G	water	5			X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
* Per contract
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 2.1, 3.2, 4.3 Corr'd: _____ | Therm ID No.: #6

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Arcadis	5/16/18 1100		WCS	5.17.18 1430
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	WCS	5-17-18 1700		TDS	5/17/18 1700
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

2.1, 3.2, 4.3

05/30/2018

ARCADIS Design & Consultancy for natural and built assets

NYSEG Oneonta Former MGP Site

DATA USABILITY SUMMARY REPORT

Oneonta, New York

Volatile and Semivolatile Analysis

SDG #480-145319-1

Analyses Performed By:
TestAmerica Laboratories
Amherst, New York

Report #31388R
Review Level: Tier III
Project: B0013118.0008.00002

SUMMARY

This data usability summary report (DUSR) summarizes the review of Sample Delivery Group (SDG) # 480-145319-1 for samples collected in association with the NYSEG Oneonta Former MGP Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
MW-8604S	480-145319-1	Water	11/13/2018		X	X			
MW-9114S	480-145319-2	Water	11/14/2018		X	X			
MW-8806S	480-145319-3	Water	11/13/2018		X	X			
MW-9110S	480-145319-4	Water	11/14/2018		X	X			
MW-0201	480-145319-5	Water	11/13/2018		X	X			
MW-8807S	480-145319-6	Water	11/14/2018		X	X			
MW-9111S	480-145319-7	Water	11/13/2018		X	X			
MW-0203	480-145319-8	Water	11/13/2018		X	X			
MW-8808S	480-145319-9	Water	11/13/2018		X	X			
MW-9112S	480-145319-10	Water	11/13/2018		X	X			
MW-9112D	480-145319-11	Water	11/13/2018		X	X			
MW-9502S	480-145319-12	Water	11/14/2018		X				
PTMW-0202	480-145319-13	Water	11/13/2018		X	X			
DUP-111318	480-145319-14	Water	11/13/2018	PTMW-0202	X	X			
TRIP BLANK	480-145319-15	Water	11/14/2018		X	X			

Note:

1. Matrix spike/matrix spike duplicate was performed on sample location MW-8604S for VOCs and SVOCs.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of QA or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

Note:
QA - Quality Assurance

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260C and 8270D. Data were reviewed in accordance with USEPA National Functional Guidelines (October 1999) and applicable Region II SOPs. USEPA NFGs and Region II SOPs were followed for qualification purposes.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

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

  B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers

  E The compound was quantitated above the calibration range.

  D Concentration is based on a diluted sample analysis.

- Validation Qualifiers

  J The compound was positively identified; however, the associated numerical value is an estimated concentration only.

  UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.

  JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.

  UB Compound considered non-detect at the listed value due to associated blank contamination.

  N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.

  R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times/Preservation

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis (preserved) 7 days from collection to analysis (non-preserved)	Cool to <6 °C; preserved to a pH of less than 2 s.u.
	Soil	48 hours from collection to extraction and 14 days from extraction to analysis	Cool to <6 °C.

Note:
s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
PTMW-0202/DUP-111318	Benzene	160	160	0.0%
	o-Xylene	5.3	5.5	AC
	Xylenes, Total	5.3 J	5.5 J	AC

Notes:
AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
MW-0201	Benzene	250 E	290 D	290 D
	Ethylbenzene	140 E	140 D	140 D
	o-Xylene	100 E	99 D	99 D
	Xylenes, Total	120 E	120 D	120 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

The laboratory noted that sample locations PTMW-0202 (480-145319-13) and DUP-111318 (480-145319-14) were analyzed at a dilution to bring the concentration of target analytes within the calibration range. The dilution resulted in elevated reporting limits (RLs).

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					
C. Trip blanks		X		X	
Laboratory Control Sample (LCS)		X		X	
Laboratory Control Sample Duplicate(LCSD)					
LCS/LCSD Precision (RPD)					
Matrix Spike (MS)		X		X	
Matrix Spike Duplicate(MSD)		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C
	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to <6 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore, detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the SVOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
PTMW-0202/DUP-111318	Acenaphthene	88	60	AC
	Anthracene	1.7 J	1.7 J	
	Fluoranthene	1.6 J	1.4 J	
	Fluorene	21	17	
	Naphthalene	99	85	
	Phenanthrene	7.8	7.2	
	Pyrene	1.5 J	1.5 J	

Notes:
AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
MW-0201	Naphthalene	88 E	360 D	360 D
PTMW-0202	Acenaphthene	72 E	88 D	88 D
	Naphthalene	58 E	99 D	99 D
DUP-111318	Naphthalene	50 E	85 D	85 D

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR SVOCs

SVOCs: SW-846 8270	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X		X	
B. Equipment blanks					X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate(LCSD) %R					X
LCS/LCSD Precision (RPD)					X
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate(MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Field/Lab Duplicate (RPD)		X		X	
Surrogate Spike Recoveries		X		X	
Dilution Factor		X		X	
Moisture Content	X				X
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Internal standard		X		X	
Compound identification and quantitation					
F. Reconstructed ion chromatograms		X		X	
G. Quantitation Reports		X		X	
H. RT of sample compounds within the established RT windows		X		X	

SVOCs: SW-846 8270		Reported		Performance Acceptable		Not Required
		No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
I.	Quantitation transcriptions/calculations		X		X	
J.	Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

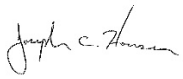
SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliancy[1]					Noncompliance
					VOC	SVOC	PCB	MET	MISC	
480-145319-1	11/13/2018	USEPA/ SW846	MW-8604S	Water	Yes	Yes	--	--	--	
	11/14/2018	USEPA/ SW846	MW-9114S	Water	Yes	Yes	--	--	--	
	11/13/2018	USEPA/ SW846	MW-8806S	Water	Yes	Yes	--	--	--	
	11/14/2018	USEPA/ SW846	MW-9110S	Water	Yes	Yes	--	--	--	
	11/13/2018	USEPA/ SW846	MW-0201	Water	Yes	Yes	--	--	--	
	11/14/2018	USEPA/ SW846	MW-8807S	Water	Yes	Yes	--	--	--	
	11/13/2018	USEPA/ SW846	MW-9111S	Water	Yes	Yes	--	--	--	
	11/13/2018	USEPA/ SW846	MW-0203	Water	Yes	Yes	--	--	--	
	11/13/2018	USEPA/ SW846	MW-8808S	Water	Yes	Yes	--	--	--	
	11/13/2018	USEPA/ SW846	MW-9112S	Water	Yes	Yes	--	--	--	
	11/13/2018	USEPA/ SW846	MW-9112D	Water	Yes	Yes	--	--	--	
	11/14/2018	USEPA/ SW846	MW-9502S	Water	Yes	--	--	--	--	
	11/13/2018	USEPA/ SW846	PTMW-0202	Water	Yes	Yes	--	--	--	
	11/13/2018	USEPA/ SW846	DUP-111318	Water	Yes	Yes	--	--	--	
	11/14/2018	USEPA/ SW846	TRIP BLANK	Water	Yes	Yes	--	--	--	

Note:

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE: 

