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2020/2021 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Bay Shore/Brightwaters Former MGP Site

Town of Islip
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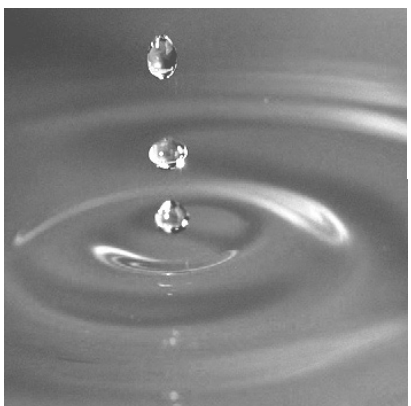

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Executive Summary

This report presents the 2020/2021 annual groundwater monitoring (GM) and operations, maintenance and monitoring (OM&M) activities and results for the Bay Shore/Brightwaters Former Manufactured Gas Plant (MGP) Site located in Bay Shore, Suffolk County, New York. GM and OM&M activities include monitoring groundwater, soil vapor, and ambient air, as well as maintenance and monitoring of the dense non-aqueous phase liquid (DNAPL) recovery and groundwater treatment systems. The period for this report includes Fourth Quarter (Q4) 2020 through Second Quarter (Q2) 2021. The period for this report was shortened (from the typical four quarters to three) in order to comply with the previous reporting schedule for the Site. The previous annual report was extended to Q3 2020 because limited GM and OM&M activities, including the annual groundwater sampling event, were performed at the site during Q2 2020 due to health and safety concerns and work restrictions imposed by New York State related to COVID-19.

Quarterly monitoring reports for the site have been prepared and submitted to the agencies and provided to the public since the initial site remediation report was prepared in 2004 through Second Quarter (Q2 2012). Reductions to the reporting frequency, the long-term groundwater and soil vapor monitoring programs, as well as the establishment of remediation system shutdown criteria, were approved by the New York State Department of Environmental Conservation (NYSDEC) in a letter dated August 22, 2012. The specific objectives included:

- Provide criteria for future reductions in groundwater sampling based on analytical results,
- Provide analytical requirements for monitoring groundwater,
- Provide criteria for shutdown and removal of groundwater treatment systems,
- Reduce soil vapor sampling, and
- Reduce the frequency of the quarterly OM&M reporting cycle to annual.

Implementation of the reduction program began in Fourth Quarter (Q4) 2012.

Remedial Program

Non-Aqueous Phase Liquid (NAPL) Gauging and Recovery

Light non-aqueous phase liquid (LNAPL) was present in one monitoring well (OZMW-21S) in Operable Unit 1 (OU-1) during the current monitoring period (Q4 2020 through Q2 2021). Although not measurable, a sheen was noted during in OZMW-21S in each event during the reporting period. Trace amounts of LNAPL were first observed in the central section of OU-1 in one monitoring well in First Quarter (Q1) 2010. DNAPL was observed in monitoring wells in

the same area and further south in OU-1 during the reporting period at a maximum thickness of over 6.5 feet at BBRW-02. DNAPL thicknesses in wells with measurable quantities have remained generally similar to the previous year. DNAPL has historically been gauged and recovered from OU-1 since Q1 2006. Approximately 20 gallons of DNAPL were recovered during the current reporting period from recovery well BBRW-02, located in the vicinity of maximum product thicknesses.

Groundwater Treatment

The constituents of concern (COCs) in Site groundwater consist of benzene, toluene, ethylbenzene and xylene (BTEX) and polycyclic aromatic hydrocarbons (PAHs), primarily naphthalene and 2-methylnaphthalene. Groundwater remediation systems have been installed to treat the impacted groundwater. An ozone injection system was installed in OU-1 to reduce concentrations of COCs as they pass through the perforated section of the subsurface containment barrier wall and into Operable Unit 2 (OU-2). On July 11, 2018, the NYSDEC approved discontinuing operation of the SVE portion of the system. The system was shut down in September 2019 and sampling of downgradient soil vapor and site ambient air was conducted for three months following the system shut down per the NYSDEC approval. Based on the consistency of the data post SVE system shutdown, soil vapor and ambient air sampling has been discontinued.

Historically, ten oxygen injection systems were installed to treat impacted groundwater in OU-1, OU-2, and Operable Unit 3 (OU-3). These systems are maintained monthly. Operational parameters are adjusted to optimally treat groundwater. These systems have been effective at significantly reducing the area and concentrations of impacted groundwater in OU-1, OU-2, and OU-3. In areas where elevated concentrations have persisted, additional remedial measures have been taken. These measures have historically included the installation of additional oxygen injection systems, or the modification of current systems to focus treatment on the zones with residual impacts and the targeted injection of Oxygen Release Compound – Advanced (ORC-A), where appropriate.

As a result of the remedial efforts and resulting groundwater reductions, and in accordance with the NYSDEC-approved remedial system shutdown criteria, two oxygen injection systems were shut down in March 2015. These systems were subsequently removed from the properties and the associated oxygen injection and monitoring wells were abandoned with NYSDEC approval. Additional shutdowns with NYSDEC approval include the Manatuck Lane portion of the Garner Lane oxygen injection system (May 2019) and the 9 North Clinton Avenue system (August 2021). Groundwater monitoring wells in the vicinity of the Garner Lane and 9 North Clinton Avenue systems are being monitored for potential rebound in groundwater concentrations.

Hydrogeologic Setting

The hydrogeologic regime in the vicinity of the site includes glacial deposits comprising the Upper Glacial aquifer. These deposits consist mainly of inter-bedded layers of permeable sand and gravel, and intermittent less permeable layers of silty sand. The thickness of these deposits is approximately 70 feet.

Groundwater elevation monitoring is conducted annually to aid in monitoring the groundwater plumes and to confirm groundwater flow patterns. The depth to groundwater at the site is shallow, generally between approximately 2 and 12 feet below ground surface (bgs). The groundwater flow direction throughout the site is generally towards the south/southeast. The Q2 2021 groundwater elevations are lower than the average groundwater levels measured during the historical monitoring period.

Groundwater Quality

The groundwater quality data indicate that remedial activities have been extremely successful at reducing the overall concentrations of COCs in groundwater and the overall extent of the plume area (as defined by concentrations greater than 100 µg/L). Furthermore, exceedances of the New York State Ambient Water Quality Standards and Guidance Values for Class GA groundwater (AWQS) in OU-1 downgradient of the barrier wall or the oxygen injection system at the downgradient edge of OU-1, have generally been limited to two wells in the deep zone in recent sampling events. Similarly, exceedances of the AWQS downgradient of the sheeting cells in the LIRR ROW in OU-3 in the current annual event (Q2 2021) were limited to one intermediate well. There were no exceedances of the AWQS during the current annual sampling event (Q2 2021) in Operable Unit 4 (OU-4). Further description of the reductions in OU-2, OU-3 and OU-4 is provided below.

The concentration reductions in groundwater in OU-2 have eliminated the plume (concentrations greater than 100 µg/L) in the intermediate zone and reduced the shallow plume to one isolated area defined by one well located immediately south of the barrier wall. Impacts in this well have been variable historically but are decreasing overall. Intermediate zone impacts historically had been present from the Site to the termination point of the plume at Lawrence Creek, an approximate length of ~2,700 feet. Other remaining impacts (>100 µg/L) in OU-2 consisting primarily of total PAHs have been limited to the area south of the barrier wall in the deep zone of the aquifer. The trends of the two deep wells located immediately south of the barrier wall are inconsistent, with one generally increasing and the other generally decreasing. Farther downgradient, concentrations increased relative to the previous reporting period; however, the concentrations in wells with current or historical concentrations above 100 µg/L in the area remain significantly below historical levels. Additional remedial measures will continue to be evaluated for these and any other areas, as appropriate.

Significant decreases are also evident in the shallow and intermediate zones in OU-3. There are no deep groundwater impacts in OU-3. During the annual sampling event (Q2), the shallow

plume (impacts above 100 µg/L) was confined to a select area on the western side of the Brightwaters Yard and within the LIRR ROW. Intermediate zone impacts in the Brightwaters Yard and within the LIRR ROW have been significantly reduced and were not present during the annual sampling event. Downgradient of the LIRR ROW, impacts were limited to one well in the intermediate zone during Q2 2021. Shallow impacts, primarily consisting of BTEX in the area downgradient the LIRR ROW, historically extended over 500 feet to the area south of Union Boulevard prior to the start of remediation. These reductions followed the remedial excavations (Phases I, II, and III), and subsequent treatment system installations and modifications. Impacts are also currently present in three of the six temporary wells installed within and adjacent to the sheeting cells left-in-place on the southern end of the Brightwaters Yard. These wells were installed to monitor the effectiveness of an ORC-A injection program conducted in Q4 2019 to target residual impacts in the intermediate zone in the area. Increases are evident in two of the three deeper intermediate temporary wells installed; however, the concentrations remain below those detected in the initial event prior to injection. The lingering impacts in the area may indicate that additional remedial action is warranted.

In OU-4, no concentrations above 100 µg/L were detected during the annual sampling event; however, access restrictions have prevented wells located south and west of the excavation extent from being sampled recently. Decreasing concentration trends are evident in some shallow and intermediate zone wells; however, impacts above 100 µg/L are likely still present in several intermediate wells screened outside or below the vertical excavation extent that have not been sampled in recent events. No impacts have been present in the deep zone. The majority of the OU-4 Excavation Interim Remedial Measure (IRM) consisted of shallow soil excavation (approximately 10 feet bgs) and was performed in Q2 and Q3 2011.

Future Plans

The GM and OM&M schedule will continue to be evaluated on a quarterly basis to keep the groundwater treatment systems operating as efficiently as possible. Rationale for sampling groundwater will also continue to be evaluated on a quarterly basis. Proposed modifications or plans to system OM&M and site monitoring are presented below.

NAPL Gauging and Recovery

- Continue gauging NAPL on a quarterly basis.
- Consider recovery from wells in the southern portion of OU-1 with thicknesses of DNAPL greater than one foot. Monitor the rebound in these wells to determine if additional recovery is required, or if a recovery schedule should be established.

Ozone Groundwater Treatment System

- Continue operation and maintenance of the ozone groundwater treatment system.

- Annual monitoring for ozone will be conducted at the SVE manifold during annual maintenance to confirm a continued lack of ozone in the vadose zone after the SVE system shutdown.

Current Oxygen Injection Systems

- Continue monthly system inspections.
- Continue bi-weekly system inspections.
- Conduct manufacturer recommended maintenance on the systems.
- Discontinue monitoring of groundwater in the vicinity of the Manatuck Lane portion of the Garner Lane oxygen injection system in accordance with the approved system shut down letter.
- Shut down the 9 North Clinton Avenue oxygen injection system (completed in August 2021) and begin post-shut down monitoring.
- Evaluate groundwater data in vicinity of the remaining active treatment systems and optimize or shut down systems, as appropriate.

Short-term Groundwater Monitoring

- Continue evaluation of the groundwater impacts in OU-1 and OU-2, in the vicinity and immediately downgradient of the barrier wall, primarily in the shallow and deep zones.
- The groundwater concentrations in the shallow and intermediate zones in the Brightwaters Yard portion of OU-3 will continue to be evaluated.
- Continue quarterly gauging and sampling of the reduced groundwater monitoring network in OU-4.
- Discontinue the sulfate program with NYSDEC approval since there has only been one detection above the AWQS criteria for Class GA groundwater during the past two years.

Remedial Activity

Operable Unit 1

- Evaluate whether to abandon the remaining injection wells in the southern line of the 60/66 North Clinton Avenue oxygen injection system in accordance with the NYSDEC-approved work plan. The southern, downgradient line of the 60/66 North Clinton Avenue oxygen injection system was replaced by a new treatment line on the northern, upgradient property boundary and additional injections wells were added across North Clinton Avenue both behind and in front of the barrier wall.

Operable Unit 2

- Continue monitoring of groundwater in the vicinity of the Manatuck Lane portion of the Garner Lane oxygen injection system as discussed in Section 5.1.3.
- Shut down the 9 North Clinton Avenue oxygen injection system (done in August 2021) and begin post-shut down monitoring.

Operable Unit 3

- Continue to evaluate the supplemental remedial alternatives in the Brightwaters Yard including additional groundwater treatment (ORC-A injection), as well as additional excavation of shallow impacts near wells OU3MW-08S and OU3MW-16S in coordination with drainage work planned for the area.

Operable Unit 4

- Potential excavation of MGP impacts beneath the 22 Oak Street building concurrent with property redevelopment activities.

Long-term Monitoring

- Continue following the NYSDEC-approved long-term site monitoring program.

1. Introduction

This report presents the 2020/2021 Annual groundwater monitoring (GM) and operations, maintenance and monitoring (OM&M) activities for the Bay Shore/Brightwaters former manufactured gas plant (MGP) site located in Bay Shore, Suffolk County, New York. The period for this report includes Fourth Quarter (Q4) 2020 through Q2 2021. The period for this report was shortened (from the typical four quarters to three) in order to comply with the previous reporting schedule for the Site. The previous annual report was extended to Q3 2020 because limited GM and OM&M activities, including the annual groundwater sampling event, were performed at the site during Q2 2020 due to health and safety concerns and work restrictions imposed by New York State related to COVID-19. This report has been prepared in accordance with the requirements of Section Title 6 of Division of Environmental Remediation (DER)-10, Technical Guidance for Site Investigation and Remediation, and the Order on Consent, Index No. D1-0001-98-11, between National Grid Corporation and the New York State Department of Environmental Conservation (NYSDEC).

Quarterly monitoring reports for the Site have been prepared and submitted to the regulatory agencies and provided to the public since the initial site remediation report was prepared in 2004 through Q2 2012. Modification of the reporting frequency from quarterly to annual was approved by the NYSDEC in their letter dated August 22, 2012. The GM and OM&M data continues to be evaluated and submitted to the regulatory agencies on a quarterly basis; however, the data is interpreted for distribution annually.

Along with the requested reduction to the reporting frequency for the Site, reductions to the long-term groundwater and soil vapor monitoring programs, as well as the establishment of remediation system shutdown criteria, were also approved by NYSDEC. The specific objectives included:

- Criteria for future reductions in groundwater sampling based on analytical results,
- Analytical requirements for monitoring groundwater,
- Criteria for shutdown and removal of groundwater treatment systems,
- Reduction of soil vapor sampling, and
- Reduction of the frequency of the quarterly OM&M reporting cycle to annual.

The NYSDEC-approved criteria for the groundwater monitoring program for the Bay Shore/ Brightwaters Site are summarized as follows:

- Monitoring wells which meet ambient groundwater quality standards for Class GA groundwater for individual benzene, toluene, ethylbenzene and xylene (BTEX) and

polycyclic aromatic hydrocarbons (PAHs) compounds for four consecutive quarters can be reduced to annual sampling.

- For compounds with standards less than the analytical detection limits, individual BTEX or PAH compound concentrations must be reduced below detection limits for four consecutive quarters before annual sampling can be instituted.
- Monitoring wells that meet the above criteria for two consecutive years of annual sampling will be removed from the monitoring network.
- Quarterly sampling will resume at any wells where concentrations greater than 50 micrograms per liter (µg/L) of total BTEX or total PAHs are detected in annual sampling.
- Select monitoring wells associated with the ozone or oxygen injection treatment systems will continue to be monitored at least quarterly to evaluate system performance.
- A proposal to shut down an oxygen system may be considered when the groundwater quality of all monitoring wells located upgradient, as far as the next treatment system, and immediately downgradient of a treatment system, meet the sample reduction criteria noted above.
- A treatment system will be placed back into operation if the total BTEX or total PAH concentrations found in either upgradient or downgradient wells exceed 50 µg/L during any of the four quarterly sampling events.

Implementation of the monitoring reductions was initiated in Fourth Quarter (Q4) 2012. For this past annual monitoring period the annual and quarterly groundwater sampling lists have been reduced from the pre-reduction sampling lists by approximately 68% and 72%, respectively. The sample list is re-evaluated quarterly following the receipt of the most recent analytical results. Annual sampling is conducted during the second quarter of each year excluding 2020 due to COVID-19 work restrictions imposed by New York State. Soil vapor sampling has been eliminated from the program. A groundwater monitoring well tracking summary is provided in **Appendix A** for the quarterly sampling events included in this report (Q4 2020 through Q2 2021).

In accordance with the approved criteria listed above, two oxygen injection systems at the Site have been shut down and the associated injection and monitoring wells abandoned. A third system and a portion of a fourth system has also been shut down and are currently being monitored in accordance with the post-shutdown criteria.

In 2003, the Site was divided into four operable units (OUs) to more effectively manage investigation and remediation activities. The four OUs are shown on **Figure 1**. The groundwater monitoring results for all four OUs have been included in this report to present an overall picture of trends in groundwater quality. The groundwater trend analysis includes discussion of the effectiveness of the remedial activities which affect groundwater quality in the Upper Glacial aquifer.

GM and OM&M activities include monitoring groundwater, soil vapor, and ambient air, as well as maintenance and monitoring of the dense non-aqueous phase liquid (DNAPL) recovery and groundwater treatment systems. GM and OM&M results are presented in the following sections of the report:

- Section 2 – Remediation Systems
- Section 3 – Hydrogeologic Setting
- Section 4 – Groundwater Quality
- Section 5 – Future Plans

1.1 Background

The former MGP operations began in the late 1880s and continued into the 1970s. The remaining above-ground MGP facilities were demolished in 1973. Various remedial investigation activities have been completed at the Site. The results of the investigations and discussion of the Site history are presented in the Remedial Investigation Report (RIR) (Dvirka and Bartilucci Consulting Engineers [D&B], 2002) and the Final Remedial Investigation Report (D&B, 2003).

A Final Remedial Action Plan (RAP) for Operable Unit 1 (OU-1) was approved by the NYSDEC on August 9, 2004. The remedy currently being implemented at OU-1 is detailed in a document titled "Final Remedial Action Plan, Bay Shore Former MGP Site – Operable Unit-1, Bay Shore, New York" (Final RAP) prepared by GEI Consultants, Inc., P.C. (GEI) and dated August 2004. In addition to the remedial activities specified in the Final RAP, several interim remedial measures (IRMs) have been conducted since 1999 in OU-1, OU-2, OU-3, and OU-4. A summary of remedial activities conducted for each OU is presented below. These activities are presented by OU on **Figure 2**.

1.1.1 Operable Unit 1 (OU-1)

OU-1 consists of the Bay Shore Site, formerly the main operations area of the MGP, as well as properties immediately south of the Site which are currently owned by National Grid. **Table 1a**, below, summarizes the remedial actions, IRMs, and pilot studies that have been performed in OU-1.

Table 1a – Summary of OU-1 Remedial Activity

Date	OU-1 Remedial Activity	Comment
2004	In-Situ Chemical Oxidation (ISCO) Pilot Studies	Three pilot studies were conducted using Activated Persulfate, Modified Fenton's Reagent and Activated Fenton's Reagent (GEI, 2005).
2006-Present	DNAPL Recovery	A DNAPL recovery system was installed in the offsite area south of the Long Island Rail Road (LIRR) and was implemented as a portion of the Phase I Remedial Activities performed for implementation of the Final RAP (GEI, 2004a) and documented in the DNAPL Pump Test Letter Report (KeySpan, 2006).
2006	Surfactant-Enhanced In-Situ Chemical Oxidation (S-ISCO) Pilot Study	A pilot study was conducted using a surfactant to solubilize MGP-related impacts and Sodium Persulfate to oxidize those impacts (GEI, 2007a).

Date	OU-1 Remedial Activity	Comment
February-April 2007	OU-1 Southern Cell Excavation	The southern cell excavation was included in Phase I of the OU-1 remedy performed in accordance with the Final RAP. The results are provided in the Phase I and Phase II Remedial Activities, OU-1 Bay Shore Former MGP site, Final Completion Report (Paulus, Sokolowski and Sartor Engineering, PC [PS&S], 2009).
April 2007-May 2008	Subsurface Barrier Wall Installation	The barrier was installed as part of Phase I of the OU-1 remedy performed in accordance with the Final RAP. The final construction details are presented in the Final Completion Report (PS&S, 2009).
February 2008	Oxygen Injection System	An oxygen injection system was installed along the downgradient edge of OU-1 as an IRM to treat groundwater at the perforated portion of the subsurface barrier wall until startup of the full-scale groundwater treatment system was completed (KeySpan, 2007).
August 2007-August 2008	OU-1 Excavation North of the LIRR	The excavation north of the LIRR in OU-1 was performed as Phase II of the OU-1 remedy in accordance with the Final RAP. The final construction details are provided in the Final Completion Report (PS&S, 2009).
October 2009	Ozone Groundwater Treatment System	The installation of the ozone injection groundwater treatment system was performed as Phase IA of the OU-1 remedy (GEI, 2009b) in accordance with the Final RAP (GEI, 2004a).
March-April 2009	66 North Clinton Avenue Excavation	Shallow MGP-impacted soils located outside of the subsurface barrier wall in the western fringe area were removed to approximately 10 feet below ground surface (bgs) as part of Phase IV of the OU-1 remedy (GEI, 2010a) in accordance with the Final RAP (GEI, 2004a).
January 2010	60/66 North Clinton Avenue Oxygen Injection System	The system was installed as part of Phase IV of the OU-1 remedy to treat groundwater west of the barrier wall (GEI, 2010a).
June 2011	OU-1 Oxygen Injection System Extension	The OU-1 Union Boulevard system was extended in accordance with the OU-2 Remedial Design Document (GEI, 2009a) to treat impacted groundwater east of the subsurface barrier wall.
August-2011	TarGOST® Study	This investigation was performed to delineate potential recoverable non-aqueous phase liquid (NAPL) in OU-1, North and South of the LIRR in order to locate additional recovery wells.
October 2011	Recovery Well Installations (19 temporary & 1 permanent)	These wells were installed following a TarGOST® study. Following DNAPL gauging, bailing and recovery rate testing of wells with measurable DNAPL, one additional permanent recovery well installed.
February 2012	Temporary Recovery Well Abandonment and Recovery Well Installation	The temporary recovery wells with no measurable level of NAPL were abandoned and one permanent recovery well was installed.
October 2013	OU-1 North Oxygen Injection System Installation	The system was installed to treat impacted groundwater in the eastern portion of OU-1.
October 2013	Oxygen Injection System Modifications	The Union Boulevard oxygen injection system was modified to treat lingering impacts in the area. The 60/66 North Clinton Avenue oxygen injection system was relocated to the northern property boundary to facilitate potential redevelopment of the property. The southern portion of the treatment line was kept active to ensure no gaps in groundwater treatment. The system was also modified to treat groundwater impacts inside of the western portion of the subsurface barrier wall.
June 2015	Oxygen Injection System Modifications	The Union Boulevard oxygen injection system was modified to include treatment both upgradient and downgradient of the barrier wall beneath North Clinton Avenue. Additional deep injection wells were also installed to treat deep impacts. Construction was completed in July 2015.

1.1.2 Operable Unit 2 (OU-2)

OU-2 consists of the groundwater plume which extends south/southeast from OU-1. The NYSDEC issued a Voluntary Cleanup Program Decision Document for OU-2 in July of 2008. This

document specified the installation of a minimum of three oxygen injection systems as the selected remedy for OU-2. A summary of the system installation and IRMs completed in OU-2 is presented in **Table 1b**, below.

Table 1b – Summary of OU-2 Remedial Activity

Date	OU-2 Remedial Activity	Comment
December-2005	Oxygen Injection IRM	The Garner Lane oxygen injection system treats groundwater prior to discharge to Lawrence Creek. The system is comprised of two injection lines located along Montauk Highway and at the intersection of Manatuck Lane and Garner Lane (GEI, 2006).
May-July 2007	Hydrologic Study	An investigation to further evaluate groundwater conditions in the vicinity of the Garner Lane oxygen Injection system and to validate the observed decreases in MGP related contaminants in groundwater in the vicinity of the Montauk Highway and Manatuck Lane treatment lines (GEI, 2007b).
January-November-2009	Groundwater Treatment Remedy (Installation and operation of the 9 North Clinton Avenue, 33 North Clinton Avenue, 34 North Clinton Avenue, Plume Tail, and Cooper Lane oxygen injection systems/treatment lines)	In accordance with the Voluntary Clean-up Program Decision Document (NYSDEC, 2008) and the OU-2 Remedial Design Document (GEI, 2009a), three additional groundwater treatment systems utilizing the oxygen injection technology were installed within the OU-2 groundwater plume (GEI, 2010d).
June 2011	Additional Oxygen Injection System Installation (29 Community Road Oxygen Injection System)	The 29 Community Road oxygen injection system treats impacted groundwater along the western extent of OU-2. The system was installed as an addendum to the OU-2 Remedial Design Document (GEI, 2009a).
October 2013	Oxygen Injection System Modifications	The 33 North Clinton Avenue and Montauk Highway oxygen injection systems were modified to target remaining impacted zones.
November 2013	Oxygen Release Compound - Advanced (ORC-A) Injection Program	A targeted ORC-A injection program was conducted to treat impacts downgradient of the subsurface barrier wall.

1.1.3 Operable Unit 3 (OU-3)

OU-3 consists of the Brightwaters Yard, which is currently owned by National Grid, and the groundwater plume that extends south/southeast from the Brightwaters Yard into the LIRR Right-of-Way (ROW). A summary of the IRMs completed in OU-3 is presented in **Table 1c**, below.

Table 1c – Summary of OU-3 Remedial Activity

Date	OU-3 Remedial Activity	Comment
2000	Groundwater Treatment IRM	An oxygen injection system was installed at the intersection of Union Boulevard and Lanier Lane to reduce the concentrations of MGP-related contaminants in groundwater prior to discharge into O-Co-Nee Pond (Foster Wheeler Environmental Corporation [FW], 2000).
May 2001, September 2001-October 2004	ISCO IRMs	Three rounds of ISCO by In-Situ Oxidative Technologies, Inc. (ISOTEC) were used to treat the Brightwaters Yard groundwater plume source area (FW, 2000).
May-July 2004	Excavation IRM	A source area excavation was effective in removing 1,500 tons of source contaminated soils (PS&S, 2005).
2004	Groundwater Treatment IRM	The Brightwaters Yard oxygen injection system was installed to reduce the concentrations of MGP-related contaminants in groundwater leaving the OU-3 site boundary (PS&S, 2004).

Date	OU-3 Remedial Activity	Comment
2008	Storm Sewer Rehabilitation IRM	Sections of the storm water collection network located within OU-3 were rehabilitated. This included the replacement of catch basins and the cured in-place lining of drainage piping (GEI, 2010b)
July 2009	Brightwaters Yard Oxygen Injection System Abandonment	The Brightwaters Yard system was abandoned in support of the LIRR Excavation IRM (National Grid, 2010).
February 2010 (Phase I completed) July 2010 (Phase II completed) September 2010 (Phase III completed)	LIRR Excavation/Temporary Track Relocation IRM	Source material was removed from the OU-3 Brightwaters Yard and under the adjacent LIRR property (GEI, 2012c).
April 2010	Community Road Oxygen Injection Line	This treatment line was installed to replace the OU-3 Union Boulevard oxygen injection system (GEI, 2010a).
July 2010	OU-3 Union Boulevard Oxygen Injection System Abandonment	The system was abandoned to limit the amount of remedial equipment within the community. The Community Road oxygen injection line was installed to replace this system (National Grid, 2010).
March 2012	OU-3 Community Road Oxygen Injection Line Reconfiguration	This treatment line was reconfigured to optimize the treatment of impacted groundwater in OU-3 (National Grid, 2011).
March 2013/August 2013/January 2015	ORC-Advanced Injection Program	A targeted ORC-A injection program was conducted to treat downgradient impacts (National Grid, 2013).
September 2013	87 Community Road Oxygen Injection System Installation	Installed to treat impacted groundwater in OU-3, south of the LIRR right-of-way (ROW). (GEI 2016)
July 2015	87 Community Road Oxygen Injection System Expansion	Additional injection wells within the LIRR excavation sheeting cells were added to the 87 Community Road oxygen injection system. The system modification was completed in July 2015. (GEI 2016)
December 2019	ORC-Advanced Injection Program	A targeted ORC-A injection program was conducted to treat remaining groundwater impacts on the downgradient property boundary of the Brightwaters Yard and within the northern sheeting cells in the LIRR ROW. (National Grid, 2020)

1.1.4 Operable Unit 4 (OU-4)

OU-4 consists of a former cesspool area, former pond area, and the headwaters of Watchogue Creek/Crum's Brook, located approximately 400 feet east of the Bay Shore Site. A summary of the IRMs completed in OU-4 is presented in **Table 1d**, below.

Table 1d – Summary of OU-4 Remedial Activity

Date	OU-4 Remedial Activity	Comment
2000	Restoration of Watchogue Creek/Crum's Brook	Sediments were removed, and the channel was restored (FW, 2002).
November 2005	Cesspool Excavation IRM	The former cesspool shallow impacted soils (vadose zone soils) were removed and treated offsite as part of an IRM (GEI, 2010c).
April-December 2009	Surfactant Enhanced In-Situ Chemical Oxidation (S-ISCO) IRM	S-ISCO was implemented in accordance with the NYSDEC-approved OU-4 Cesspool Area S-ISCO Work Plan (VeruTEK, 2008) and associated addendums (GEI 2013)
April-August 2011	Cesspool Area and Pond Area Excavation IRM	Mobilization and initiation of the OU-4 Upgradient Excavation was completed in Q1 2011, monitoring well abandonment and the Cesspool Area excavation were completed July 2011, and Pond Area excavation completed August 2011 (GEI 2013).

2. Remediation Systems

Groundwater remedial systems currently in operation at the Site include DNAPL recovery, an ozone injection system, and seven oxygen injection systems. The soil vapor extraction (SVE) system associated with the ozone injection system was shut down on September 25, 2019, in accordance with the NYSDEC-approved SVE System shutdown plan (GEI 2018). Two oxygen injection systems (29 Community Road and Plume Tail) were shut down on March 26, 2015, in accordance with the NYSDEC-approved remediation system shutdown criteria. The Plume Tail system and the 29 Community Road system were removed from the site in June 2017 and June 2019, respectively. The oxygen injection lines, injection wells and monitoring wells associated with these systems were abandoned in June 2019. The Manatuck Lane portion of the Garner Lane oxygen injection system was shut down in May 2019. Additionally, the 9 North Clinton Avenue oxygen injection system was operational through the reporting period but was shut down in August 2021 with NYSDEC approval. Post shutdown monitoring of wells in the area of the system has commenced. A description of each system, the quarterly monitoring activities, and operational data are presented in the sections below. The location of all remedial activities performed at the site is provided on **Figure 2**.

2.1 OU-1 DNAPL Recovery System and NAPL Monitoring

2.1.1 Program Scope and Purpose

A DNAPL recovery system was installed at recovery well BBRW-02 in January 2006. The location of BBRW-02 is shown on **Figure 1**. The DNAPL recovery system consists of a Blackhawk Electric Anchor Piston Pump which pumps DNAPL from BBRW-02 and discharges it to a United States Department of Transportation/United Nations approved 55-gallon steel drum. The DNAPL recovery system is currently operated approximately once every four weeks as of Q2 2011. The recovery schedule is evaluated annually and is adjusted to maximize the amount of DNAPL recovered while minimizing the amount of water generated per operation.

In addition to the DNAPL recovery operations, OU-1 monitoring, and recovery wells are gauged quarterly for the presence of light non-aqueous phase liquid (LNAPL) and DNAPL.

2.1.2 OU-1 NAPL Monitoring Data

2.1.2.1 DNAPL Monitoring

DNAPL has historically been observed in OU-1 at wells BBRW-01R, BBRW-02, BBRW-06, BBRW-08, BBMW-05D, BBMW-22D, BBMW-34I2, BBMW-38I, BBMW-38I2, OZMW-21I, OZMW-21D, as well as in temporary recovery wells TG-29I2, TG-32I2, TG-32D, and TG-44I2 (**Figure 1**). DNAPL thicknesses in OU-1 wells have remained generally consistent with previous monitoring data as shown in **Table 2a**, below. DNAPL monitoring was not conducted during Q2 2020 due to COVID-19 work restrictions.

Table 2a – Summary of Measured DNAPL Thickness

Well ID	Screen Interval	Average DNAPL Thickness (feet)							
		Q3 19	Q4 19	Q1 20	Q2 20	Q3 20	Q4 20	Q1 21	Q2 21
BBRW-01R	30-60	0.65	0.66	0.64	NG	0.62	0.70	0.68	0.65*
BBRW-02	58.2-78.2	7.5	5.10	4.91	NG	7.76	6.80	6.83	5.98
BBRW-05	64-74	0.02	0.17	NO	NG	NO	NO	NO	NO*
BBRW-06	25-55	1.63	1.62	1.62	NG	1.54	1.65	1.59	1.70
BBRW-08	65-75	2.41	2.59	1.17	NG	2.14	2.10	2.18	1.85*
BBRW-09	66-76	NO	NO	NO	NG	NO	NO	NO	NO
BBMW-22D	64-74	4.68	4.65	4.72	NG	4.61	4.41	4.58	4.11*
BBMW-34I2	40-45	0.3	1.42	1.26	NG	1.28	1.21	1.32	1.33
BBMW-38I	25-30	1.27	1.39	1.68	NG	1.06	1.13	1.35	1.27
BBMW-38I2	40-45	0.7	1.02	1.27	NG	0.96	0.97	0.97	1.47
OZMW-21I	20-30	1.95	2.17	1.94	NG	1.94	1.96	1.98	2.05
OZMW-21D	55-60	2.8	3.09	2.97	NG	2.80	2.84	2.87	2.97
TG-29I2	55-65	NO	NO	NO	NG	NO	NO	NO	NO
TG-32I2	40-50	4.78	5.15	4.70	NG	4.51	4.40	4.53	4.43
TG-32D	65-75	1.42	1.7	1.42	NG	1.48	1.61	1.50	1.69*
TG-44I2	55-60	2.79	3.12	2.85	NG	2.97	3.07	2.98	3.52*

Notes:

NO – Not Observed

NG – Not Gauged

Historically, DNAPL was observed at recovery well BBRW-01. This well has been abandoned. BBRW-01R was installed adjacent to the original BBRW-01 location.

BBMW-22D is located within 15 feet of BBRW-02. DNAPL thickness at this well is influenced by pumping operations at BBRW-02. DNAPL is not recovered at BBMW-22D.

*:value from Q3 2021

2.1.2.2 LNAPL Monitoring

Historically, LNAPL has been observed in OU-1 in monitoring wells BBMW-34I, BBMW-38I, BBMW-38D, OZMW-21S, and OZMW-25I. LNAPL has not been observed at BBMW-34I and OZMW-25I since Q3 2011 and Q4 2015, respectively. LNAPL was observed for the first time in BBMW-38I and BBMW-38D in Q3 2015 and Q4 2015, respectively, and has not been observed in either well since. LNAPL was observed in OZMW-21S during the reporting period and has historically have been observed sporadically with thicknesses of up to 2.2 feet. A summary of recently measured LNAPL thicknesses is included in **Table 2b**, below.

Table 2b – Summary of Measured LNAPL Thickness

Well ID	Screen Interval	Average LNAPL Thickness (feet)						
		Q3 19	Q4 19	Q1 20	Q3 20	Q4 120	Q1 21	Q2 21
BBMW-34I	25-30	NO	NO	NO	NO	NO	NO	NO
BBMW-38I	25-30	NO	NO	NO	NO	NO	NO	NO
BBMW-38D	65-70	NO	NO	NO	NO	NO	NO	NO

Well ID	Screen Interval	Average LNAPL Thickness (feet)						
		Q3 19	Q4 19	Q1 20	Q3 20	Q4 120	Q1 21	Q2 21
OZMW-21S	5-15	NO	NO	0.9	0.21	sheen	sheen	0.1*
OZMW-25I	20-30	NO	NO	NO	NO	NO	NO	NO

Notes: NO – Not Observed
- – Not Gauged
*: value from Q3 2021

2.1.3 OU-1 DNAPL Recovery Data

2.1.3.1 DNAPL Recovery

Approximately 673 gallons of DNAPL have been recovered from BBRW-02 since the beginning of the recovery operations in First Quarter (Q1) 2006. Approximately 20 gallons were removed between Q3 2019 and Q3 2020. The pump malfunctioned during the January and February 2021 recovery events and was repaired in March 2021. A summary of the recovery operations is provided in **Table 2c**, below.