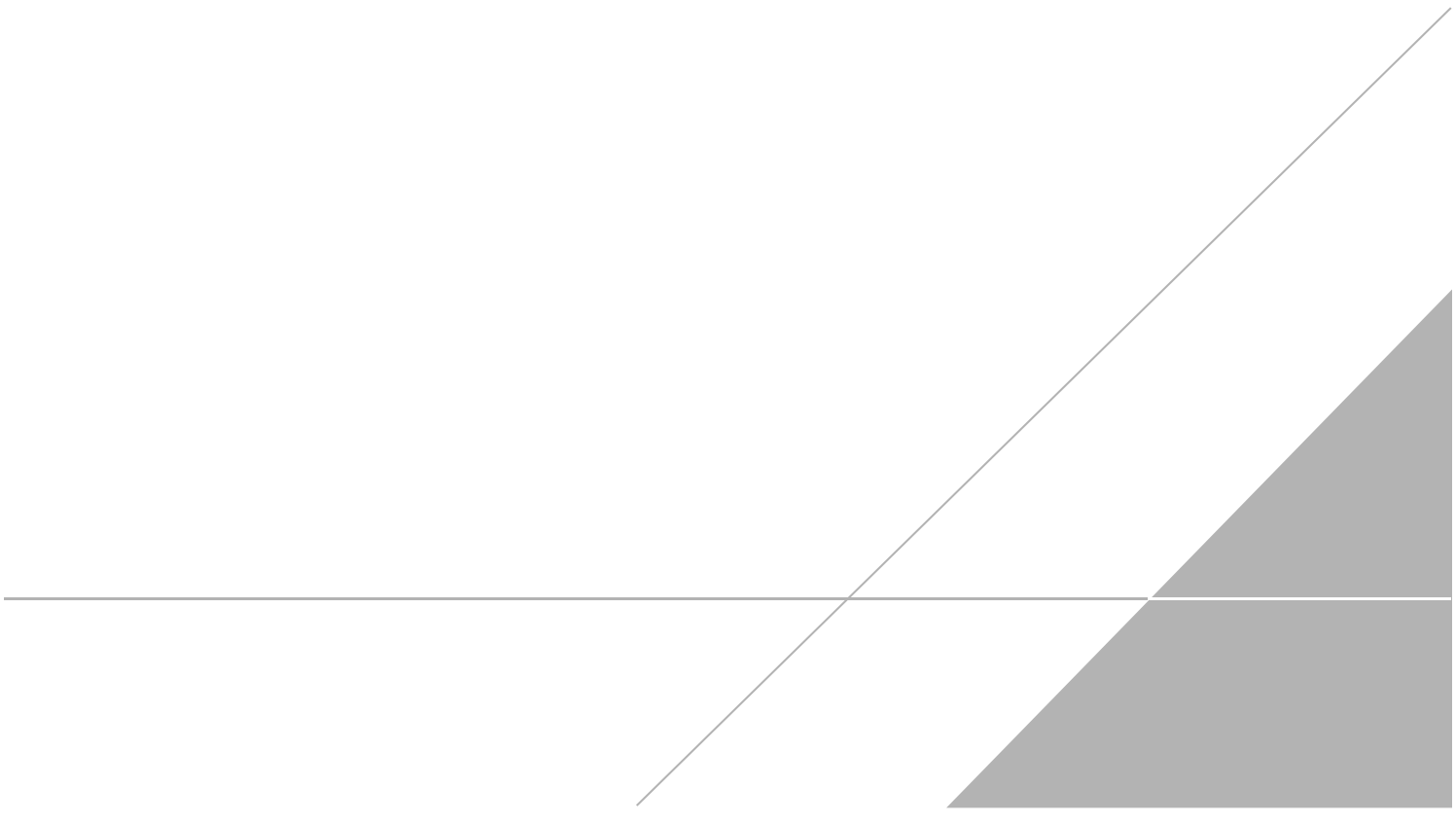
DATE: December 31, 2018

PEER REVIEW: Dennis Capria

DATE: January 2, 2019

CHAIN OF CUSTODY

CORRECTED SAMPLE ANALYSIS DATA SHEETS



Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-8604S

Lab Sample ID: 480-145319-1 Date Sampled: 11/13/2018 0950
Client Matrix: Water Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446341	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2027.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/19/2018 1523			Final Weight/Volume:	5 mL
Prep Date:	11/19/2018 1523				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	2.4		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	112		73 - 120
Dibromofluoromethane (Surr)	106		75 - 123

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-9114S

Lab Sample ID: 480-145319-2 Date Sampled: 11/14/2018 1035
Client Matrix: Water Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446498	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2046.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2018 0007			Final Weight/Volume:	5 mL
Prep Date:	11/20/2018 0007				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-8806S

Lab Sample ID: 480-145319-3 Date Sampled: 11/13/2018 1215
Client Matrix: Water Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446341	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2028.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/19/2018 1549			Final Weight/Volume:	5 mL
Prep Date:	11/19/2018 1549				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		77 - 120
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	109		73 - 120
Dibromofluoromethane (Surr)	109		75 - 123

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: **MW-9110S**

Lab Sample ID: 480-145319-4 Date Sampled: 11/14/2018 0845
Client Matrix: Water Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446498	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2047.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2018 0033			Final Weight/Volume:	5 mL
Prep Date:	11/20/2018 0033				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	109		73 - 120
Dibromofluoromethane (Surr)	105		75 - 123

Client: New York State Electric & Gas | Job Number: 480-145319-1

Client Sample ID: **MW-0201**

Lab Sample ID: 480-145319-5 | Date Sampled: 11/13/2018 1535
Client Matrix: Water | Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446341	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2029.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/19/2018 1616			Final Weight/Volume:	5 mL
Prep Date:	11/19/2018 1616				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	~~250~~ 290	~~E~~ D	0.41	1.0
Toluene	5.0		0.51	1.0
Ethylbenzene	140	~~E~~ D	0.74	1.0
m-Xylene & p-Xylene	21		0.66	2.0
o-Xylene	~~100~~ 99	~~E~~ D	0.76	1.0
Xylenes, Total	120	~~E~~ D	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	105		75 - 123

Client: New York State Electric & Gas

Job Number: 480-145319-1

Client Sample ID: **MW-0201**

Lab Sample ID: 480-145319-5
Client Matrix: Water

Date Sampled: 11/13/2018 1535
Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446498	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2048.D
Dilution:	10			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2018 0100	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	11/20/2018 0100				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	290		4.1	10
Toluene	ND		5.1	10
Ethylbenzene	140		7.4	10
m-Xylene & p-Xylene	20		6.6	20
o-Xylene	99		7.6	10
Xylenes, Total	120		6.6	20

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		77 - 120
Toluene-d8 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	106		75 - 123

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-8807S

Lab Sample ID: 480-145319-6 Date Sampled: 11/14/2018 0905
Client Matrix: Water Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446498	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2049.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2018 0126			Final Weight/Volume:	5 mL
Prep Date:	11/20/2018 0126				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-9111S

Lab Sample ID: 480-145319-7 Date Sampled: 11/13/2018 1120
Client Matrix: Water Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446341	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2030.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/19/2018 1642			Final Weight/Volume:	5 mL
Prep Date:	11/19/2018 1642				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	112		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-0203

Lab Sample ID: 480-145319-8 Date Sampled: 11/13/2018 0906
Client Matrix: Water Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446341	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2031.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/19/2018 1709			Final Weight/Volume:	5 mL
Prep Date:	11/19/2018 1709				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	109		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-8808S

Lab Sample ID: 480-145319-9 Date Sampled: 11/13/2018 1420
Client Matrix: Water Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446341	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2032.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/19/2018 1736			Final Weight/Volume:	5 mL
Prep Date:	11/19/2018 1736				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	114		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-9112S

Lab Sample ID: 480-145319-10 Date Sampled: 11/13/2018 1643
Client Matrix: Water Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446341	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2033.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/19/2018 1803			Final Weight/Volume:	5 mL
Prep Date:	11/19/2018 1803				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
Toluene-d8 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	115		75 - 123

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-9112D

Lab Sample ID: 480-145319-11 Date Sampled: 11/13/2018 1543
Client Matrix: Water Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446341	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2034.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/19/2018 1830			Final Weight/Volume:	5 mL
Prep Date:	11/19/2018 1830				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		77 - 120
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	110		73 - 120
Dibromofluoromethane (Surr)	111		75 - 123

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-9502S

Lab Sample ID: 480-145319-12 Date Sampled: 11/14/2018 0857
Client Matrix: Water Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446498	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2050.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2018 0153			Final Weight/Volume:	5 mL
Prep Date:	11/20/2018 0153				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		77 - 120
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	116		75 - 123

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: PTMW-0202

Lab Sample ID: 480-145319-13 Date Sampled: 11/13/2018 1310
Client Matrix: Water Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446341	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2035.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/19/2018 1857			Final Weight/Volume:	5 mL
Prep Date:	11/19/2018 1857				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	160		1.6	4.0
Toluene	ND		2.0	4.0
Ethylbenzene	ND		3.0	4.0
m-Xylene & p-Xylene	ND		2.6	8.0
o-Xylene	5.3		3.0	4.0
Xylenes, Total	5.3	J	2.6	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	109		73 - 120
Dibromofluoromethane (Surr)	107		75 - 123

Client: New York State Electric & Gas | Job Number: 480-145319-1

Client Sample ID: **DUP-111318**

Lab Sample ID: 480-145319-14 | Date Sampled: 11/13/2018 0000
Client Matrix: Water | Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446341	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2036.D
Dilution:	4.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/19/2018 1923			Final Weight/Volume:	5 mL
Prep Date:	11/19/2018 1923				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	160		1.6	4.0
Toluene	ND		2.0	4.0
Ethylbenzene	ND		3.0	4.0
m-Xylene & p-Xylene	ND		2.6	8.0
o-Xylene	5.5		3.0	4.0
Xylenes, Total	5.5	J	2.6	8.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		77 - 120
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	106		75 - 123

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 480-145319-15 Date Sampled: 11/14/2018 0000
Client Matrix: Water Date Received: 11/15/2018 1000

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	480-446498	Instrument ID:	HP5973C
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	C2051.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/20/2018 0220			Final Weight/Volume:	5 mL
Prep Date:	11/20/2018 0220				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzene	ND		0.41	1.0
Toluene	ND		0.51	1.0
Ethylbenzene	ND		0.74	1.0
m-Xylene & p-Xylene	ND		0.66	2.0
o-Xylene	ND		0.76	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
Toluene-d8 (Surr)	92		80 - 120
4-Bromofluorobenzene (Surr)	107		73 - 120
Dibromofluoromethane (Surr)	107		75 - 123

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-8604S

Lab Sample ID: 480-145319-1 Date Sampled: 11/13/2018 0950
Client Matrix: Water Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447666	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7349.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/27/2018 1916			Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	7.6		0.41	5.0
Acenaphthylene	1.1	J	0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	0.52	J	0.40	5.0
Fluorene	0.92	J	0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	0.46	J	0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	84		46 - 120
2-Fluorobiphenyl	82		48 - 120
p-Terphenyl-d14	77		59 - 136

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-9114S

Lab Sample ID: 480-145319-2 Date Sampled: 11/14/2018 1035
Client Matrix: Water Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447666	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7350.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/27/2018 1946			Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	89		46 - 120
2-Fluorobiphenyl	87		48 - 120
p-Terphenyl-d14	77		59 - 136

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-8806S

Lab Sample ID: 480-145319-3 Date Sampled: 11/13/2018 1215
Client Matrix: Water Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447666	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7351.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/27/2018 2016			Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		46 - 120
2-Fluorobiphenyl	77		48 - 120
p-Terphenyl-d14	76		59 - 136

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-9110S

Lab Sample ID: 480-145319-4 Date Sampled: 11/14/2018 0845
Client Matrix: Water Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447666	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7352.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/27/2018 2045			Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		46 - 120
2-Fluorobiphenyl	78		48 - 120
p-Terphenyl-d14	79		59 - 136

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-0201

Lab Sample ID: 480-145319-5 Date Sampled: 11/13/2018 1535
Client Matrix: Water Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447666	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7353.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/27/2018 2114			Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	360 ~~88~~	D ~~E~~	0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	74		46 - 120
2-Fluorobiphenyl	79		48 - 120
p-Terphenyl-d14	72		59 - 136

Client: New York State Electric & Gas | Job Number: 480-145319-1

Client Sample ID: **MW-0201**

Lab Sample ID: 480-145319-5 | Date Sampled: 11/13/2018 1535
Client Matrix: Water | Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447880	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7373.D
Dilution:	10			Initial Weight/Volume:	250 mL
Analysis Date:	11/28/2018 1821	Run Type:	DL	Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		4.1	50
Acenaphthylene	ND		3.8	50
Anthracene	ND		2.8	50
Benzo(a)anthracene	ND		3.6	50
Benzo(a)pyrene	ND		4.7	50
Benzo(b)fluoranthene	ND		3.4	50
Benzo(g,h,i)perylene	ND		3.5	50
Benzo(k)fluoranthene	ND		7.3	50
Chrysene	ND		3.3	50
Dibenz(a,h)anthracene	ND		4.2	50
Fluoranthene	ND		4.0	50
Fluorene	ND		3.6	50
Indeno(1,2,3-c,d)pyrene	ND		4.7	50
Naphthalene	360		7.6	50
Phenanthrene	ND		4.4	50
Pyrene	ND		3.4	50

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	69		46 - 120
2-Fluorobiphenyl	80		48 - 120
p-Terphenyl-d14	70		59 - 136

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-8807S

Lab Sample ID: 480-145319-6 Date Sampled: 11/14/2018 0905
Client Matrix: Water Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447666	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7354.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/27/2018 2143			Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	79		46 - 120
2-Fluorobiphenyl	78		48 - 120
p-Terphenyl-d14	74		59 - 136

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-9111S

Lab Sample ID: 480-145319-7 Date Sampled: 11/13/2018 1120
Client Matrix: Water Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447666	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7355.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/27/2018 2213			Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	4.5	J	0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		46 - 120
2-Fluorobiphenyl	79		48 - 120
p-Terphenyl-d14	66		59 - 136

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-0203

Lab Sample ID: 480-145319-8 Date Sampled: 11/13/2018 0906
Client Matrix: Water Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447666	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7356.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/27/2018 2242			Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	86		46 - 120
2-Fluorobiphenyl	85		48 - 120
p-Terphenyl-d14	82		59 - 136

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-8808S

Lab Sample ID: 480-145319-9 Date Sampled: 11/13/2018 1420
Client Matrix: Water Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447666	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7357.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/27/2018 2311			Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	91		46 - 120
2-Fluorobiphenyl	89		48 - 120
p-Terphenyl-d14	86		59 - 136

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-9112S

Lab Sample ID: 480-145319-10 Date Sampled: 11/13/2018 1643
Client Matrix: Water Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447666	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7358.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/27/2018 2340			Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	89		46 - 120
2-Fluorobiphenyl	89		48 - 120
p-Terphenyl-d14	83		59 - 136

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-9112D

Lab Sample ID: 480-145319-11 Date Sampled: 11/13/2018 1543
Client Matrix: Water Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447666	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7359.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/28/2018 0009			Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	87		46 - 120
2-Fluorobiphenyl	88		48 - 120
p-Terphenyl-d14	87		59 - 136

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: MW-9502S

Lab Sample ID: 480-145319-12 Date Sampled: 11/14/2018 0857
Client Matrix: Water Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447666	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7360.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/28/2018 0038			Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	ND		0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	ND		0.40	5.0
Fluorene	ND		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	ND		0.76	5.0
Phenanthrene	ND		0.44	5.0
Pyrene	ND		0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	90		46 - 120
2-Fluorobiphenyl	88		48 - 120
p-Terphenyl-d14	77		59 - 136

Client: New York State Electric & Gas | Job Number: 480-145319-1

Client Sample ID: **PTMW-0202**

Lab Sample ID: 480-145319-13 | Date Sampled: 11/13/2018 1310
Client Matrix: Water | Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447666	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7361.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/28/2018 0107			Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	88 ~~72~~	D ~~E~~	0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	1.7	J	0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	1.6	J	0.40	5.0
Fluorene	21		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	99 ~~58~~	D ~~E~~	0.76	5.0
Phenanthrene	7.8		0.44	5.0
Pyrene	1.5	J	0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	85		46 - 120
2-Fluorobiphenyl	88		48 - 120
p-Terphenyl-d14	69		59 - 136

Client: New York State Electric & Gas | Job Number: 480-145319-1

Client Sample ID: **PTMW-0202**

Lab Sample ID: 480-145319-13 | Date Sampled: 11/13/2018 1310
Client Matrix: Water | Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447880	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7374.D
Dilution:	5.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/28/2018 1850	Run Type:	DL	Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	88		2.1	25
Acenaphthylene	ND		1.9	25
Anthracene	1.5	J	1.4	25
Benzo(a)anthracene	ND		1.8	25
Benzo(a)pyrene	ND		2.4	25
Benzo(b)fluoranthene	ND		1.7	25
Benzo(g,h,i)perylene	ND		1.8	25
Benzo(k)fluoranthene	ND		3.7	25
Chrysene	ND		1.7	25
Dibenz(a,h)anthracene	ND		2.1	25
Fluoranthene	ND		2.0	25
Fluorene	19	J	1.8	25
Indeno(1,2,3-c,d)pyrene	ND		2.4	25
Naphthalene	99		3.8	25
Phenanthrene	7.5	J	2.2	25
Pyrene	ND		1.7	25

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	78		46 - 120
2-Fluorobiphenyl	86		48 - 120
p-Terphenyl-d14	64		59 - 136