Table 2c – Summary of DNAPL Removal for Recovery Well BBRW-02

Time Period		Approximate DNAPL Thickness (feet)		Approximate DNAPL Removed
		Initial	Final	(Gallons)
Q1 2006 through Q3 2020		-	-	653.86
Q4 2020	10/08/2020	7.8	4.1	5.40
	11/06/2020	6.4	4.1	3.30
	12/28/2020	6.6	4.0	3.82
Q1 2021	01/15/2021	NM	NM	0.00
	02/15/2021	NM	NM	0.00
	03/19/2021	4.9	4.2	0.94
Q2 2021	04/22/2021	5.8	4.7	1.62
	05/21/2021	7.9	4.9	4.33
	06/15/2021	NM	NM	0.00
Totals	Q4 2020 – Q2 2021	-	-	19.42
	To Date	-	-	673.28

Notes:
NAPL measurements were made using a dedicated weighted measuring tape. The smear of DNAPL on the tape is measured to determine DNAPL thickness.
Total volume is calculated by multiplying the thickness by the cross-sectional area of the well. This is an estimate of the minimum volume removed.

Historical trends of DNAPL recovery, initial DNAPL thickness (measured prior to operation), and final DNAPL thickness (measured post operation), are shown on **Figure 3**. Apparent trends, related to DNAPL recovery, for the past five quarters are:

- The initial DNAPL thickness was observed between approximately 4.9 and 7.9 feet between Q4 2020 and Q2 2021. Initial thicknesses have been varied in recent events, and a more significant decreasing trend is evident in comparison to historical thicknesses.
- During the past year, product recovery ranged from approximately 0.94 to 5.40 gallons and averaged approximately 3.2 gallons per event. This is an increase over the previous year's average recovery amounts of approximately 2.5 gallons per event.

2.2 OU-1 Ozone Groundwater Treatment System

2.2.1 Program Scope and Purpose

A groundwater treatment system was installed at the downgradient edge of OU-1 at 61 North Clinton Avenue. The treatment system consists of an ozone injection system and SVE system. The ozone injection system was installed to reduce concentrations of dissolved phase constituents of concern (COCs) prior to passing through the perforated section of the subsurface barrier wall. The barrier wall is located at the downgradient boundary of OU-1 and extends through the Upper Glacial aquifer to approximately 70 feet bgs. The 190-foot long perforated section is located parallel to Union Boulevard and extends from a depth of approximately 10 to 40 feet bgs. This perforated zone creates a window where groundwater is discharged from OU-1 to OU-2 after being treated by the ozone injection. The ozone injection system injects an air-ozone mixture at a maximum concentration of 3 percent ozone into the groundwater to destroy contaminants through in-situ chemical oxidation. The location of the groundwater treatment system and subsurface barrier wall are depicted on **Figure 1**.

Permission to shut down the SVE portion of the system and cease sampling of the SVE effluent was granted by NYSDEC in July 2018, and the SVE system was shut down on September 25, 2019. Sampling of downgradient soil vapor and site ambient air was conducted for 3 months and ozone concentrations within the SVE piping will be monitored annually following the system shut down per the NYSDEC approval. The SVE system will remain in place and in operational condition.

The groundwater treatment building houses the equipment used to generate the ozone gas from fresh air, as well as the SVE equipment, carbon vessels, and an ozone destruction unit. The treatment zone, located south of the groundwater treatment building, consists of 63 ozone injection wells that are screened at 2-foot intervals between 27 and 50 feet bgs, and 11 horizontal SVE laterals.

The treatment system began operation in October 2009. Between Q4 2020 and Q2 2021, the average ozone/air mixture injected was approximately 1.5 percent ozone and 98.5 percent air.

2.2.2 Current Monitoring Activities

The monitoring and operation activities performed during the past five quarters for the ozone groundwater treatment system are summarized in **Table 2d**, below.

Table 2d – Current Ozone System Site Activity

Activity	Task Description	Frequency	Location of Results
Ozone System Monitoring	Routine inspection and maintenance of the system components, monitoring of operational parameters, and recording/adjusting of the injected ozone concentrations.	Weekly	Details are recorded on field logs and are not provided in this report.
SVE System Monitoring	Inspection and maintenance of the system components, recording of operational parameters, and screening of the SVE effluent.	Weekly (prior to shut down)	Details are recorded on field logs and are not provided in this report.
	Monitoring of SVE manifold to confirm a continued lack of excess ozone in the subsurface after the system is shutdown. Maintaining the SVE system in "ready" position so that it can be activated, if needed.	Annually	Details are recorded on field logs and are not provided in this report.
System Performance Monitoring	Monitoring total benzene, toluene, ethylbenzene, and xylene (BTEX) and total polycyclic aromatic hydrocarbon (PAH) concentrations downgradient well clusters OZMW-23 and OZMW-24.	Quarterly	Figure 4, Section 4, Table 4-1, Table 4-2

2.2.3 Ozone Injection System OM&M Data

2.2.3.1 Groundwater

The ozone injection system has been effective at reducing total BTEX and total PAH concentrations in groundwater. The ozone injection system treats groundwater prior to passing through the perforated window of the subsurface barrier wall, from 10 to 40 feet bgs. The reduction of total BTEX and total PAH concentrations are shown in the shallow and intermediate zones of the time series graphs of OZMW-23 and OZMW-24 on **Figure 4**. These monitoring well clusters are located downgradient of the system and upgradient of the subsurface barrier wall. Elevated total PAH concentrations remain in OZMW-24I2 and OZMW-24D; however, the detections remained within their respective historical concentration range during the annual monitoring period. Total BTEX concentrations in these wells were also elevated but were lower than the corresponding total PAH concentrations. Groundwater passing through the perforated section of the subsurface barrier wall is also treated by the OU-1 Union Boulevard oxygen injection system. Groundwater quality trends are discussed further in Section 4.

2.2.3.2 Ozone Injection System

An average of approximately 11.5 pounds of ozone were injected each day between Q4 2020 and Q2 2021. The ozone groundwater treatment system was in operation for 268 out of 273 days (98%) in the past three quarters.

- Q4 2020 – The system was operational for 87 out of 92 possible days. System operation was interrupted due to repairs and biannual maintenance.
- Q1 2021 – The system was operational for 90 out of 90 possible days.
- Q2 2021 – The system was operational for 91 out of 91 possible days.

2.2.3.3 SVE System Monitoring

On July 11, 2018, the NYSDEC approved discontinuing operation of the SVE portion of the system. As a result, sampling of the SVE discharge was discontinued. Annual monitoring of the SVE manifold was conducted during Q4 2020 concurrent with system annual maintenance and confirmed that no ozone was detected in the vadose zone.

The system was shut down on September 25, 2019 and sampling of downgradient soil vapor and site ambient air was conducted for three months (October through December 2019) following the system shut down per the NYSDEC approval. Based on the consistency of the data post SVE system shutdown, soil vapor and ambient air sampling was discontinued following the Q4 2019 sampling events.

2.3 Oxygen Injection Systems

2.3.1 Program Scope and Purpose

Eight oxygen injection systems were in operation at the Site during the reporting period. Two systems have been shut down based on NYSDEC-approved criteria. The shutdown of the 9 North Clinton Avenue oxygen injection system was performed after the current reporting period (August 2021) following approval from NYSDEC. The oxygen injection systems generate and inject oxygen into the subsurface to create an aerobic environment which facilitates the bioremediation of the dissolved MGP-related contaminants. Oxygen injection is used to treat impacted groundwater within OU-1, OU-2, and OU-3. The 10 system locations, active, inactive and recently removed, are shown on **Figure 1** and presented in **Table 2e,** below.

Table 2e – Oxygen Injection System Summary

Operable Unit	Oxygen Injection System Designation	Operation Start Date	Shut Down Date	System Description
OU-1	OU-1 Union Boulevard Oxygen Injection System	Feb. 2008	NA	Used to treat groundwater as it passes through the perforated portion of the subsurface barrier wall. Initially installed to provide temporary treatment during the construction and startup of the ozone injection system. NYSDEC had requested that the system remain online following the installation of the ozone injection system. The system was modified during Q4 2013 to target areas of remaining impacts. Additional injection wells beneath North Clinton Avenue, upgradient and downgradient of the barrier wall, were installed during Q3 2015.
	60/66 N. Clinton Ave Oxygen Injection System	Jan. 27, 2010	NA	Installed as part of the Phase IV Remedial Action to treat impacted groundwater west of the barrier wall in OU-1.
	OU-1 Union Boulevard Extension	Jun. 16, 2011	NA	Extension of the OU-1 Union Boulevard system installed to comply with the requirement of the OU-2 Remedial Decision Document issued by the NYSDEC in 2008. The system treats impacts east of the subsurface barrier wall.
	OU-1 North Oxygen Injection System	Oct. 28, 2013	NA	Installed to treat impacted groundwater in the eastern portion of OU-1.

Operable Unit	Oxygen Injection System Designation	Operation Start Date	Shut Down Date	System Description
OU-2	Garner Lane (Montauk Highway and Manatuck Lane) Oxygen Injection Lines	Dec. 28, 2005	NA (Montauk Hwy) May 10, 2019 (Manatuck)	Installed as part of an Interim Remedial Measure in OU-2 to treat groundwater prior to discharge to Lawrence Creek. The system is comprised of two injection lines located along Montauk Highway and at the intersection of Manatuck Lane and Garner Lane. The Montauk Highway line was modified during Q4 2013 to target areas of remaining impacts. The Manatuck Lane oxygen injection line was shut down in May 2019.
	34 N. Clinton Ave Oxygen Injection Line	Jan. 20, 2009	NA	Installed to comply with the requirement of the OU-2 Remedial Decision Document issued by the NYSDEC in 2008. These systems treat groundwater at three transects in the middle of OU-2. The 33 North Clinton Avenue line was modified during Q4 2013 to target areas of remaining impacts. The 9 North Clinton Avenue system was shut down after the conclusion of the current reporting period (August 2021).
	9 N. Clinton Ave Oxygen Injection Line	Feb. 16, 2009	NA	
	33 N. Clinton Ave/Cooper Lane Oxygen Injection Line	Mar. 31, 2009/ Nov. 16, 2009	NA	
	Plume Tail Oxygen Injection System	Aug. 17, 2009	Mar. 26, 2015	Installed to treat groundwater prior to discharging into Lawrence Creek. System shut down on March 26, 2015 and removed in June 2017. Associated injection and monitoring wells were abandoned in June 2019.
	29 Community Road	Jun. 14, 2011	Mar. 26, 2016	Installed to treat the western extent of the OU-2 groundwater plume that was delineated in the 2010 Pre-Design Investigation. System shut down on March 26, 2015. The system was removed, and associated injection and monitoring wells were abandoned in June 2019.
OU-3	Community Road Oxygen Injection Line	Apr. 6, 2010	NA	Installed to replace the former Union Boulevard and Brightwaters Yard systems. This treatment line is supplied by the 60/66 North Clinton Avenue oxygen injection system located within OU-1. This system was reconfigured in March 2012 to more effectively distribute oxygen to impacted areas.
	87 Community Road	Sep. 26, 2013	NA	Installed to treat impacted groundwater in OU-3, south of the LIRR ROW. Additional injection wells were installed within the sheeting cells in the LIRR ROW during Q3 2015.

NA – Not applicable

2.3.2 Current Monitoring Activities

The oxygen injection system monitoring activities are summarized in **Table 2f**, below.

Table 2f – Summary of Oxygen Injection System OM&M Activity

Current Activity	Description	Frequency	Location of Results
Oxygen System Monitoring	Routine inspection and maintenance of the system components, monitoring of operational parameters, and recording/adjusting of the injection flow rates.	Monthly	Appendix B, C, & D
	Monitoring of oxygen purity.	Monthly	Appendix B, C, & D
Performance Monitoring of Oxygen Injection Systems	Monitoring of total BTEX and total PAH concentrations in groundwater at upgradient and downgradient wells.	Quarterly	Section 4, Figures 4, 5 & 6
	Monitoring of groundwater chemistry parameters.	Quarterly	Appendix E

2.3.3 Oxygen Injection System OM&M Data

2.3.3.1 System Operational Data

Approximately 313,693 pounds of oxygen were injected into OU-1, OU-2, and OU-3 from Q4 2020 through Q2 2021. Overall, the systems were operational 89% of the time during the annual period. Several of the oxygen injection systems experienced some downtime during the past three quarters. The downtime was due to power outages, scheduled maintenance, and mechanical issues. The mechanical issues causing the most downtime was experienced at the 60/66 North Clinton Avenue, 33 North Clinton Avenue and Garner Lane oxygen injection systems. The mechanical issues primarily included problems with the compressor motors, oxygen generators, booster pumps, and electrical issues. In each case, the equipment was either repaired or replaced, as appropriate. As previously discussed, the 29 Community Road and Plume Tail oxygen injection systems were shut down on March 26, 2015 and the Manatuck Lane portion of the Garner Lane oxygen injection system was shut down on May 10, 2019. Injected oxygen weights are calculated in OU-1, OU-2, and OU-3 systems, **Appendices B, C,** and **D** respectively. Injected oxygen weight and system operational data are summarized in **Table 2g**, below.

Table 2g – Oxygen Injection Systems Operations Data

Operable Unit	Oxygen Injection System/Treatment Line	System Operational Time % (Q4 2020-Q2 2021)	Weight of Oxygen Injected (pounds)			Total Weight of Oxygen Injected Through Q2 2021 (Pounds)
			Q4 2020	Q1 2021	Q2 2021	
OU-1	OU-1 Union Boulevard and Extension	98.5%	14,204	13,932	15,273	759,022
	60/66 N. Clinton (O_2 to OU-1)	73.6%	8,279	13,383	6,921	360,744
	OU-1 North	100.0%	8,802	10,741	10,266	301,966
OU-2	Garner Lane	91.6%	6,645	10,653	8,834	1,295,494
	9 N. Clinton	99.3%	9,811	9,846	10,289	622,355
	34 N. Clinton	98.2%	14,285	17,532	15,439	823,317
	33 N. Clinton/Cooper Lane	76.9%	7,062	16,169	19,436	862,634
OU-3	Community Road (60/66 N. Clinton [O_2 to OU-3])	73.6%	10,807	16,190	5,289	691,128
	87 Community Road	92.7%	9,727	11,307	12,570	389,868

2.3.3.2 Groundwater Parameters

The oxygen injection systems have significantly increased both dissolved oxygen (DO) concentrations and oxidation reduction potential (ORP) in groundwater. Concentrations of DO are summarized in **Table 2h**. **Table 2i** summarizes ORP values. **Appendix E** contains historical groundwater parameters including DO, ORP, pH, conductivity, and temperature for site wells.

Table 2h – Summary of Dissolved Oxygen (DO) Concentrations

Operable Unit	Groundwater Interval	DO Concentrations (mg/L)			Downgradient Monitoring Wells
		Baseline Average	Historical Average	Q4 2020 – Q2 2021 Average	
OU-1	Shallow (0-10')	12.5	20.9	19.7	OZMW-16, OZMW-17, OZMW-18, OU2MW-50, OU2MW-57
	Intermediate (10-50')	7.0	16.3	15.7	
	Deep (50'+)	0.1	6.2	9.5	
OU-2	Shallow (0-10')	5.4	24.1	11.6	OU2MW-02, OU2MW-19, OU2MW-30, OU2MW-39, OU2MW-47, OU2MW-55
	Intermediate (10-50')	3.0	24.9	16.7	
	Deep (50'+)	5.0	13.0	9.5	
OU-3	Shallow (0-10')	9.9	9.4	11.7	OU3MW-07, 19, 20, IO-10, MW-34, MW-46WR, MW-70/70S
	Intermediate (10-50')	2.4	13.7	10.4	

Notes:
mg/L – milligrams per liter
‘ – feet

Table 2i – Summary of Oxidation Reduction Potential (ORP) Values

Operable Unit	Groundwater Interval	ORP Values (mV)			Downgradient Monitoring Wells
		Baseline Average	Historical Average	Q4 2020 – Q2 2021 Average	
OU-1	Shallow (0-10')	29	142	157	OZMW-16, OZMW-17, OZMW-18, OU2MW-50, OU2MW-57
	Intermediate (10-50')	63	175	200	
	Deep (50'+)	0	89	110	
OU-2	Shallow (0-10')	51	223	246	OU2MW-02, OU2MW-19, OU2MW-30, OU2MW-39, OU2MW-47, OU2MW-55
	Intermediate (10-50')	3	188	225	
	Deep (50'+)	50	138	161	
OU-3	Shallow (0-10')	-4	46	128	OU3MW-07, 19, 20, IO-10, MW-34, MW-46WR, MW-70/70S
	Intermediate (10-50')	20	169	207	

Notes:
mV - millivolt
‘ - feet

Specific trends in DO and OPR values are presented below:

- Although lower than the historical averages in select areas and intervals, DO concentrations in shallow and intermediate groundwater in OU-1, OU-2 and OU-3 and deep groundwater in OU-1 and OU-2 have remained significantly above baseline values

collected prior to system startup and have remained elevated during the current reporting period.

- ORP values in shallow and intermediate groundwater in OU-1, OU-2 and OU-3 and deep groundwater in OU-1 and OU-2 have increased significantly above baseline values collected prior to system startup and have remained elevated during the current reporting period.

2.3.3.3 Total BTEX and Total PAH Concentrations

Significant reductions in total BTEX and total PAH concentrations have been observed since the startup of the oxygen injection systems. This is discussed in detail in Section 4. Total BTEX and total PAH concentrations compared to DO concentrations at monitoring wells downgradient of each treatment area are depicted on **Figures 4, 5** and **6**.

3. Hydrogeologic Setting

This section presents a summary of the scope of work performed for the groundwater elevation monitoring program, the hydrogeologic setting, and the resultant groundwater elevation and groundwater flow direction data for each of the site's OUs.

3.1 Scope of Groundwater Level Monitoring Program

Groundwater level monitoring is conducted annually at the individual site OUs (OU-1, OU-2, OU-3 and OU-4) and offsite to determine the groundwater elevations and resultant groundwater flow regimes at these areas. This information aids in monitoring and evaluating the effectiveness of remedial activities and is used in remedy planning. The groundwater well locations and geographic boundaries of the OUs are depicted on **Figure 1**.

Depth to groundwater measurements were collected from a total of 310 wells and 5 surface water measurements from gauging stations in Q2 2021. The distribution of these wells for each of the operable units consisted of 80, 136, 66 and 28 monitoring wells from within and in the vicinity of OU-1, OU-2, OU-3, and OU-4, respectively. The surface water elevations were obtained from surface water gauges located within OU-2 at Lawrence Lake (BBSW-07) and Lawrence Creek (OU2SW-01 and BBSW-06), in OU-3 from a surface water gauge located within the headwaters of O-Co-Nee Pond (BBSW-13), and in OU-4 from a surface water gauge located in Watchogue Creek (a.k.a., Crum's Brook) at Union Boulevard (BBSW-14). The depth to groundwater and surface water elevation measurements were collected from June 29 through July 1, 2021.

The depth to groundwater and groundwater elevation data for the Site and offsite areas are provided in **Tables 3-1** through **3-8** and on **Figures 7** through **9**. The elevation data presented in the tables and figures is in reference to the North American Vertical Datum (NAVD) 88 datum. All historical groundwater elevation data, collected prior to November 2007, has been recalculated based on the November 2007 or subsequent survey data, and the NAVD 88 datum.

3.2 Hydrogeology

The Upper Glacial, Magothy, and Lloyd represent Long Island's three major aquifers. The Upper Glacial aquifer is a water table aquifer and is the primary aquifer of concern at the site. The Upper Glacial aquifer occurs in moderate to highly permeable glacial outwash deposits consisting mainly of inter-bedded layers of permeable sand and gravel, and less permeable layers of silty sand. Low permeability zones define the boundary between the Upper Glacial and Magothy aquifers in the vicinity of the site. The Upper Glacial aquifer is approximately 70 feet thick at the site and the water table is present within the upper 10 feet of the aquifer. The Upper Glacial aquifer is not used as a source of potable water at or downgradient of the site.

3.3 Groundwater Elevation and Flow

As depicted on **Figures 7** through **9,** the groundwater flow direction throughout the Site is generally towards the south/southeast. The data provided on **Figures 8** and **9** indicate that the shallow and deep groundwater elevations and groundwater flow directions are generally similar.

Figure 10 includes hydrographs depicting the historical groundwater elevations for the period beginning in Q2 2002 through the current monitoring period (Q2 2021). The groundwater elevations are presented for select sitewide shallow, intermediate, and deep wells. Minimum and maximum historical values are summarized in **Table 3a** below.

Table 3a – Summary of Historical Groundwater Elevations

Groundwater Depth Zone	Minimum Water Level Elevation			Maximum Water Level Elevation		
	Value*	Monitoring Well	Date	Value*	Monitoring Well	Date
Shallow	9.41	BBMW-24S	Q3 2007	18.00	MW-09S	Q2 2010
Intermediate	9.44	BBMW-24I	Q3 2007	18.02	MW-09I	Q2 2010
Deep	9.44	BBMW-24D	Q3 2007	16.40	BBMW-05D	Q2 2010

Note:
Feet above mean sea level (NAVD 88)

The hydrographs show regular seasonal variations in groundwater elevation throughout all screen intervals. Q2 2021 values are lower than average values for the historical monitoring period, but slightly higher than the previous monitoring event.

4. Groundwater Quality

In general, the OU-1/OU-2 and OU-3 areas of MGP-impacted groundwater (concentrations of total BTEX and total PAH equal to or greater than 100 µg/L) have significantly been reduced in size and concentration since the implementation of remedial activities. These reductions have been occurring since the installation of the barrier wall in OU-1, source area excavations, the operation of the ozone and oxygen injection treatment systems, and other remedial activities. The remedial activity including the start-up and operation of the remedial systems was largely completed by 2009. In areas where elevated concentrations had persisted, additional remedial measures have been undertaken.

The significant reductions that have been evident since 2009 include the elimination of shallow and intermediate impacts in OU-2, excluding one shallow well near the OU-1/OU-2 boundary. The impacts in the intermediate zone of OU-2 were historically present from the source area in OU-1 and extended approximately 2,700 feet to the termination point of the plume prior to the start of remediation. These reductions, as shown by the depiction of total BTEX and total PAH impacts in groundwater are presented on **Figures 11** through **16**.

As a result of the remedial efforts and in accordance with the NYSDEC-approved remedial system shutdown criteria, two oxygen injection systems (29 Community Road and Plume Tail) in OU-2 have been shut down, the systems removed and the associated injection and monitoring well abandoned. The Manatuck Lane portion of the Garner Lane oxygen injection system was shut down in May 2019 and the 9 North Clinton Avenue system was shut down in August 2021. Post-shut down monitoring in the vicinity of these two systems is ongoing.

In OU-3, shallow BTEX impacts in the Brightwaters Yard have decreased up to two orders of magnitude and have generally continued to decrease. Intermediate impacts that became evident in the area of the LIRR ROW following the remedial excavations and removal of the Brightwaters Yard oxygen injection system, have also subsequently decreased significantly. Similar decreases are also evident in the shallow and intermediate zones downgradient, south, of the Brightwaters Yard where impacts above 100 µg/L have been eliminated with the exception of two intermediate wells during separate sampling events in the current reporting period. Shallow impacts, primarily consisting of total BTEX, in the area downgradient the Brightwaters Yard historically extended south of Union Boulevard prior to the start of remediation. These decreases follow the remedial activity in the area including excavations (Phases I, II, and III), subsequent treatment system installations and modifications, and targeted ORC-A injections as detailed in Sections 1 and 2 of this report.

The available groundwater data in OU-4 indicate decreasing concentration trends are evident in shallow and some intermediate zone wells; however, impacts above 100 µg/L have persisted in several intermediate wells screened outside or below the vertical extent of the remedial excavation. Access restrictions have prevented several wells located south and west of the

excavation extent from being sampled during recent sampling events. No impacts have been present in the deep zone. The majority of the OU-4 Excavation IRM consisted of shallow soil excavation (approximately 10 feet bgs) and was performed in Q2 and Q3 2011.

In the sections below, descriptions are provided for Q2 2021 total BTEX and total PAH groundwater impacts, as well as for other sampling events during the current reporting period as appropriate, and the composite plumes for each of the OUs. The second quarter data set is chosen for comparison since the annual sampling round is conducted during that period each year, with the exception of the previous annual sampling round being conducted in Q3 2020 due to COVID-19. The annual sampling round consists of the largest number of wells and, therefore, is the most complete data set. The groundwater quality descriptions and comparisons are generally done by area (i.e. upgradient or downgradient of a certain site feature or remedial system) and by depth horizon. The groundwater depth horizons include shallow (water table zone to approximately 10 feet bgs), intermediate (approximately 10 to 50 feet bgs), and deep (below approximately 50 feet bgs).

The data presented by the Q1 2009 iso-concentration lines in the plume iso-concentration maps in **Figures 11** through **16** (described below) represent the first full round of groundwater results of the current monitoring well network installed as part of the OU-2 Remedial Design. The Q1 2009 data represents the groundwater conditions prior to the start of the groundwater treatment systems in the mid-plume area. The oxygen injection lines located at 9 North Clinton Avenue, 33 North Clinton Avenue, and 34 North Clinton Avenue were started following Q1 2009. In addition, the OU-4 Cesspool Area S-ISCO IRM was initiated in Q2 2009. Therefore, this data set represents baseline conditions within OU-2 and OU-4 groundwater prior to treatment. As such, the Q1 2009 plume, throughout the remainder of this report, is referred to as the Baseline Q1 2009 Plume.

4.1 Groundwater Horizon Descriptions and Comparisons

The distribution of total BTEX and total PAH concentrations within the Upper Glacial aquifer for Q2 2021 are presented in the iso-concentration maps on **Figures 11** through **16**. The iso--concentration figures for the sampling events conducted between the eighth annual report (Q3 2020) and the current report (Q2 2021) are provided in **Appendix F**. As discussed in Section 1 of this report, reductions to the long-term groundwater monitoring program were approved by NYSDEC in August 2012. As part of the approved reductions, criteria were established to reduce sampling frequency and eliminate monitoring wells from the program provided they meet the approved criteria. Monitoring wells which were not sampled due to implementation of the reduction criteria, having been below ambient groundwater quality standards (or below detection limits for compounds whose standards are below the detection limits) for four consecutive quarterly sampling events or two consecutive annual sampling events, were assumed to be non-detect for the generation of the iso-concentration figures.

The horizontal distribution of the constituent groups in each iso-concentration figure is depicted as lines of equal concentration (iso-concentration lines). The iso-concentration lines were

generated using a combination of applied methods. Initially, the lines were created by direct graphical interpolation between concentrations. These lines were then modified to factor in groundwater flow, taking into account the southeasterly flow direction and the low transverse dispersion of the Upper Glacial aquifer, as well as other local hydraulic factors that might influence groundwater flow. For the purpose of this report, the aerial extent of groundwater impacts (plume outline) in each groundwater horizon for total BTEX and total PAH is defined by the 100 µg/L contour.

Sulfate concentration data, as requested in a letter to NYSDEC titled "Revised – Additional Sampling Parameters for Quarterly Groundwater Monitoring – Sulfate Analysis in Select Monitoring Wells," dated June 4, 2010, is presented in **Appendix G**. The additional sulfate analysis began in Q2 2010 and was initially planned to continue for a period of one year, ending in Q1 2011. The results of the initial investigation showed that elevated sulfate concentrations in select monitoring wells exceeded the New York State Ambient Water Quality Standards (AWQS) and Guidance Value for Class GA groundwater criteria. Based on these results, sulfate sampling has continued at monitoring wells that exceed the AWQS criteria for Class GA groundwater, as well as at additional monitoring wells located downgradient of the monitoring wells with exceedances. An evaluation of sulfate concentrations is provided in Section 4.5.

Routine monitoring well maintenance is conducted on a quarterly basis at the site. The groundwater sampling crews make any simple repairs identified during groundwater monitoring activities, while major repairs are performed by subcontractors on an as-needed basis.

4.2 Operable Unit 1/Operable Unit 2

The groundwater plume at the Site emanates from the source area (OU-1) downgradient into OU-2. Due to their dependent relationship, the two OUs are presented and evaluated together in this section; however, and as stated above, the shallow and intermediate impacts in OU-2 have been largely eliminated and are currently only present in one shallow well. The remedial actions, IRMs, and pilot studies that have been performed in OU-1 and OU-2 are outlined in Section 1 of this report.

4.2.1 Total BTEX and Total PAH Composite Plume Comparison

Figure 1 includes the Q2 2021 outline of total BTEX and total PAH impacted groundwater. This composite outline denotes the horizontal extent of total BTEX and total PAH from the three groundwater horizons. Also, included on **Figure 1** for comparison are the outlines of the historical 2004 remedial investigation (RI) plume and the Baseline Q1 2009 Plume.

The composite Q2 2021 plume is similar to recent events and is comprised of one main area which has reduced in area from the single larger historical RI plume along with two smaller areas in the vicinity of the barrier wall. The main area of impacts begins in the upgradient portion of OU-1 and continues downgradient into OU-2. The other two areas of impacts are present immediately to the east and southwest and are each defined by concentrations in one well cluster.

In comparison to the Baseline Q1 2009 Plume, the current composite Q2 2021 plume has been greatly diminished in length and width with the majority of impacts ending in the upgradient portion of the mid-plume area. The current composite plume has been reduced over 2,000 feet in length and 450 feet in width (measured from the widest point) in comparison to the Baseline Q1 2009 plume (**Figure 1**).

4.2.2 Groundwater Quality

The discussion of groundwater quality presented below has been divided into two sections; the first being upgradient of the barrier wall and the second a description of areas outside the capture zone of the barrier wall in OU-1 and areas downgradient of the barrier wall. This format represents a change from previous reports which were described by depth zone (i.e. shallow, intermediate or deep). The format change is the result of the significant reductions evident in downgradient areas since the start of the remedial period and the limited areas of remaining impacts. Historical total BTEX and total PAH concentrations detected in each of the wells are presented in **Table 4-1** and **Table 4-2** for OU-1 and **Tables 4-4** through **Table 4-9** for OU-2. The complete analytical results for Q4 2020 through Q2 2021 for OU-1 are presented in **Table 4-3**. The complete analytical results for Q4 2020 through Q2 2021 for OU-2 are presented in **Table 4-10**.

4.2.2.1 Upgradient of the Barrier Wall

Within the plume section located upgradient of the barrier wall, concentrations remain similar to recent results with maximum concentrations ranging above 1,000 µg/L (total BTEX and total PAHs). The highest concentrations in the shallow portion of the aquifer are generally total BTEX, while total PAH concentrations are generally higher in the intermediate and deep zones.

In general, the impacts upgradient of the barrier wall are most prevalent in the central and western portion of the area south of the LIRR in each of the three groundwater zones. The highest concentrations are generally shallow total BTEX and deep total PAHs. The impacts in this area have remained relatively consistent in recent sampling events.

Impacts to the north of the LIRR are limited to the shallow and intermediate zone. Monitoring well BBMW-41S typically has concentrations over 1,000 ug/L for total BTEX and total PAHs but are somewhat variable. Three monitoring wells located north of the LIRR in the intermediate zone BBW-34I2, BBMW-38I and BBMW-38I2 have not been sampled in recent events due to the presence of DNAPL in the wells as described in Section 2.1.2. Several shallow wells in the area north of the LIRR, particularly on the eastern portion of OU-1, have had concentrations sporadically detected above 100 ug/L during the historical monitoring period. These detections as well as other variable detections in the shallow zone are likely the result of fluctuations in groundwater elevations.

Excluding the deep zone, the concentrations upgradient of the barrier wall have decreased in the historical monitoring period as shown in the table below. As described in section 1.1.1, remedial activities upgradient of the barrier wall included ISCO and S-ISCO pilot study injections, excavation in the southern cell area and north of the LIRR, and recovery well installation/NAPL

recovery. Active groundwater treatment is present on the downgradient edge of OU-1, prior to groundwater being released through the perforated portion of the barrier wall. The comparisons below include Q4 2009 instead of Q1 2009, which is generally considered the baseline period, due the installation and sampling of numerous wells in the area subsequent to Q1 2009.

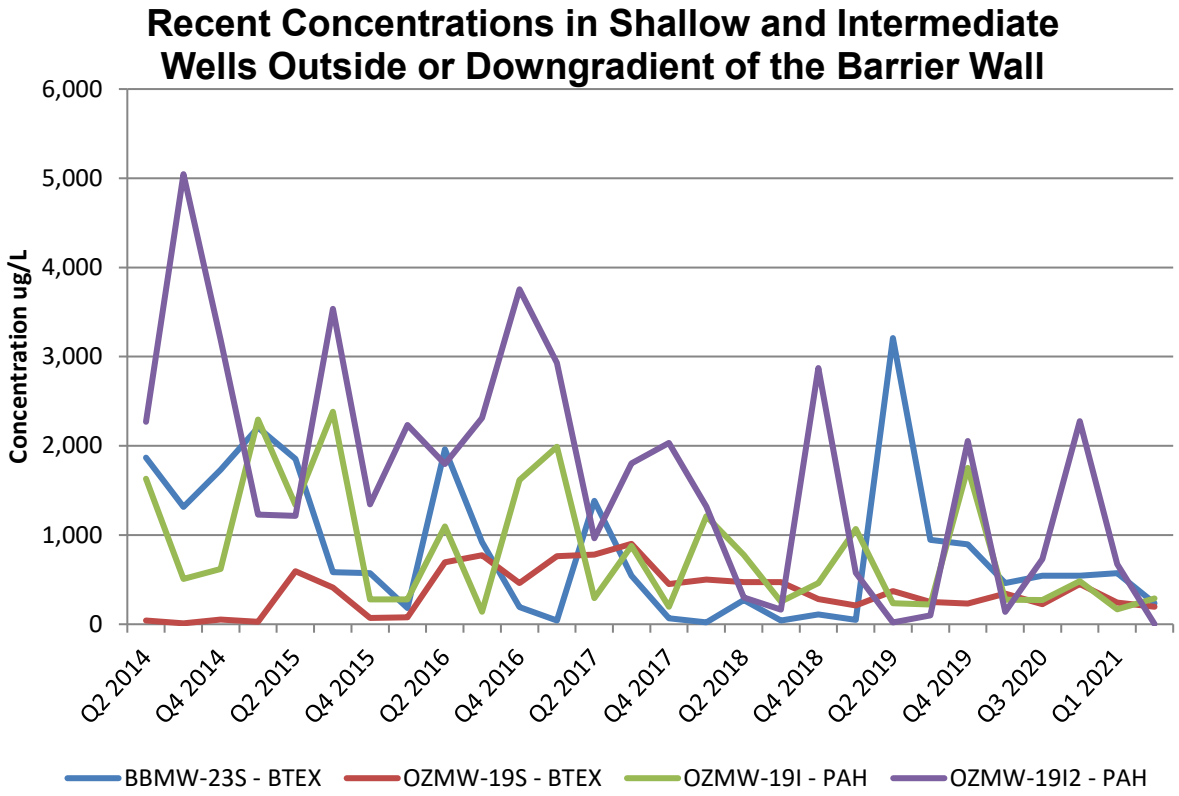
Average Concentrations Upgradient of Barrier Wall						
Compound Group	Depth Zone					
	Shallow		Intermediate		Deep	
	Q4 2009	Q2 2021	Q4 2009	Q2 2021	Q4 2009	Q2 2021
Total BTEX	3,135	908	334	170	634	1,471
Total PAH	983	346	1,535	1,163	754	2,405

*: Does not include OZMW-23 and 24 clusters, which are upgradient of the wall, but downgradient of the ozone treatment system.

4.2.2.2 Outside or Downgradient of the Barrier Wall

Outside and/or downgradient of the capture zone of the barrier wall in OU-1/2, concentrations above 100 µg/L have decreased significantly since the start of the remedial period (Q1 2009) and the operation of numerous oxygen injection systems throughout the axis of the historical plume. As a result of these reductions, several of the oxygen injection systems have been shut down with NYSDEC approval. The 9 North Clinton Avenue was the most recent system to be shut down following the conclusion of the current reporting period (August 2021). Post shut down monitoring of the system has commenced.

In recent sampling events, concentrations above 100 µg/L in the shallow or intermediate zones were generally present in two areas. These areas included downgradient of the barrier wall in the shallow zone in monitoring well BBMW-23S, and in the shallow and intermediate zone in the OZMW-19 cluster (OZMW-19S, OZMW-19I and OZMW19I2), located immediately to the east of the barrier wall. Total BTEX concentrations above 100 µg/L were present in shallow wells BBMW-23S and OZMW-19S in all three sampling events in the reporting period, while PAH exceedances were limited to OZMW-19S during Q4 2020 and BBMW-23S during Q1 2021. Concentrations in OZMW-19I and OZMW-19I2 were generally above 100 µg/L for total BTEX and total PAHs throughout the reporting period and were generally higher in the deeper intermediate zone (OZMW-19I2). The concentrations in each of the wells in the OZMW-19 cluster have been variable, but generally decreasing in recent events are significantly below historical levels. The concentrations in BBMW-23S are discussed further below. The recent concentrations in these wells are presented on the graph below. The higher concentrations (i.e. total BTEX for shallow and total PAHs for intermediate) are shown in the graph below.