Client: New York State Electric & Gas

Job Number: 480-145319-1

Client Sample ID: **DUP-111318**

Lab Sample ID: 480-145319-14
Client Matrix: Water

Date Sampled: 11/13/2018 0000
Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447666	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7362.D
Dilution:	1.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/28/2018 0136			Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	60		0.41	5.0
Acenaphthylene	ND		0.38	5.0
Anthracene	1.7	J	0.28	5.0
Benzo(a)anthracene	ND		0.36	5.0
Benzo(a)pyrene	ND		0.47	5.0
Benzo(b)fluoranthene	ND		0.34	5.0
Benzo(g,h,i)perylene	ND		0.35	5.0
Benzo(k)fluoranthene	ND		0.73	5.0
Chrysene	ND		0.33	5.0
Dibenz(a,h)anthracene	ND		0.42	5.0
Fluoranthene	1.4	J	0.40	5.0
Fluorene	17		0.36	5.0
Indeno(1,2,3-c,d)pyrene	ND		0.47	5.0
Naphthalene	85 ~~50~~	D ~~E~~	0.76	5.0
Phenanthrene	7.2		0.44	5.0
Pyrene	1.5	J	0.34	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	67		46 - 120
2-Fluorobiphenyl	69		48 - 120
p-Terphenyl-d14	69		59 - 136

Client: New York State Electric & Gas Job Number: 480-145319-1

Client Sample ID: DUP-111318

Lab Sample ID: 480-145319-14 Date Sampled: 11/13/2018 0000
Client Matrix: Water Date Received: 11/15/2018 1000

8270D Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270D	Analysis Batch:	480-447880	Instrument ID:	HP5973W
Prep Method:	3510C	Prep Batch:	480-446121	Lab File ID:	W7375.D
Dilution:	5.0			Initial Weight/Volume:	250 mL
Analysis Date:	11/28/2018 1919	Run Type:	DL	Final Weight/Volume:	1 mL
Prep Date:	11/16/2018 1411			Injection Volume:	2 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	74		2.1	25
Acenaphthylene	ND		1.9	25
Anthracene	1.7	J	1.4	25
Benzo(a)anthracene	ND		1.8	25
Benzo(a)pyrene	ND		2.4	25
Benzo(b)fluoranthene	ND		1.7	25
Benzo(g,h,i)perylene	ND		1.8	25
Benzo(k)fluoranthene	ND		3.7	25
Chrysene	ND		1.7	25
Dibenz(a,h)anthracene	ND		2.1	25
Fluoranthene	ND		2.0	25
Fluorene	17	J	1.8	25
Indeno(1,2,3-c,d)pyrene	ND		2.4	25
Naphthalene	85		3.8	25
Phenanthrene	7.2	J	2.2	25
Pyrene	ND		1.7	25

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	63		46 - 120
2-Fluorobiphenyl	70		48 - 120
p-Terphenyl-d14	67		59 - 136

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ryan Clare / Dan Mecarthe	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-121087-15280.1
Client Contact: Mr. Nicholas Beyrle	Phone: 585-880-7747	E-Mail: melissa.deyo@testamericainc.com		Page: Page 1 of 2
Company: ARCADIS U.S. Inc				Job #:
Address: Arcadis 295 Woodcliff Drive 3rd Floor, Suite 301	Due Date Requested:			
City: Fairport	TAT Requested (days): Standard (10)			
State, Zip: NY, 14450				
Phone: 585-880-7747 (Ryan)	PO #: 4504318887			
Email: Nicholas.beyrle@arcadis-us.com	WO #: NYSEG Oneonta/John Ruspantini			
Project Name: NYSEG - Oneonta	Project #: 48004125			
Site: Oneonta Former MGP	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

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 - 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
MW-8604S	11/13/18	0950	G	Water		X	X	X	15	
~~MW-9109S~~				Water						
MW-9114S	11/14/18	1035	G	Water			X	X	5	
MW-8806S	11/13/18	1215	G	Water			X	X	5	
MW-9110S	11/14/18	0845	G	Water			X	X	5	
MW-0201	11/13/18	1535	G	Water			X	X	5	
MW-8807S	11/14/18	0905	G	Water			X	X	5	
MW-9111S	11/13/18	1120	G	Water			X	X	5	
MW-0203	11/13/18	0906	G	Water			X	X	5	
MW-8808S	11/13/18	1420	G	Water			X	X	5	
MW-9112S	11/13/18	1643	G	Water			X	X	5	

480-145319 COC

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: Ryan Clare	Date/Time: 11/14/18 1300	Company: Arcadis	Received by: C Wattles	Date/Time: 11/15/18 1000	Company: TAB	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
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: #1 2.9

Ver: 08/04/2016

11/30/2018

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Ryan Clare / Dan Meandro	Lab PM: Deyo, Melissa L	Carrier Tracking No(s):	COC No: 480-121087-15280.2
Client Contact: Mr. Nicholas Beyrle	Phone: 585-880-7747	E-Mail: melissa.deyo@testamericainc.com		Page: Page 2 of 2
Company: ARCADIS U.S. Inc				Job #:
Address: Arcadis 295 Woodcliff Drive 3rd Floor, Suite 301	Due Date Requested:			
City: Fairport	TAT Requested (days):			
State, Zip: NY, 14450				
Phone:	PO #: 4504318887			
Email: Nicholas.beyrle@arcadis-us.com	WO #: NYSEG Oneonta/John Ruspantini			
Project Name: NYSEG - Oneonta	Project #: 48004125			
Site: ~~Former~~ Oneonta Former MGP	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

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 - 8260	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A		
MW-9112D	11/13/18	1543	G	Water			X	X	5	
~~MW-0301~~	~~11/14/18~~		~~G~~	~~Water~~			~~X~~	~~X~~	~~5~~	
MW-9502S	11/14/18	0857	G	Water			X	X	5	
PTMW-0202	11/13/18	1310	G	Water			X	X	5	
DUP-111318	11/13/18	—	G	Water			X	X	5	
TRIP BLANK	11/14/18	—	—	Water				X	1	
				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: Ryan Clare	Date/Time: 11/14/18 1300	Company Arcadis	Received by: Cwallace	Date/Time: 11/15/18 1000	Company TAB	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
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: #1 2.7			

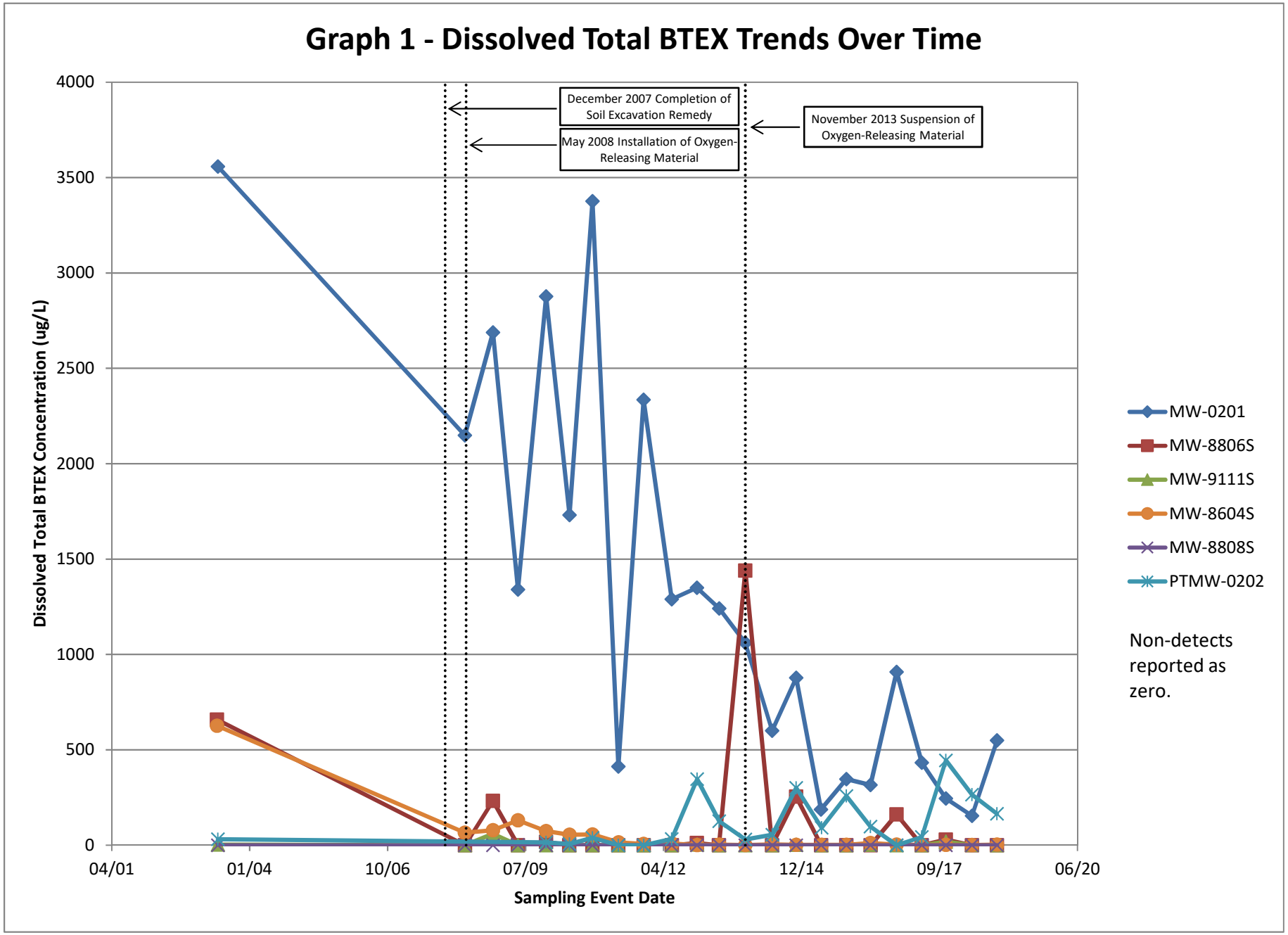
Ver: 08/04/2016

11/30/2018

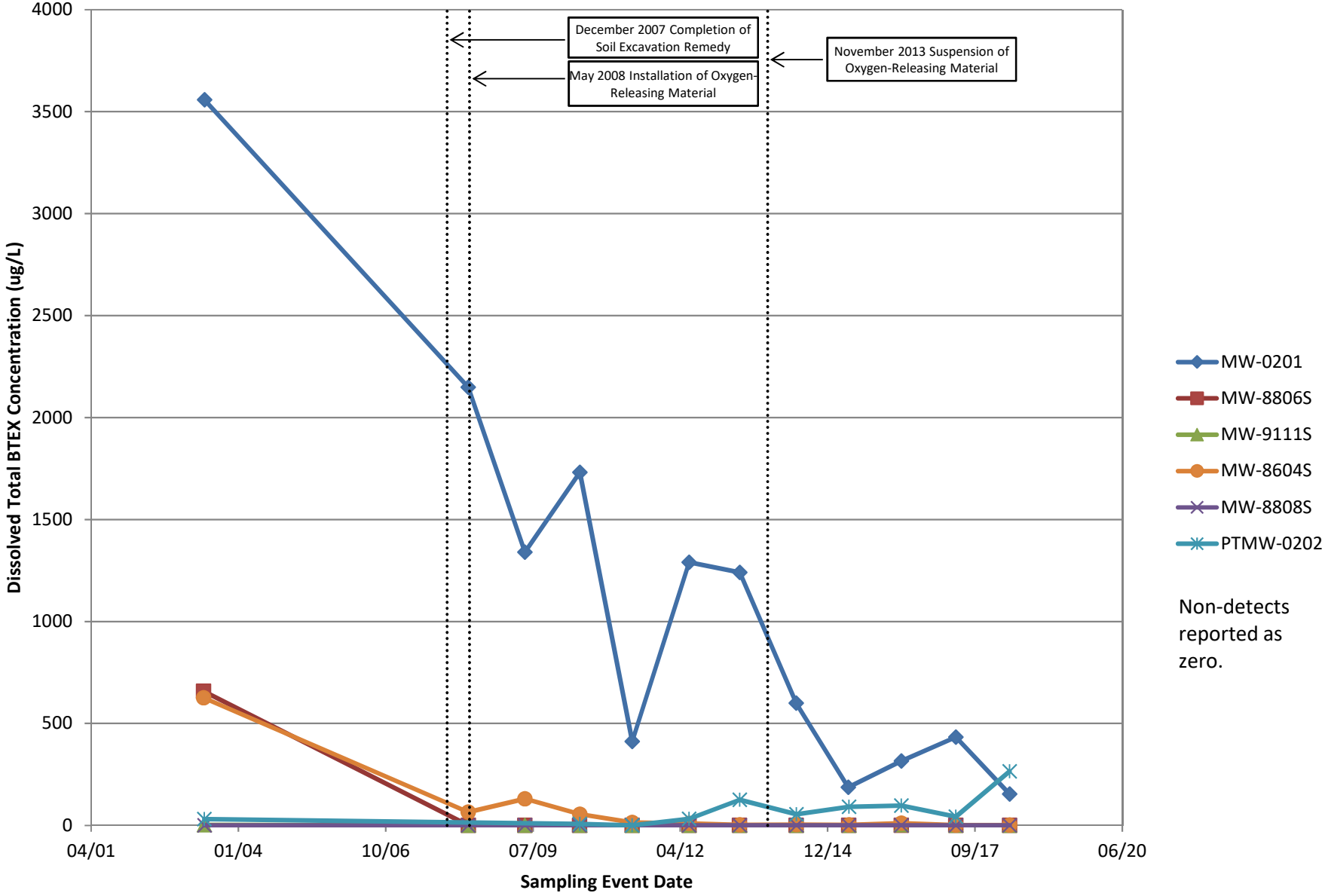
APPENDIX C

Graphs

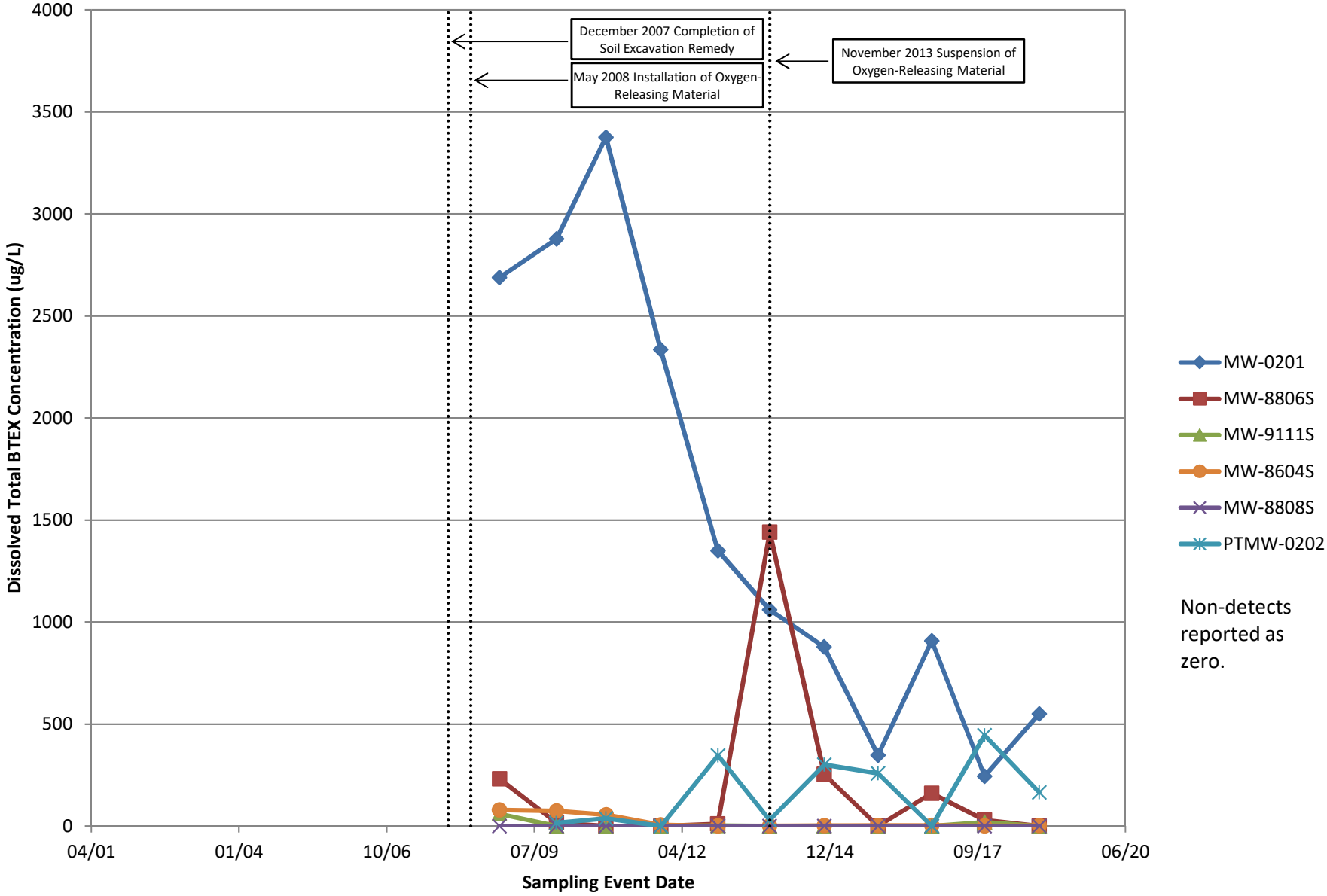
Graph 1 - Dissolved Total BTEX Trends Over Time