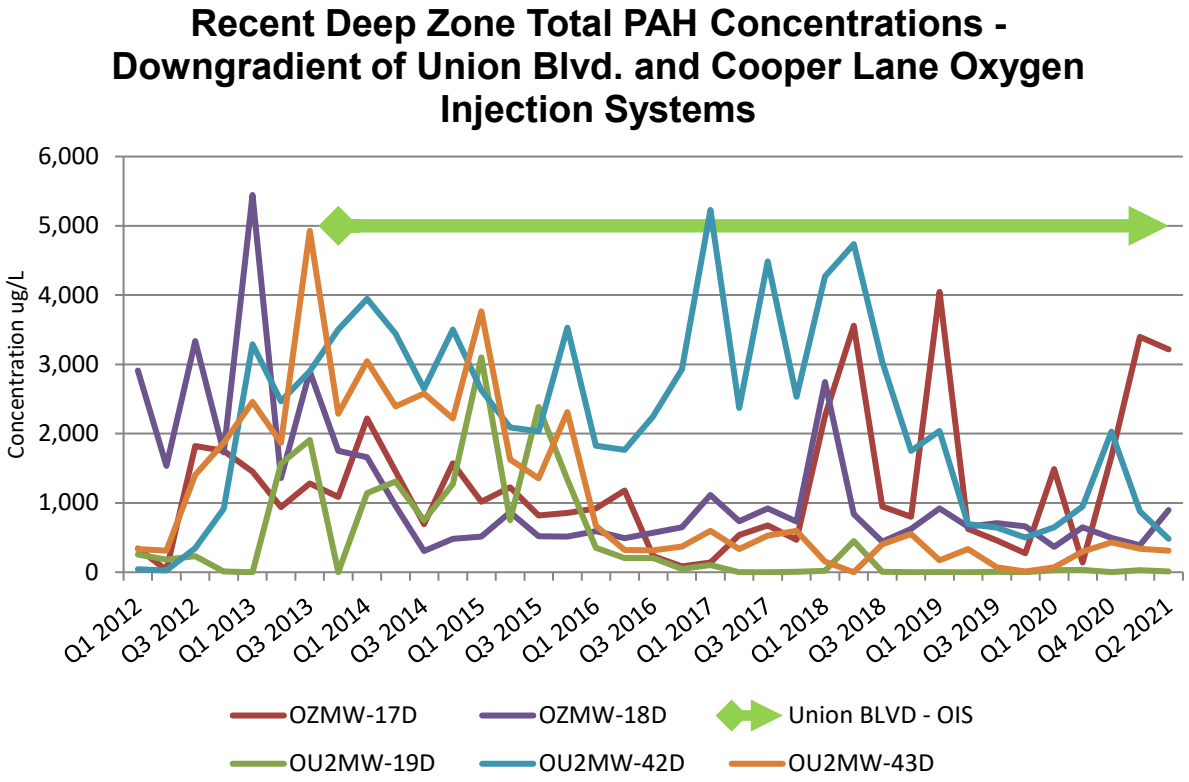


Total BTEX concentrations in BBMW-23S, located in the upgradient portion of OU-2, have generally been decreasing following an increase during the Q2 2019 annual sampling event. Total PAH concentrations in BBMW-23S remained below 100 µg/L in two of the three sampling events during the current reporting period. Historically, this well has exhibited temporary increases in concentrations in samples collected between February and June corresponding to periods of higher water table elevations. However, the concentrations for both total BTEX and total PAHs decreased during Q2 2021. The impacts in BBMW-23S have been significantly reduced from over 40,000 µg/L total BTEX and 3,000 µg/L total PAHs prior to, or near the start of the remedial period. The impacts are currently localized and do not persist past the downgradient Cooper Lane oxygen injection system.

In the deep groundwater (below a depth of approximately 50 feet within the Upper Glacial aquifer) outside or downgradient of the capture zone of the barrier wall, total BTEX and total PAH impacts in OU-2 are present in the upgradient and mid-plume area. Impacts above 100 µg/L begin in area immediately downgradient of the barrier wall, similar to recent sampling events (**Figures 15** and **16**). The total PAH impacts are larger in area and generally characterized by higher concentrations than the corresponding total BTEX impacted areas and are the focus of the discussion below.

Excluding one detection of total BTEX during Q1 2021, all of the concentrations of total BTEX and total PAHs in monitoring wells immediately downgradient of the barrier wall (OZMW-17D and OZMW-18D) have remained elevated in recent sampling events. Overall, the average deep

concentrations in the current reporting period in OZMW-17 and OZMW-18 have increased relative to the previous reporting period (see graph of total PAH concentrations below).



Farther downgradient, deep total PAH impacts in OU-2 during Q2 2021 extend downgradient of the barrier wall to the area of the Cooper Lane and 33 North Clinton Avenue oxygen injection system, while total BTEX concentrations above 100 µg/L were limited to the area of monitoring well OU2MW-42D. Significant decreases in each of the wells in the area (OU2MW-19D, OU2MW-42D and OU2MW-43D) have been observed relative to historical levels; however, the concentrations of total PAHs in OU2MW-43D and total BTEX and total PAHs in OU2MW-42D have remained elevated. The total PAH concentrations in the current reporting period in OU2MW-42D and OU2MW-43D increased relative to the previous reporting period (see graph above). Additional remedial measures will be considered if the decreasing trend identified in the area does not continue and elevated concentrations persist.

As described above, shallow and intermediate zone concentrations in the area downgradient of the barrier wall have decreased significantly since the start of remedial activities in Q1 2009. Deep zone concentrations have remained elevated as shown in the table below.

Average Concentrations Downgradient of Barrier Wall						
Compound Group	Depth Zone					
	Shallow		Intermediate		Deep	
	Q1 2009	Q2 2021	Q1 2009	Q2 2021	Q1 2009	Q2 2021
Total BTEX	294	24	580	5	60	54
Total PAH	53	0	838	0	434	379

Detections above the AWQS downgradient of the perforated section of the barrier wall or the oxygen injection system at the downgradient edge of OU-1 were limited during the current reporting period. Excluding the monitoring wells discussed above, exceedances of the AWQS included detections of PAHs (acenaphthene and naphthalene) in BBMW-01D and benzo(a)pyrene in OU2MW-30I2 during Q1 2021 and Q4 2020, respectively that were not sustained, as well as in downgradient monitoring well cluster OU2MW-02. Toluene was detected above the AWQS during Q2 2021 in monitoring wells OU2MW-02S and OU2MW-02I with concentrations of 80 µg/L and 40 µg/L, respectively. Toluene was also detected above the AWQS during the previous reporting period at OU2MW-02I; however, concentrations decreased after Q4 2019 and were not detected during the last event of the period (Q3 2020). Toluene has typically been identified along with other BTEX compounds when detected within the historical plume; however, toluene was the only BTEX compound detected in OU2MW-02S or OU2MW-02I during the sampling events discussed above. Concentrations in subsequent sampling events will determine if an increasing trend for toluene is present in this area.

Changes to the groundwater concentrations for total BTEX and total PAH in OU-1/OU-2 described above are supported in the graphical presentations. Time series plots graphically displaying the analytical results are provided for wells located downgradient of the oxygen injection systems on **Figures 4** and **5**.

4.3 Operable Unit 3

Remedial activities in OU-3 began in 2000 and have included the excavation in the Brightwaters Yard and from within the LIRR ROW, as well as ISCO and ORC-A injections and the installation and operation of oxygen injection systems. Additional details on the remedial activities are presented in Section 1 and 2 of this report.

As a result of the remedial activities, significant reductions to groundwater impacts in the vicinity and downgradient of these areas have been noted in recent sampling events, with impacts above 100 µg/L currently (Q2 2021) limited to total BTEX in one shallow well in the Brightwaters Yard and one intermediate well immediately downgradient of the LIRR ROW. Furthermore, detections above the AWQS downgradient of the sheeting cells in the LIRR ROW were limited to six wells during the reporting period, with exceedances downgradient of Community Road limited to two detections of total xylene in intermediate monitoring wells OU3MW-07I3 and OU3MW-07I4. The exceedances in OU3MW-07I3 and OU3MW-07I4 which were detected during Q4 2020 and Q1 2021, were not sustained during the annual sampling event (Q2 2021).

Monitoring wells in OU-3 with elevated BTEX concentrations typically have PAH concentrations detected at significantly lower levels; therefore, BTEX concentrations can be used as an indicator of impacted groundwater and are the focus of the discussions below. The PAH data is provided in the tables and figures as referenced below. The discussion of OU-3 impacts has been divided into three areas: upgradient (Brightwaters Yard), within the sheeting cells in the LIRR ROW, and downgradient of the LIRR ROW and downgradient of the Community Road oxygen injection system. The monitoring well locations are provided on **Figure 1** and the data is provided in **Tables 4-11** through **4-13**.

4.3.1 Total BTEX and Total PAH Composite Plume

The composite Q2 2021 plume is limited to two areas, defined by one well each within the Brightwaters Yard and the area immediately south of the LIRR ROW (**Figure 1**). In comparison to the Baseline Q1 2009 composite plume, the historical area of impacted groundwater has been reduced and is no longer present in the area downgradient of Community Road.

The composite Q2 2021 plume is generally similar in size to the corresponding Q3 2020 depiction; however, the more downgradient area of impacts was present within the LIRR sheeting cells in Q3 2020, while in Q2 2021 the second area of impacts is present just south of the LIRR ROW.

4.3.2 Current Plume Description and Comparison to Baseline Q1 2009 Plume

A description of the current groundwater plume configuration and a comparison of BTEX in the groundwater depth zones between Q1 2009 and Q2 2021 are provided below. As mentioned above, monitoring wells in OU-3 with elevated BTEX concentrations typically have PAH concentrations detected at significantly lower levels; therefore, BTEX concentrations are used as an indicator of impacted groundwater and are the focus of the discussions below.

The total BTEX and total PAH concentrations detected in the quarterly sampling round from each of the wells through Q2 2021 are presented in **Table 4-11** and **Table 4-12**, respectively. The complete analytical results for Q4 2020 through Q2 2021 are presented in **Table 4-13**. The area of total BTEX and total PAH impacts above 100 µg/L for shallow zone wells in OU-3 are provided on **Figures 11** and **12**. Intermediate impacts are presented on **Figures 13** and **14**.

4.3.2.1 Upgradient Area (Brightwaters Yard)

Shallow groundwater concentrations in the Brightwaters Yard have decreased significantly since completion of source area excavations. As a result of these decreases, several of the shallow monitoring wells in the area have been eliminated from the sampling program. Several of the remaining wells have decreased with recent results at or near detection levels, while others have been variable in recent events following an initial period of decreases (see graph below).

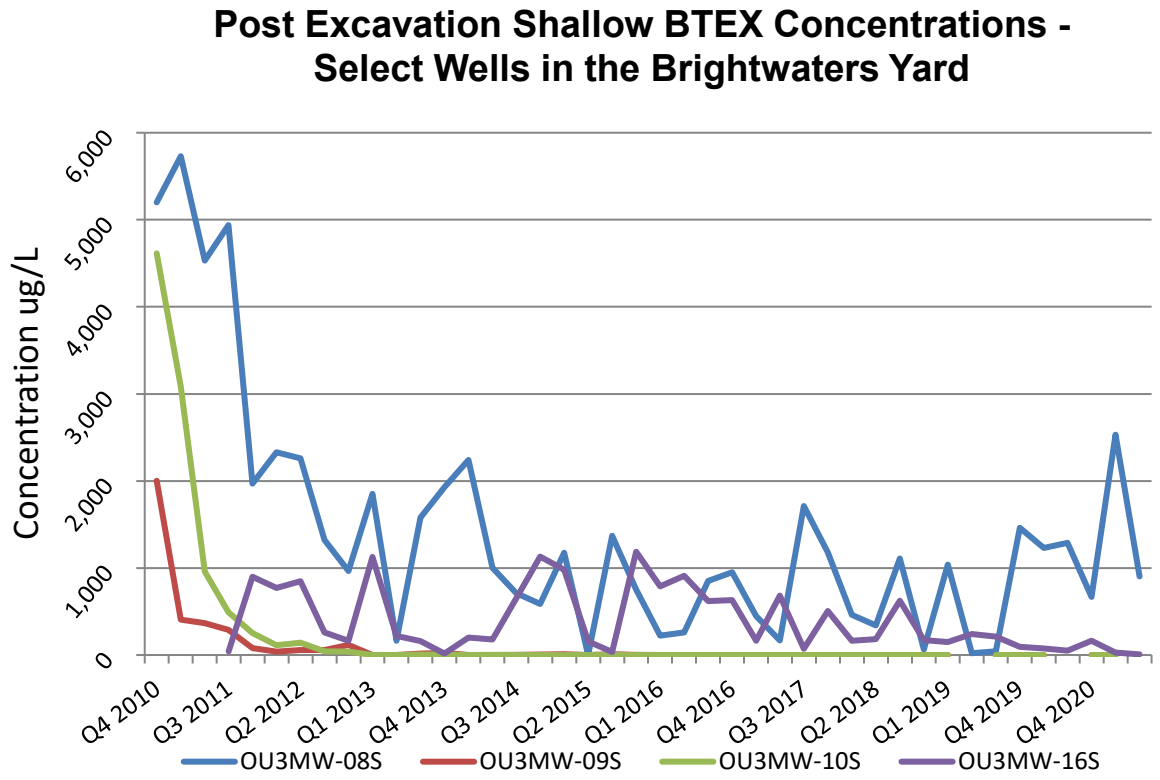
The maximum total BTEX concentrations in shallow groundwater in the Brightwaters Yard have decreased from greater than 100,000 µg/L prior to excavation to 901 µg/L during Q2 2021. The highest concentration in the area during Q2 2021 was detected in monitoring well OU3MW-08S.

This monitoring well, along with OU3MW-16S, are located on the southwest portion of the Brightwaters Yard, west of the main source excavation area. A spot excavation was performed to remove the limited impacts in this area during the 2010 Excavation IRM. The total BTEX concentrations in the current reporting period in OU3MW-08S were variable, but generally lower than the previous annual monitoring period. The concentrations in OU3MW-16S decreased to historical lows and were at, or near detections levels for total BTEX and total PAHs during Q2 2021. The reductions in OU3MW-08S and OU3MW-16S, as well as in OU3MW-09I are likely the result of ORC-A injections conducted in Q4 2019 to treat lingering impacts.

Prior to the injections (September 2019), six temporary wells were installed within the northern most sheeting cells left in place beneath the LIRR and at the southern portion of the Brightwaters Yard. Two temporary wells were installed in each of the three western most northern cells, TMW-01I/I2 through TMW-03I/I2, to assess potential remaining impacts at this location and the potential source of impacts at OU3MW-09I. The temporary wells are screened in the previous zone of highest impacts (immediately beneath the extent of excavation from 12-17 ft bgs) and at the bottom of the sheets (from 25-30 ft bgs). The data collected prior to ORC-A treatment (Q3 and Q4 2019) indicated the greatest impacts are present in the deeper wells screened at the bottom of the sheets. The current shallow concentrations are generally consistent with recent sampling events, excluding an increase in TMW-03I to 167.17 µg/L. Concentrations in the deeper temporary monitoring wells, where the more significant impacts were noted prior to the installation of ORC-A, have been reduced from highs in the initial sampling event and remain low in TMW-01I2. Concentrations in TMW-02I2 have been variable in recent events, but TMW-03I2 concentrations have increased in recent events from ND in Q4 2020 to 501.3 µg/L currently. The remaining elevated in concentrations in some of these wells along with the persistent concentrations in OU3MW-08S may indicate that additional action may be warranted in the area.

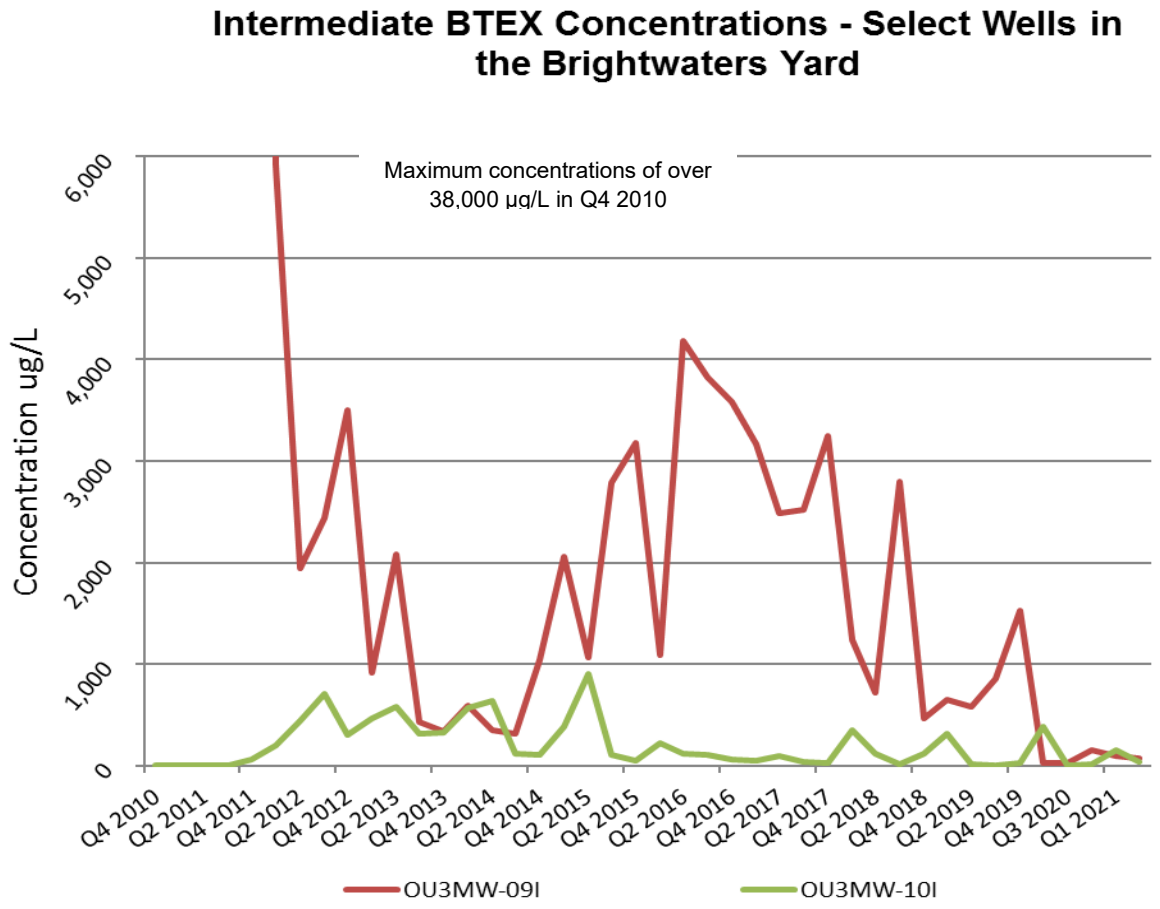
The data from the temporary monitoring wells is included on **Tables 4-11** through **4-13**. The data was not used in the iso-concentration figures (**Figures 11 through 14**), since the wells are temporary and are not constructed similar to the permanent monitoring wells located on and in the vicinity of the Site. The locations of the ORC-A injection points and the temporary monitoring wells are shown in **Figure 17**.

The ORC-A injections have appeared to reduce the concentrations in OU3MW-09I (discussed below) and OU3MW-16S but have been limited in their effectiveness regarding OU3MW-08S. The boring logs indicate the residual impacts in the vicinity of OU3MW-08S may potentially be located within a shallow peat unit; thereby limiting the effectiveness of the treatment. The graph below shows the shallow BTEX concentrations in permanent wells installed in the area.



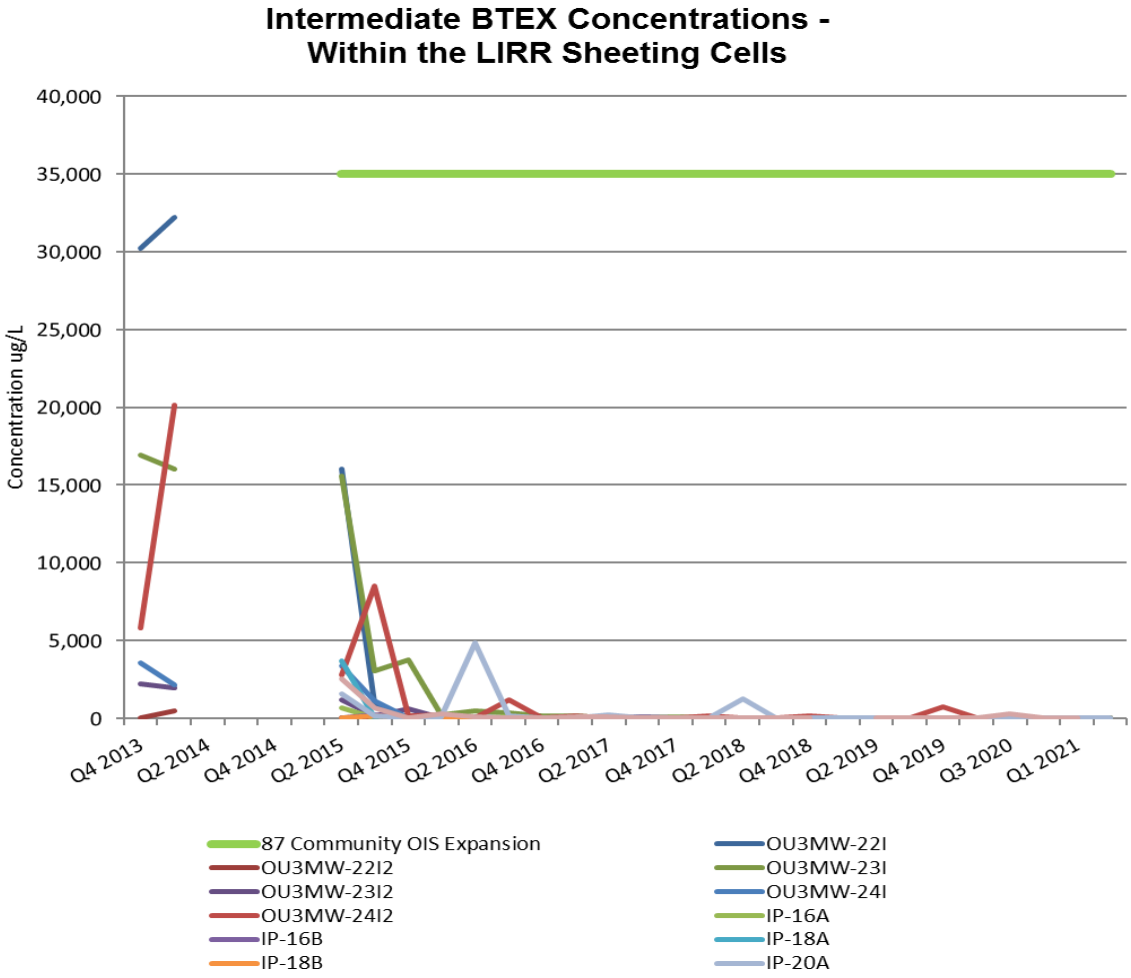
Intermediate groundwater concentrations, while significantly lower than those historically observed in the shallow zone, increased following removal of the Brightwaters Yard oxygen injection system prior to the source area excavations in 2010. Since that time, the intermediate zone concentrations have decreased significantly since to an average of less than 100 µg/L. Similar to the shallow zone, concentrations in other intermediate wells in the area were consistently at or near detection levels and were subsequently eliminated from the sampling program.

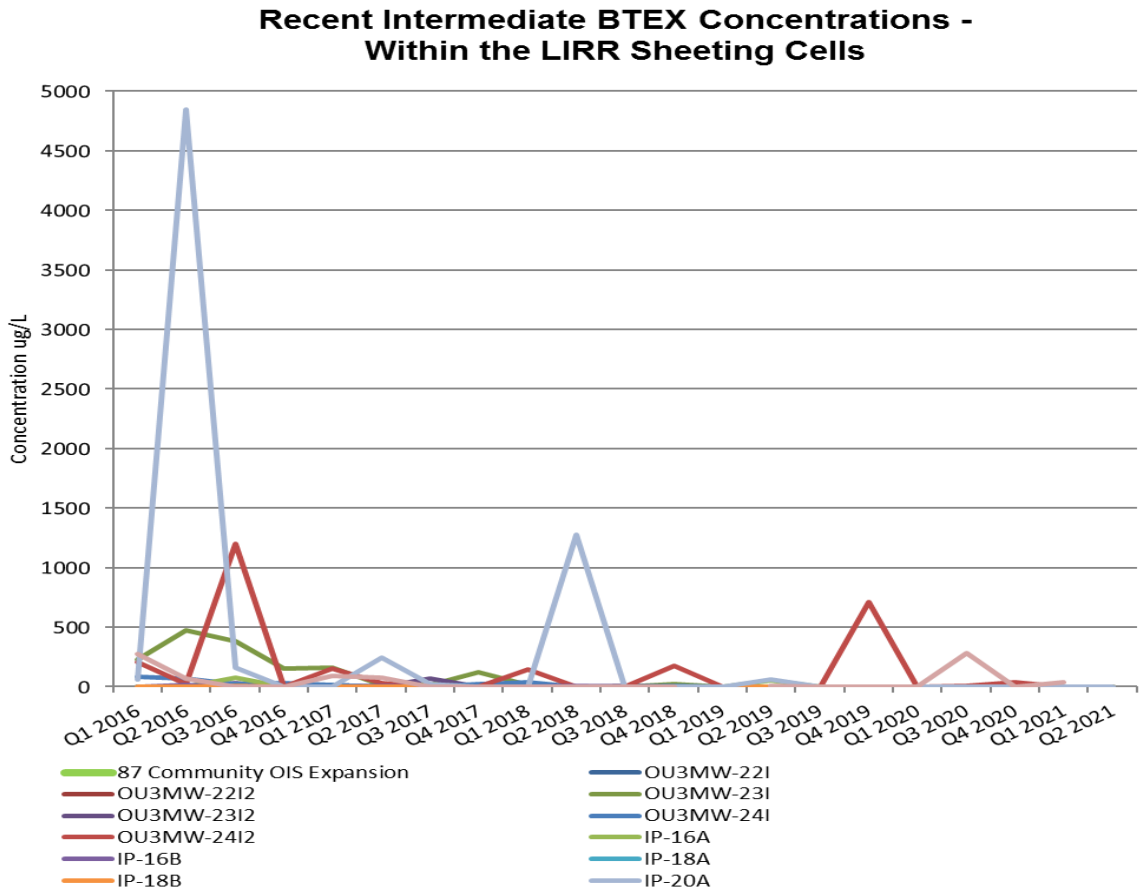
During the current reporting period, elevated concentrations (above 100 µg/L) of total BTEX have been limited to single detections in two intermediate wells in the Brightwaters Yard, installed subsequent to the source area excavation. The wells include OU3MW-09I and OU3MW-10I, located immediately upgradient of the LIRR excavations. Total BTEX concentrations in OU3MW-09I were above 100 µg/L during Q4 2020 and have been variable but generally decreasing following the ORC-A injections Detections in this area are three orders of magnitude below the initial concentrations detected immediately following source area excavation (38,700 µg/L in Q4 2010). Concentrations in OU3MW-10I were above 100 µg/L in Q1 2021 but have been generally decreasing in recent events. Some sporadic elevated concentrations have been detected in OU3MW-10I (see graph below). Concentrations of total PAHs in these wells are lower than the corresponding total BTEX concentrations but have followed similar trends.



4.3.2.2 LIRR ROW

There were no remaining impacts above 100 µg/L in permanent wells the intermediate zone in the LIRR ROW during the current reporting period. Some impacts do exist in the temporary monitoring wells installed as part of the ORC-A injection program as described above. The monitoring wells located at the downgradient edge of the three westernmost cells (OU3MW-22I, OU3MW-22I2, OU3MW-23I, OU3MW-23I2, OU3MW-24I, and OU3MW-24I2) were converted to injection wells as part of the upgrade to the 87 Community Road oxygen injection system in Q2 2015. Additional injection wells (IP-16A, IP-16B, IP-18A, IP-18B, IP-20A, and IP-20B) were installed as part of the system upgrade to treat impacts in the upgradient/central portion of the same three sheeting cells. All of these wells are located within the intermediate monitoring zone. Due to significant concentrations reductions since injection began in the area (see graphs below), several wells have been reduced to annual sampling and others have been eliminated from the sampling program in accordance with the approved reduction criteria. The monitoring wells, injection wells, and sheeting cells are shown on **Figure 1**.


Intermediate BTEX Concentrations -
Within the LIRR Sheeting Cells
Concentration ug/L
40,000
35,000
30,000
25,000
20,000
15,000
10,000
5,000
0
Q4 2013
Q2 2014
Q4 2014
Q2 2015
Q4 2015
Q2 2016
Q4 2016
Q2 2017
Q4 2017
Q2 2018
Q4 2018
Q2 2019
Q4 2019
Q3 2020
Q1 2021
87 Community OIS Expansion
OU3MW-22I
OU3MW-22I2
OU3MW-23I
OU3MW-23I2
OU3MW-24I
OU3MW-24I2
IP-16A
IP-16B
IP-18A
IP-18B
IP-20A

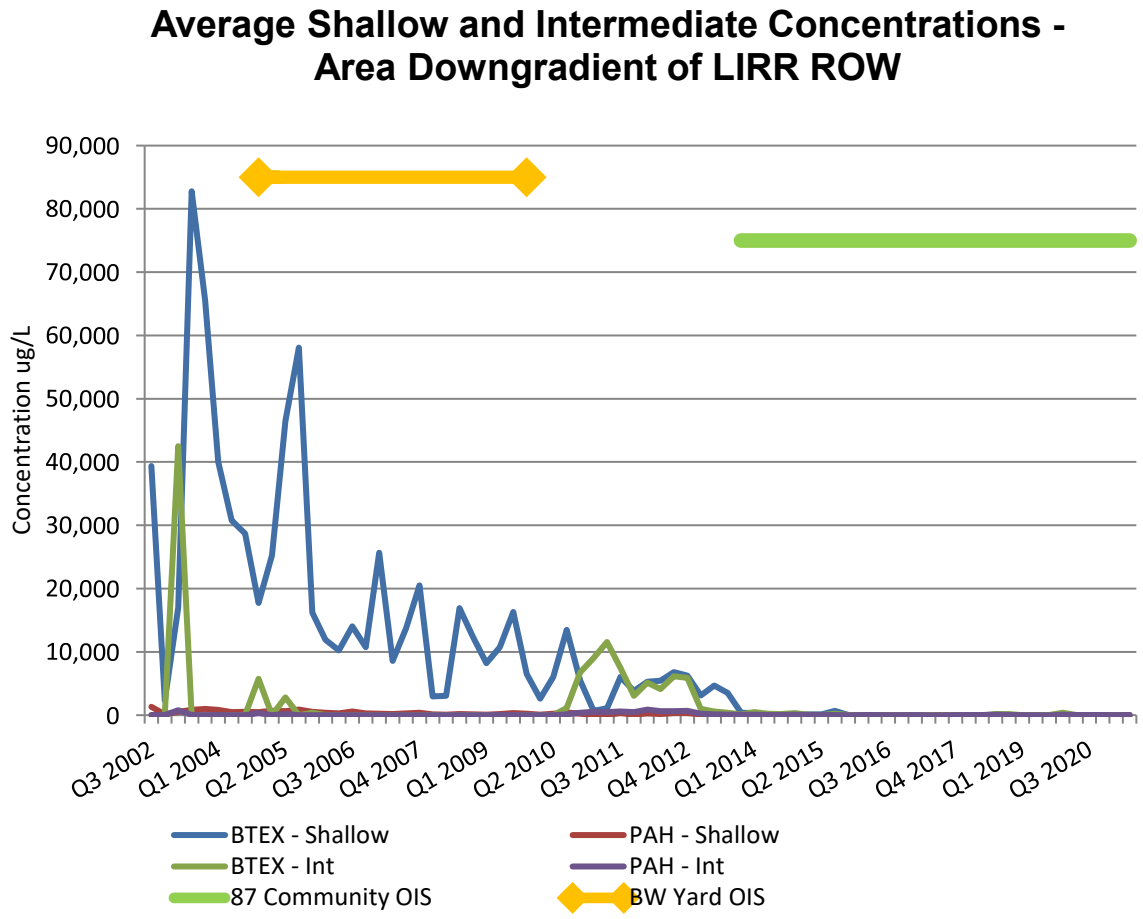


4.3.2.3 Downgradient of the LIRR ROW

Shallow and intermediate impacts (above 100 µg/L) have been significantly reduced and were only present in two wells south of the LIRR ROW during the monitoring period. These detections were identified in the intermediate zone and included BTEX and PAHs in MW-64 during Q4 2020 and BTEX in MW-65 during Q2 2021. These wells are located immediately south of the LIRR on the 87 and 83 Community Road properties, respectively.

BTEX concentrations in shallow groundwater monitoring wells located in the area immediately downgradient of the LIRR have decreased significantly during the historical monitoring period, coincident with the operation of the oxygen injection systems in the area (see graph below). Historically, average shallow total BTEX concentrations in the area immediately downgradient of the LIRR ROW have been as high as approximately 80,000 µg/L and are currently near detection levels in the majority of the wells in the area. During Q2 2021, the maximum shallow total BTEX concentration in the area was 212.9 µg/L in monitoring well MW-65. MW-65 is outside of the treatment zone for the 87 Community Road treatment system but impacts from this area are treated by the Community Road oxygen injection line located downgradient. The highest Q2 2021 BTEX detection downgradient of the 87 Community Road oxygen injection system was 45.94

µg/L in OU3MW-20I2 (67.6 µg/L total PAHs). The average historical detection for shallow PAHs peaked over 1,000 µg/L and were generally at or below detection levels during Q2 2021.



Intermediate zone average total BTEX concentrations in the area immediately downgradient of the LIRR ROW, which were largely non-detect in sampling events conducted prior to abandonment of the Brightwaters Yard oxygen injection system in Q3 2009, peaked at over 11,000 µg/L during Q2 2011. Following the installation of the 87 Community Road system during Q4 2013, intermediate concentrations varied, but generally decreased with the recent average concentrations generally near detections levels (see graph above). As stated above, detections above 100 µg/L in the current monitoring period were limited to one event each at monitoring wells MW-64 and MW-65. Concentrations in MW-64 were at or near detections levels following the detection of 246 µg/L during Q4 2020. The elevated concentration in MW-65 (212.9 µg/L) was detected during Q2 2021. Concentrations above 100 µg/L have been sporadically detected in these wells and may be related to fluctuations in groundwater elevation.

No impacts above 100 µg/L in the area downgradient of Community Road have been identified since Q1 2014. The average detections of total BTEX and total PAHs in the shallow and

intermediate zone have been at or near detection levels since Q1 2014 as they were during the current annual monitoring period. Based on the approved reduction criteria, most of the monitoring wells located downgradient of the Community Road oxygen injection system were removed from the sampling program due to significant concentration reductions.

Exceedances of the AWQS primarily included BTEX and were identified in a total of six wells, five of which are screened in the intermediate zone and the other (MW-83) screened in the shallow zone. PAH exceedances were limited to naphthalene in MW-64 during Q4 2020 and OU3MW-20I2 during Q2 2021. BTEX exceedances were identified in MW-64 (Q4 2020 and Q1 2021), MW-65 (Q2 2021), MW-83 (Q1 and Q2 2021), OU3MW-07I3 (Q4 2020), OU3MW-07I4 (Q1 2021) and OU3MW-20I2 (Q2 2021). Monitoring wells OU3MW-07I3 and OU3MW-07I4 are located immediately downgradient of the Community Road oxygen injection system. The exceedances in these wells were limited to total xylene in one sampling event each, with concentrations of 14 µg/L and 13 µg/L, respectively. Preliminary Q3 2021 concentrations in OU3MW-07I3 and OU3MW-07I4 were non-detect for total xylene.

Changes to the groundwater concentrations for total BTEX and total PAHs described above are further supported in additional graphical presentations. Time series plots displaying the graphical analytical results for wells located downgradient of the oxygen injection systems in OU-3 are provided on **Figure 6**.