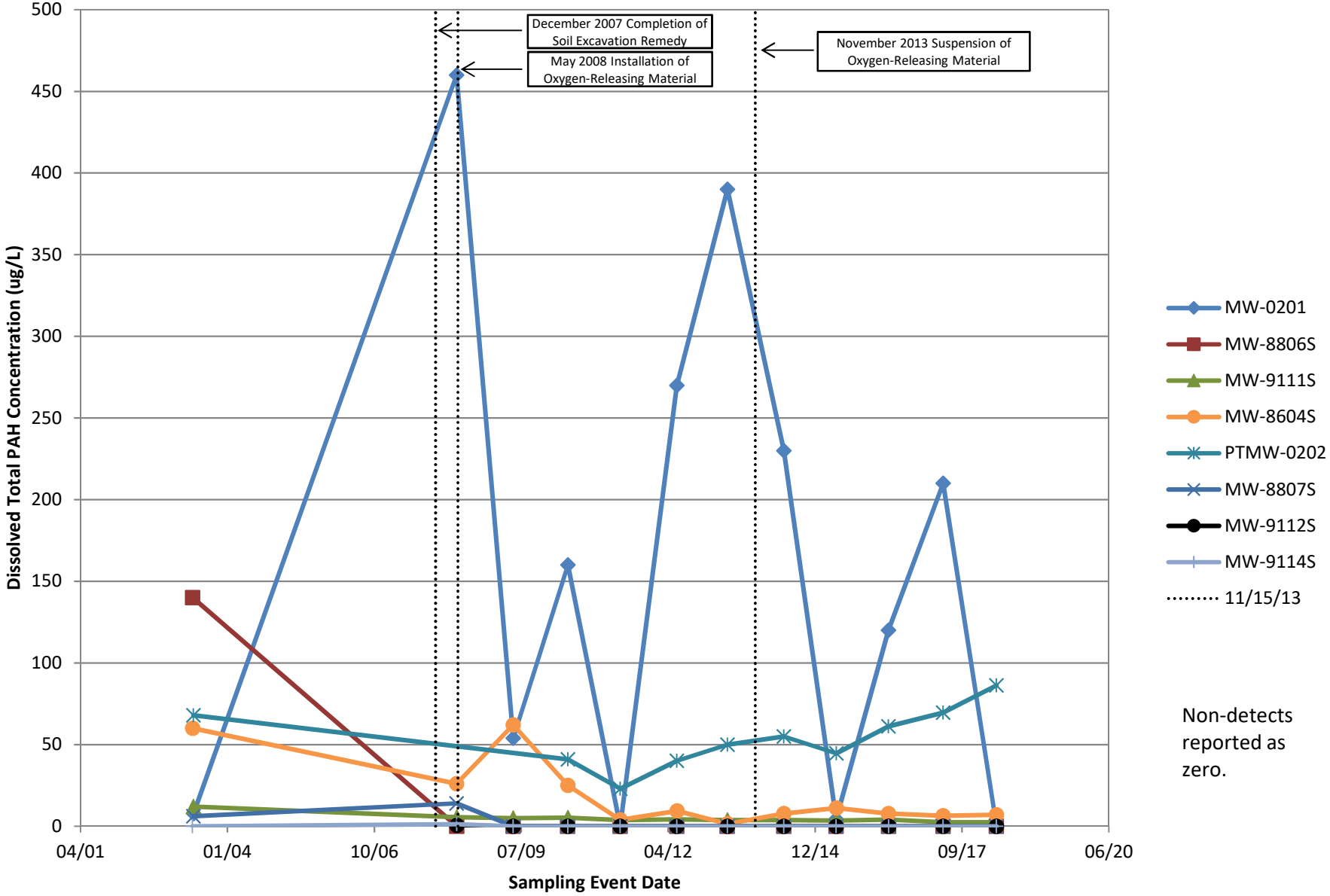
Graph 2 - Dissolved Total BTEX Concentrations - Spring Events



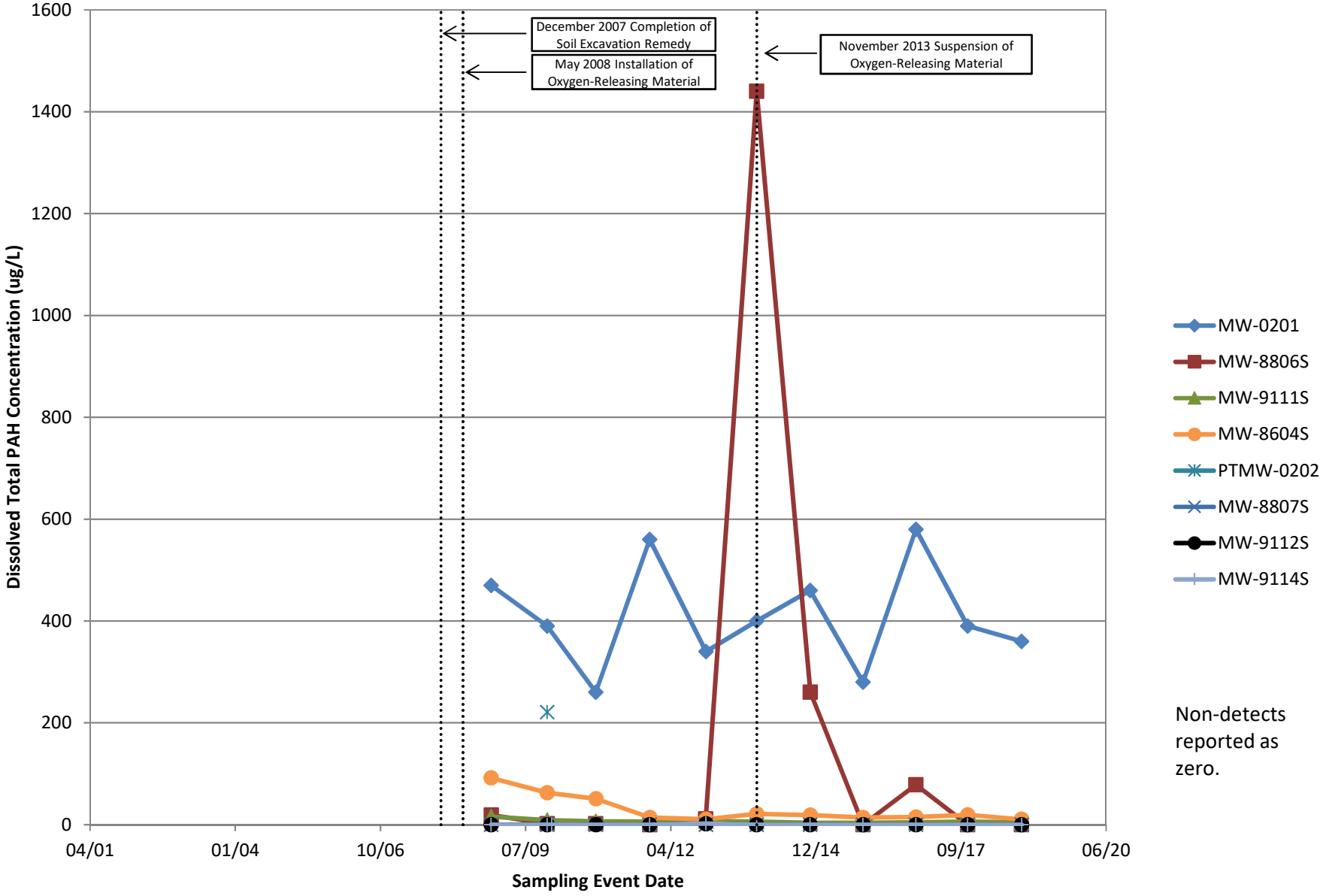
Graph 3 - Dissolved Total BTEX Concentrations - Fall Events