4.4 Operable Unit 4

The injection phase of the OU-4 Cesspool Area S-ISCO IRM was initiated in Q2 2009 (April 30, 2009) and was completed in Q4 2009 (December 3, 2009). Therefore, a comparison between the Q1 2009 and Q2 2021 data provides a useful evaluation of the effectiveness of this remedy to date. Several wells in OU-4 (WCMW-11S, I, and D, WCMW-17S, I, and I2, and WCMW-18WT, S, I, and I2) were not sampled in Q1 2009, but were sampled in April 2009, prior to the initiation of S-ISCO injection. For these wells, the April 2009 pre-S-ISCO data was used in the development of the Baseline Q1 2009 iso-concentration maps. In advance of, and during the OU-4 excavation IRM, which was initiated in early Q2 2011, numerous wells were abandoned. As a result, many of the wells sampled in the Baseline Q1 2009 event were not sampled in Q2 2021.

The monitoring well network was re-evaluated upon the completion of the remedial work, with the re-installation and sampling of several monitoring wells beginning in Q1 2012. Several of the monitoring well clusters including WCMW-11, WCMW-26, and WCMW-29 within the western side of the cesspool area have not been sampled in recent sampling events due to access restrictions on a private property. The access issues detailed above, along with the reductions to the number of wells sampled resulting from the approved reduction criteria, have significantly reduced the number of wells sampled. During the current annual sampling round (Q2 2021) a total of five wells in OU-4 were sampled; two shallow and three intermediate wells. A summary of the remedial efforts for OU-4 is provided in Sections 1 and 2 of this report.

4.4.1 Total BTEX and Total PAH Composite Plume

There were no detections above 100 µg/L in OU-4 during Q2 2021. As a result, no composite plume is currently present. However, access restrictions to several monitoring wells in the Cesspool Area during Q2 2021 have affected and likely reduced the current depiction of the plume in the area.

4.4.2 Current Plume Description and Comparisons

As depicted on **Figures 11, 13**, and **15**, there were no detections of total BTEX above 100 µg/L in OU-4 during Q1 2009 or Q2 2021. As a result of the limited detections of BTEX, the evaluation of groundwater quality for OU-4 will focus on PAHs as the primary COCs. During Q2 2021, there were no concentrations of PAHs above 100 µg/L (**Figures 12, 14 and 16**). This represents the first sampling event in the historical monitoring period with no detections of total PAHs above 100 µg/L. However, as noted above several wells were not sampled due to access restrictions. Additionally, DNAPL was observed in WCMW-05I during Q2 2021 at a thickness of 0.2 feet and was not sampled. The total BTEX and total PAH concentrations detected in each of the wells through Q2 2021 are presented in **Table 4-14** and **Table 4-15**. The complete analytical results for Q4 2020 through Q2 2021 are presented in **Table 4-16**. The monitoring well locations are shown on **Figure 1**.

As stated above, there were no detections of total PAHs greater than 100 µg/L in water table or intermediate wells during the current reporting period; however, the monitoring wells with historically elevated detections (WCMW-04I, WCMW-11S, WCMW-11I, WCMW-26S, WCMW-26I, WCMW-29S and WCMW-29I) located in the Cesspool Area were not sampled due to access restrictions. During the last sampling event in which access to the wells with historical detections was available (Q4 2015), elevated concentrations were detected in four out of seven wells with a maximum detection of 1,597 µg/L in WCMW-26S. The highest concentrations in the area have generally been detected in monitoring well WCMW-29S, which is located immediately upgradient of WCMW-26S. Both wells were installed after S-ISCO injection was complete and are located outside of the excavation area on the 22 Oak Street property. The total PAH concentrations in WCMW-29S have fluctuated between approximately 2,400 µg/L and 1,100 µg/L and were generally decreasing. In Q4 2015 only three shallow wells, WCMW-29S, WCMW-26S, and WCMW-11S, had PAH concentrations in exceedance of the groundwater quality criteria. During the current reporting period detections above the AWQS were limited to acenaphthene in WCMW-05I and WCMW-30I and naphthalene in WCMW-05I.

In general, an increase in PAH concentrations during S-ISCO application was followed by a decrease in PAH impacts after excavation was complete. The exceptions to the trend are shallow groundwater monitoring wells WCMW-26S and WCMW-29S (as discussed above). Impacts are also likely still present in intermediate monitoring well WCMW-04I; which is located downgradient of these wells has not been sampled since Q3 2020 at which time the concentration of total PAHs was 226 ug/L.

WCMW-05I was not sampled during Q2 2021 due to the presence of NAPL. Low levels of DNAPL have intermittently been detected in WCMW-05I while gauging the depth to bottom of this well prior to sampling. Specifically, 0.2, 0.11 and 0.1-feet of DNAPL was detected in Q4 2019, Q3 2019 and Q1 2020. The well was sampled during these events and total PAH values have ranged from 121 ug/L to 255 ug/L, which is consistent with historic values. During this reporting period there have been exceedances of the AWQS for only two compounds (acenaphthene and naphthalene). Review of the groundwater sampling sheets indicates that there may be a small amount of NAPL impacted silt at the bottom of this well.

Total PAH concentrations in shallow and intermediate groundwater in the Pond Area and downgradient also generally increased following S-ISCO application and excavation. These increases have been followed by decreases in concentrations. The most recent total PAH concentration detected at or above 100 ug/L, was in monitoring well WCMW-14S, located in the upgradient portion of the Pond Area during Q1 2019. Since Q1 2019 concentrations in WCMW-14S have decreased and were below detection levels in the two most recent sampling events. There were no detections above AWQS in the Pond Area during the current reporting period. Concentrations in monitoring intermediate well WCMW-14I, were also below detection levels during Q2 2021. Sampling of WCMW-14I is now performed on an annual basis in accordance with the approved reduction criteria since there have been no detections above the AWQS in recent sampling events.

4.5 Analysis of Sulfate Concentrations

At the request of the NYSDEC, National Grid has been monitoring sulfate concentrations within OU-1 and OU-2 in monitoring wells upgradient and downgradient of former ISCO IRM areas. Sulfate was also monitored in OU-4 as recently as 2013 but was discontinued due the lack of detections above the groundwater standard. Sampling for additional sulfate analysis began in Q2 2010 and was scheduled to continue for a period of one year, ending in Q1 2011. The purpose of the sulfate sampling program was to establish baseline sulfate concentrations in groundwater and to identify any potential trends associated with remedial activities conducted at the site. The results of this investigation were originally presented in the Q1 2011 GM and OM&M Report. This initial investigation concluded that elevated sulfate concentrations in select monitoring wells exceed the AWQS. Based on these results, sulfate sampling has continued at monitoring wells that exceed the AWQS, as well as at select downgradient monitoring wells. However, since only one detection above the AWQS has been observed during the past two years, the sulfate sampling program will be discontinued with NYSDEC approval. A discussion of the analytical results is presented below. This data is presented in **Appendix G**.

4.5.1 OU-1 and OU-2 Sulfate Concentrations Downgradient of the OU-1 ISCO Pilot Tests

Persulfate was injected during two pilot tests within OU-1, north of the LIRR. The first pilot test was completed in 2004 using activated persulfate. The second pilot test was completed in 2006 using activated sodium persulfate. Analytical testing for sulfate in downgradient monitoring wells began in 2007. The former pilot test areas are shown on **Figure 2**.

4.5.1.1 Background Sulfate Concentrations

Background sulfate concentrations have historically been within a range of approximately 5,000 µg/L and 43,000 µg/L. These values were determined based on sulfate concentrations within monitoring wells located upgradient of the ISCO pilot test treatment areas (MW-09S, 09I, 09I2, and 09D, and BBMW-38S, 38I, 38I2, and 38D). Sampling of these wells was discontinued after Q3 2011. These concentrations are depicted on Graph G-1 of **Appendix G**. The monitoring well locations are shown on **Figure 1**.

4.5.1.2 OU-1/OU-2 Trends in Sulfate Concentration

Historically, sulfate concentrations have been observed above the background concentration range at multiple wells within OU-1 and OU-2. Three wells in OU-1 and sixteen wells in OU-2 were sampled for sulfate during the current reporting period (Q4 2020 – Q2 2021). Sulfate concentrations are depicted graphically for monitoring wells with recent concentrations of sulfate greater than the AWQS value of 250,000 µg/L in **Appendix G,** Graph G-2 for OU-1 monitoring wells and Graph G-3 for OU-2 monitoring wells.

Since sampling began in 2007, samples from 23 monitoring wells have exceeded the AWQS criteria for GA groundwater; nine monitoring wells in OU-1 and 14 monitoring wells in OU-2. Concentrations at these monitoring wells have ranged from 11,700 µg/L to 2,470,000 µg/L in OU-1 and between non-detect and 841,000 µg/L in OU-2.

Twenty one of the 23 monitoring wells are screened to below 60 feet bgs in the deep zone. These monitoring wells are located within or downgradient of the former ISCO pilot test injection areas. The persulfate solutions injected during the pilot test were denser than water and therefore, traveled vertically downward after injection. The density of the persulfate solution was modified during the pilot testing to attempt to reduce the vertical migration and increase the lateral migration of the injected persulfate. Monitoring wells with elevated sulfate concentrations are generally located within or downgradient of the ISCO injection pilot test area.

Graphical trends observed in Graphs G-2 and G-3 of **Appendix G** indicate that concentrations are declining in the wells located in OU-1 and the majority of wells in OU-2. The only current increasing trend apparent is in OU-2 monitoring well OU2MW-19D. Concentrations in OU2MW-02I2 were above the AWQS during Q4 2020 but decreased in the two subsequent sampling events. Monitoring well OU2MW-02I2 is located near the downgradient edge of the mid-plume area and well OU2MW-19D is located near the upgradient edge of the mid-plume area. The data indicates that sulfate is still present, but currently below the AWQS in a limited area in the lower portions of the intermediate zone and within the deep zones of the aquifer.

5. Future Plans

The GM and OM&M schedule is evaluated on a quarterly basis to keep the remedial systems operating as efficiently as possible. Rationale for sampling groundwater is also evaluated on a quarterly basis. Recommendations for future system GM and OM&M, as well as recommendations and rationale for groundwater, soil vapor, and ambient air monitoring are presented in the sections below.

5.1 Remedial Systems

5.1.1 NAPL Gauging and Recovery

- The frequency of NAPL gauging will remain on a quarterly schedule, as approved by the NYSDEC. The majority of the NAPL measured has been DNAPL. LNAPL observations during the past year have been limited to monitoring well OZMW-21S.
- DNAPL will continue to be recovered once every four weeks.
- Consider recovery from wells in the southern portion of OU-1 with thicknesses of DNAPL greater than one foot. Monitor the rebound in these wells to determine if additional recovery is required, or if a recovery schedule should be established.

5.1.2 Ozone Groundwater Treatment System

- Continue operation and maintenance of the ozone groundwater treatment system.
- Annual monitoring for ozone will be conducted at the SVE manifold during annual maintenance to confirm a continued lack of ozone in the subsurface after the SVE shutdown.

5.1.3 Current Oxygen Injection Systems

- Continue monthly system inspections.
- Continue bi-weekly system inspections.
- Conduct manufacturer recommended maintenance on the systems.
- Discontinue monitoring of groundwater in the vicinity of the Manatuck Lane portion of the Garner Lane oxygen injection system in accordance with the approved system shut down letter.
- Shut down the 9 North Clinton Avenue oxygen injection system and continue post-shutdown monitoring. It is noted that the system was shut down on August 13, 2021 with NYSDEC approval.

- Evaluate groundwater data in vicinity of the remaining active treatment systems and optimize or shut down systems, as appropriate.

5.2 Groundwater Monitoring

5.2.1 Operable Unit 1 and Operable Unit 2

- Continue evaluation of the groundwater impacts in OU-1 and OU-2, in the vicinity and immediately downgradient of the barrier wall, primarily in the shallow and deep zones.

5.2.2 Operable Unit 3

- The groundwater concentrations in the shallow and intermediate zones in the Brightwaters Yard will continue to be evaluated.
- Abandon select monitoring wells in OU-3 in accordance with the NYSDEC-approved work plan. It is noted that the well abandonments were completed during October 2021.

5.2.3 Operable Unit 4

- Continue quarterly monitoring.

5.2.4 Sitewide

- Continue quarterly gauging and sampling of the groundwater monitoring well network in accordance with the approved long-term monitoring program.
- Discontinue the sulfate program with NYSDEC approval since there has only been one detection above the AWQS criteria for Class GA groundwater during the past two years.

5.3 Remedial Activity

5.3.1 Operable Unit 1

- Evaluate whether to abandon the remaining injection wells in the southern line of the 60/66 North Clinton Avenue oxygen injection system in accordance with the NYSDEC-approved work plan. The southern, downgradient line of the 60/66 North Clinton Avenue oxygen injection system was replaced by a new treatment line on the northern, upgradient property boundary and additional injections wells were added across North Clinton Avenue both behind and in front of the barrier wall.

5.3.2 Operable Unit 2

- Discontinue monitoring of groundwater in the vicinity of the Manatuck Lane portion of the Garner Lane oxygen injection system as discussed in Section 5.1.3.

- Shut down the 9 North Clinton Avenue oxygen injection system and continue post-shut down monitoring. It is noted that the system was shut down on August 13, 2021 with NYSDEC approval.

5.3.3 Operable Unit 3

- Continue to evaluate the supplemental remedial alternatives in the Brightwaters Yard including additional groundwater treatment (ORC-A injection), as well as additional excavation of shallow impacts near wells OU3MW-08S and OU3MW-16S in coordination with drainage work planned for the area.

5.3.4 Operable Unit 4

- Potential excavation of MGP impacts beneath the 22 Oak Street building to be performed concurrent with potential property redevelopment activities.

References

Dvirka and Bartilucci Consulting Engineers, 2002. *Bay Shore/Brightwaters Former Manufactured Gas Plant Site, Remedial Investigation Report*, April 2002.

Dvirka and Bartilucci Consulting Engineers, 2003. *Bay Shore/Brightwaters Former Manufactured Gas Plant Site, Final Remedial Investigation Report*, January 2003.

Foster Wheeler Environmental Corporation, 2000. *Interim Remedial Measure (IRM) Investigation Report, Brightwaters Yard Groundwater Plume*, Bay Shore/Brightwaters Former MGP Site, May 2000.

Foster Wheeler Environmental Corporation, 2002. *Final Summary Report for Crum's Brook Restoration, Area C Interim Remedial Measure in Town of Islip, New York*, November 2002.

GEI Consultants, Inc., 2004a. *Final Remedial Action Plan*, Bay Shore Former MGP-Site, Operable Unit No. 1, Bay Shore, New York, August 2004.

GEI Consultants, Inc., 2004b. *Interim Remedial Measure Work Plan,* Bay Shore Former Manufactured Gas Plant Site, Operable Unit No. 4 Former Cesspool Area, Bay Shore, New York, April 20, 2004.

GEI Consultants, Inc., 2005. *Draft ISCO Pilot Test Summary Report,* Bay Shore Former MGP Site, Bay Shore, New York, AOC Index No. D1-0001-98-11, April 18, 2005.

GEI Consultants, Inc., 2006. *IRM Summary Report – Oxygen Injection System Installation,* Bay Shore Former MGP Site, Operable Unit No. 2, Bay Shore, New York, AOC Index No. D1-0001-98-11, October 19, 2006.

GEI Consultants, Inc., 2007a. *Surfactant Enhanced In-Situ Chemical Oxidation Pilot Test Report, Operable Unit No. 1,* Bay Shore, New York, AOC Index No. D1-0001-98-11, October 2007.

GEI Consultants, Inc., 2007b. *Hydrologic Study*, Bay Shore/Brightwaters Former MGP Site, Bay Shore, New York, December 31, 2007.

GEI Consultants, Inc., 2009a. *Remedial Design Document*, Bay Shore/Brightwaters Former MGP Site, Operable Unit No. 2, Bay Shore, New York, January 12, 2009.

GEI Consultants, Inc., 2009b. *Phase 1A Remedial Design Report 100% Submission,* Bay Shore/Brightwaters Former MGP, Bay Shore, New York, March 11, 2009.

GEI Consultants, Inc., 2009c. *LIRR Excavation/Temporary Track Relocation Interim Remedial Measure Work Plan and Design*, Bay Shore/Brightwaters Former MGP Site, Operable Unit No. 3, Bay Shore, New York, July 17, 2009.

GEI Consultants, Inc., 2010a. *Phase IV Remedial Design Report 100% Submission Former King Bear/Summer's Lumber Properties*, Bay Shore/Brightwaters Former MGP Site, Operable Unit No. 1, Bay Shore, New York, February 18, 2010.

GEI Consultants, Inc., 2010b. *Final Drainage Network Rehabilitation Interim Remedial Measure Completion Report*, Bay Shore/Brightwaters Former MGP Site, Operable Unit No. 3, Bay Shore, New York, August 11, 2010.

GEI Consultants, Inc., 2010c. *Draft Cesspool Area Excavation Interim Remedial Measure Construction Completion Report*, Bay Shore Former MGP Site, Operable Unit No. 4, Bay Shore, New York, October 1, 2010.

GEI Consultants, Inc., 2010d. *OU-2 Oxygen Injection Systems Completion Report*, Bay Shore/Brightwaters Former MGP Site, Operable Unit No. 2, Bay Shore, New York, December 2010.

GEI Consultants, Inc., 2010e. *Oxygen Injection System and Monitoring Well Abandonment Summary Report, Operable Unit No. 3 (OU-3)*, Bay Shore/Brightwaters Former MGP Site, Bay Shore, New York, December 8, 2010.

GEI Consultants, Inc., 2018. *Soil Vapor Extraction System Shutdown,* Bay Shore/Brightwaters Former MGP Site (OU-1), Bay Shore, New York, Site No. 152172, June 8, 2018.

Gilbert, R.O., 1987. *Statistical Methods for Environmental Pollution Monitoring.* Van Nostrand Reinhold, New York.

KeySpan, 2004. *Work Plan for Supplemental IRM Activities for the Bay Shore Former MGP Site, Operable Unit No. 3 – Brightwaters Yard Groundwater Plume (IRM-OU3A)*, Bay Shore, New York, January 2004.

KeySpan, 2006. *DNAPL Recovery Pump Test Summary, Bay Shore Former MGP Site – Area South of LIRR, Bay Shore, New York*, September 26, 2006.

KeySpan, 2007. *Temporary Oxygen Injection System, Bay Shore/Brightwaters Former MGP Site, Operable Unit No. 1, Bay Shore, New York*, July 25, 2007.

National Grid, 2010. *Oxygen Injection System and Monitoring Well Abandonment Summary Report, Bay Shore/Brightwaters Former Manufactured Gas Plant Site, Operable Unit No. 3, Bay Shore, New York*, December 8, 2010.

National Grid, 2011. *Community Road Oxygen Injection Line Reconfiguration, Operable Unit No. 3 (OU-3), Bay Shore/Brightwaters Former Manufactured Gas Plant Site,* November 8, 2011.

National Grid, 2013, *ORC-A Interim Remedial Measure Completion and Supplemental ORC-A IRM Scope of Work. Lanier Lane, Operable Unit No. 3, Bay Shore/Brightwaters Former MGP Site*, July 30, 2013.

National Grid, 2020. *ORC-A Application – Summary Report. OU-3 Bay Shore/Brightwaters Former MGP Site, Bay Shore, New York, Site No. 1-52-172, Order on Consent Index No. D1-0001-98-11,* June 15, 2020.

NYSDEC, 2008. *Voluntary Cleanup Program Decision Document, KeySpan/National Grid – Former Bay Shore/Brightwaters MGP Site, Operable Unit 2: MGP Off-Site Plume, Bay Shore (V), Suffolk County, New York, Site No. 1-52-172*, July 2008.

Paulus, Sokolowski and Sartor Engineering, PC, 2004. *Draft Supplemental Interim Remedial Measure (IRM) Completion Report for the Bay Shore/Brightwaters Former Manufactured Gas Plant (MGP) Site – Operable Unit No. 3, Brightwaters Yard*, December 2004.

Paulus, Sokolowski and Sartor Engineering, PC, 2005. *Supplemental Interim Remedial Measure (IRM) Completion Report*, Bay Shore/Brightwaters Former Manufactured Gas Plant (MGP) Site-Operable Unit No. 3, Brightwaters Yard, August 2005.

Paulus, Sokolowski and Sartor Engineering, PC, 2009. *Final Completion Report*, Bay Shore Former Manufactured Gas Plant (MGP) Site. Phase I and Phase II Remedial Activities, Operable Unit No. 1, Bay Shore, New York, October 2009.

United States Environmental Protection Agency, 1997. *Expedited Site Assessment Tools for Underground Storage Tank Sites – A Guide for Regulators*, March 1997.

VeruTEK Technologies, Inc., 2008. *Surfactant Enhanced In-Situ Chemical Oxidation Work Plan, Bay Shore Former MGP Site, Operable Unit No. 4 Cesspool,* February 2008.

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Tables also available at www.bayshoreworksmgp.com

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Table 3-1. OU-1 Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2018/2019 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1

Well ID	Date of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-05D	7/1/2021	23.97	10.32	13.65	
BBMW-13D	6/30/2021	23.90	5.01	18.89	Stickup to flushmount/needs resurvey
BBMW-20I	7/1/2021	18.63	5.03	13.60	
BBMW-22S	7/1/2021	20.87	7.10	13.77	
BBMW-22I	7/1/2021	17.58	7.18	10.40	
BBMW-22D	7/1/2021	20.77	6.94	13.83	
BBMW-26S	7/1/2021	24.96	9.76	15.20	
BBMW-26I	7/1/2021	25.02	9.78	15.24	
BBMW-27S	7/1/2021	25.03	9.72	15.31	
BBMW-27I	7/1/2021	25.37	10.11	15.26	
BBMW-34S	7/1/2021	25.03	10.82	14.21	
BBMW-34I	7/1/2021	25.24	11.12	14.12	
BBMW-34I2	7/1/2021	25.05	11.00	14.05	
BBMW-34D	7/1/2021	25.21	11.13	14.08	
BBMW-35S	7/1/2021	24.08	10.80	13.28	
BBMW-35I	7/1/2021	24.17	10.84	13.33	
BBMW-35I2	7/1/2021	24.10	10.78	13.32	
BBMW-35D	7/1/2021	24.07	10.73	13.34	
BBMW-38S	7/1/2021	26.14	11.57	14.57	
BBMW-38I	7/1/2021	26.09	11.49	14.60	
BBMW-38I2	7/1/2021	26.16	11.60	14.56	
BBMW-38D	7/1/2021	26.08	11.49	14.59	
BBMW-39S	7/1/2021	23.99	10.01	13.98	
BBMW-39I	7/1/2021	24.03	10.86	13.17	
BBMW-39I2	7/1/2021	23.98	10.87	13.11	
BBMW-39D	7/1/2021	23.98	10.04	13.94	
BBMW-40S	7/1/2021	24.76	10.31	14.45	
BBMW-40I	7/1/2021	24.77	10.29	14.48	
BBMW-40I2	7/1/2021	24.77	10.32	14.45	
BBMW-40D	7/1/2021	24.76	10.30	14.46	
BBMW-41S	7/1/2021	24.28	9.98	14.30	
BBMW-41I	7/1/2021	24.37	10.07	14.30	
BBMW-41I2	7/1/2021	24.47	10.21	14.26	
BBMW-41D	7/1/2021	24.40	10.15	14.25	
MW-03S	6/30/2021	22.59	6.19	16.40	Stickup to flushmount/needs re-survey
MW-03D	6/30/2021	22.48	6.11	16.37	Stickup to flushmount/needs re-survey
MW-05S	7/1/2021	24.05	10.09	13.96	
MW-05D	7/1/2021	24.37	10.06	14.31	
MW-09S	7/1/2021	25.17	9.67	15.50	
MW-09I	7/1/2021	24.71	9.22	15.49	
MW-09I2	7/1/2021	25.59	10.19	15.40	
MW-09D	7/1/2021	25.51	10.09	15.42	
OZMW-16S	6/30/2021	19.88	6.69	13.19	
OZMW-16I	6/30/2021	19.90	6.67	13.23	
OZMW-16I2	6/30/2021	19.72	6.54	13.18	
OZMW-16D	6/30/2021	20.10	6.91	13.19	
OZMW-17S	6/30/2021	19.83	6.61	13.22	
OZMW-17I	6/30/2021	19.91	6.69	13.22	
OZMW-17I2	6/30/2021	19.86	6.20	13.66	
OZMW-17D	6/30/2021	19.88	6.20	13.68	
OZMW-18S	6/30/2021	19.56	5.90	13.66	
OZMW-18I	6/30/2021	19.98	6.45	13.53	
OZMW-18I2	6/30/2021	19.97	6.35	13.62	
OZMW-18D	6/30/2021	19.53	6.35	13.18	
OZMW-19S	7/1/2021	26.11	12.14	13.97	
OZMW-19I	7/1/2021	26.08	12.40	13.68	
OZMW-19I2	7/1/2021	26.08	12.44	13.64	
OZMW-19D	7/1/2021	26.08	12.39	13.69	
OZMW-21S	7/1/2021	24.38	10.28	14.10	
OZMW-21I	7/1/2021	24.38	10.30	14.08	
OZMW-21I2	7/1/2021	24.36	10.36	14.00	
OZMW-21D	7/1/2021	24.33	10.23	14.10	
OZMW-22RS	6/30/2021	22.69	9.51	13.18	
OZMW-22RI	6/30/2021	22.72	9.93	12.79	
OZMW-23S	7/1/2021	24.33	10.94	13.39	

Table 3-1. OU-1 Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2018/2019 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1

Well ID	Date of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OZMW-23I	7/1/2021	24.32	10.94	13.38	
OZMW-23I2	7/1/2021	24.29	10.98	13.31	
OZMW-23D	7/1/2021	24.28	10.92	13.36	
OZMW-24S	7/1/2021	20.39	9.69	10.70	
OZMW-24I	7/1/2021	23.12	9.77	13.35	
OZMW-24I2	7/1/2021	23.12	9.75	13.37	
OZMW-24D	7/1/2021	23.10	9.65	13.45	
OZMW-25S	7/1/2021	24.67	10.83	13.84	
OZMW-25I	7/1/2021	24.55	10.72	13.83	
OZMW-25I2	7/1/2021	24.61	10.78	13.83	
OZMW-25D	7/1/2021	24.82	10.97	13.85	
OZMW-26S	7/1/2021	24.59	10.81	13.78	
OZMW-26I	7/1/2021	24.60	10.80	13.80	
OZMW-26I2	7/1/2021	24.60	10.89	13.71	
OZMW-26D	7/1/2021	24.60	10.90	13.70	

Notes:
1 - Well Elevations obtained from 2007 survey or later and reference NAVD88 datum
MSL - Mean Sea Level

Table 3-2. OU-1 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 1

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Oct-92	Nov-99	Mar-02	Jun-02	Aug-02	Nov-02	Mar-03	Jul-03	Sep-03	Jan-04	Apr-04	Aug-04
BBMW-05D	64.0 - 74.0	NC	13.67	13.42	13.51	12.15	14.25	14.72	14.55	13.70	14.15	15.83	13.54
BBMW-05D2	126.5 - 136.5	NC	NC	14.00	13.82	12.30	14.72	15.54	15.07	14.51	15.10	16.23	14.38
BBMW-05D2R	127.0 - 137.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-13D	62.0 -72.0	NC	14.05	13.75	14.55	12.48	14.64	15.12	15.15	14.09	14.52	16.29	13.91
BBMW-20S	4.0 - 14.0	NC	NC	NC	12.59	11.28	13.21	13.72	13.56	12.71	13.13	14.59	12.56
BBMW-20I	35.0 - 45.0	NC	NC	NC	12.52	11.22	13.14	13.64	13.48	12.64	13.04	14.51	12.50
BBMW-20D	62.0 - 72.0	NC	NC	NC	12.62	11.32	13.25	13.76	13.62	12.93	13.33	14.80	12.76
BBMW-22S	5.0 - 10.0	NC	NC	13.26	13.34	12.01	13.99	14.52	14.35	13.51	13.92	15.54	13.34
BBMW-22I	30.0 - 40.0	NC	NC	13.26	13.34	12.02	14.01	14.52	14.36	13.42	13.94	15.52	13.33
BBMW-22D	64.0 - 74.0	NC	NC	13.26	13.34	12.01	14.01	14.55	14.37	13.61	13.98	15.52	13.37
BBMW-26S	6.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-26I	30.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-27S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-27I	30.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I2	40.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41S	6.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-03S	3.0 -13.0	13.81	14.02	13.72	14.51	12.45	14.60	15.10	15.11	14.07	14.49	16.23	13.87
MW-03D	35.0 - 45.0	13.77	14.01	13.72	14.48	12.44	14.59	15.09	15.08	14.06	14.49	16.22	13.87
MW-05S	4.0 - 14.0	17.61	13.75	13.45	13.50	12.16	14.19	14.72	14.55	13.69	14.15	15.83	13.54
MW-05D	35.5 - 45.5	18.51	14.71	14.41	14.51	13.16	15.21	15.73	15.52	14.70	15.15	15.81	13.55
MW-09S	4.0 - 14.0	15.24	15.34	NC	15.08	13.55	15.67	16.50	16.55	15.54	15.88	17.44	15.26
MW-09I	30.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-09I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-09D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-2. OU-1 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 1

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Oct-92	Nov-99	Mar-02	Jun-02	Aug-02	Nov-02	Mar-03	Jul-03	Sep-03	Jan-04	Apr-04	Aug-04
OZMW-17S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17D	53.0 - 63.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19D	53.0 - 63.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22RS	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22RI	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-2. OU-1 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 1

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Oct-04	Feb-05	May-05	Aug-05	Nov-05	Feb-06	May-06	Jul/Aug-06	Nov-06	Jan-07	May-07	Jul/Aug-07
BBMW-05D	64.0 - 74.0	13.99	14.66	14.55	13.32	15.08	14.95	14.46	14.19	14.63	14.51	14.91	14.23
BBMW-05D2	126.5 - 136.5	15.10	15.66	15.62	13.64	16.27	16.22	15.38	14.51	15.61	15.81	16.19	14.44
BBMW-05D2R	127.0 - 137.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-13D	62.0 -72.0	14.37	15.04	14.86	13.71	15.45	15.33	14.83	14.54	14.99	14.93	15.32	14.55
BBMW-20S	4.0 - 14.0	13.00	13.66	13.54	12.35	14.08	13.93	13.45	13.17	13.64	13.55	NC	NC
BBMW-20I	35.0 - 45.0	12.92	12.68	13.46	12.63	14.34	14.20	13.73	13.42	13.90	13.79	NC	NC
BBMW-20D	62.0 - 72.0	13.20	13.83	NC	13.00	14.70	14.55	14.10	13.78	14.28	14.20	NC	NC
BBMW-22S	5.0 - 10.0	13.79	14.44	14.34	13.13	14.93	14.75	14.26	13.97	14.43	14.34	14.73	14.08
BBMW-22I	30.0 - 40.0	13.78	14.43	14.33	13.12	14.88	14.74	14.26	13.97	14.43	14.34	14.72	14.08
BBMW-22D	64.0 - 74.0	13.83	14.42	14.36	13.16	14.96	14.76	14.27	13.98	14.49	14.41	14.46	13.70
BBMW-26S	6.0 - 16.0	NC	16.11	16.09	14.74	16.60	16.49	15.98	15.72	16.11	16.07	16.46	15.67
BBMW-26I	30.0 - 40.0	NC	16.12	16.10	14.79	16.62	16.50	15.98	15.72	16.10	16.08	16.46	15.63
BBMW-27S	5.0 - 15.0	NC	16.10	16.08	14.73	16.59	16.47	15.98	NC	16.04	16.02	16.42	15.67
BBMW-27I	30.0 - 40.0	NC	16.14	16.11	14.78	16.62	16.50	16.00	NC	16.07	16.05	16.44	15.70
BBMW-34S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I2	40.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41S	6.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-03S	3.0 -13.0	14.33	15.01	14.88	13.64	15.42	15.30	14.80	14.51	14.98	14.88	15.29	14.52
MW-03D	35.0 - 45.0	14.33	15.00	14.89	13.65	15.41	15.27	14.80	14.50	14.94	14.89	15.28	14.51
MW-05S	4.0 - 14.0	13.99	14.66	14.54	13.32	14.06	14.96	14.46	14.17	14.63	14.53	14.93	14.23
MW-05D	35.5 - 45.5	14.00	14.66	14.55	13.32	15.08	14.95	14.45	14.18	14.65	14.56	14.95	14.24
MW-09S	4.0 - 14.0	15.74	16.41	16.40	15.03	16.89	16.79	16.29	NC	16.34	16.33	16.75	15.96
MW-09I	30.0 - 40.0	NC	16.37	16.37	15.02	16.85	16.77	16.28	NC	16.34	16.32	16.72	15.94
MW-09I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-09D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-2. OU-1 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 1

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Oct-04	Feb-05	May-05	Aug-05	Nov-05	Feb-06	May-06	Jul/Aug-06	Nov-06	Jan-07	May-07	Jul/Aug-07
OZMW-17S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17D	53.0 - 63.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-18D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-19D	53.0 - 63.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22RS	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22RI	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-2. OU-1 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
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Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Oct/Nov-07	Jan-08	Apr-08	Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10	Jul-10
BBMW-05D	64.0 - 74.0	13.41	14.27	15.01	14.01	14.54	14.60	14.91	14.82	13.69	14.70	16.40	13.63
BBMW-05D2	126.5 - 136.5	14.18	15.07	15.81	14.01	15.33	15.66	14.75	15.61	NC	NC	NC	NC
BBMW-05D2R	127.0 - 137.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-13D	62.0 -72.0	13.66	14.63	15.25	14.09	14.76	14.86	15.12	15.01	14.14	15.24	16.52	14.17
BBMW-20S	4.0 - 14.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-20I	35.0 - 45.0	NC	13.91	NC	NC	14.21	NC	NC	NC	NC	NC	14.42	11.72
BBMW-20D	62.0 - 72.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-22S	5.0 - 10.0	13.26	13.86	14.63	13.80	14.41	14.46	14.72	14.68	11.07	14.78	16.50	13.75
BBMW-22I	30.0 - 40.0	13.27	14.11	14.82	13.80	14.40	14.45	14.75	14.69	7.82	11.46	13.17	10.42
BBMW-22D	64.0 - 74.0	12.89	14.10	14.82	13.68	14.31	14.42	14.75	14.66	10.92	14.78	16.43	13.71
BBMW-26S	6.0 - 16.0	14.74	15.63	16.38	15.19	15.82	16.04	16.22	16.14	15.27	16.34	17.85	15.34
BBMW-26I	30.0 - 40.0	14.76	15.64	16.37	15.19	15.82	16.09	16.24	16.16	15.27	16.36	17.84	15.34
BBMW-27S	5.0 - 15.0	14.76	15.66	16.38	15.21	15.81	16.02	16.22	16.14	15.29	16.30	17.76	15.34
BBMW-27I	30.0 - 40.0	14.80	15.65	16.33	15.24	15.84	16.04	16.21	16.16	15.30	16.33	17.79	15.34
BBMW-34S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	14.27	15.33	16.65	14.21
BBMW-34I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.17	15.22	16.79	14.13
BBMW-34I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	14.16	15.22	16.61	14.15
BBMW-34D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	14.16	15.21	16.79	14.15
BBMW-35S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I2	40.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	14.70	15.83	17.32	14.70
BBMW-38I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.63	15.69	17.22	14.64
BBMW-38I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	14.63	15.68	17.25	14.63
BBMW-38D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	14.63	15.71	17.22	14.66
BBMW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	14.03	15.04	16.58	14.00
BBMW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.03	15.03	16.58	14.00
BBMW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	14.02	15.01	16.54	13.98
BBMW-39D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	14.02	15.03	16.55	14.00
BBMW-40S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	14.54	15.66	17.15	14.53
BBMW-40I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.55	15.58	17.08	14.55
BBMW-40I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	14.52	15.54	17.07	14.52
BBMW-40D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	14.55	15.57	17.08	14.55
BBMW-41S	6.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	14.29	15.36	16.68	14.29
BBMW-41I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.32	15.38	16.82	14.32
BBMW-41I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	14.28	15.36	16.93	14.27
BBMW-41D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	14.28	15.35	16.89	14.27
MW-03S	3.0 -13.0	13.64	14.60	15.21	14.05	14.72	14.83	15.10	15.00	14.11	15.21	16.48	14.14
MW-03D	35.0 - 45.0	13.62	14.60	15.21	14.05	14.72	14.81	15.10	14.98	14.11	15.21	16.46	14.13
MW-05S	4.0 - 14.0	13.40	14.24	15.01	13.99	9.51	14.58	14.92	14.82	13.96	14.98	16.74	13.89
MW-05D	35.5 - 45.5	13.42	14.26	14.98	14.00	9.82	14.60	14.91	14.82	14.29	15.29	17.02	14.26
MW-09S	4.0 - 14.0	14.99	15.85	16.63	15.45	16.09	16.35	16.49	16.41	15.52	16.62	18.00	15.59
MW-09I	30.0 - 40.0	15.02	15.90	16.64	15.44	16.07	16.35	16.50	16.45	15.54	16.62	18.02	15.60
MW-09I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	15.47	16.56	17.96	15.54
MW-09D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	15.45	16.55	17.94	15.53
OZMW-16S	5.0 - 15.0	NC	NC	NC	13.06	13.76	13.75	14.05	13.99	NC	NC	NC	NC
OZMW-16I	20.0 - 30.0	NC	NC	NC	13.07	13.76	13.74	14.06	14.01	NC	NC	NC	NC
OZMW-16I2	35.0 - 45.0	NC	NC	NC	13.11	13.77	13.75	14.05	14.02	NC	NC	NC	NC
OZMW-16D	55.0 - 65.0	NC	NC	NC	13.05	13.81	13.77	14.05	14.02	NC	NC	NC	NC

Table 3-2. OU-1 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 1

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Oct/Nov-07	Jan-08	Apr-08	Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10	Jul-10
OZMW-17S	5.0 - 15.0	NC	NC	NC	13.10	13.84	13.67	14.10	14.03	13.19	14.23	15.92	13.19
OZMW-17I	20.0 - 30.0	NC	NC	NC	13.07	13.83	13.75	14.11	14.02	13.18	14.23	15.94	13.19
OZMW-17I2	35.0 - 45.0	NC	NC	NC	13.05	13.79	13.73	14.05	13.99	13.14	14.2	15.91	13.13
OZMW-17D	53.0 - 63.0	NC	NC	NC	13.02	13.80	13.74	14.09	13.99	13.16	14.21	15.86	13.12
OZMW-18S	5.0 - 15.0	NC	NC	NC	12.72	13.76	13.66	14.01	13.95	NC	NC	NC	NC
OZMW-18I	20.0 - 30.0	NC	NC	NC	13.38	14.14	14.04	14.36	14.30	NC	NC	NC	NC
OZMW-18I2	35.0 - 45.0	NC	NC	NC	13.49	14.23	14.14	14.44	14.38	NC	NC	NC	NC
OZMW-18D	55.0 - 65.0	NC	NC	NC	12.98	13.76	13.65	13.98	13.92	NC	NC	NC	NC
OZMW-19S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	16.52	13.99
OZMW-19I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	16.37	13.66
OZMW-19I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	16.31	13.62
OZMW-19D	53.0 - 63.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	16.38	13.67
OZMW-21S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-21D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22S	5.0 - 15.0	NC	NC	NC	13.44	14.15	14.13	14.39	14.38	13.52	NC	NC	NC
OZMW-22I	20.0 - 30.0	NC	NC	NC	13.48	14.16	14.14	14.42	14.39	13.51	NC	NC	NC
OZMW-22I2	35.0 - 45.0	NC	NC	NC	13.46	14.15	14.12	14.39	14.36	13.50	NC	NC	NC
OZMW-22D	55.0 - 65.0	NC	NC	NC	13.42	14.12	14.09	14.38	14.32	13.46	NC	NC	NC
OZMW-22RS	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22RI	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-23D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-24D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-25S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	13.86	14.87	16.66	13.82
OZMW-25I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	13.87	14.85	16.63	13.81
OZMW-25I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	13.88	14.89	16.64	13.81
OZMW-25D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	13.88	14.89	16.63	13.85
OZMW-26S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	13.86	14.87	16.66	13.82
OZMW-26I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-26D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-2. OU-1 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 1

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Apr-15	Jun-16	Apr-17
BBMW-05D	64.0 - 74.0	13.27	13.95	13.97	13.85	14.43	14.11	13.75	14.16	14.85	14.53	13.17	14.82
BBMW-05D2	126.5 - 136.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-05D2R	127.0 - 137.0	14.26	14.85	14.77	14.40	15.13	15.30	15.01	NC	NC	NC	NC	NC
BBMW-13D	62.0 -72.0	13.73	14.46	14.46	14.37	14.20	14.67	14.27	14.70	15.21	15.07	13.64	15.46
BBMW-20S	4.0 - 14.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-20I	35.0 - 45.0	13.17	13.93	13.98	11.21	11.23	14.07	13.71	14.11	14.92	14.47	12.66	14.61
BBMW-20D	62.0 - 72.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-22S	5.0 - 10.0	13.37	14.04	14.37	13.99	14.17	14.23	13.88	14.23	12.07	14.64	12.54	14.89
BBMW-22I	30.0 - 40.0	10.04	10.73	11.06	10.67	11.18	11.32	10.56	10.93	8.75	11.30	9.92	11.53
BBMW-22D	64.0 - 74.0	13.18	13.01	12.97	13.80	14.35	14.46	13.72	14.09	12.02	14.63	12.20	14.87
BBMW-26S	6.0 - 16.0	14.76	15.43	15.93	15.49	15.73	15.73	15.35	15.77	16.53	16.12	NC	16.34
BBMW-26I	30.0 - 40.0	14.77	15.51	15.93	15.50	15.74	15.73	15.34	15.78	16.49	16.14	NC	16.34
BBMW-27S	5.0 - 15.0	14.77	15.45	15.91	15.19	15.72	15.70	15.33	15.74	16.00	16.19	NC	16.23
BBMW-27I	30.0 - 40.0	14.78	15.48	15.94	15.50	15.75	15.70	15.35	15.77	16.22	16.10	NC	16.24
BBMW-34S	5.0 - 15.0	13.77	14.53	14.85	14.46	14.33	14.69	14.28	14.35	15.62	15.08	13.72	15.49
BBMW-34I	25.0 - 30.0	13.75	14.44	14.76	14.37	14.99	14.93	14.51	14.53	15.77	14.99	13.63	15.37
BBMW-34I2	40.0 - 45.0	13.51	14.44	14.85	14.36	14.35	14.61	14.27	14.30	15.22	14.98	13.48	15.32
BBMW-34D	65.0 - 70.0	13.70	14.45	14.74	14.37	14.32	14.58	14.25	14.60	15.36	14.98	13.81	15.35
BBMW-35S	5.0 - 15.0	NC	NC	13.98	13.54	13.79	13.80	13.48	13.81	14.57	14.09	12.77	12.31
BBMW-35I	25.0 - 30.0	NC	NC	13.97	13.60	13.90	13.82	13.54	13.85	14.52	14.15	12.85	14.15
BBMW-35I2	40.0 - 50.0	NC	NC	13.86	13.56	13.79	13.82	13.49	13.81	14.45	14.13	12.83	14.17
BBMW-35D	63.0 - 68.0	NC	NC	13.80	13.56	13.81	13.78	13.52	13.82	14.36	14.12	12.80	14.04
BBMW-38S	5.0 - 15.0	14.15	14.98	15.68	14.94	18.72	15.19	14.75	15.18	15.90	15.46	14.05	17.21
BBMW-38I	25.0 - 30.0	14.13	14.87	15.16	14.85	18.70	15.17	14.75	15.10	15.82	15.45	14.07	15.72
BBMW-38I2	40.0 - 45.0	14.14	14.87	15.19	14.84	18.60	15.09	14.65	15.14	15.85	15.41	14.13	15.68
BBMW-38D	65.0 - 70.0	14.13	14.87	15.18	14.83	18.78	15.08	14.65	15.08	15.79	15.46	13.97	15.74
BBMW-39S	5.0 - 15.0	13.57	14.27	14.60	14.21	14.49	14.40	14.05	14.48	15.08	14.89	13.48	15.03
BBMW-39I	25.0 - 30.0	13.57	14.27	14.61	14.21	14.44	14.41	14.06	14.44	14.99	14.88	13.48	15.03
BBMW-39I2	45.0 - 50.0	13.55	14.24	14.58	14.17	14.51	14.37	14.02	14.36	15.09	14.83	13.45	15.07
BBMW-39D	65.0 - 70.0	13.57	14.26	14.58	14.71	14.42	14.40	14.05	14.47	15.08	14.84	13.46	15.01
BBMW-40S	5.0 - 15.0	14.06	14.74	15.25	14.72	14.97	14.91	14.54	15.14	15.56	15.44	13.90	15.92
BBMW-40I	25.0 - 30.0	14.05	14.77	15.14	14.74	15.06	14.96	14.57	15.03	15.56	15.33	13.97	15.55
BBMW-40I2	45.0 - 50.0	14.02	14.73	15.09	14.71	14.96	14.96	14.57	15.00	15.51	15.29	12.93	15.53
BBMW-40D	70.0 - 75.0	14.05	14.75	15.12	14.73	15.04	14.91	14.58	15.00	15.67	15.32	12.95	15.54
BBMW-41S	6.0 - 16.0	13.81	14.57	14.76	14.51	14.68	14.74	14.38	14.86	15.37	15.15	13.77	15.53
BBMW-41I	25.0 - 30.0	13.84	14.57	14.95	14.55	14.84	14.77	14.40	14.86	15.59	15.17	13.78	15.57
BBMW-41I2	45.0 - 50.0	13.83	14.58	15.10	14.50	14.97	14.75	14.40	14.80	15.52	15.15	13.78	15.51
BBMW-41D	65.0 - 70.0	13.82	14.55	14.85	14.49	14.81	14.73	14.37	14.81	15.50	15.18	13.76	15.51
MW-03S	3.0 -13.0	13.69	14.43	14.38	14.34	13.59	14.62	14.24	14.66	15.59	15.04	13.60	15.40
MW-03D	35.0 - 45.0	13.67	14.43	14.30	14.34	13.33	14.64	14.25	14.66	15.50	15.04	12.56	15.40
MW-05S	4.0 - 14.0	13.53	14.25	14.25	14.16	14.44	14.41	14.04	14.44	15.25	14.83	13.44	15.12
MW-05D	35.5 - 45.5	13.88	14.60	14.54	14.49	14.75	14.51	14.38	14.79	15.37	15.17	13.78	15.44
MW-09S	4.0 - 14.0	14.99	15.72	16.19	15.77	16.00	16.00	15.60	16.05	16.57	16.41	NC	16.52
MW-09I	30.0 - 40.0	15.00	15.72	16.20	15.76	16.01	16.01	15.62	16.06	16.06	16.39	NC	16.54
MW-09I2	45.0 - 50.0	14.93	15.66	16.13	15.70	15.94	15.92	15.55	16.00	16.69	16.32	NC	16.46
MW-09D	65.0 - 70.0	14.92	15.64	16.11	15.68	15.93	15.91	15.54	15.98	16.62	16.32	NC	16.44
OZMW-16S	5.0 - 15.0	12.86	13.49	13.48	13.43	13.74	13.63	13.29	13.57	14.37	14.00	12.74	14.14
OZMW-16I	20.0 - 30.0	12.91	13.50	13.48	13.46	13.80	13.61	13.33	13.65	14.72	14.10	12.80	14.15
OZMW-16I2	35.0 - 45.0	12.93	13.48	13.49	13.43	13.65	13.61	13.27	13.62	14.51	14.03	12.77	14.14
OZMW-16D	55.0 - 65.0	12.84	13.49	13.53	13.57	14.07	13.64	13.34	13.63	14.59	14.05	12.77	14.17

Table 3-2. OU-1 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 1

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Apr-15	Jun-16	Apr-17
OZMW-17S	5.0 - 15.0	12.86	13.53	13.51	13.23	13.29	13.67	13.34	13.64	14.65	14.08	12.82	14.20
OZMW-17I	20.0 - 30.0	12.85	13.51	13.51	12.80	13.71	13.64	13.32	13.64	14.60	14.07	12.80	14.19
OZMW-17I2	35.0 - 45.0	12.80	13.46	13.45	12.82	13.17	13.60	13.27	13.59	14.36	14.00	12.72	14.14
OZMW-17D	53.0 - 63.0	12.85	13.49	13.50	12.91	13.08	13.62	13.36	13.64	14.32	14.04	12.75	14.17
OZMW-18S	5.0 - 15.0	12.74	13.46	13.44	13.26	13.50	13.57	13.24	13.64	14.46	13.92	12.65	14.10
OZMW-18I	20.0 - 30.0	13.13	13.78	13.80	13.72	13.87	14.03	13.71	13.96	14.82	14.34	13.08	14.51
OZMW-18I2	35.0 - 45.0	13.23	13.88	13.90	13.70	13.83	14.07	13.67	14.06	14.88	14.42	13.16	14.60
OZMW-18D	55.0 - 65.0	12.78	13.41	13.42	13.31	13.34	13.57	13.22	13.67	14.53	13.99	12.66	14.15
OZMW-19S	5.0 - 15.0	13.64	14.37	14.65	14.24	14.50	14.44	14.09	14.05	15.13	14.83	12.57	14.98
OZMW-19I	20.0 - 30.0	13.31	14.02	14.31	13.94	13.78	14.14	13.79	13.99	14.97	14.53	13.24	14.67
OZMW-19I2	35.0 - 45.0	13.26	13.97	14.33	13.88	14.08	14.09	13.74	13.77	14.57	14.47	13.13	14.41
OZMW-19D	53.0 - 63.0	13.34	14.03	14.32	13.94	14.18	14.15	13.81	13.73	14.88	14.55	13.12	14.68
OZMW-21S	5.0 - 15.0	13.71	14.80	15.08	14.34	14.53	14.57	14.19	14.90	15.17	14.96	13.67	15.20
OZMW-21I	20.0 - 30.0	13.67	14.80	15.11	14.29	14.45	14.43	14.04	14.51	15.18	14.94	13.58	15.17
OZMW-21I2	35.0 - 45.0	13.60	14.37	15.13	14.24	14.45	14.56	14.10	14.51	15.10	14.87	13.58	15.11
OZMW-21D	55.0 - 65.0	13.69	14.30	15.04	14.31	14.56	14.47	14.12	15.14	15.03	14.97	13.63	15.20
OZMW-22S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-22RS	5.0 - 15.0	12.97	14.22	13.49	13.61	13.97	13.93	13.51	13.91	14.89	14.38	12.98	14.71
OZMW-22RI	20.0 - 30.0	12.94	13.68	13.56	13.56	13.82	13.85	13.46	14.05	14.47	14.26	12.90	14.65
OZMW-23S	5.0 - 15.0	13.05	13.78	13.79	13.63	13.86	13.87	13.55	15.25	14.68	14.21	12.87	14.28
OZMW-23I	20.0 - 25.0	13.03	13.82	13.83	13.66	13.38	13.88	13.55	15.17	14.61	14.22	12.90	14.29
OZMW-23I2	35.0 - 40.0	12.91	13.76	13.77	13.61	13.89	13.80	13.48	13.78	14.54	14.18	12.84	14.26
OZMW-23D	55.0 - 65.0	13.03	13.80	13.78	13.67	13.76	13.86	13.52	13.83	14.63	14.24	12.81	14.30
OZMW-24S	5.0 - 15.0	10.36	11.04	11.01	10.95	11.07	11.17	10.83	11.27	11.94	11.64	10.20	11.71
OZMW-24I	20.0 - 25.0	13.00	13.71	13.72	13.60	13.76	13.83	13.46	13.86	14.72	14.28	12.92	14.33
OZMW-24I2	35.0 - 40.0	13.02	13.70	13.67	13.61	13.71	13.82	13.49	13.91	14.52	14.27	12.88	14.36
OZMW-24D	55.0 - 65.0	13.04	13.72	13.75	13.71	13.80	13.88	13.50	14.02	14.45	14.34	12.89	14.41
OZMW-25S	5.0 - 15.0	13.45	14.15	14.41	14.06	14.31	14.33	14.43	14.06	15.02	14.74	13.38	14.94
OZMW-25I	20.0 - 30.0	13.42	14.15	14.27	14.05	14.15	14.29	13.84	13.87	14.85	14.70	13.31	14.95
OZMW-25I2	35.0 - 45.0	13.46	14.16	14.42	14.07	14.34	14.29	13.93	13.86	14.90	14.72	13.39	14.97
OZMW-25D	55.0 - 65.0	13.45	14.17	14.56	14.06	14.40	14.30	13.94	13.93	15.14	14.73	13.37	14.96
OZMW-26S	5.0 - 15.0	13.29	14.05	14.32	13.90	14.18	14.18	13.80	14.19	14.91	14.52	13.04	14.59
OZMW-26I	20.0 - 25.0	13.34	14.09	14.35	13.95	14.22	14.20	13.83	14.29	14.82	14.56	13.05	14.66
OZMW-26I2	35.0 - 40.0	13.32	14.09	14.37	13.95	14.22	14.17	13.84	14.25	14.84	14.56	13.10	14.67
OZMW-26D	55.0 - 65.0	13.33	14.09	14.27	13.92	14.17	14.18	13.83	NC	NC	14.56	13.16	14.66

Table 3-2. OU-1 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 1

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level					
		Jun-18	Apr-19	Oct-20	Minimum	Average	Maximum
BBMW-05D	64.0 - 74.0	13.84	13.65	13.65	12.15	14.22	16.40
BBMW-05D2	126.5 - 136.5	NC	NC	NC	12.30	15.02	16.27
BBMW-05D2R	127.0 - 137.0	NC	NC	NC	14.26	14.82	15.30
BBMW-13D	62.0 -72.0	14.51	18.89	18.89	12.48	14.81	18.89
BBMW-20S	4.0 - 14.0	NC	NC	NC	11.28	13.25	14.59
BBMW-20I	35.0 - 45.0	13.74	13.60	13.60	11.21	13.40	14.92
BBMW-20D	62.0 - 72.0	NC	NC	NC	11.32	13.56	14.80
BBMW-22S	5.0 - 10.0	13.89	13.77	13.77	11.07	14.02	16.50
BBMW-22I	30.0 - 40.0	10.59	10.40	10.40	7.82	12.76	15.52
BBMW-22D	64.0 - 74.0	14.07	13.83	13.83	10.92	13.95	16.43
BBMW-26S	6.0 - 16.0	15.55	15.20	15.20	14.74	15.84	17.85
BBMW-26I	30.0 - 40.0	15.38	15.24	15.24	14.76	15.85	17.84
BBMW-27S	5.0 - 15.0	15.47	15.31	15.31	14.73	15.81	17.76
BBMW-27I	30.0 - 40.0	15.46	15.26	15.26	14.78	15.84	17.79
BBMW-34S	5.0 - 15.0	14.96	14.21	14.21	13.72	14.68	16.65
BBMW-34I	25.0 - 30.0	14.33	14.12	14.12	13.63	14.68	16.79
BBMW-34I2	40.0 - 45.0	14.28	14.05	14.05	13.48	14.54	16.61
BBMW-34D	65.0 - 70.0	14.28	14.08	14.08	13.70	14.59	16.79
BBMW-35S	5.0 - 15.0	13.49	13.28	13.28	12.31	13.55	14.57
BBMW-35I	25.0 - 30.0	13.48	13.33	13.33	12.85	13.73	14.52
BBMW-35I2	40.0 - 50.0	13.48	13.32	13.32	12.83	13.69	14.45
BBMW-35D	63.0 - 68.0	13.46	13.34	13.34	12.80	13.67	14.36
BBMW-38S	5.0 - 15.0	15.72	14.57	14.57	14.05	15.45	18.72
BBMW-38I	25.0 - 30.0	14.78	14.60	14.60	14.07	15.26	18.70
BBMW-38I2	40.0 - 45.0	14.75	14.56	14.56	14.13	15.24	18.60
BBMW-38D	65.0 - 70.0	14.74	14.59	14.59	13.97	15.25	18.78
BBMW-39S	5.0 - 15.0	13.10	13.98	13.98	13.10	14.38	16.58
BBMW-39I	25.0 - 30.0	14.11	13.17	13.17	13.17	14.34	16.58
BBMW-39I2	45.0 - 50.0	14.07	13.11	13.11	13.11	14.32	16.54
BBMW-39D	65.0 - 70.0	14.07	13.94	13.94	13.46	14.44	16.55
BBMW-40S	5.0 - 15.0	14.65	14.45	14.45	13.90	14.98	17.15
BBMW-40I	25.0 - 30.0	14.70	14.48	14.48	13.97	14.96	17.08
BBMW-40I2	45.0 - 50.0	14.58	14.45	14.45	12.93	14.86	17.07
BBMW-40D	70.0 - 75.0	14.63	14.46	14.46	12.95	14.89	17.08
BBMW-41S	6.0 - 16.0	13.47	14.30	14.30	13.47	14.67	16.68
BBMW-41I	25.0 - 30.0	13.47	14.30	14.30	13.47	14.73	16.82
BBMW-41I2	45.0 - 50.0	14.44	14.26	14.26	13.78	14.77	16.93
BBMW-41D	65.0 - 70.0	14.39	14.25	14.25	13.76	14.74	16.89
MW-03S	3.0 -13.0	14.32	16.40	16.40	12.45	14.65	16.48
MW-03D	35.0 - 45.0	14.30	16.37	16.37	12.44	14.62	16.46
MW-05S	4.0 - 14.0	14.12	13.96	13.96	9.51	14.27	17.61
MW-05D	35.5 - 45.5	14.47	14.31	14.31	9.82	14.61	18.51
MW-09S	4.0 - 14.0	15.68	15.50	15.50	13.55	15.99	18.00
MW-09I	30.0 - 40.0	15.66	15.49	15.49	15.00	16.09	18.02
MW-09I2	45.0 - 50.0	15.58	15.40	15.40	14.93	15.96	17.96
MW-09D	65.0 - 70.0	15.58	15.42	15.42	14.92	15.94	17.94
OZMW-16S	5.0 - 15.0	13.29	13.19	13.19	12.74	13.55	14.37
OZMW-16I	20.0 - 30.0	13.32	13.23	13.23	12.80	13.60	14.72
OZMW-16I2	35.0 - 45.0	13.33	13.18	13.18	12.77	13.57	14.51
OZMW-16D	55.0 - 65.0	13.29	13.19	13.19	12.77	13.60	14.59

Table 3-2. OU-1 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 1

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level					
		Jun-18	Apr-19	Oct-20	Minimum	Average	Maximum
OZMW-17S	5.0 - 15.0	13.34	13.22	13.22	12.82	13.66	15.92
OZMW-17I	20.0 - 30.0	13.34	13.22	13.22	12.80	13.66	15.94
OZMW-17I2	35.0 - 45.0	13.31	13.66	13.66	12.72	13.63	15.91
OZMW-17D	53.0 - 63.0	13.30	13.68	13.68	12.75	13.64	15.86
OZMW-18S	5.0 - 15.0	13.21	13.66	13.66	12.65	13.53	14.46
OZMW-18I	20.0 - 30.0	13.67	13.53	13.53	13.08	13.89	14.82
OZMW-18I2	35.0 - 45.0	13.73	13.62	13.62	13.16	13.95	14.88
OZMW-18D	55.0 - 65.0	13.25	13.18	13.18	12.66	13.50	14.53
OZMW-19S	5.0 - 15.0	14.12	13.97	13.97	12.57	14.36	16.52
OZMW-19I	20.0 - 30.0	13.85	13.68	13.68	13.24	14.11	16.37
OZMW-19I2	35.0 - 45.0	13.79	13.64	13.64	13.13	14.04	16.31
OZMW-19D	53.0 - 63.0	13.86	13.69	13.69	13.12	14.12	16.38
OZMW-21S	5.0 - 15.0	14.20	14.10	14.10	13.67	14.50	15.20
OZMW-21I	20.0 - 30.0	14.37	14.08	14.08	13.58	14.45	15.18
OZMW-21I2	35.0 - 45.0	14.29	14.00	14.00	13.58	14.39	15.13
OZMW-21D	55.0 - 65.0	14.42	14.10	14.10	13.63	14.47	15.20
OZMW-22S	5.0 - 15.0	NC	NC	NC	13.44	14.00	14.39
OZMW-22I	20.0 - 30.0	NC	NC	NC	13.48	14.02	14.42
OZMW-22I2	35.0 - 45.0	NC	NC	NC	13.46	14.00	14.39
OZMW-22D	55.0 - 65.0	NC	NC	NC	13.42	13.97	14.38
OZMW-22RS	5.0 - 15.0	13.58	13.18	13.18	12.97	13.77	14.89
OZMW-22RI	20.0 - 30.0	13.52	12.79	12.79	12.79	13.62	14.65
OZMW-23S	5.0 - 15.0	13.61	13.39	13.39	12.87	13.81	15.25
OZMW-23I	20.0 - 25.0	13.64	13.38	13.38	12.90	13.78	15.17
OZMW-23I2	35.0 - 40.0	13.58	13.31	13.31	12.84	13.67	14.54
OZMW-23D	55.0 - 65.0	13.61	13.36	13.36	12.81	13.70	14.63
OZMW-24S	5.0 - 15.0	10.93	10.70	10.70	10.20	11.03	11.94
OZMW-24I	20.0 - 25.0	13.59	13.35	13.35	12.92	13.70	14.72
OZMW-24I2	35.0 - 40.0	13.58	13.37	13.37	12.88	13.69	14.52
OZMW-24D	55.0 - 65.0	13.66	13.45	13.45	12.89	13.74	14.45
OZMW-25S	5.0 - 15.0	14.02	13.84	13.84	13.38	14.33	16.66
OZMW-25I	20.0 - 30.0	13.99	13.83	13.83	13.31	14.25	16.63
OZMW-25I2	35.0 - 45.0	14.00	13.83	13.83	13.39	14.28	16.64
OZMW-25D	55.0 - 65.0	14.04	13.85	13.85	13.37	14.32	16.63
OZMW-26S	5.0 - 15.0	13.88	13.78	13.78	13.04	14.19	16.66
OZMW-26I	20.0 - 25.0	13.91	13.80	13.80	13.05	14.06	14.82
OZMW-26I2	35.0 - 40.0	13.92	13.71	13.71	13.10	14.05	14.84
OZMW-26D	55.0 - 65.0	13.91	13.70	13.70	13.16	13.96	14.66

Notes:
NC - Not Calculated
bgs - below ground surface
Well Elevations obtained from 2007 survey
or later and reference NAVD88 datum.

Table 3-3. OU-2 Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2018/2019 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Date of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-01S	7/1/2021	19.65	7.37	12.28	
BBMW-01I	7/1/2021	19.23	6.97	12.26	
BBMW-01D	7/1/2021	19.20	6.91	12.29	
BBMW-02S	7/1/2021	16.83	5.43	11.40	
BBMW-02I	7/1/2021	16.96	5.60	11.36	
BBMW-02D	7/1/2021	17.13	5.72	11.41	
BBMW-03S	6/30/2021	11.33	3.78	7.55	
BBMW-03I	6/30/2021	11.19	3.63	7.56	
BBMW-03D	6/30/2021	11.24	3.65	7.59	
BBMW-04D	7/1/2021	19.69	5.23	14.46	
BBMW-07S	7/1/2021	12.80	7.36	5.44	
BBMW-07I	7/1/2021	12.60	7.19	5.41	
BBMW-07D	7/1/2021	12.58	7.17	5.41	
BBMW-15S	7/1/2021	15.92	5.76	10.16	
BBMW-15I	7/1/2021	15.82	5.72	10.10	
BBMW-15I2	7/1/2021	15.79	5.74	10.05	
BBMW-15D	NM	15.63	NM	NC	
BBMW-16S	6/30/2021	19.04	9.61	9.43	
BBMW-16I	6/30/2021	19.43	10.00	9.43	
BBMW-16D	6/30/2021	18.97	9.49	9.48	
BBMW-23S	7/1/2021	19.13	6.47	12.66	
BBMW-23I	7/1/2021	19.16	6.52	12.64	
BBMW-23D	7/1/2021	19.17	6.47	12.70	
BBMW-23D2	7/1/2021	18.61	5.92	12.69	
BBMW-24S	7/1/2021	18.14	7.44	10.70	
BBMW-24I	7/1/2021	18.01	7.51	10.50	
BBMW-24D	7/1/2021	17.76	7.36	10.40	
BBMW-25S	6/30/2021	12.80	4.79	8.01	
BBMW-25I	6/30/2021	12.79	4.80	7.99	
BBMW-25D	6/30/2021	12.70	4.71	7.99	
GM-05S	6/30/2021	5.73	2.97	2.76	
GM-05I	6/30/2021	5.92	2.98	2.94	
GM-05D	6/30/2021	7.87	0.00	9.30	Artesian
GM-06S	6/30/2021	9.52	6.10	3.42	
GM-06I	6/30/2021	9.56	6.27	3.29	
GM-06D	6/30/2021	9.66	6.32	3.34	
GM-07S	6/30/2021	10.61	8.17	2.44	
GM-07I	6/30/2021	10.53	8.23	2.30	
GM-07D	6/30/2021	10.75	8.09	2.66	
GM-08S	6/30/2021	3.90	2.33	1.57	
GM-08I	6/30/2021	4.05	3.11	0.94	
GM-08D	6/30/2021	3.91	2.98	0.93	
GM-09S	6/30/2021	3.22	2.41	0.81	
GM-09I	6/30/2021	3.41	2.66	0.75	
GM-09D	6/30/2021	3.09	2.31	0.78	
GM-10AD	6/30/2021	8.07	6.44	1.63	
GMP-01	6/30/2021	6.58	3.44	3.14	
GMP-02	6/30/2021	6.28	3.85	2.43	
GMP-04	7/1/2021	3.74	2.81	0.93	
MW-16AS	7/1/2021	16.16	5.76	10.40	
OU2-IW01S	6/30/2021	5.95	3.38	2.57	
OU2MW-01WT	6/30/2021	12.86	4.82	8.04	
OU2MW-01S	6/30/2021	12.41	4.57	7.84	
OU2MW-01I	6/30/2021	12.47	4.62	7.85	
OU2MW-01I2	6/30/2021	12.28	4.51	7.77	
OU2MW-01D	6/30/2021	12.35	3.34	9.01	
OU2MW-02S	6/30/2021	11.58	3.89	7.69	
OU2MW-02I	6/30/2021	11.59	3.89	7.70	
OU2MW-02I2	6/30/2021	11.74	4.03	7.71	
OU2MW-02D	6/30/2021	11.53	3.38	8.15	
OU2MW-03S	6/30/2021	11.23	4.92	6.31	
OU2MW-03I	6/30/2021	11.15	4.81	6.34	
OU2MW-03I2	6/30/2021	11.15	4.12	7.03	
OU2MW-03D	6/30/2021	11.14	3.98	7.16	
OU2MW-04WT	6/30/2021	10.34	3.32	7.02	

Table 3-3. OU-2 Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2018/2019 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Date of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OU2MW-04S	7/1/2021	10.18	3.10	7.08	
OU2MW-04I	7/1/2021	10.10	3.90	6.20	
OU2MW-04I2	7/1/2021	10.05	3.92	6.13	
OU2MW-04D	7/1/2021	10.08	4.07	6.01	
OU2MW-05	7/1/2021	6.32	2.37	3.95	
OU2MW-06S	6/30/2021	4.83	2.94	1.89	
OU2MW-06	6/30/2021	4.43	2.50	1.93	
OU2MW-07S	6/30/2021	5.47	3.83	1.64	
OU2MW-07	6/30/2021	5.34	3.73	1.61	
OU2MW-08WT	6/30/2021	14.93	6.72	8.21	
OU2MW-08S	6/30/2021	14.77	6.62	8.15	
OU2MW-08I	6/30/2021	14.70	6.59	8.11	
OU2MW-08I2	6/30/2021	14.78	6.62	8.16	
OU2MW-08D	6/30/2021	14.87	6.00	8.87	
OU2MW-09	6/30/2021	11.26	3.74	7.52	
OU2MW-10S	6/30/2021	5.31	3.30	2.01	
OU2MW-10I	6/30/2021	5.42	3.20	2.22	
OU2MW-10D	6/30/2021	5.43	3.24	2.19	
OU2MW-11S	6/30/2021	6.69	3.27	3.42	
OU2MW-11I	6/30/2021	6.72	3.37	3.35	
OU2MW-11I2	6/30/2021	6.53	3.24	3.29	
OU2MW-11D	6/30/2021	6.65	3.30	3.35	
OU2MW-12S	6/30/2021	5.70	2.95	2.75	
OU2MW-12I	6/30/2021	5.73	2.97	2.76	
OU2MW-12I2	6/30/2021	5.81	3.06	2.75	
OU2MW-12D	6/30/2021	5.59	2.81	2.78	
OU2MW-13S	6/30/2021	4.78	2.87	1.91	
OU2MW-13I	6/30/2021	4.81	3.06	1.75	
OU2MW-13D	6/30/2021	4.94	3.19	1.75	
OU2MW-14S	6/30/2021	14.58	6.72	7.86	
OU2MW-14I	6/30/2021	14.75	6.59	8.16	
OU2MW-14I2	6/30/2021	14.77	6.61	8.16	
OU2MW-15S	6/30/2021	4.80	2.57	2.23	
OU2MW-15I	6/30/2021	5.09	2.83	2.26	
OU2MW-15I2	6/30/2021	5.13	2.86	2.27	
OU2MW-15D	6/30/2021	5.21	2.95	2.26	
OU2MW-16S	6/30/2021	5.44	3.05	2.39	
OU2MW-16I	6/30/2021	5.31	3.00	2.31	
OU2MW-16I2	6/30/2021	5.31	3.01	2.30	
OU2MW-16D	6/30/2021	5.61	3.24	2.37	
OU2MW-17S	6/30/2021	19.83	7.45	12.38	
OU2MW-17I	6/30/2021	19.91	7.53	12.38	
OU2MW-17I2	6/30/2021	19.86	7.48	12.38	
OU2MW-17D	6/30/2021	19.71	7.35	12.36	
OU2MW-18I	6/30/2021	19.98	7.64	12.34	
OU2MW-18I2	6/30/2021	19.97	7.62	12.35	
OU2MW-18D	6/30/2021	19.97	7.62	12.35	
OU2MW-39S	7/1/2021	21.22	9.73	11.49	
OU2MW-39I	7/1/2021	21.32	9.83	11.49	
OU2MW-39I2	7/1/2021	21.14	9.68	11.46	
OU2MW-39D	7/1/2021	21.18	9.69	11.49	
OU2MW-49S	6/30/2021	18.88	5.96	12.92	
OU2MW-49I	6/30/2021	19.09	5.79	13.30	
OU2MW-49I2	6/30/2021	18.58	5.68	12.90	
OU2MW-49D	6/30/2021	18.72	5.81	12.91	
OU2MW-50S	6/30/2021	20.97	7.81	13.16	
OU2MW-50I	6/30/2021	20.94	7.90	13.04	
OU2MW-50I2	6/30/2021	21.02	7.98	13.04	
OU2MW-50D	6/30/2021	21.09	8.05	13.04	
OU2MW-51S	6/30/2021	20.99	7.52	13.47	
OU2MW-51I	6/30/2021	20.93	7.96	12.97	
OU2MW-51I2	6/30/2021	21.00	7.96	13.04	
OU2MW-51D	6/30/2021	21.03	8.02	13.01	
OU2MW-52S	NM	5.80	NM	NC	abandoned
OU2MW-52I	NM	5.64	NM	NC	abandoned

Table 3-3. OU-2 Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2018/2019 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Date of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OU2MW-52D	NM	5.70	NM	NC	abandoned
OU2MW-53S	NM	4.98	NM	NC	abandoned
OU2MW-53I	NM	4.98	NM	NC	abandoned
OU2MW-53D	NM	5.08	NM	NC	abandoned
OU2MW-54S	6/30/2021	18.24	5.55	12.69	
OU2MW-54I	6/30/2021	18.14	5.45	12.69	
OU2MW-54I2	6/30/2021	18.06	5.39	12.67	
OU2MW-54D	6/30/2021	18.35	5.69	12.66	
OU2MW-57S	6/30/2021	19.21	6.42	12.79	
OU2MW-57I	6/30/2021	18.88	6.06	12.82	
OU2MW-57I2	6/30/2021	19.09	6.29	12.80	
OU2MW-58S	7/1/2021	20.80	8.19	12.61	
OU2MW-58I	7/1/2021	20.79	8.21	12.58	
OU2SW-01*	6/30/2021	2.65	5.97	-3.32	Boat Basin
BBSW-06*	6/30/2021	2.08	2.98	-0.90	Boat Basin
BBSW-07*	6/30/2021	6.83	1.96	4.87	Weir