Graph 4 - Dissolved Total PAH Concentrations - Spring Events



Graph 5 - Dissolved Total PAH Concentrations - Fall Events



APPENDIX D

Site Inspection Logs

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 1	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: NNW	
COMMENT: Picture showing soil coverage for the Easter Plant Area (EPA). Photo indicates cover in good condition; no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 2	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: NW	
COMMENT: Picture showing soil coverage for the EPA. Photo indicates cover in good condition; no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 3	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: W	
COMMENT: Picture showing soil coverage for the EPA. Photo indicates cover in good condition; no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 4	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: S	
COMMENT: Picture showing roadway traversing the EPA. Photo indicates cover in good condition; no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 5	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: W	
COMMENT: Picture showing riprap coverage for Mill Race Creek embankment in the vicinity of the Western Plant Area (WPA). Coverage appears in good condition, no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 6	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: W	
COMMENT: Picture showing riprap coverage for Mill Race Creek embankment from a different angle in the vicinity of the WPA. Coverage appears in good condition, no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 7	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: SSE	
COMMENT: Picture showing parking lot that covers the WPA. Photo indicates cover is in good condition; no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 8	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: SSW	
COMMENT: Picture showing continuation of the parking lot that covers the WPA. Photo indicates cover is in good condition; no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 9	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: WSW	
COMMENT: Picture showing continuation of the parking lot that covers the WPA. Photo indicates cover is in good condition; no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 10	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: W	
COMMENT: Picture showing continuation of the parking lot that covers the WPA and the riprap covered embankment of the Mill Race Creek. Photo indicates cover is in good condition; no repair needed.	

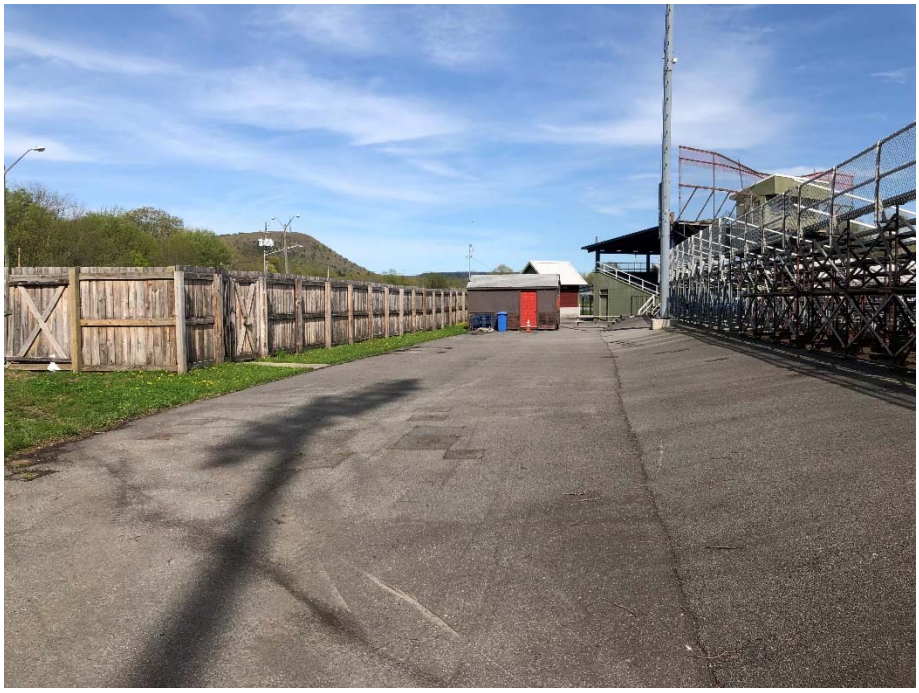
CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 11	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: NE	
COMMENT: Picture showing close-up of riprap embankment cover for the Mill Race Creek looking northeast. Photo indicates cover is in good condition; no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 12	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: SW	
COMMENT: Picture showing close-up of riprap embankment cover for the Mill Race Creek, walking trail and NYSEG storage shed looking southeast. Photo indicates cover in front of shed is in good condition; no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 13	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: S	
COMMENT: Picture showing concrete sidewalks and ballpark fencing covering the WPA. Photo indicates cover is in good condition; no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 14	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: E	
COMMENT: Picture showing coverage over the WPA. Parking lot, sidewalk and grass area appear in good condition; no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 15	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: SSE	
COMMENT: Picture showing coverage over WPA. Grass area and pavement behind bleachers appear in good condition; no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 16	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: E	
COMMENT: Picture showing paved area behind bleachers and pavement directly over the permeable wall. Photo indicates cover is in good condition; no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 17	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: E	
COMMENT: Picture showing continuation of paved area behind bleachers and pavement directly over the permeable wall. Photo indicates cover is in good condition; no repair needed.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
PHOTOGRAPH #: 16	
PHOTOGRAPHER: LMM	
DATE: 05/14/2018	
DIRECTION: NE	
COMMENT: Picture showing cover for the very southeastern corner of the WPA and the permeable wall. Photo indicates cover is in good condition; no repair needed.	

APPENDIX E

Well Photographic Logs

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : MW-8604S	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph of MW-8604S. Well is a stick-up and in good condition with a lockable lid.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : MW-8806S	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph of MW-8806S. Well is in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : MW-8807S	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing MW-8807S. Well is in good condition with locking well cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : MW-8808S	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing MW-8808S. Well is in good condition with locking cap.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : MW-9109S	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing MW-9109S. Well has an existing pump assembly in it. Well is in good condition with locking well cap.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : MW-9110S	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing MW-9110S. Well has existing pump assembly in it. Well is in good condition with locking well cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : MW-9111S	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph of MW-9111S. Well has existing pump assembly in it. Well is in good condition with locking well cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : MW-9112S	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing MW-9112S. Well has existing pump assembly in it. Well is in good condition with locking well cap.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : MW-9112D	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing MW-9112D. Well has existing pump assembly in it. Well is in good condition with locking cap.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : MW-9114S	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing MW-9114S. Well is in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : MW-9502S	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing MW-9502S. Well is in good condition with locking well cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : MW-0201	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing MW-0201. Well is in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : MW-0203	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing MW-0203. Well is in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : MW-0301	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing MW-0301. Well is in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PTMW-0202	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PTMW-0202. Well is in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : NRW-01	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing NRW-01. Well in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	SITE LOCATION: Oneonta, New York
WELL ID : NRW-02	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing NRW-02. Well in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	SITE LOCATION: Oneonta, New York
WELL ID : NRW-03	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing NRW-03. Concrete apron surrounding flush-mount road box is weathered and cracked, however still structurally sound. Well has locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	SITE LOCATION: Oneonta, New York
WELL ID : NRW-04	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing NRW-04. Well in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	SITE LOCATION: Oneonta, New York
WELL ID : NRW-05	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing NRW-05. Well in good condition with locking cap. Vault is in good condition.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	SITE LOCATION: Oneonta, New York
WELL ID : PMW-01	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PMW-01. Well in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	SITE LOCATION: Oneonta, New York
WELL ID : PMW-02	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PMW-02. Well in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PMW-03	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PMW-03. Well in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PMW-04	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PMW-04. Well in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PMW-05	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PMW-05. Well in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PMW-06	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PMW-06. Well in good condition with locking cap.	