Notes:
1 - Well Elevations obtained from 2007 survey or later and reference NAVD88 datum
MSL - Mean Sea Level
NM - Not Measured
NA - Not Applicable
NC - Not Calculated
* - Surface Water Gauging Station

Table 3-4. OU-2 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Dec-78	Oct-92	Nov-99	Mar-02	Jun-02	Aug-02	Nov-02	Mar-03	Jul-03	Sep-03	Jan-04	Apr-04
BBMW-01S	5.0 - 15.0	NC	NC	12.33	NC	12.49	NC	12.70	13.34	13.09	12.38	12.67	14.11
BBMW-01I	32.0 - 42.0	NC	NC	12.29	NC	12.47	NC	12.69	13.32	13.07	12.35	12.65	14.09
BBMW-01D	68.5 - 78.5	NC	NC	12.33	NC	12.47	NC	12.75	14.40	13.12	12.37	12.68	14.14
BBMW-02S	5.0 - 15.0	NC	NC	11.45	11.29	11.34	NC	11.85	12.35	12.08	11.42	NC	13.10
BBMW-02I	30.0 - 40.0	NC	NC	11.42	11.26	11.32	NC	11.83	12.33	12.07	11.41	NC	13.08
BBMW-02D	73.0 - 83.0	NC	NC	11.40	11.24	11.30	NC	11.81	NC	12.05	11.38	NC	13.08
BBMW-03S	3.0 - 13.0	NC	NC	7.61	7.51	7.54	NC	8.05	8.23	8.25	7.46	7.74	9.01
BBMW-03I	30.0 - 40.0	NC	NC	7.60	7.52	7.53	NC	8.03	8.24	8.24	7.48	7.73	8.97
BBMW-03D	52.0 - 62.0	NC	NC	7.62	7.52	7.58	NC	8.08	8.27	8.26	7.45	7.77	8.99
BBMW-04D	63.0 - 73.0	NC	NC	13.55	13.28	13.98	12.03	14.10	14.57	14.40	13.54	13.96	15.48
BBMW-07S	5.0 - 15.0	NC	NC	5.29	5.16	5.58	NC	5.90	6.05	5.92	5.45	NC	6.83
BBMW-07I	30.0 - 40.0	NC	NC	5.28	5.13	5.60	NC	5.92	6.06	5.91	5.44	NC	6.83
BBMW-07D	55.0 - 65.0	NC	NC	5.29	5.14	5.59	NC	5.92	NC	5.91	5.47	NC	6.82
BBMW-15S	5.0 - 15.0	NC	NC	10.21	10.06	10.10	NC	10.57	10.93	10.71	10.15	10.46	11.72
BBMW-15I	35.0 - 45.0	NC	NC	10.06	10.02	10.07	NC	10.49	10.91	10.69	10.09	10.45	11.71
BBMW-15I2	23.0 - 28.0	NC	NC	10.14	9.89	9.93	NC	10.37	10.84	10.63	10.10	10.39	11.66
BBMW-15D	70.0 -80.0	NC	NC	10.16	10.01	10.06	NC	10.49	10.87	10.67	10.10	10.40	11.76
BBMW-16S	5.0 - 15.0	NC	NC	9.40	NC	NC	NC	12.82	NC	10.07	9.53	9.67	10.79
BBMW-16I	35.0 - 45.0	NC	NC	9.43	NC	NC	NC	9.85	10.28	10.10	9.56	9.70	10.82
BBMW-16D	68.0 - 78.0	NC	NC	9.42	NC	NC	NC	9.88	10.32	10.12	9.58	9.73	10.86
BBMW-23S	5.0 - 15.0	NC	NC	NC	NC	12.58	NC	13.16	13.78	13.51	12.80	13.09	14.55
BBMW-23I	33.0 - 43.0	NC	NC	NC	NC	12.62	NC	13.15	13.78	13.50	12.79	13.08	14.55
BBMW-23D	49.5 - 59.5	NC	NC	NC	NC	12.54	NC	13.16	13.78	13.52	12.80	13.10	14.55
BBMW-23D2	63.0 - 73.0	NC	NC	NC	NC	12.80	NC	13.19	13.81	13.46	12.82	13.10	14.57
BBMW-24S	4.0 - 14.0	NC	NC	NC	NC	10.36	NC	10.83	11.36	11.17	10.49	10.74	12.15
BBMW-24I	32.0 - 42.0	NC	NC	NC	NC	10.35	NC	10.83	11.36	11.15	10.48	10.74	12.15
BBMW-24D	59.5 - 69.5	NC	NC	NC	NC	10.36	NC	10.82	11.36	11.15	10.49	10.75	12.16
BBMW-25S	4.0 - 14.0	NC	NC	NC	NC	7.33	NC	7.85	8.22	8.03	7.32	7.60	8.98
BBMW-25I	25.0 - 35.0	NC	NC	NC	NC	7.36	NC	7.87	8.25	8.04	7.35	7.63	8.99
BBMW-25D	62.0 - 72.0	NC	NC	NC	NC	7.35	NC	NC	8.22	7.98	7.28	7.56	8.92
GM-03S	6.78 - 21.78	8.95	9.13	9.34	NC	9.53	NC	9.68	10.00	10.02	9.39	9.59	10.83
GM-03I	30.03 - 45.03	8.88	8.95	9.18	NC	9.35	NC	9.51	9.84	9.83	9.22	9.42	10.67
GM-03D	53.18 - 68.18	9.07	9.16	9.27	NC	9.45	NC	9.63	9.93	9.94	9.32	9.53	10.77
GM-05S	5.1 - 20.1	2.12	2.48	2.49	2.52	3.21	NC	3.35	2.80	3.21	2.62	2.49	3.74
GM-05I	35.05 - 48.05	2.28	2.69	2.59	2.62	3.37	NC	3.50	2.99	3.36	2.72	2.64	3.90
GM-05D	60.95 - 75.95	7.35	9.04	7.87	NC	7.03	NC	7.42	7.51	7.50	6.83	7.18	NC
GM-06S	8.97 - 23.97	2.59	2.96	3.08	2.89	3.46	NC	3.77	3.72	3.70	3.33	2.90	4.58
GM-06I	35.40 - 40.40	2.60	2.97	3.08	2.93	3.57	NC	3.86	3.73	3.77	3.54	3.47	4.59
GM-06D	60.05 - 75.05	2.71	2.96	3.07	2.92	3.49	NC	3.79	3.73	3.72	3.35	2.91	4.58
GM-07S	9.75 - 24.75	1.40	2.17	2.15	2.01	2.49	NC	2.64	2.53	2.73	2.56	2.01	3.34
GM-07I	29.6 - 44.6	1.32	2.16	2.14	2.00	2.52	NC	2.85	2.52	2.75	2.57	2.06	3.35
GM-07D	50.3 - 65.3	1.52	2.17	2.14	NC	2.54	NC	2.67	2.58	3.76	2.58	2.04	3.36
GM-08S	6.35 - 21.35	0.37	0.64	0.54	0.61	1.34	NC	1.43	0.54	1.22	0.72	0.62	1.41
GM-08I	29.95 - 44.95	0.53	0.64	0.54	0.64	1.34	NC	1.45	0.56	1.22	0.71	0.63	1.11
GM-08D	48.25 - 63.25	0.26	0.67	0.55	0.62	1.38	NC	1.47	0.56	1.26	0.73	0.65	1.48
GM-09S	20.0 - 25.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	1.15
GM-09I	40.0 - 45.0	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26	1.17
GM-09D	48.35 - 63.35	0.02	0.47	0.45	0.41	1.24	NC	0.80	0.45	0.69	0.93	0.31	1.16
GM-10AD	unknown	NC	NC	NC	1.12	1.86	NC	1.92	1.62	1.82	1.76	1.08	2.43

Table 3-4. OU-2 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Dec-78	Oct-92	Nov-99	Mar-02	Jun-02	Aug-02	Nov-02	Mar-03	Jul-03	Sep-03	Jan-04	Apr-04
GMP-01	25.0 - 30.0	NC	NC	NC	2.97	3.65	NC	3.78	3.26	3.66	3.07	3.04	4.18
GMP-02	18.0 - 23.0	NC	NC	NC	2.25	2.95	NC	3.05	2.44	2.91	2.36	2.24	3.37
GMP-04	15.5 - 20.5	NC	NC	NC	0.96	1.46	NC	1.18	0.47	1.40	1.01	1.11	1.17
MW-16AS	3.0 - 13.0	NC	NC	10.45	10.30	10.36	NC	10.82	11.21	10.99	10.44	NC	12.00
OU2-IW01S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-01WT	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-01S	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-01I	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-01I2	50.0 - 55.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-01D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-02S	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-02I	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-02I2	50.0 - 55.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-02D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-03S	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-03I	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-03I2	50.0 - 55.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-03D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-04WT	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-04S	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-04I	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-04I2	50.0 - 55.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-04D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-05	25.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-06S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-06	25.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-07S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-07	15.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-08WT	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-08S	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-08I	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-08I2	50.0 - 55.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-08D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-09	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-10S	3.0 - 7.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-10I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-10D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11D	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12S	3.0 - 7.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12D	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-13S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-13I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-13D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-14S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-14I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-14I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-4. OU-2 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Dec-78	Oct-92	Nov-99	Mar-02	Jun-02	Aug-02	Nov-02	Mar-03	Jul-03	Sep-03	Jan-04	Apr-04
OU2MW-15S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-15I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-15I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-15D	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16I2	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17S	5.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17I	13.0 - 23.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17D	60.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18I	13.0 - 23.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18D	60.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51D	61.0 - 66.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-52S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-52I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-52D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-53S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-53I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-53D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54D	60.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-58S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-58I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-4. OU-2 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Aug-04	Oct-04	Feb-05	May-05	Aug-05	Nov-05	Feb-06	May-06	July/Aug-06	Nov-06	Jan-07	May-07
BBMW-01S	5.0 - 15.0	12.10	12.51	13.16	13.03	11.91	13.41	13.36	12.95	12.64	14.10	13.03	13.36
BBMW-01I	32.0 - 42.0	12.08	12.49	13.14	13.01	11.89	13.49	13.34	12.94	12.63	13.09	13.01	13.34
BBMW-01D	68.5 - 78.5	12.11	12.51	13.16	13.07	11.92	13.50	13.36	12.96	12.64	13.10	13.02	13.38
BBMW-02S	5.0 - 15.0	11.16	11.52	NC	12.06	10.99	12.45	12.36	12.00	11.62	12.12	12.07	12.35
BBMW-02I	30.0 - 40.0	11.15	11.50	NC	12.03	10.96	12.43	12.32	11.95	11.59	12.08	12.02	12.35
BBMW-02D	73.0 - 83.0	11.12	11.48	NC	12.01	10.93	12.41	12.31	11.95	11.58	12.06	12.02	12.33
BBMW-03S	3.0 - 13.0	7.42	7.72	8.25	8.09	7.36	8.43	8.29	8.00	7.65	8.19	8.02	8.27
BBMW-03I	30.0 - 40.0	7.41	7.72	8.24	8.09	7.75	8.82	8.29	8.00	7.64	7.99	8.01	8.28
BBMW-03D	52.0 - 62.0	7.44	7.75	8.26	8.12	7.35	8.44	8.31	8.03	NC	8.14	8.05	8.32
BBMW-04D	63.0 - 73.0	13.38	13.84	14.51	14.39	13.18	14.96	14.67	14.31	14.01	14.48	14.39	NC
BBMW-07S	5.0 - 15.0	5.27	5.71	5.98	5.80	5.12	6.29	NC	5.75	5.52	5.89	5.63	NC
BBMW-07I	30.0 - 40.0	5.26	5.72	5.98	5.83	5.13	6.29	NC	5.76	5.53	5.91	5.63	NC
BBMW-07D	55.0 - 65.0	5.27	5.73	5.98	5.82	5.11	6.29	NC	5.77	5.51	5.94	5.64	NC
BBMW-15S	5.0 - 15.0	9.86	10.18	10.84	10.69	9.71	11.09	10.98	10.66	10.23	10.75	10.71	11.01
BBMW-15I	35.0 - 45.0	9.84	10.16	10.81	10.67	9.66	11.03	10.91	10.61	10.18	10.73	10.66	10.98
BBMW-15I2	23.0 - 28.0	9.81	10.16	10.80	10.60	9.66	11.05	10.93	10.62	10.21	10.73	10.67	10.98
BBMW-15D	70.0 -80.0	9.82	10.15	10.80	10.63	9.66	11.04	10.92	10.62	10.19	10.71	10.67	10.96
BBMW-16S	5.0 - 15.0	9.28	9.73	10.15	10.05	9.04	10.45	10.30	10.00	14.62	10.10	10.02	10.28
BBMW-16I	35.0 - 45.0	9.32	9.76	10.15	10.08	9.05	10.47	10.33	10.02	9.63	10.14	10.06	10.32
BBMW-16D	68.0 - 78.0	9.31	9.75	10.18	10.06	9.03	10.46	10.32	10.01	9.62	10.12	10.06	10.32
BBMW-23S	5.0 - 15.0	12.51	12.93	NC	13.46	12.32	14.00	13.78	13.37	13.06	13.52	13.48	13.76
BBMW-23I	33.0 - 43.0	12.50	12.93	NC	13.46	12.31	13.92	13.79	13.38	13.07	13.51	13.47	13.76
BBMW-23D	49.5 - 59.5	12.53	12.94	NC	13.47	12.32	13.95	13.79	13.39	13.08	13.53	13.49	13.81
BBMW-23D2	63.0 - 73.0	12.52	12.96	NC	13.47	12.32	13.93	13.78	13.38	13.07	13.52	13.48	13.76
BBMW-24S	4.0 - 14.0	10.23	10.61	11.20	11.09	10.04	11.53	11.39	11.02	10.67	11.09	11.06	11.41
BBMW-24I	32.0 - 42.0	10.22	10.60	11.20	11.09	10.02	11.51	11.37	10.99	10.66	11.07	11.04	11.43
BBMW-24D	59.5 - 69.5	10.24	10.61	11.19	11.09	10.03	11.52	11.38	11.03	10.67	11.10	11.07	11.43
BBMW-25S	4.0 - 14.0	7.23	7.62	8.13	8.01	7.64	8.99	8.84	8.49	NC	8.55	8.53	8.84
BBMW-25I	25.0 - 35.0	7.25	7.64	8.16	8.02	7.66	8.99	8.84	8.49	NC	8.55	8.55	8.86
BBMW-25D	62.0 - 72.0	7.18	7.55	8.08	7.97	NC	8.99	NC	8.49	NC	8.55	8.52	8.83
GM-03S	6.78 - 21.78	9.14	9.53	NC	9.96	8.94	10.42	10.26	9.90	9.53	9.97	9.92	10.18
GM-03I	30.03 - 45.03	8.97	9.36	NC	9.80	8.76	10.24	10.09	9.73	9.36	9.80	9.75	10.17
GM-03D	53.18 - 68.18	9.07	9.46	NC	9.95	8.86	10.34	10.19	9.83	9.47	9.90	9.86	10.19
GM-05S	5.1 - 20.1	2.68	3.36	3.31	2.91	2.65	3.34	3.01	3.00	2.85	3.06	2.82	3.08
GM-05I	35.05 - 48.05	2.81	3.49	3.42	3.03	2.76	3.49	3.15	3.13	2.97	3.18	2.96	3.21
GM-05D	60.95 - 75.95	8.97	7.58	7.72	7.50	6.56	7.87	7.81	8.23	8.72	7.61	7.59	7.76
GM-06S	8.97 - 23.97	3.14	3.69	3.73	3.52	3.06	4.10	3.69	3.50	3.48	3.79	3.29	3.73
GM-06I	35.40 - 40.40	3.16	3.70	3.74	3.57	3.08	4.10	3.70	3.52	3.48	3.80	3.30	3.75
GM-06D	60.05 - 75.05	3.15	3.70	3.74	3.54	3.07	4.11	3.70	3.52	3.48	3.79	3.30	3.74
GM-07S	9.75 - 24.75	2.34	3.01	2.80	2.58	2.36	3.04	2.63	2.64	2.60	2.88	2.42	2.71
GM-07I	29.6 - 44.6	2.32	3.00	2.79	2.63	2.34	3.03	2.62	2.64	2.59	2.87	2.41	2.69
GM-07D	50.3 - 65.3	2.33	3.02	2.81	2.63	2.34	3.44	2.62	2.65	2.61	2.87	2.43	2.70
GM-08S	6.35 - 21.35	1.08	1.74	1.46	0.83	0.89	1.35	0.95	1.04	1.01	1.06	0.79	0.96
GM-08I	29.95 - 44.95	1.09	1.76	1.46	0.86	0.91	1.35	0.96	1.04	1.02	1.06	0.79	0.97
GM-08D	48.25 - 63.25	1.14	1.77	1.48	0.88	0.93	1.39	0.96	1.03	1.02	1.06	0.79	0.96
GM-09S	20.0 - 25.0	0.66	1.41	1.17	0.74	0.65	0.94	0.62	0.79	0.81	0.88	0.58	0.75
GM-09I	40.0 - 45.0	0.67	1.43	1.17	0.74	0.65	0.95	0.63	0.80	0.83	0.89	0.60	0.76
GM-09D	48.35 - 63.35	0.67	1.41	1.17	0.75	0.65	0.96	0.64	0.79	0.82	0.89	0.59	0.76
GM-10AD	unknown	1.51	2.20	1.92	1.41	1.57	2.08	1.67	1.72	1.74	NC	1.43	1.76

Table 3-4. OU-2 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Aug-04	Oct-04	Feb-05	May-05	Aug-05	Nov-05	Feb-06	May-06	July/Aug-06	Nov-06	Jan-07	May-07
GMP-01	25.0 - 30.0	3.15	3.78	3.73	3.35	3.08	3.77	3.47	3.44	3.28	3.47	3.33	3.50
GMP-02	18.0 - 23.0	2.40	3.15	3.04	2.58	2.41	3.03	2.69	2.70	2.57	2.73	2.59	2.74
GMP-04	15.5 - 20.5	0.93	2.11	1.72	1.02	1.37	1.73	1.19	1.23	1.42	1.09	1.51	1.06
MW-16AS	3.0 - 13.0	10.10	10.44	11.10	10.96	9.93	11.34	11.23	10.92	10.48	11.02	10.98	11.27
OU2-IW01S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-01WT	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-01S	20.0 - 25.0	NC	NC	NC	NC	NC	8.79	8.62	8.30	NC	8.37	8.30	8.58
OU2MW-01I	35.0 - 40.0	NC	NC	NC	NC	NC	8.82	8.65	8.28	NC	9.96	8.32	8.61
OU2MW-01I2	50.0 - 55.0	NC	NC	NC	NC	NC	8.78	8.62	8.30	NC	8.36	8.40	8.59
OU2MW-01D	65.0 - 70.0	NC	NC	NC	NC	NC	10.24	10.16	9.79	NC	8.23	9.89	10.06
OU2MW-02S	20.0 - 25.0	NC	NC	NC	NC	NC	8.68	8.66	8.21	NC	8.31	8.31	8.51
OU2MW-02I	35.0 - 40.0	NC	NC	NC	NC	NC	8.68	8.52	8.22	NC	8.26	8.23	8.51
OU2MW-02I2	50.0 - 55.0	NC	NC	NC	NC	NC	8.67	8.51	8.21	NC	8.25	8.22	8.51
OU2MW-02D	65.0 - 70.0	NC	NC	NC	NC	NC	8.87	8.74	8.41	NC	8.47	8.42	8.68
OU2MW-03S	20.0 - 25.0	NC	NC	NC	NC	NC	7.23	7.01	6.73	NC	6.80	6.69	7.01
OU2MW-03I	35.0 - 40.0	NC	NC	NC	NC	NC	7.25	7.03	6.75	NC	6.84	6.71	7.03
OU2MW-03I2	50.0 - 55.0	NC	NC	NC	NC	NC	7.23	7.01	6.74	NC	6.79	6.69	7.02
OU2MW-03D	65.0 - 70.0	NC	NC	NC	NC	NC	8.99	8.95	8.63	NC	6.75	8.85	8.95
OU2MW-04WT	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-04S	20.0 - 25.0	NC	NC	NC	NC	NC	6.97	6.73	6.49	6.19	6.60	6.41	6.75
OU2MW-04I	35.0 - 40.0	NC	NC	NC	NC	NC	6.97	6.73	6.49	6.19	6.61	6.45	6.76
OU2MW-04I2	50.0 - 55.0	NC	NC	NC	NC	NC	6.96	6.72	6.49	NC	6.57	6.43	6.74
OU2MW-04D	65.0 - 70.0	NC	NC	NC	NC	NC	6.99	6.75	6.51	NC	6.60	6.47	6.77
OU2MW-05	25.0 - 35.0	NC	NC	NC	NC	NC	4.44	4.16	4.09	3.93	4.16	3.97	4.21
OU2MW-06S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-06	25.0 - 35.0	NC	NC	NC	NC	NC	2.57	2.17	2.21	2.17	2.17	2.21	2.17
OU2MW-07S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-07	15.0 - 25.0	NC	NC	NC	NC	NC	2.37	1.98	2.00	2.03	1.90	2.08	1.89
OU2MW-08WT	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-08S	20.0 - 25.0	NC	NC	NC	NC	NC	9.07	8.92	8.61	8.26	8.66	8.66	8.96
OU2MW-08I	35.0 - 40.0	NC	NC	NC	NC	NC	9.08	8.92	8.62	8.27	8.67	8.66	8.97
OU2MW-08I2	50.0 - 55.0	NC	NC	NC	NC	NC	9.12	8.95	8.66	8.30	8.71	8.70	8.99
OU2MW-08D	65.0 - 70.0	NC	NC	NC	NC	NC	9.89	9.79	9.45	9.01	9.55	9.52	9.83
OU2MW-09	20.0 - 30.0	NC	NC	NC	NC	NC	8.42	8.28	7.99	NC	8.04	8.02	8.27
OU2MW-10S	3.0 - 7.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-10I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-10D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-11D	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12S	3.0 - 7.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-12D	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-13S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-13I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-13D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-14S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-14I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-14I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-4. OU-2 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Aug-04	Oct-04	Feb-05	May-05	Aug-05	Nov-05	Feb-06	May-06	July/Aug-06	Nov-06	Jan-07	May-07
OU2MW-15S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-15I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-15I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-15D	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16I2	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-16D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17S	5.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17I	13.0 - 23.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17D	60.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18I	13.0 - 23.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18D	60.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51D	61.0 - 66.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-52S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-52I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-52D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-53S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-53I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-53D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54D	60.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-58S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-58I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-4. OU-2 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		July/Aug-07	Oct/Nov-07	Jan-08	Apr/May-08	Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10
BBMW-01S	5.0 - 15.0	12.63	11.91	12.78	13.27	12.22	12.92	12.88	13.10	13.11	12.29	13.41	14.73
BBMW-01I	32.0 - 42.0	12.62	11.90	12.77	13.25	12.21	12.91	12.88	13.07	13.11	12.30	13.43	14.74
BBMW-01D	68.5 - 78.5	12.64	11.91	12.79	13.29	12.24	12.94	12.91	13.08	13.15	12.34	13.43	14.74
BBMW-02S	5.0 - 15.0	11.56	11.00	11.85	12.23	11.23	11.92	11.57	12.08	12.09	11.27	12.39	13.60
BBMW-02I	30.0 - 40.0	11.55	11.00	11.85	12.24	11.24	11.92	11.88	12.08	12.10	11.26	12.39	13.59
BBMW-02D	73.0 - 83.0	11.54	10.98	11.84	12.22	11.21	11.90	11.87	12.07	12.07	11.22	12.34	13.60
BBMW-03S	3.0 - 13.0	7.71	7.36	7.92	8.21	7.43	8.00	7.89	8.09	8.10	7.43	8.28	9.68
BBMW-03I	30.0 - 40.0	7.71	7.37	7.89	8.22	7.43	8.02	7.86	8.09	8.10	7.47	8.28	9.68
BBMW-03D	52.0 - 62.0	7.74	7.38	7.92	8.23	7.43	8.03	7.90	8.09	8.11	7.45	8.29	9.70
BBMW-04D	63.0 - 73.0	NC	13.28	14.20	14.78	10.72	14.37	14.39	14.59	14.57	13.15	14.74	16.04
BBMW-07S	5.0 - 15.0	NC	4.18	5.63	5.97	5.43	5.76	5.46	5.76	5.98	5.39	6.05	7.77
BBMW-07I	30.0 - 40.0	NC	5.16	5.57	5.96	5.43	5.77	5.46	5.86	5.96	5.38	6.03	7.76
BBMW-07D	55.0 - 65.0	NC	5.15	5.62	5.98	5.45	5.76	5.46	5.75	5.96	5.37	6.03	7.73
BBMW-15S	5.0 - 15.0	10.26	9.81	10.57	10.91	9.93	10.63	10.57	10.75	10.76	9.92	11.42	12.16
BBMW-15I	35.0 - 45.0	10.27	9.78	10.54	10.85	9.90	10.55	10.55	10.72	10.75	9.92	11.02	12.13
BBMW-15I2	23.0 - 28.0	10.19	9.77	10.60	10.87	9.90	10.60	10.49	10.68	10.70	9.86	10.99	12.09
BBMW-15D	70.0 -80.0	10.22	9.77	10.54	10.86	9.89	10.57	10.51	10.67	10.73	9.87	11.00	12.11
BBMW-16S	5.0 - 15.0	9.56	9.14	9.80	10.14	9.29	9.87	9.85	10.09	10.14	9.46	10.19	11.39
BBMW-16I	35.0 - 45.0	9.58	9.16	9.77	10.18	9.31	9.89	9.89	10.09	15.14	9.45	10.38	11.45
BBMW-16D	68.0 - 78.0	9.56	9.15	9.82	10.23	9.36	9.94	9.92	10.53	10.19	9.48	10.42	11.48
BBMW-23S	5.0 - 15.0	10.35	12.31	13.19	13.67	12.62	13.34	13.25	13.37	13.49	12.67	13.75	15.14
BBMW-23I	33.0 - 43.0	10.48	12.31	13.19	13.68	12.62	13.33	13.24	13.46	13.49	12.61	13.73	15.09
BBMW-23D	49.5 - 59.5	10.29	12.28	13.19	13.71	12.65	13.36	13.26	13.86	13.51	12.69	13.76	15.13
BBMW-23D2	63.0 - 73.0	10.31	12.31	13.16	13.68	12.62	13.36	13.27	13.16	13.48	12.66	13.80	15.13
BBMW-24S	4.0 - 14.0	9.41	10.12	10.86	11.32	10.37	11.27	11.16	11.10	11.43	10.50	11.71	12.89
BBMW-24I	32.0 - 42.0	9.44	10.11	10.82	11.30	10.36	11.09	10.97	11.21	11.24	10.40	11.46	12.70
BBMW-24D	59.5 - 69.5	9.44	10.13	10.88	11.31	10.35	11.04	10.90	11.26	11.15	10.31	11.46	12.63
BBMW-25S	4.0 - 14.0	NC	7.78	8.37	8.77	NC	8.43	8.30	8.60	NC	NC	8.75	10.40
BBMW-25I	25.0 - 35.0	NC	NC	NC	NC	NC	8.40	8.32	8.57	NC	NC	8.79	10.37
BBMW-25D	62.0 - 72.0	NC	7.76	8.46	8.75	NC	8.45	8.36	8.56	NC	NC	8.90	10.35
GM-03S	6.78 - 21.78	9.44	8.97	9.64	10.08	9.15	NC	NC	NC	NC	NC	NC	NC
GM-03I	30.03 - 45.03	9.43	8.98	9.64	10.06	9.13	NC	NC	NC	NC	NC	NC	NC
GM-03D	53.18 - 68.18	9.46	8.97	9.67	10.08	9.16	NC	NC	NC	NC	NC	NC	NC
GM-05S	5.1 - 20.1	2.94	2.59	2.98	3.20	2.88	2.89	2.64	3.04	3.12	2.80	3.03	4.57
GM-05I	35.05 - 48.05	3.08	2.71	3.22	3.39	3.02	3.08	2.83	3.17	3.33	3.06	3.27	4.82
GM-05D	60.95 - 75.95	6.96	6.83	7.54	NC	NC	7.66	7.66	7.66	7.87	7.10	7.87	7.87
GM-06S	8.97 - 23.97	3.44	3.07	3.39	3.71	3.35	3.58	3.14	3.64	3.77	3.31	3.82	5.56
GM-06I	35.40 - 40.40	3.45	3.08	3.39	3.72	3.36	3.60	3.16	3.65	3.75	3.31	3.85	5.57
GM-06D	60.05 - 75.05	3.45	3.08	3.38	3.70	3.37	3.59	3.17	3.67	3.75	3.32	3.82	5.57
GM-07S	9.75 - 24.75	2.62	2.30	2.54	2.73	2.57	2.57	2.20	2.70	2.86	2.46	2.81	4.41
GM-07I	29.6 - 44.6	2.60	2.30	2.50	2.72	2.56	2.56	2.20	2.68	2.83	2.42	2.79	4.39
GM-07D	50.3 - 65.3	2.61	2.31	2.55	2.72	2.57	2.57	2.20	2.70	2.83	2.38	2.77	4.36
GM-08S	6.35 - 21.35	1.02	0.72	1.08	1.13	0.99	0.79	0.57	1.21	1.48	1.02	1.16	2.81
GM-08I	29.95 - 44.95	1.02	0.73	1.04	1.13	1.00	0.79	0.58	1.22	1.16	1.04	1.17	2.81
GM-08D	48.25 - 63.25	1.02	0.62	1.09	1.13	1.00	0.79	0.58	1.21	1.20	0.86	1.20	2.80
GM-09S	20.0 - 25.0	0.95	0.72	0.96	0.89	0.92	0.68	0.34	1.08	0.90	0.78	0.76	1.63
GM-09I	40.0 - 45.0	0.96	0.73	0.92	0.90	0.92	0.70	0.34	1.07	0.90	0.88	0.74	1.73
GM-09D	48.35 - 63.35	0.96	0.72	0.95	0.90	0.93	0.70	0.36	1.07	0.91	0.78	0.77	1.73
GM-10AD	unknown	1.80	1.50	1.70	1.83	1.75	1.66	1.22	1.79	1.94	1.61	1.82	3.43

Table 3-4. OU-2 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		July/Aug-07	Oct/Nov-07	Jan-08	Apr/May-08	Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10
GMP-01	25.0 - 30.0	3.33	3.00	3.43	3.66	3.27	3.30	3.06	NC	3.57	3.17	3.48	5.4
GMP-02	18.0 - 23.0	2.55	2.30	2.72	2.89	2.58	2.55	2.31	2.74	2.83	2.77	2.79	4.76
GMP-04	15.5 - 20.5	1.63	1.41	1.28	1.00	1.65	1.09	0.70	1.39	1.29	1.01	1.50	2.80
MW-16AS	3.0 - 13.0	10.47	10.11	10.92	11.16	10.22	10.92	10.88	11.22	11.05	10.31	11.37	12.48
OU2-IW01S	3.0 - 8.0	NC	2.50	2.91	2.97	2.77	2.74	2.57	2.97	2.99	2.68	2.99	4.97
OU2MW-01WT	3.0 - 8.0	NC	7.74	8.29	8.70	NC	8.42	8.30	8.53	NC	7.82	8.81	10.29
OU2MW-01S	20.0 - 25.0	NC	7.56	8.12	8.51	NC	8.28	8.15	8.36	NC	7.70	8.61	10.18
OU2MW-01I	35.0 - 40.0	NC	7.56	8.17	8.52	NC	8.28	8.19	8.43	NC	7.72	8.52	10.25
OU2MW-01I2	50.0 - 55.0	NC	7.55	8.14	8.47	NC	8.27	8.13	8.33	NC	7.66	8.58	9.16
OU2MW-01D	65.0 - 70.0	NC	8.95	9.58	9.98	NC	9.70	9.61	9.84	NC	9.15	10.14	11.74
OU2MW-02S	20.0 - 25.0	NC	7.50	8.07	8.43	NC	8.21	8.08	8.28	NC	7.63	8.53	9.99
OU2MW-02I	35.0 - 40.0	NC	7.52	8.10	8.42	NC	8.21	8.12	8.29	NC	7.63	8.52	10.03
OU2MW-02I2	50.0 - 55.0	NC	7.10	8.08	8.41	NC	8.21	8.08	8.26	NC	7.60	8.51	9.99
OU2MW-02D	65.0 - 70.0	NC	7.71	8.28	8.62	NC	8.42	8.30	8.47	NC	7.83	8.73	10.14
OU2MW-03S	20.0 - 25.0	NC	6.12	6.62	7.01	NC	6.67	6.62	6.84	NC	6.26	7.08	8.84
OU2MW-03I	35.0 - 40.0	NC	6.14	6.64	7.02	NC	6.72	6.59	6.80	NC	6.27	7.10	8.86
OU2MW-03I2	50.0 - 55.0	NC	6.12	6.62	7.01	NC	6.68	6.52	6.78	NC	6.25	6.74	8.32
OU2MW-03D	65.0 - 70.0	NC	7.91	8.28	8.84	NC	8.50	7.17	8.67	NC	8.04	8.83	10.63
OU2MW-04WT	3.0 - 8.0	NC	5.91	6.41	6.53	6.12	6.50	6.32	6.57	6.63	6.06	6.74	8.55
OU2MW-04S	20.0 - 25.0	6.25	5.93	6.40	6.71	6.12	6.50	6.27	5.60	6.60	6.06	6.77	8.37
OU2MW-04I	35.0 - 40.0	6.28	5.94	6.42	6.73	6.19	6.52	6.33	6.57	6.63	6.05	6.81	8.58
OU2MW-04I2	50.0 - 55.0	6.26	5.90	6.39	6.73	6.13	6.52	6.30	6.56	6.62	6.03	6.74	8.55
OU2MW-04D	65.0 - 70.0	6.28	6.06	6.41	6.74	6.14	6.52	6.25	6.56	6.63	6.02	6.78	8.56
OU2MW-05	25.0 - 35.0	3.97	3.54	4.01	4.29	3.92	4.05	3.80	-1.05	4.22	3.83	4.28	6.14
OU2MW-06S	3.0 - 8.0	NC	2.05	2.16	2.22	2.35	2.09	1.70	2.25	2.22	2.02	2.38	4.07
OU2MW-06	25.0 - 35.0	2.22	2.03	2.16	2.16	2.32	2.07	1.66	2.27	2.26	2.03	2.37	4.11
OU2MW-07S	3.0 - 8.0	NC	1.96	2.04	1.94	2.22	1.85	1.50	2.11	2.02	1.87	2.22	3.67
OU2MW-07	15.0 - 25.0	2.02	1.93	2.02	1.89	2.17	1.80	1.45	2.06	1.47	1.75	2.14	3.79
OU2MW-08WT	3.0 - 8.0	NC	7.87	8.51	8.87	8.04	8.63	8.52	8.74	8.72	8.03	8.98	10.26
OU2MW-08S	20.0 - 25.0	8.28	7.85	8.52	8.86	8.04	8.62	8.52	8.71	8.74	8.00	8.90	10.28
OU2MW-08I	35.0 - 40.0	8.29	7.87	8.56	8.86	8.02	8.61	8.49	8.71	8.74	8.00	8.97	10.24
OU2MW-08I2	50.0 - 55.0	8.32	7.89	8.52	9.58	8.06	8.64	8.52	8.72	8.74	8.53	8.99	10.27
OU2MW-08D	65.0 - 70.0	9.06	8.69	9.34	9.72	8.75	9.45	9.42	9.54	9.58	8.82	9.83	11.06
OU2MW-09	20.0 - 30.0	7.71	7.37	7.93	8.20	7.47	8.00	7.89	8.08	8.11	7.45	8.30	9.67
OU2MW-10S	3.0 - 7.0	NC	2.00	2.42	2.60	2.38	2.37	1.99	2.41	2.52	2.29	2.35	4.52
OU2MW-10I	20.0 - 25.0	NC	2.01	2.42	2.61	2.35	2.36	1.76	2.47	2.54	2.25	2.32	4.55
OU2MW-10D	35.0 - 40.0	NC	1.99	2.38	2.60	2.33	2.34	1.97	2.41	2.52	2.20	2.32	4.50
OU2MW-11S	3.0 - 8.0	NC	3.29	3.65	3.92	3.58	3.68	3.42	3.75	3.83	3.51	3.84	5.83
OU2MW-11I	20.0 - 25.0	NC	3.26	3.67	3.89	3.57	3.65	3.38	3.75	3.81	3.44	3.84	5.76
OU2MW-11I2	30.0 - 35.0	NC	3.24	3.68	3.86	3.55	3.62	3.25	3.71	3.76	3.46	3.81	5.75
OU2MW-11D	40.0 - 45.0	NC	3.23	3.63	3.85	3.54	3.61	3.35	3.72	3.77	3.55	3.80	5.70
OU2MW-12S	3.0 - 7.0	NC	2.64	3.05	3.24	3.01	2.88	2.63	3.23	3.12	2.74	3.03	5.02
OU2MW-12I	20.0 - 25.0	NC	2.70	3.08	3.34	3.05	3.00	2.69	3.19	3.29	2.87	3.29	5.18
OU2MW-12I2	30.0 - 35.0	NC	2.70	2.97	3.27	3.03	2.91	2.61	3.13	3.16	3.01	3.20	5.07
OU2MW-12D	40.0 - 45.0	NC	2.67	3.06	3.26	3.02	2.91	2.62	3.15	3.15	2.84	3.19	5.04
OU2MW-13S	3.0 - 8.0	NC	1.82	2.16	2.27	2.29	1.96	1.64	2.23	2.13	1.92	2.23	3.72
OU2MW-13I	20.0 - 25.0	NC	1.79	2.08	2.21	2.30	1.95	1.61	2.15	2.09	1.89	2.30	3.70
OU2MW-13D	35.0 - 40.0	NC	1.79	2.00	2.20	2.29	1.94	1.58	2.12	2.08	1.85	2.25	3.68
OU2MW-14S	3.0 - 8.0	NC	7.64	7.76	8.63	7.78	8.35	8.21	8.52	8.54	7.85	8.78	10.06
OU2MW-14I	20.0 - 25.0	NC	NC	NC	NC	8.04	8.61	8.47	8.75	8.77	8.13	9.00	10.30
OU2MW-14I2	40.0 - 45.0	NC	NC	NC	NC	8.05	8.61	8.46	8.74	8.80	8.09	9.01	10.35

Table 3-4. OU-2 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		July/Aug-07	Oct/Nov-07	Jan-08	Apr/May-08	Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10
OU2MW-15S	3.0 - 8.0	NC	2.04	2.45	2.64	2.37	2.37	2.00	2.44	2.56	2.29	2.40	4.58
OU2MW-15I	20.0 - 25.0	NC	2.05	2.43	2.63	2.37	2.38	2.02	2.47	2.59	2.49	2.41	4.58
OU2MW-15I2	30.0 - 35.0	NC	2.06	2.41	2.65	2.37	2.39	2.00	2.40	2.59	2.26	2.43	4.56
OU2MW-15D	40.0 - 45.0	NC	2.06	2.46	2.66	2.37	2.39	2.02	2.45	2.60	2.30	2.40	4.53
OU2MW-16S	3.0 - 8.0	NC	2.14	2.59	2.83	2.55	2.55	2.11	2.66	2.69	2.41	2.58	4.73
OU2MW-16I	15.0 - 20.0	NC	2.12	2.56	2.75	2.48	2.47	2.16	2.58	2.67	2.35	2.49	4.63
OU2MW-16I2	25.0 - 30.0	NC	2.13	2.51	2.77	2.49	2.48	2.04	2.56	2.65	2.33	2.50	4.66
OU2MW-16D	35.0 - 40.0	NC	2.14	2.56	2.75	2.48	2.48	2.15	2.58	2.66	2.39	2.50	4.67
OU2MW-17S	5.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17I	13.0 - 23.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-17D	60.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18I	13.0 - 23.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-18D	60.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	12.78	11.47	12.52	13.88
OU2MW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	12.26	11.43	12.46	13.86
OU2MW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	15.26	11.48	12.46	13.86
OU2MW-39D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	12.27	11.45	12.45	13.85
OU2MW-49S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-49D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-50D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-51D	61.0 - 66.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-52S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	3.17
OU2MW-52I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	3.36
OU2MW-52D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	3.35
OU2MW-53S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	3.12
OU2MW-53I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	2.31
OU2MW-53D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-54D	60.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-57I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-58S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU2MW-58I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-4. OU-2 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level												
		Jul-10	Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Apr-15	Jun-16	Apr-17
BBMW-01S	5.0 - 15.0	12.27	12.47	12.65	13.00	12.78	12.88	13.35	13.26	12.85	14.25	13.14	11.95	13.25
BBMW-01I	32.0 - 42.0	12.27	11.58	12.63	13.02	12.55	12.88	12.82	12.82	12.60	13.73	13.13	11.94	13.27
BBMW-01D	68.5 - 78.5	12.29	11.99	12.70	13.00	12.58	12.91	13.03	12.90	12.86	13.80	13.17	11.97	13.29
BBMW-02S	5.0 - 15.0	11.22	11.05	11.74	12.03	11.57	11.77	11.71	11.41	11.95	12.46	12.05	10.72	12.50
BBMW-02I	30.0 - 40.0	11.21	11.05	11.73	12.06	11.63	11.83	11.76	11.65	12.22	12.66	12.31	11.05	12.48
BBMW-02D	73.0 - 83.0	11.21	11.03	11.72	11.98	11.68	11.81	11.87	11.74	12.34	12.69	12.13	11.38	12.46
BBMW-03S	3.0 - 13.0	7.39	7.50	7.88	8.03	7.62	8.26	7.98	7.76	8.05	8.98	8.14	7.37	8.37
BBMW-03I	30.0 - 40.0	7.39	7.52	7.89	8.04	7.40	8.08	7.87	7.59	8.04	8.77	8.10	7.38	8.38
BBMW-03D	52.0 - 62.0	7.39	7.51	7.89	8.04	7.36	8.00	7.87	7.64	8.12	8.94	8.15	7.39	8.40
BBMW-04D	63.0 - 73.0	13.67	13.25	14.00	14.35	14.12	14.16	14.40	14.29	14.62	13.59	14.50	13.23	14.79
BBMW-07S	5.0 - 15.0	5.28	5.49	5.58	5.72	5.62	5.82	5.53	5.33	5.77	6.59	5.79	5.19	6.30
BBMW-07I	30.0 - 40.0	5.28	5.47	5.56	5.70	5.45	5.64	5.47	5.31	5.79	6.60	5.79	5.20	6.30
BBMW-07D	55.0 - 65.0	5.29	5.52	5.55	5.69	5.60	5.74	5.47	5.37	5.83	6.58	5.79	5.17	6.31
BBMW-15S	5.0 - 15.0	9.87	9.82	10.44	10.67	10.38	10.63	10.71	10.53	10.85	11.35	10.83	9.87	11.19
BBMW-15I	35.0 - 45.0	9.84	9.83	10.44	10.67	10.32	10.52	10.55	10.18	10.61	10.32	10.83	9.84	11.17
BBMW-15I2	23.0 - 28.0	9.77	9.72	10.38	10.60	10.27	10.46	10.47	10.24	10.65	10.22	10.78	9.79	11.09
BBMW-15D	70.0 -80.0	9.82	9.78	10.63	10.62	10.22	10.49	10.33	10.06	10.60	10.05	10.78	9.84	11.14
BBMW-16S	5.0 - 15.0	9.33	9.28	9.70	9.94	9.55	9.95	12.95	9.56	9.82	10.44	10.07	9.18	10.30
BBMW-16I	35.0 - 45.0	9.34	9.30	9.73	9.97	9.65	9.96	13.26	9.96	10.04	11.03	10.13	9.11	6.75
BBMW-16D	68.0 - 78.0	9.38	9.34	9.78	10.49	9.68	10.01	12.89	9.58	10.08	10.60	10.17	9.55	10.27
BBMW-23S	5.0 - 15.0	12.63	12.35	13.03	13.09	13.10	13.19	13.14	12.71	13.23	14.06	14.08	12.31	13.64
BBMW-23I	33.0 - 43.0	12.60	12.30	13.01	12.99	13.07	13.14	13.06	12.66	13.16	14.04	13.46	12.24	13.62
BBMW-23D	49.5 - 59.5	12.63	12.38	13.05	13.05	13.20	13.19	13.10	12.65	13.12	14.21	13.56	12.85	13.67
BBMW-23D2	63.0 - 73.0	12.61	12.33	13.01	12.61	12.87	13.19	12.71	12.21	12.73	13.99	13.50	12.29	13.63
BBMW-24S	4.0 - 14.0	10.56	11.08	11.01	11.25	11.07	11.26	11.24	10.74	11.27	12.04	11.48	10.35	11.80
BBMW-24I	32.0 - 42.0	10.40	10.27	10.83	11.09	10.87	11.08	11.03	10.69	11.10	12.04	11.30	10.21	11.62
BBMW-24D	59.5 - 69.5	10.31	10.21	10.52	11.01	10.78	11.00	10.96	10.38	10.99	11.96	11.21	10.14	11.53
BBMW-25S	4.0 - 14.0	NC	7.89	8.29	8.50	8.14	8.46	8.29	9.40	8.55	9.60	8.69	7.76	8.98
BBMW-25I	25.0 - 35.0	NC	7.90	8.31	8.49	8.17	8.54	8.30	9.29	8.57	9.58	8.68	7.78	8.98
BBMW-25D	62.0 - 72.0	NC	7.85	8.30	8.52	8.19	8.52	8.20	9.22	8.52	9.47	8.65	7.72	8.99
GM-03S	6.78 - 21.78	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
GM-03I	30.03 - 45.03	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
GM-03D	53.18 - 68.18	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
GM-05S	5.1 - 20.1	2.73	3.21	2.92	2.73	3.05	3.23	3.18	3.76	3.09	3.65	2.91	2.71	3.46
GM-05I	35.05 - 48.05	2.88	2.92	3.14	NC	3.10	3.44	3.42	4.40	3.32	3.80	3.07	2.91	3.65
GM-05D	60.95 - 75.95	7.05	7.36	5.53	7.37	7.16	7.87	7.87	7.64	7.87	5.85	NM	2.91	7.87
GM-06S	8.97 - 23.97	3.24	3.51	3.39	3.45	3.51	3.69	3.01	3.15	3.52	4.42	3.51	3.11	4.19
GM-06I	35.40 - 40.40	3.25	3.46	3.40	3.46	3.48	3.69	3.24	3.16	3.54	4.47	3.50	3.11	4.21
GM-06D	60.05 - 75.05	3.24	3.43	3.41	3.45	3.54	3.69	3.06	3.36	3.55	4.45	3.48	3.12	4.20
GM-07S	9.75 - 24.75	2.49	2.80	2.56	2.41	2.54	2.92	2.35	2.41	2.71	3.41	2.48	2.42	3.28
GM-07I	29.6 - 44.6	2.47	2.98	2.54	2.38	2.59	2.89	2.30	2.42	2.68	3.21	2.25	2.21	3.05
GM-07D	50.3 - 65.3	2.48	2.81	2.57	2.40	2.62	3.01	2.30	2.40	2.70	3.63	2.69	2.64	3.48
GM-08S	6.35 - 21.35	0.94	1.54	1.01	0.69	1.19	1.48	0.90	0.83	1.35	1.98	0.86	0.92	1.60
GM-08I	29.95 - 44.95	0.74	1.39	1.03	NC	1.33	1.48	0.71	0.94	1.43	1.78	0.84	0.96	1.62
GM-08D	48.25 - 63.25	0.74	1.46	1.09	0.66	1.15	1.49	0.72	0.92	1.34	2.01	0.85	0.93	1.62
GM-09S	20.0 - 25.0	0.86	1.28	0.93	0.45	1.14	1.33	0.83	0.27	0.92	1.32	0.63	0.89	1.63
GM-09I	40.0 - 45.0	0.86	1.27	0.94	0.44	1.14	1.34	0.41	0.49	0.93	1.40	0.60	0.77	1.62
GM-09D	48.35 - 63.35	0.87	1.26	0.96	0.44	1.13	1.37	0.79	0.68	0.59	1.28	0.61	0.87	1.65
GM-10AD	unknown	1.65	2.01	NC	1.87	1.96	2.05	1.47	1.47	1.82	2.47	1.55	1.61	2.41

Table 3-4. OU-2 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level												
		Jul-10	Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Apr-15	Jun-16	Apr-17
GMP-01	25.0 - 30.0	3.14	3.73	3.39	3.19	3.42	3.70	3.64	3.13	3.53	4.13	3.36	3.09	3.86
GMP-02	18.0 - 23.0	2.44	2.97	2.72	2.39	2.79	3.06	2.95	2.49	2.80	3.36	2.60	3.09	3.13
GMP-04	15.5 - 20.5	0.95	2.01	1.54	0.89	1.37	1.69	1.36	1.34	NC	1.53	1.38	1.38	0.34
MW-16AS	3.0 - 13.0	10.16	10.10	10.70	10.99	10.81	10.84	10.56	10.55	10.94	11.71	11.15	11.15	11.48
OU2-IW01S	3.0 - 8.0	2.70	3.08	2.89	2.65	2.99	3.18	0.95	2.01	3.01	2.40	2.79	2.79	3.32
OU2MW-01WT	3.0 - 8.0	NC	7.84	8.35	8.56	NC	8.51	8.35	9.35	8.50	9.66	8.74	8.74	8.99
OU2MW-01S	20.0 - 25.0	NC	7.72	8.12	8.31	NC	8.31	8.20	8.11	8.19	9.16	8.46	8.46	8.79
OU2MW-01I	35.0 - 40.0	NC	7.77	8.17	8.36	NC	8.40	8.29	8.28	8.36	9.28	8.47	8.47	8.83
OU2MW-01I2	50.0 - 55.0	NC	7.72	8.13	8.28	NC	8.30	8.28	8.21	8.30	9.23	8.42	NC	8.76
OU2MW-01D	65.0 - 70.0	NC	9.13	9.51	9.75	NC	9.67	8.24	8.12	8.32	9.05	10.01	NC	10.17
OU2MW-02S	20.0 - 25.0	NC	7.68	NC	8.23	NC	8.19	8.28	8.45	8.23	9.08	8.37	7.48	8.61
OU2MW-02I	35.0 - 40.0	NC	7.67	NC	8.24	NC	8.20	8.25	8.50	8.27	9.38	8.34	7.37	8.60
OU2MW-02I2	50.0 - 55.0	NC	7.65	NC	8.21	NC	8.27	7.99	8.43	8.23	9.54	8.33	5.95	8.58
OU2MW-02D	65.0 - 70.0	NC	7.87	NC	8.45	NC	8.42	8.26	8.26	7.98	9.23	8.66	7.43	8.92
OU2MW-03S	20.0 - 25.0	NC	6.34	NC	6.73	6.63	6.81	6.73	6.81	6.83	8.32	6.85	6.12	7.31
OU2MW-03I	35.0 - 40.0	NC	6.34	NC	6.75	6.59	6.79	6.79	6.75	6.79	8.26	6.85	6.10	7.33
OU2MW-03I2	50.0 - 55.0	NC	6.34	NC	6.71	6.53	6.70	6.69	6.64	6.77	8.18	6.84	6.05	7.31
OU2MW-03D	65.0 - 70.0	NC	7.84	NC	8.56	NC	6.66	6.72	6.64	6.73	8.13	8.66	6.15	8.98
OU2MW-04WT	3.0 - 8.0	6.04	6.17	6.33	6.49	6.23	6.53	6.44	6.38	6.49	7.64	6.59	5.79	7.05
OU2MW-04S	20.0 - 25.0	6.00	6.15	6.39	6.48	6.33	6.64	6.56	6.38	6.36	7.43	6.59	6.59	7.17
OU2MW-04I	35.0 - 40.0	5.99	6.18	6.36	6.50	6.35	6.54	6.50	6.38	6.33	7.55	6.56	6.56	7.15
OU2MW-04I2	50.0 - 55.0	5.88	6.16	6.35	6.46	6.26	6.59	6.73	6.21	6.34	7.45	6.55	6.55	7.13
OU2MW-04D	65.0 - 70.0	5.99	6.17	6.38	6.48	6.19	6.50	6.69	6.18	6.48	7.42	6.57	6.57	7.15
OU2MW-05	25.0 - 35.0	3.83	4.10	4.00	3.92	4.05	4.30	3.83	3.73	4.14	4.92	4.03	4.03	4.55
OU2MW-06S	3.0 - 8.0	1.96	2.69	2.54	1.88	1.28	2.57	2.48	1.94	2.39	3.08	2.14	2.14	2.57
OU2MW-06	25.0 - 35.0	1.93	2.65	2.49	1.85	0.81	2.54	2.13	2.86	2.37	3.11	2.10	2.10	2.73
OU2MW-07S	3.0 - 8.0	1.75	2.61	2.45	1.72	2.14	2.45	1.65	1.51	2.33	2.77	2.01	2.01	2.29
OU2MW-07	15.0 - 25.0	1.72	2.49	2.41	1.70	2.11	2.37	1.58	1.48	2.26	2.79	1.99	1.99	2.22
OU2MW-08WT	3.0 - 8.0	7.95	8.07	8.49	8.67	8.37	8.56	8.46	8.53	8.81	9.68	8.83	8.83	9.16
OU2MW-08S	20.0 - 25.0	7.97	8.06	8.48	8.67	8.44	8.59	8.47	8.48	8.69	9.37	9.18	9.18	9.15
OU2MW-08I	35.0 - 40.0	7.92	8.03	8.45	8.65	8.35	8.54	8.48	8.49	8.63	9.38	8.78	8.78	9.14
OU2MW-08I2	50.0 - 55.0	7.96	8.03	8.28	8.68	8.39	8.57	8.45	8.58	8.79	9.43	8.77	8.77	9.15
OU2MW-08D	65.0 - 70.0	8.69	8.82	9.27	8.49	8.31	9.41	9.34	8.93	9.49	9.60	9.68	9.68	9.98
OU2MW-09	20.0 - 30.0	7.35	7.51	6.96	8.01	7.63	8.00	7.87	7.75	8.03	8.81	8.14	7.36	8.36
OU2MW-10S	3.0 - 7.0	2.15	2.65	NC	2.11	2.41	2.65	0.91	2.09	2.44	3.18	2.21	2.17	2.85
OU2MW-10I	20.0 - 25.0	2.14	2.65	NC	2.11	2.51	2.75	1.00	2.00	2.45	3.32	2.32	2.17	3.00
OU2MW-10D	35.0 - 40.0	2.19	2.60	NC	2.08	2.41	2.65	1.03	2.15	2.38	3.22	2.23	2.13	3.11
OU2MW-11S	3.0 - 8.0	3.42	3.80	3.65	3.52	3.74	3.95	3.47	3.36	3.80	4.60	3.66	3.38	4.17
OU2MW-11I	20.0 - 25.0	3.33	3.85	3.63	3.52	3.79	4.03	3.54	3.45	3.82	4.60	3.60	3.50	4.14
OU2MW-11I2	30.0 - 35.0	3.38	3.75	3.61	3.46	3.58	3.91	3.37	3.26	3.58	4.48	3.53	2.88	4.12
OU2MW-11D	40.0 - 45.0	3.36	3.74	3.11	3.45	3.68	3.88	3.45	3.35	3.73	4.51	3.56	3.31	4.11
OU2MW-12S	3.0 - 7.0	2.79	3.32	3.02	2.75	3.12	3.31	2.71	2.70	3.14	3.80	2.97	2.76	3.47
OU2MW-12I	20.0 - 25.0	2.83	3.42	3.06	2.85	3.12	3.38	2.68	2.66	3.23	3.81	2.96	2.84	3.50
OU2MW-12I2	30.0 - 35.0	2.80	3.42	3.07	2.81	3.14	3.31	2.76	2.78	3.13	3.86	3.00	2.82	3.49
OU2MW-12D	40.0 - 45.0	2.80	3.41	3.08	2.81	3.13	3.30	2.53	2.55	3.11	3.79	2.95	2.74	3.47
OU2MW-13S	3.0 - 8.0	1.89	2.65	2.29	1.81	2.15	2.47	1.47	1.69	2.17	2.61	2.07	1.88	2.53
OU2MW-13I	20.0 - 25.0	1.83	2.71	2.37	1.81	2.10	2.44	1.54	1.90	2.40	2.54	2.08	1.83	2.32
OU2MW-13D	35.0 - 40.0	1.83	2.74	2.32	1.79	2.20	2.43	1.64	2.05	2.35	2.49	2.06	1.80	2.31
OU2MW-14S	3.0 - 8.0	7.81	7.80	8.11	8.33	8.11	8.31	7.99	8.18	8.38	10.13	8.88	7.66	8.84
OU2MW-14I	20.0 - 25.0	7.99	8.05	8.35	8.57	8.40	8.57	8.34	8.34	8.66	10.33	9.20	7.83	9.09
OU2MW-14I2	40.0 - 45.0	7.99	8.10	8.45	8.61	8.40	NC	8.54	8.47	8.67	10.37	9.21	7.87	9.14

Table 3-4. OU-2 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level												
		Jul-10	Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Apr-15	Jun-16	Apr-17
OU2MW-15S	3.0 - 8.0	2.22	2.63	2.27	2.15	2.17	2.66	1.68	1.72	2.48	3.45	1.25	2.16	3.04
OU2MW-15I	20.0 - 25.0	2.24	2.60	2.30	2.66	2.47	2.59	2.02	1.97	2.45	3.39	2.24	2.18	3.03
OU2MW-15I2	30.0 - 35.0	2.23	2.58	2.16	2.05	2.48	2.60	2.00	2.01	2.43	3.28	2.19	2.12	2.96
OU2MW-15D	40.0 - 45.0	2.26	2.60	2.38	2.22	2.45	2.56	2.16	2.15	2.48	-2.49	2.34	2.21	3.12
OU2MW-16S	3.0 - 8.0	2.34	2.80	NC	2.26	2.66	3.00	2.34	2.17	2.55	3.44	2.40	2.35	3.13
OU2MW-16I	15.0 - 20.0	2.26	2.75	NC	2.23	2.48	2.78	2.29	2.21	2.53	3.43	2.34	2.29	3.09
OU2MW-16I2	25.0 - 30.0	2.30	2.76	NC	2.21	2.34	2.55	2.23	2.19	2.55	3.41	2.32	1.83	3.08
OU2MW-16D	35.0 - 40.0	2.28	2.72	NC	2.21	2.56	2.79	3.51	2.18	2.69	3.41	2.36	2.16	3.07
OU2MW-17S	5.0 - 10.0	NC	12.05	12.70	13.56	13.00	12.90	12.69	12.44	12.86	13.80	13.13	11.98	13.22
OU2MW-17I	13.0 - 23.0	NC	12.07	12.71	13.50	12.92	12.97	12.83	12.65	12.99	13.68	13.16	11.97	13.23
OU2MW-17I2	35.0 - 45.0	NC	12.05	12.66	13.47	12.92	12.99	12.76	12.65	12.84	13.65	13.12	11.99	13.22
OU2MW-17D	60.0 - 70.0	NC	12.05	12.66	13.35	12.83	12.89	12.59	12.53	12.71	13.58	13.10	11.95	13.22
OU2MW-18I	13.0 - 23.0	NC	12.04	12.63	13.83	12.73	12.86	12.89	12.86	12.92	13.73	13.10	11.94	13.23
OU2MW-18I2	35.0 - 45.0	NC	11.99	12.60	13.79	12.74	12.86	12.75	12.75	12.87	13.68	13.12	11.94	13.21
OU2MW-18D	60.0 - 70.0	NC	12.02	12.63	13.87	12.58	12.88	12.72	12.79	12.86	13.60	13.12	11.93	13.22
OU2MW-39S	5.0 - 15.0	11.43	11.22	11.83	12.15	11.76	12.21	12.21	12.26	12.18	12.92	12.32	11.16	12.50
OU2MW-39I	25.0 - 30.0	11.44	11.20	11.82	12.13	11.88	12.27	12.38	12.32	12.15	13.02	12.30	11.15	12.44
OU2MW-39I2	45.0 - 50.0	11.42	11.19	11.83	12.14	11.66	12.07	12.17	12.15	11.99	12.72	12.29	11.16	12.45
OU2MW-39D	70.0 - 75.0	11.43	11.19	11.84	12.13	11.23	12.08	12.13	12.17	11.98	12.88	12.27	11.16	12.45
OU2MW-49S	3.0 - 13.0	NC	12.51	13.23	13.58	13.14	13.53	13.54	13.29	13.66	14.48	13.75	12.50	13.86
OU2MW-49I	25.0 - 30.0	NC	12.91	13.65	13.99	13.54	13.78	13.79	13.46	13.82	14.72	14.15	12.87	14.24
OU2MW-49I2	45.0 - 50.0	NC	12.50	13.26	13.58	12.97	13.39	13.22	12.90	13.23	14.31	13.74	12.48	12.85
OU2MW-49D	63.0 - 68.0	NC	12.49	12.80	13.57	13.00	13.22	13.38	13.13	13.40	14.39	13.73	12.48	13.83
OU2MW-50S	5.0 - 15.0	NC	NC	NC	13.54	13.24	13.55	13.48	13.43	13.48	14.40	13.88	12.64	13.94
OU2MW-50I	25.0 - 30.0	NC	NC	NC	13.44	13.14	13.52	13.36	13.28	13.44	14.34	13.81	12.62	13.85
OU2MW-50I2	45.0 - 50.0	NC	NC	NC	13.53	13.23	13.51	13.43	13.33	13.47	14.30	13.83	12.56	13.88
OU2MW-50D	65.0 - 70.0	NC	NC	NC	13.57	13.25	13.54	13.55	13.48	13.51	14.31	13.85	12.60	13.84
OU2MW-51S	5.0 - 15.0	NC	NC	NC	13.32	13.29	13.46	13.33	13.42	13.47	14.28	13.65	12.80	13.78
OU2MW-51I	25.0 - 30.0	NC	NC	NC	13.28	13.20	13.47	13.40	13.34	13.47	14.10	13.74	12.59	13.72
OU2MW-51I2	45.0 - 50.0	NC	NC	NC	13.40	13.25	13.52	13.45	13.41	13.53	14.30	13.79	12.58	13.78
OU2MW-51D	61.0 - 66.0	NC	NC	NC	13.38	13.27	13.46	13.42	13.40	13.41	14.61	13.74	12.56	13.82
OU2MW-52S	3.0 - 8.0	1.47	2.23	2.33	1.35	2.00	2.11	1.29	0.58	1.91	2.40	2.20	1.48	1.97
OU2MW-52I	20.0 - 25.0	1.46	2.19	2.09	1.19	1.73	2.12	1.08	0.27	1.94	2.34	1.61	1.44	3.99
OU2MW-52D	35.0 - 40.0	1.44	2.12	2.10	1.23	1.55	2.13	1.15	0.40	1.85	1.90	1.64	1.45	1.85
OU2MW-53S	3.0 - 8.0	1.13	1.69	NC	1.03	0.93	1.73	0.64	0.34	1.49	2.38	1.34	2.47	2.28
OU2MW-53I	20.0 - 25.0	1.13	1.83	NC	0.90	0.89	1.83	0.68	0.36	1.36	2.22	1.23	1.18	1.47
OU2MW-53D	35.0 - 40.0	1.14	1.84	NC	1.13	1.06	1.82	0.70	0.51	1.45	2.86	1.26	1.17	1.49
OU2MW-54S	5.0 - 15.0	NC	12.29	12.99	13.04	13.07	13.15	13.19	12.77	13.42	14.13	13.45	12.70	13.59
OU2MW-54I	25.0 - 30.0	NC	12.22	13.00	14.94	12.93	13.08	13.04	12.73	13.20	14.13	13.44	12.25	13.59
OU2MW-54I2	40.0 - 45.0	NC	12.25	12.74	12.55	12.81	13.13	13.07	12.55	13.18	13.99	13.47	12.27	13.59
OU2MW-54D	60.0 - 65.0	NC	12.26	13.27	13.28	13.21	13.13	13.35	12.85	13.21	14.18	13.45	12.36	13.58
OU2MW-57S	5.0 - 15.0	NC	12.40	12.59	13.44	13.40	13.30	13.61	12.94	13.34	14.94	13.65	12.41	13.82
OU2MW-57I	20.0 - 30.0	NC	12.42	12.90	13.46	13.03	NC	13.16	12.68	13.17	14.59	13.65	12.39	13.54
OU2MW-57I2	35.0 - 45.0	NC	12.43	13.33	13.44	13.03	13.33	13.40	12.79	13.40	14.79	13.66	12.39	13.98
OU2MW-58S	5.0 - 15.0	NC	NC	NC	13.00	12.89	13.09	13.71	12.72	13.11	14.55	13.35	12.24	13.46
OU2MW-58I	25.0 - 30.0	NC	NC	NC	13.00	12.93	13.05	13.07	12.60	13.14	14.49	13.30	12.20	13.41

Table 3-4. OU-2 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level					
		Jun-18	Apr-19	Oct-20	Minimum	Average	Maximum
BBMW-01S	5.0 - 15.0	12.52	12.28	12.28	11.91	12.90	14.73
BBMW-01I	32.0 - 42.0	12.51	12.26	12.26	11.58	12.81	14.74
BBMW-01D	68.5 - 78.5	12.55	12.29	12.29	11.91	12.88	14.74
BBMW-02S	5.0 - 15.0	11.55	11.40	11.40	10.72	11.81	13.60
BBMW-02I	30.0 - 40.0	11.57	11.36	11.36	10.96	11.83	13.59
BBMW-02D	73.0 - 83.0	11.54	11.41	11.41	10.93	11.82	13.60
BBMW-03S	3.0 - 13.0	7.77	7.55	7.55	7.36	7.95	9.68
BBMW-03I	30.0 - 40.0	7.77	7.56	7.56	7.37	7.94	9.68
BBMW-03D	52.0 - 62.0	7.76	7.59	7.59	7.35	7.95	9.70
BBMW-04D	63.0 - 73.0	14.24	14.46	14.46	10.72	14.08	16.04
BBMW-07S	5.0 - 15.0	5.65	5.44	5.44	4.18	5.71	7.77
BBMW-07I	30.0 - 40.0	5.63	5.41	5.41	5.13	5.72	7.76
BBMW-07D	55.0 - 65.0	5.64	5.41	5.41	5.11	5.72	7.73
BBMW-15S	5.0 - 15.0	10.32	10.16	10.16	9.71	10.55	12.16
BBMW-15I	35.0 - 45.0	NC	10.10	10.10	9.66	10.48	12.13
BBMW-15I2	23.0 - 28.0	NC	10.05	10.05	9.66	10.45	12.09
BBMW-15D	70.0 -80.0	NC	NC	NC	9.66	10.47	12.11
BBMW-16S	5.0 - 15.0	9.69	9.43	9.43	9.04	10.08	14.62
BBMW-16I	35.0 - 45.0	9.66	9.43	9.43	6.75	10.00	15.14
BBMW-16D	68.0 - 78.0	9.70	9.48	9.48	9.03	9.99	12.89
BBMW-23S	5.0 - 15.0	12.89	12.66	12.66	10.35	13.16	15.14
BBMW-23I	33.0 - 43.0	12.79	12.64	12.64	10.48	13.14	15.09
BBMW-23D	49.5 - 59.5	12.87	12.70	12.70	10.29	13.18	15.13
BBMW-23D2	63.0 - 73.0	12.84	12.69	12.69	10.31	13.10	15.13
BBMW-24S	4.0 - 14.0	10.88	10.70	10.70	9.41	11.02	12.89
BBMW-24I	32.0 - 42.0	10.83	10.50	10.50	9.44	10.93	12.70
BBMW-24D	59.5 - 69.5	10.65	10.40	10.40	9.44	10.89	12.63
BBMW-25S	4.0 - 14.0	8.21	8.01	8.01	7.23	8.35	10.40
BBMW-25I	25.0 - 35.0	8.24	7.99	7.99	7.25	8.36	10.37
BBMW-25D	62.0 - 72.0	8.13	7.99	7.99	7.18	8.35	10.35
GM-03S	6.78 - 21.78	NC	NC	0.00	0.00	9.31	10.83
GM-03I	30.03 - 45.03	NC	NC	0.00	0.00	9.19	10.67
GM-03D	53.18 - 68.18	NC	NC	0.00	0.00	9.28	10.77
GM-05S	5.1 - 20.1	3.04	2.76	2.76	2.12	3.00	4.57
GM-05I	35.05 - 48.05	3.27	2.94	2.94	2.28	3.17	4.82
GM-05D	60.95 - 75.95	8.31	9.30	9.30	2.91	7.52	9.30
GM-06S	8.97 - 23.97	3.55	3.42	3.42	2.59	3.52	5.56
GM-06I	35.40 - 40.40	3.57	3.29	3.29	2.60	3.55	5.57
GM-06D	60.05 - 75.05	3.57	3.34	3.34	2.71	3.53	5.57
GM-07S	9.75 - 24.75	2.79	2.44	2.44	1.40	2.61	4.41
GM-07I	29.6 - 44.6	2.59	2.30	2.30	1.32	2.59	4.39
GM-07D	50.3 - 65.3	3.00	2.66	2.66	1.52	2.69	4.36
GM-08S	6.35 - 21.35	1.11	1.57	1.57	0.37	1.10	2.81
GM-08I	29.95 - 44.95	1.13	0.94	0.94	0.53	1.07	2.81
GM-08D	48.25 - 63.25	1.12	0.93	0.93	0.26	1.07	2.80
GM-09S	20.0 - 25.0	1.03	0.81	0.81	0.26	0.76	1.63
GM-09I	40.0 - 45.0	1.01	0.75	0.75	0.26	0.76	1.73
GM-09D	48.35 - 63.35	1.03	0.78	0.78	0.02	0.84	1.73
GM-10AD	unknown	1.91	1.63	1.63	1.08	1.79	3.43

Table 3-4. OU-2 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level					
		Jun-18	Apr-19	Oct-20	Minimum	Average	Maximum
GMP-01	25.0 - 30.0	3.51	3.14	3.14	2.97	3.46	5.40
GMP-02	18.0 - 23.0	2.82	2.43	2.43	2.24	2.76	4.76
GMP-04	15.5 - 20.5	1.54	0.93	0.93	0.34	1.30	2.80
MW-16AS	3.0 - 13.0	10.59	10.40	10.40	9.93	10.83	12.48
OU2-IW01S	3.0 - 8.0	3.01	2.57	2.57	0.95	2.81	4.97
OU2MW-01WT	3.0 - 8.0	8.27	8.04	8.04	7.74	8.56	10.29
OU2MW-01S	20.0 - 25.0	8.00	7.84	7.84	7.56	8.34	10.18
OU2MW-01I	35.0 - 40.0	8.04	7.85	7.85	7.56	8.44	10.25
OU2MW-01I2	50.0 - 55.0	12.28	7.77	7.77	7.55	8.46	12.28
OU2MW-01D	65.0 - 70.0	12.35	9.01	9.01	8.12	9.62	12.35
OU2MW-02S	20.0 - 25.0	7.99	7.69	7.69	7.48	8.26	9.99
OU2MW-02I	35.0 - 40.0	7.96	7.70	7.70	7.37	8.27	10.03
OU2MW-02I2	50.0 - 55.0	7.94	7.71	7.71	5.95	8.18	9.99
OU2MW-02D	65.0 - 70.0	8.32	8.15	8.15	7.43	8.44	10.14
OU2MW-03S	20.0 - 25.0	6.54	6.31	6.31	6.12	6.83	8.84
OU2MW-03I	35.0 - 40.0	6.50	6.34	6.34	6.10	6.84	8.86
OU2MW-03I2	50.0 - 55.0	6.48	7.03	7.03	6.05	6.82	8.32
OU2MW-03D	65.0 - 70.0	8.17	7.16	7.16	6.15	8.06	10.63
OU2MW-04WT	3.0 - 8.0	6.14	7.02	7.02	5.79	6.54	8.55
OU2MW-04S	20.0 - 25.0	6.26	7.08	7.08	5.60	6.55	8.37
OU2MW-04I	35.0 - 40.0	6.27	6.20	6.20	5.94	6.54	8.58
OU2MW-04I2	50.0 - 55.0	6.25	6.13	6.13	5.88	6.52	8.55
OU2MW-04D	65.0 - 70.0	6.27	6.01	6.01	5.99	6.53	8.56
OU2MW-05	25.0 - 35.0	4.07	3.95	3.95	-1.05	3.98	6.14
OU2MW-06S	3.0 - 8.0	2.40	1.89	1.89	1.28	2.27	4.07
OU2MW-06	25.0 - 35.0	2.40	1.93	1.93	0.81	2.26	4.11
OU2MW-07S	3.0 - 8.0	2.27	1.64	1.64	1.50	2.10	3.67
OU2MW-07	15.0 - 25.0	2.23	1.61	1.61	1.45	2.04	3.79
OU2MW-08WT	3.0 - 8.0	8.33	8.21	8.21	7.87	8.60	10.26
OU2MW-08S	20.0 - 25.0	8.32	8.15	8.15	7.85	8.62	10.28
OU2MW-08I	35.0 - 40.0	8.29	8.11	8.11	7.87	8.59	10.24
OU2MW-08I2	50.0 - 55.0	8.34	8.16	8.16	7.89	8.65	10.27
OU2MW-08D	65.0 - 70.0	9.13	8.87	8.87	8.31	9.34	11.06
OU2MW-09	20.0 - 30.0	7.77	7.52	7.52	6.96	7.94	9.67
OU2MW-10S	3.0 - 7.0	2.54	2.01	2.01	0.91	2.39	4.52
OU2MW-10I	20.0 - 25.0	2.57	2.22	2.22	1.00	2.43	4.55
OU2MW-10D	35.0 - 40.0	2.51	2.19	2.19	1.03	2.41	4.50
OU2MW-11S	3.0 - 8.0	3.76	3.42	3.42	3.29	3.76	5.83
OU2MW-11I	20.0 - 25.0	3.74	3.35	3.35	3.26	3.75	5.76
OU2MW-11I2	30.0 - 35.0	-3.30	3.29	3.29	-3.30	3.40	5.75
OU2MW-11D	40.0 - 45.0	3.73	3.35	3.35	3.11	3.68	5.70
OU2MW-12S	3.0 - 7.0	3.13	2.75	2.75	2.63	3.08	5.02
OU2MW-12I	20.0 - 25.0	3.26	2.76	2.76	2.66	3.14	5.18
OU2MW-12I2	30.0 - 35.0	3.21	2.75	2.75	2.61	3.12	5.07
OU2MW-12D	40.0 - 45.0	3.17	2.78	2.78	2.53	3.09	5.04
OU2MW-13S	3.0 - 8.0	NC	1.91	1.91	1.47	2.15	3.72
OU2MW-13I	20.0 - 25.0	2.31	1.75	1.75	1.54	2.14	3.70
OU2MW-13D	35.0 - 40.0	2.31	1.75	1.75	1.58	2.13	3.68
OU2MW-14S	3.0 - 8.0	8.14	7.86	7.86	7.64	8.32	10.13
OU2MW-14I	20.0 - 25.0	8.30	8.16	8.16	7.83	8.60	10.33
OU2MW-14I2	40.0 - 45.0	8.29	8.16	8.16	7.87	8.63	10.37