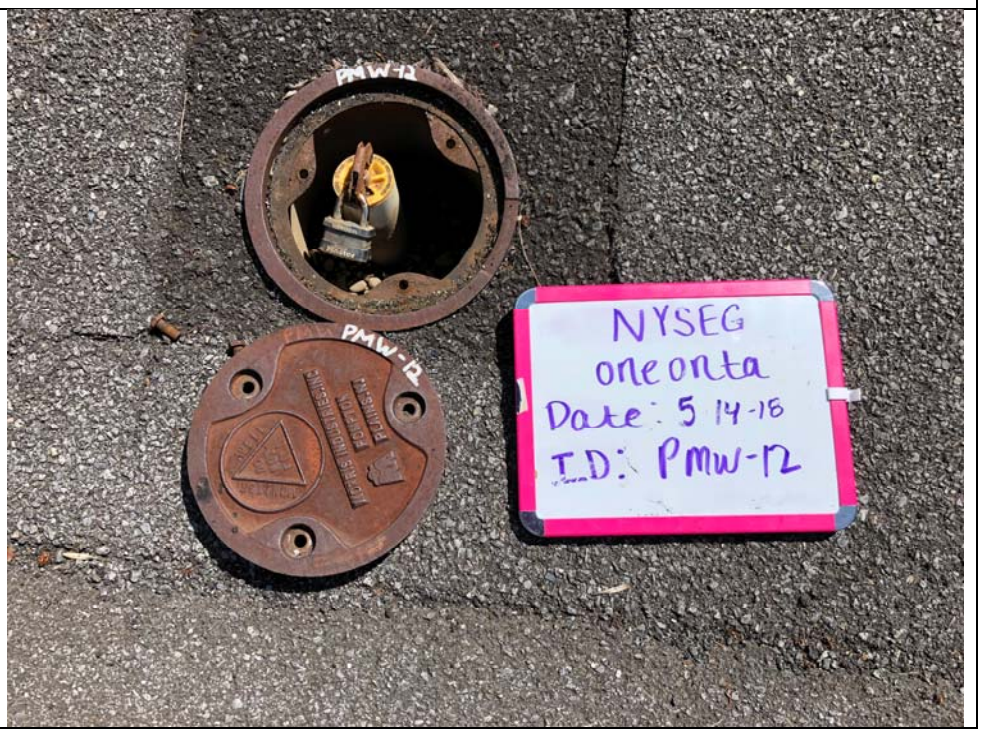
CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PMW-07	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PMW-07. Well in good condition with locking cap.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PMW-08	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PMW-08. Well in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PMW-09	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PMW-09. Well in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PMW-10	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PMW-10. Well in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PMW-11	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PMW-11. Well in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PMW-12	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PMW-12. Well in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PMW-13	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PMW-13. Well in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PMW-14	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PMW-14. Well in good condition with locking cap.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PZ-105	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PZ-105. Well in good condition with locking cap.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PZ-0801	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PZ-0801. Well in good condition with locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PZ-0802	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PZ-0802. Concrete apron surrounding flush-mount road box is weathered and cracked, however still structurally sound. Well has locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : PZ-0803	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing PZ-0803. Concrete apron surrounding flush-mount road box is weathered and cracked, however still structurally sound. Well has locking cap.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
STAFF GAUGE ID: SG-105	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing SG-10. Staff gauge is in good condition.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
STAFF GAUGE ID: SG-107	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing SG-107. Measuring location is a hole drilled in the top of the culvert. Staff gauge is in good condition.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
STAFF GAUGE ID: SG-110	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing SG-110. Staff gauge is in good condition.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : SG-111	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing SG-111. Staff gauge is in good condition.	

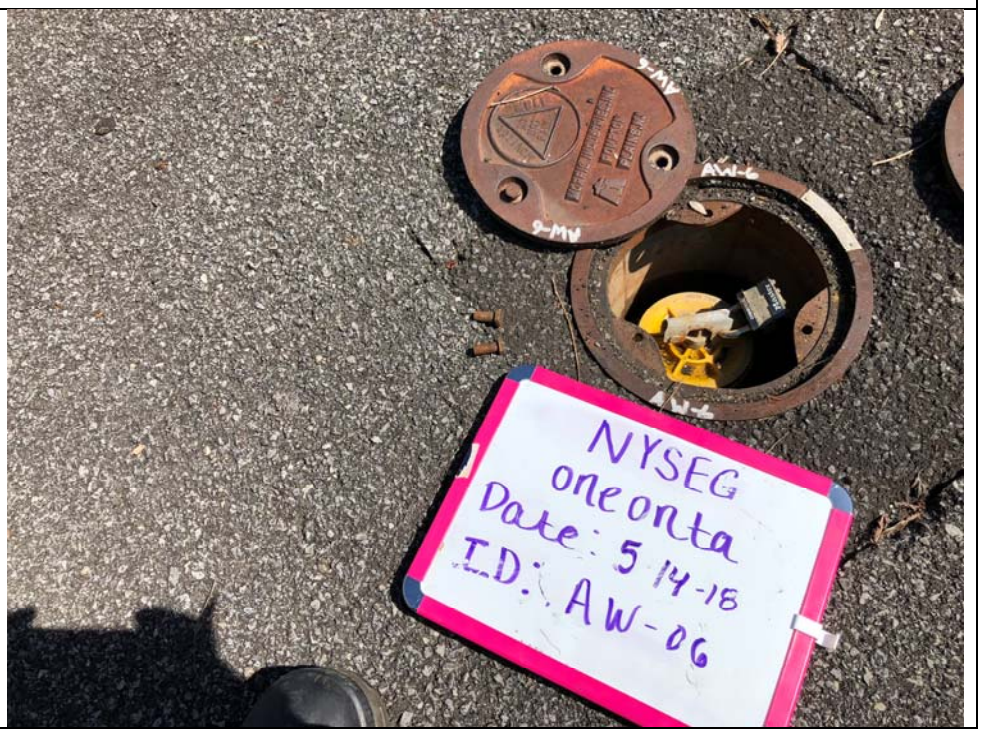
CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : AW-01	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing AW-01. Well is in good condition.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : AW-02	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing AW-02. Well is in good condition.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : AW-03	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing AW-03. Well is in good condition.	

CLIENT: NYSEG	**SITE NAME: Oneonta Former MGP Site**
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : AW-04	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing AW-04. Well is in good condition.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : AW-05	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing AW-05. Well is in good condition.	

CLIENT: NYSEG	SITE NAME: Oneonta Former MGP Site
PROJECT#: B0013118.0005	**SITE LOCATION: Oneonta, New York**
WELL ID : AW-06	
PHOTOGRAPHER: LMM	
DATE: 05/14/18	
DIRECTION: NA	
COMMENT: Photograph showing AW-06. Well is in good condition.	

APPENDIX F

Certification Statement

Appendix F
Certification Statement

Based on information provided to NYSEG, NYSEG verifies that the site engineering controls described in the ROD (NYSDEC 2005) were in place during the reporting period, and has no knowledge that changes have occurred at the Oneonta Former MGP Site that would impair the ability of the engineering controls to protect public health and the environment, or constitute a violation or failure to comply with the operation and maintenance plan described in the *Site Management Plan*.

1-11-19

John J. Ruspantini, CHMM, PMP
NYSEG, Manager – Programs/Projects

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7)**:**

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.

- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Enclosure 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **439001**

Site Name NYSEG - Oneonta MGP

Site Address: James Georgeson Avenue Zip Code: 13820
City/Town: Oneonta
County: Otsego
Site Acreage: 2.000

Reporting Period: December 19, 2017 to December 19, 2018

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	☐
7. Are all ICs/ECs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

FOR NYSEG

Signature of Owner, Remedial Party or Designated Representative

1-10-19

Date

SITE NO. 439001 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
300.10-1-34	CITY OF ONEONTA	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan Monitoring Plan IC/EC Plan

Box 4

Description of Engineering Controls

Parcel	Engineering Control
300.10-1-34	Cover System Subsurface Barriers Vapor Mitigation – LISTED IN ROD, BUT NOT CURRENTLY REQUIRED

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

FOR NYSEG _____ 1-10-19

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. 439001

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I John J Ruspantini (print name) at NYSEG 18 Link Dr Binghamton, NY (print business address)

am certifying as NYSEG (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

BR NYSEG [signature] 1-10-18

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification — Date

IC/EC CERTIFICATIONS

(QEP) QUALIFIED ENVIRONMENTAL PROFESSIONAL

Box 7

~~Professional Engineer Signature~~

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I John J Rushton at NYSEG 18 Link Dr Binghamton NY,
print name print business address

am certifying as a ~~Professional Engineer~~ QEP for the NYSEG
(Owner or Remedial Party)

John J Rushton CHMM No. 10302 1-10-19
Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification | Stamp (Required for PE) | Date

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