Table 3-4. OU-2 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 2

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level					
		Jun-18	Apr-19	Oct-20	Minimum	Average	Maximum
OU2MW-15S	3.0 - 8.0	2.57	2.23	2.23	1.25	2.41	4.58
OU2MW-15I	20.0 - 25.0	2.57	2.26	2.26	1.97	2.51	4.58
OU2MW-15I2	30.0 - 35.0	2.50	2.27	2.27	2.00	2.45	4.56
OU2MW-15D	40.0 - 45.0	2.64	2.26	2.26	-2.49	2.29	4.53
OU2MW-16S	3.0 - 8.0	2.72	2.39	2.39	2.11	2.65	4.73
OU2MW-16I	15.0 - 20.0	2.68	2.31	2.31	2.12	2.59	4.63
OU2MW-16I2	25.0 - 30.0	2.67	2.30	2.30	1.83	2.54	4.66
OU2MW-16D	35.0 - 40.0	2.67	2.37	2.37	2.14	2.64	4.67
OU2MW-17S	5.0 - 10.0	12.54	12.38	12.38	11.98	12.78	13.80
OU2MW-17I	13.0 - 23.0	12.54	12.38	12.38	11.97	12.80	13.68
OU2MW-17I2	35.0 - 45.0	12.59	12.38	12.38	11.99	12.78	13.65
OU2MW-17D	60.0 - 70.0	12.53	12.36	12.36	11.95	12.71	13.58
OU2MW-18I	13.0 - 23.0	12.51	12.34	12.34	11.94	12.80	13.83
OU2MW-18I2	35.0 - 45.0	12.52	12.35	12.35	11.94	12.77	13.79
OU2MW-18D	60.0 - 70.0	12.52	12.35	12.35	11.93	12.76	13.87
OU2MW-39S	5.0 - 15.0	11.72	11.49	11.49	11.16	12.08	13.88
OU2MW-39I	25.0 - 30.0	11.68	11.49	11.49	11.15	12.06	13.86
OU2MW-39I2	45.0 - 50.0	11.70	11.46	11.46	11.16	12.15	15.26
OU2MW-39D	70.0 - 75.0	11.70	11.49	11.49	11.16	11.98	13.85
OU2MW-49S	3.0 - 13.0	13.07	12.92	12.92	12.50	13.33	14.48
OU2MW-49I	25.0 - 30.0	13.48	13.30	13.30	12.87	13.67	14.72
OU2MW-49I2	45.0 - 50.0	13.06	12.90	12.90	12.48	13.15	14.31
OU2MW-49D	63.0 - 68.0	13.08	12.91	12.91	12.48	13.22	14.39
OU2MW-50S	5.0 - 15.0	13.21	13.16	13.16	12.64	13.47	14.40
OU2MW-50I	25.0 - 30.0	13.21	13.04	13.04	12.62	13.39	14.34
OU2MW-50I2	45.0 - 50.0	13.16	13.04	13.04	12.56	13.41	14.30
OU2MW-50D	65.0 - 70.0	13.20	13.04	13.04	12.60	13.44	14.31
OU2MW-51S	5.0 - 15.0	13.24	13.47	13.47	12.80	13.46	14.28
OU2MW-51I	25.0 - 30.0	13.13	12.97	12.97	12.59	13.34	14.10
OU2MW-51I2	45.0 - 50.0	13.15	13.04	13.04	12.58	13.40	14.30
OU2MW-51D	61.0 - 66.0	13.15	13.01	13.01	12.56	13.40	14.61
OU2MW-52S	3.0 - 8.0	2.12	NC	NC	0.58	1.91	3.17
OU2MW-52I	20.0 - 25.0	1.81	NC	NC	0.27	1.91	3.99
OU2MW-52D	35.0 - 40.0	1.98	NC	NC	0.40	1.74	3.35
OU2MW-53S	3.0 - 8.0	1.63	NC	NC	0.34	1.59	3.12
OU2MW-53I	20.0 - 25.0	1.38	NC	NC	0.36	1.34	2.31
OU2MW-53D	35.0 - 40.0	NC	NC	NC	0.51	1.37	2.86
OU2MW-54S	5.0 - 15.0	13.03	12.69	12.69	12.29	13.08	14.13
OU2MW-54I	25.0 - 30.0	12.83	12.69	12.69	12.22	13.12	14.94
OU2MW-54I2	40.0 - 45.0	12.81	12.67	12.67	12.25	12.92	13.99
OU2MW-54D	60.0 - 65.0	12.80	12.66	12.66	12.26	13.08	14.18
OU2MW-57S	5.0 - 15.0	12.99	12.79	12.79	12.40	13.23	14.94
OU2MW-57I	20.0 - 30.0	12.99	12.82	12.82	12.39	13.12	14.59
OU2MW-57I2	35.0 - 45.0	12.96	12.80	12.80	12.39	13.24	14.79
OU2MW-58S	5.0 - 15.0	12.75	12.61	12.61	12.24	13.08	14.55
OU2MW-58I	25.0 - 30.0	12.75	12.58	12.58	12.20	13.01	14.49

Notes:
NC - Not Calculated
bgs - below ground surface
Well Elevations obtained from 2007 survey or later and reference NAVD88

Table 3-5. OU-3 Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2018/2019 Annual GM and OM&M Report
Operable Unit No. 3

Well ID	Date of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-09S	6/30/2021	21.93	7.68	14.25	
BBMW-09I	6/30/2021	22.01	7.73	14.28	
BBMW-09D	NM	22.43	NM	NC	Destroyed
BBMW-28S	6/30/2021	16.43	2.11	14.32	
BBMW-28I	6/30/2021	16.43	3.10	13.33	
BBMW-29	6/30/2021	15.82	3.49	12.33	
BBMW-30S	6/30/2021	16.02	1.92	14.10	
BBMW-30I	6/30/2021	15.69	2.24	13.45	
BBMW-30D	6/30/2021	16.53	3.13	13.40	
BBMW-31S	6/30/2021	13.49	2.61	10.88	
BBMW-31I	6/30/2021	13.33	2.77	10.56	
BBMW-31D	6/30/2021	13.37	2.61	10.76	
BBMW-32S	6/30/2021	14.44	2.47	11.97	
BBMW-32I	6/30/2021	15.50	3.23	12.27	
BBMW-32D	6/30/2021	14.54	2.57	11.97	
BBMW-33	6/30/2021	16.58	4.66	11.92	
GM-02AS	NM	20.79	NM	NC	Destroyed
GM-02AI	NM	20.75	NM	NC	Destroyed
GM-02AD	NM	20.74	NM	NC	Destroyed
MW-01S	NM	19.34	NM	NC	abandoned
MW-01D	NM	19.48	NM	NC	abandoned
MW-03	6/30/2021	19.30	4.25	15.05	
MW-04	6/30/2021	19.16	4.21	14.95	
MW-29S	6/30/2021	18.34	2.91	15.43	
MW-29D	6/30/2021	18.44	1.78	16.66	
MW-30WR	6/30/2021	14.83	2.21	12.62	
MW-32W/WR	6/30/2021	14.65	1.55	13.10	
MW-34S	6/30/2021	15.69	2.54	13.15	
MW-34I	6/30/2021	15.73	2.36	13.37	
MW-34D	6/30/2021	15.58	2.34	13.24	
MW-45W	6/30/2021	15.20	1.88	13.32	
MW-46W-R	6/30/2021	15.40	2.21	13.19	
MW-64	6/30/2021	16.03	2.11	13.92	
MW-65	6/30/2021	15.62	1.82	13.80	
MW-73	6/30/2021	15.75	1.88	13.87	
MW-73I	6/30/2021	16.32	2.41	13.91	
MW-75	6/30/2021	16.09	2.22	13.87	
MW-75I	6/30/2021	16.07	2.21	13.86	
MW-76	NM	15.15	NM	NC	Cannot Locate (No access Q3 2020)
MW-78	6/30/2021	15.04	1.09	13.95	
MW-79	6/30/2021	15.32	1.32	14.00	
MW-80	6/30/2021	15.60	1.59	14.01	
MW-81	6/30/2021	15.47	1.29	14.18	
MW-82	6/30/2021	15.01	1.23	13.78	
MW-83	6/30/2021	15.02	0.98	14.04	
MWBS-02S	6/30/2021	13.58	2.66	10.92	
MWBS-02I	6/30/2021	13.46	2.49	10.97	
MWBS-02D	6/30/2021	13.54	2.66	10.88	
OU3MW-01S	NM	15.56	NM	NC	Cannot Locate
OU3MW-02S	6/30/2021	15.16	1.91	13.25	
OU3MW-02I	6/30/2021	15.14	1.90	13.24	
OU3MW-04S	6/30/2021	14.80	1.01	13.79	
OU3MW-04I	6/30/2021	14.76	0.97	13.79	
OU3MW-04D	6/30/2021	14.84	1.99	12.85	
OU3MW-05S	6/30/2021	15.96	3.31	12.65	
OU3MW-05I	6/30/2021	15.90	2.97	12.93	
OU3MW-08S	6/30/2021	21.28	3.52	NC	Stickup to flushmount/needs re-survey
OU3MW-08I	6/30/2021	21.42	3.98	NC	Stickup to flushmount/needs re-survey
OU3MW-09S	6/30/2021	21.31	3.88	NC	Stickup to flushmount/needs re-survey
OU3MW-09I	6/30/2021	21.41	3.67	NC	Stickup to flushmount/needs re-survey
OU3MW-09I2	6/30/2021	21.24	3.91	NC	Stickup to flushmount/needs re-survey
OU3MW-10S	NM	21.70	NM	NC	Destroyed
OU3MW-10I	6/30/2021	21.70	4.41	NC	Stickup to flushmount/needs re-survey
OU3MW-11S	6/30/2021	21.64	3.67	17.97	
OU3MW-11I	6/30/2021	21.62	4.55	17.07	

Table 3-5. OU-3 Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2018/2019 Annual GM and OM&M Report
Operable Unit No. 3

Well ID	Date of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OU3MW-12S	6/30/2021	22.05	3.47	NC	Stickup to flushmount/needs re-survey
OU3MW-12I	6/30/2021	22.07	3.50	NC	Stickup to flushmount/needs re-survey
OU3MW-13S	6/30/2021	15.51	1.51	14.00	
OU3MW-14S	6/30/2021	15.91	1.78	14.13	
OU3MW-15S	6/30/2021	15.38	1.15	14.23	
OU3MW-16S	6/29/2021	21.42	3.19	18.23	
PDMW-01	6/29/2021	19.29	3.51	15.78	
SV-02	6/29/2021	17.37	2.33	15.04	
SV-02I	6/29/2021	17.63	3.87	13.76	
SV-02I2	6/29/2021	17.49	3.69	13.80	
BBSW-13*	6/29/2021	13.07	2.19	10.88	

Notes:
1 - Well Elevations obtained from 2007 survey or later and reference NAVD88 datum
MSL - Mean Sea Level
NM - Not Measured
NA - Not Applicable
NC - Not Calculated
* - Surface Water Gauging Station

Table 3-6. OU-3 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 3

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Dec-78	Oct-92	Jun-97	Aug-97	Mar-98	Jun-98	Nov-99	Jun-01	Jul-01	Oct-01	Jun-02	Aug-02
BBMW-09S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	14.17	NC	NC	NC	14.84	12.61
BBMW-09I	30.0 - 40.0	NC	NC	NC	NC	NC	NC	14.17	NC	NC	NC	14.82	12.60
BBMW-09D	62.0 - 72.0	NC	NC	NC	NC	NC	NC	14.08	NC	NC	NC	14.78	12.61
BBMW-28S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-28I	10.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-29	2.0 - 9.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-30S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-30I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-30D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-31S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-31I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-31D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-32S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-32I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-32D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-33	7.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
GM-02AS	8.91 - 23.91	10.17	10.19	NC	NC	NC	NC	10.43	NC	NC	NC	10.33	NC
GM-02AI	35.24 - 50.24	10.12	10.21	NC	NC	NC	NC	10.46	NC	NC	NC	10.35	NC
GM-02AD	59.8 - 74.8	10.38	10.42	NC	NC	NC	NC	10.63	NC	NC	NC	10.44	NC
MW-01S	4.0 - 14.0	NC	NC	14.88	NC	NC	NC	NC	15.39	NC	NC	NC	NC
MW-01D	35.0 - 45.0	NC	NC	14.74	NC	NC	NC	NC	15.57	NC	NC	NC	NC
MW-02S/SR	2.0 -12.0	NC	14.67	NC	14.35	16.41	15.77	15.15	15.47	14.42	13.70	15.47	13.02
MW-02I/R	22.5 - 23.5	NC	NC	NC	15.10	16.74	NC	15.46	NC	NC	NC	20.02	NC
MW-03	4.94 - 14.94	NC	NC	15.19	14.34	16.2	15.65	14.8	NC	NC	NC	13.53	13.18
MW-04	5.1 - 15.1	NC	NC	NC	14.09	NC	15.38	14.59	NC	NC	NC	14.85	12.98
MW-16S/SR	2.0 - 10.0	NC	NC	NC	NC	15.32	14.8	13.88	14.34	13.66	13.25	14.98	12.35
MW-16I	14.0 - 19.0	NC	NC	NC	NC	15.66	15.11	14.22	NC	NC	NC	14.92	12.7
MW-29S	5.0 - 10.0	NC	NC	NC	NC	NC	NC	15.12	NC	NC	NC	NC	13.55
MW-29D	14.0 - 19.0	NC	NC	NC	NC	16.52	NC	15.11	NC	NC	NC	NC	13.53
MW-30W	2.0 - 10.0	NC	NC	15.20	14.57	15.89	15.37	NC	NC	NC	NC	NC	NC
MW-30WR	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-32W/WR	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-34S	2.0 - 10.0	NC	NC	13.42	12.76	14.2	13.64	NC	NC	NC	NC	NC	NC
MW-34I	18.5 - 19.5	NC	NC	NC	12.77	14.17	13.66	13.12	NC	NC	NC	13.05	NC
MW-34D	27.5 - 28.5	NC	NC	NC	12.78	14.64	13.68	13.12	NC	NC	NC	13.07	NC
MW-45W	2.0 - 10.0	NC	NC	13.55	12.85	14.34	13.82	NC	NC	NC	NC	NC	NC
MW-46W-R	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-64	19.0 - 24.0	NC	NC	NC	NC	15.4	14.85	13.94	NC	NC	NC	NC	NC
MW-65	11.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-73	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-73I	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-75	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-75I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-76	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-78	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-79	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-80	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-81	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-82	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-83	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-6. OU-3 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 3

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Dec-78	Oct-92	Jun-97	Aug-97	Mar-98	Jun-98	Nov-99	Jun-01	Jul-01	Oct-01	Jun-02	Aug-02
MWBS-02S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MWBS-02I	14.5 - 15.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MWBS-02D	24.5 - 25.5	NC	NC	NC	10.39	11.57	11.32	11.00	NC	NC	NC	11.30	NC
OU3MW-01S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-02S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-02I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04S	1.5 - 11.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04I	16.0 - 21.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04D	26.0 - 31.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-05S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-05I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-08S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-08I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-10S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-10I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-11S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-11I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-12S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-12I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-13S	20. - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-14S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-15S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-16S	2.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
PDMW-01	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-6. OU-3 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 3

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Nov-02	Mar-03	Jul-03	Sep-03	Oct-03	Jan-04	Apr-04	Aug-04	Oct-04	Feb-05	May-05	Aug-05
BBMW-09S	5.0 - 15.0	14.85	15.27	15.28	14.22	NC	14.65	15.41	14.05	14.48	15.17	14.99	13.79
BBMW-09I	30.0 - 40.0	14.84	15.27	15.25	14.22	NC	14.64	15.39	14.04	14.47	15.16	14.97	13.80
BBMW-09D	62.0 - 72.0	14.81	15.25	15.28	14.22	NC	14.63	16.37	14.04	14.48	15.16	14.99	13.80
BBMW-28S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.31	14.05	12.96
BBMW-28I	10.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.28	14.04	12.94
BBMW-29	2.0 - 9.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.41	12.22	11.28
BBMW-30S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-30I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-30D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-31S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-31I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-31D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-32S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-32I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-32D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-33	7.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
GM-02AS	8.91 - 23.91	NC	11.03	11.03	10.23	NC	10.69	11.86	10.08	10.35	10.94	10.90	9.94
GM-02AI	35.24 - 50.24	NC	NC	NC	10.24	NC	10.74	11.87	10.10	10.37	10.96	10.92	9.96
GM-02AD	59.8 - 74.8	NC	11.32	11.22	10.42	NC	10.97	12.03	10.25	10.59	11.17	11.11	10.06
MW-01S	4.0 - 14.0	13.64	15.89	16.59	16.54	15.93	NC	15.93	17.36	15.33	15.77	16.47	16.38
MW-01D	35.0 - 45.0	13.66	15.88	16.61	16.58	15.64	NC	15.95	17.38	15.37	15.80	16.46	16.40
MW-02S/SR	2.0 -12.0	NC	NC	NC	NC	14.79	14.93	16.47	NC	14.58	15.29	15.09	NC
MW-02I/R	22.5 - 23.5	NC	NC	NC	NC	NC	NC	NC	NC	14.11	NC	NC	NC
MW-03	4.94 - 14.94	15.32	15.98	16.00	15.02	NC	15.31	16.77	14.67	15.18	15.85	15.73	14.49
MW-04	5.1 - 15.1	16.28	19.16	15.84	14.89	NC	NC	16.61	14.57	15.19	15.55	15.55	14.34
MW-16S/SR	2.0 - 10.0	15.04	15.50	15.40	14.35	NC	14.79	16.47	NC	14.14	14.96	15.15	13.52
MW-16I	14.0 - 19.0	14.89	15.32	15.29	14.28	NC	14.71	16.08	NC	14.64	15.25	15.13	NC
MW-29S	5.0 - 10.0	15.69	16.30	16.24	15.35	NC	15.64	17.84	15.09	15.48	16.17	16.02	14.84
MW-29D	14.0 - 19.0	15.68	16.34	NC	15.34	NC	15.65	17.03	15.08	15.48	16.15	16.01	14.83
MW-30W	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-30WR	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	15.30	15.09	14.17
MW-32W/WR	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.57	13.36	12.36
MW-34S	2.0 - 10.0	NC	14.13	14.07	13.01	NC	13.52	14.8	12.97	13.28	14.00	13.73	12.73
MW-34I	18.5 - 19.5	NC	14.08	14.02	12.98	NC	13.48	14.76	12.92	13.25	13.97	13.72	12.74
MW-34D	27.5 - 28.5	NC	14.07	14.03	12.98	NC	13.47	14.8	12.93	13.26	13.97	13.72	12.75
MW-45W	2.0 - 10.0	NC	NC	NC	13.32	NC	13.71	14.87	13.20	13.40	14.13	13.97	12.85
MW-46W-R	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-64	19.0 - 24.0	NC	NC	NC	13.95	NC	14.87	15.77	13.85	14.21	NC	14.73	13.58
MW-65	11.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-73	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-73I	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-75	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-75I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-76	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-78	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-79	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-80	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-81	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-82	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-83	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-6. OU-3 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 3

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Nov-02	Mar-03	Jul-03	Sep-03	Oct-03	Jan-04	Apr-04	Aug-04	Oct-04	Feb-05	May-05	Aug-05
MWBS-02S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	10.77	10.97	11.58	11.44	10.59
MWBS-02I	14.5 - 15.5	NC	NC	NC	NC	NC	NC	NC	10.69	10.91	11.57	11.42	10.55
MWBS-02D	24.5 - 25.5	NC	NC	NC	NC	NC	NC	NC	10.69	10.95	11.45	11.44	10.61
OU3MW-01S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-02S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-02I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04S	1.5 - 11.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04I	16.0 - 21.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04D	26.0 - 31.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-05S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-05I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-08S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-08I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-10S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-10I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-11S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-11I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-12S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-12I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-13S	20. - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-14S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-15S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-16S	2.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
PDMW-01	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-6. OU-3 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 3

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Nov-05	Feb-06	May-06	Jul/Aug-06	Nov-06	Jan-07	May-07	Jul/Aug-07	Oct/Nov-07	Jan-08	Apr-08	Aug-08
BBMW-09S	5.0 - 15.0	15.55	15.43	14.93	14.63	15.09	15.02	15.44	14.67	13.75	14.72	15.29	14.12
BBMW-09I	30.0 - 40.0	15.54	15.42	14.92	14.63	15.10	15.02	15.44	14.69	13.76	14.72	15.30	14.11
BBMW-09D	62.0 - 72.0	15.52	15.42	14.93	14.63	15.11	15.01	15.45	14.65	13.74	14.72	15.30	14.12
BBMW-28S	2.0 - 12.0	14.45	14.35	13.97	13.65	14.11	14.07	14.36	13.72	12.89	13.74	14.28	13.23
BBMW-28I	10.0 - 20.0	14.45	14.34	13.96	13.63	14.09	14.06	14.34	13.71	12.88	13.73	14.29	13.22
BBMW-29	2.0 - 9.0	12.53	12.46	12.17	11.80	12.28	12.25	12.53	11.87	11.30	12.03	12.45	11.54
BBMW-30S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	13.68	12.93	13.71	14.22	13.21
BBMW-30I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	13.70	12.92	13.67	14.24	13.21
BBMW-30D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	13.67	12.91	13.64	14.20	13.16
BBMW-31S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	10.76	10.51	11.13	11.40	10.46
BBMW-31I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	10.77	10.52	11.12	11.40	10.45
BBMW-31D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	10.77	10.52	11.12	11.42	10.46
BBMW-32S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	12.15	11.58	12.29	12.72	11.75
BBMW-32I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	13.16	12.59	13.30	13.72	12.74
BBMW-32D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	13.09	11.56	12.26	12.69	11.71
BBMW-33	7.0 - 12.0	NC	NC	NC	13.22	13.72	13.59	13.93	13.24	12.56	13.39	13.85	12.78
GM-02AS	8.91 - 23.91	11.24	11.09	10.83	10.38	10.93	10.94	11.31	10.46	10.10	10.73	11.03	10.06
GM-02AI	35.24 - 50.24	11.26	11.11	10.85	10.40	10.96	10.94	11.33	10.48	10.12	10.76	11.04	10.07
GM-02AD	59.8 - 74.8	11.47	11.36	11.05	10.52	11.16	11.20	11.51	10.61	10.26	11.74	11.27	10.18
MW-01S	4.0 - 14.0	15.08	16.95	16.77	16.28	16.01	16.39	16.37	16.79	16.01	15.93	16.59	15.38
MW-01D	35.0 - 45.0	15.21	16.87	16.79	16.30	16.07	16.40	16.38	16.80	16.00	15.95	16.61	15.41
MW-02S/SR	2.0 -12.0	NC	NC	NC	14.77	15.23	15.13	15.58	14.86	13.87	14.87	15.49	14.23
MW-02I/R	22.5 - 23.5	NC	NC	NC	NC	NC	NC	NC	NC	13.83	14.56	15.29	14.18
MW-03	4.94 - 14.94	16.28	16.15	15.65	15.38	15.79	15.74	16.16	15.38	14.43	15.39	16.02	14.81
MW-04	5.1 - 15.1	16.13	15.90	15.45	15.19	15.56	15.52	15.73	15.14	14.20	15.07	NC	14.58
MW-16S/SR	2.0 - 10.0	15.70	15.6	15.01	14.75	15.29	15.11	15.92	15.03	13.89	14.81	16.14	14.22
MW-16I	14.0 - 19.0	15.56	15.46	14.98	14.7	15.15	15.07	15.66	14.77	13.84	14.93	15.35	14.22
MW-29S	5.0 - 10.0	16.53	16.39	15.91	15.69	16.07	16.00	16.41	15.67	NC	15.66	16.23	15.10
MW-29D	14.0 - 19.0	16.52	16.38	15.91	15.68	16.06	16.00	16.40	15.66	NC	15.63	16.22	15.08
MW-30W	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-30WR	2.0 - 10.0	15.40	15.34	15.03	14.69	15.13	15.10	15.40	14.74	11.83	12.58	13.04	12.07
MW-32W/WR	2.0 - 10.0	13.72	13.6	13.26	12.96	13.41	13.32	13.64	12.99	12.30	13.09	13.56	12.64
MW-34S	2.0 - 10.0	14.12	14.03	13.59	13.35	13.81	13.75	14.07	13.38	NC	13.48	14.00	12.94
MW-34I	18.5 - 19.5	14.12	14.01	13.65	13.35	13.80	13.75	14.07	13.38	NC	13.48	13.98	12.94
MW-34D	27.5 - 28.5	14.13	14.01	13.66	13.35	14.30	13.76	14.08	13.38	NC	13.38	13.98	12.94
MW-45W	2.0 - 10.0	14.26	14.15	13.78	13.49	13.97	13.88	14.22	13.51	12.79	13.56	NC	NC
MW-46W-R	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-64	19.0 - 24.0	15.09	15.07	14.61	14.24	14.75	14.72	14.99	14.35	13.49	14.33	14.95	13.84
MW-65	11.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.88	13.75
MW-73	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-73I	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-75	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-75I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-76	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-78	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-79	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-80	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-81	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-82	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-83	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-6. OU-3 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 3

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Nov-05	Feb-06	May-06	Jul/Aug-06	Nov-06	Jan-07	May-07	Jul/Aug-07	Oct/Nov-07	Jan-08	Apr-08	Aug-08
MWBS-02S	5.0 - 15.0	11.70	11.6	11.38	10.93	11.46	11.47	11.65	11.06	10.67	NC	NC	10.61
MWBS-02I	14.5 - 15.5	11.66	11.6	11.39	10.94	11.45	11.45	11.58	10.99	10.63	NC	NC	10.63
MWBS-02D	24.5 - 25.5	11.73	11.6	11.39	10.88	11.47	11.47	11.28	11.05	10.67	NC	NC	10.65
OU3MW-01S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-02S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-02I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04S	1.5 - 11.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04I	16.0 - 21.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-04D	26.0 - 31.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-05S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-05I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-08S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-08I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-09I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-10S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-10I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-11S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-11I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-12S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-12I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-13S	20. - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-14S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-15S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-16S	2.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
PDMW-01	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-6. OU-3 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
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Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10	Jul-10	Oct-10	Jan-11	Apr-11	Jul-11
BBMW-09S	5.0 - 15.0	14.82	14.86	15.22	15.06	14.21	15.29	16.78	14.13	13.68	14.44	14.79	14.35
BBMW-09I	30.0 - 40.0	14.81	14.90	15.23	15.09	14.21	15.30	16.77	14.26	13.79	14.54	14.90	14.45
BBMW-09D	62.0 - 72.0	14.83	14.88	15.24	15.06	14.21	15.28	16.76	14.24	13.74	14.54	14.89	14.46
BBMW-28S	2.0 - 12.0	13.94	13.92	14.30	14.06	13.25	14.30	15.33	13.26	12.96	13.69	13.97	13.54
BBMW-28I	10.0 - 20.0	13.94	13.90	14.29	14.05	13.24	14.38	15.32	13.24	12.93	13.66	13.96	13.52
BBMW-29	2.0 - 9.0	12.21	12.16	12.48	12.27	11.48	12.52	13.51	11.44	11.35	12.02	12.23	11.83
BBMW-30S	2.0 - 10.0	13.90	13.87	14.27	13.99	13.24	14.22	15.10	13.25	12.96	13.66	13.72	13.51
BBMW-30I	14.0 -19.0	13.91	13.86	14.25	13.97	13.21	14.22	15.13	13.24	12.96	13.66	13.65	13.32
BBMW-30D	30.0 - 35.0	13.88	13.83	14.22	13.92	13.19	14.19	15.11	13.22	12.93	13.63	14.13	13.55
BBMW-31S	2.0 - 10.0	11.23	11.20	11.48	11.21	10.43	11.46	12.27	10.40	10.38	11.04	11.09	10.96
BBMW-31I	14.0 -19.0	11.22	11.18	11.38	11.20	10.42	11.45	12.20	10.38	10.37	11.02	10.95	10.88
BBMW-31D	30.0 - 35.0	11.23	11.19	11.38	11.21	10.44	11.45	12.21	10.39	10.38	11.03	11.02	10.84
BBMW-32S	2.0 - 10.0	12.45	12.43	12.74	12.49	11.76	12.76	13.62	11.75	11.61	12.25	12.24	12.07
BBMW-32I	14.0 -19.0	13.45	13.42	13.74	13.50	12.77	13.75	14.66	12.74	12.60	13.21	13.20	13.10
BBMW-32D	30.0 - 35.0	12.42	12.39	12.71	12.47	11.73	12.73	13.63	11.71	11.56	12.19	12.22	12.05
BBMW-33	7.0 - 12.0	13.53	13.48	13.89	13.65	12.84	13.86	14.93	12.81	13.60	NC	13.69	13.35
GM-02AS	8.91 - 23.91	10.85	10.84	10.93	10.86	10.04	11.14	12.21	9.97	9.96	10.61	10.83	10.46
GM-02AI	35.24 - 50.24	10.88	10.85	10.95	10.88	10.05	11.16	12.22	10.00	9.97	10.64	10.86	10.48
GM-02AD	59.8 - 74.8	11.04	11.05	11.36	11.04	10.25	11.37	12.44	10.13	10.16	10.79	11.02	10.60
MW-01S	4.0 - 14.0	16.08	NC	16.53	16.42	15.49	16.62	17.99	15.61	14.98	15.70	16.23	15.75
MW-01D	35.0 - 45.0	16.11	16.27	16.55	16.44	15.52	16.65	18.03	15.65	14.99	15.75	16.25	15.78
MW-02S/SR	2.0 -12.0	14.97	14.98	15.32	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-02I/R	22.5 - 23.5	14.84	14.89	15.24	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-03	4.94 - 14.94	15.49	15.62	15.97	15.81	14.91	16.02	17.58	15.01	14.47	15.23	15.61	15.03
MW-04	5.1 - 15.1	15.27	15.28	NC	15.50	14.82	15.73	NC	14.71	14.18	14.95	15.31	15.04
MW-16S/SR	2.0 - 10.0	14.94	15.00	15.97	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-16I	14.0 - 19.0	14.86	14.94	15.28	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-29S	5.0 - 10.0	15.76	15.88	16.18	16.00	15.14	16.24	17.43	15.29	14.77	15.49	15.84	15.45
MW-29D	14.0 - 19.0	15.75	15.88	16.16	16.00	15.17	16.25	17.44	15.29	14.77	15.47	15.89	15.44
MW-30W	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-30WR	2.0 - 10.0	12.8	12.75	13.14	12.83	12.04	13.10	14.15	12.05	11.95	12.58	12.81	12.45
MW-32W/WR	2.0 - 10.0	13.28	13.21	NC	13.36	12.58	13.61	NC	12.56	NC	NC	13.29	12.95
MW-34S	2.0 - 10.0	13.68	13.64	14.05	13.82	13.00	14.03	15.09	12.98	12.72	13.46	13.71	13.31
MW-34I	18.5 - 19.5	13.66	13.63	14.02	13.80	12.98	13.98	15.06	12.95	12.95	13.42	13.71	13.30
MW-34D	27.5 - 28.5	13.67	13.67	14.02	13.80	12.99	14.00	15.07	12.95	12.68	13.43	13.73	13.27
MW-45W	2.0 - 10.0	13.79	NC	14.16	14.21	13.18	NC	15.16	13.18	12.98	13.60	13.37	13.27
MW-46W-R	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.29
MW-64	19.0 - 24.0	14.52	14.58	14.90	14.65	13.87	14.90	15.75	13.96	13.50	14.21	14.54	14.11
MW-65	11.0 - 16.0	14.46	14.51	14.87	14.60	13.80	14.82	NC	13.80	13.44	14.18	14.52	14.05
MW-73	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	13.41	14.22	14.54	14.04
MW-73I	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-75	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	13.24	14.47	14.69	13.70
MW-75I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-76	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-78	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.23	14.60	14.13
MW-79	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.20	14.54	14.09
MW-80	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	13.48	14.22	14.65	14.09
MW-81	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.21	14.55	14.06
MW-82	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.09	14.63	14.07
MW-83	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.09

Table 3-6. OU-3 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 3

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10	Jul-10	Oct-10	Jan-11	Apr-11	Jul-11
MWBS-02S	5.0 - 15.0	11.43	11.38	NC	11.70	10.43	11.65	NC	10.18	NC	11.17	11.32	11.04
MWBS-02I	14.5 - 15.5	11.41	11.34	NC	11.35	10.57	11.66	NC	10.54	NC	11.21	11.39	11.01
MWBS-02D	24.5 - 25.5	11.42	11.22	NC	11.44	10.62	11.49	NC	10.50	NC	11.19	11.35	11.04
OU3MW-01S	3.0 - 13.0	NC	NC	NC	NC	NC	14.35	15.28	13.43	13.14	13.78	14.11	13.69
OU3MW-02S	3.0 - 13.0	NC	NC	NC	NC	13.10	14.10	15.05	13.10	12.88	13.55	13.57	13.13
OU3MW-02I	15.0 - 20.0	NC	NC	NC	NC	13.09	14.03	15.05	13.01	12.81	13.47	13.54	13.07
OU3MW-04S	1.5 - 11.5	NC	NC	NC	NC	12.34	13.39	14.42	12.31	12.17	12.81	13.09	12.79
OU3MW-04I	16.0 - 21.0	NC	NC	NC	NC	12.33	13.37	14.39	12.31	12.15	12.79	13.06	12.73
OU3MW-04D	26.0 - 31.0	NC	NC	NC	NC	12.31	13.36	14.38	12.26	12.09	12.78	13.04	12.70
OU3MW-05S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-05I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-08S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.59	14.89	14.46
OU3MW-08I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.58	14.89	14.48
OU3MW-09S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.64	15.02	14.62
OU3MW-09I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.58	14.94	14.53
OU3MW-09I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-10S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.62	15.02	14.58
OU3MW-10I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.59	14.97	14.55
OU3MW-11S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.54	14.94	14.46
OU3MW-11I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.54	14.91	14.46
OU3MW-12S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.83	15.19	14.76
OU3MW-12I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.84	15.20	14.77
OU3MW-13S	20. - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-14S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-15S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OU3MW-16S	2.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
PDMW-01	5.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.77
SV-02	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.33	14.67	14.03
SV-02I	22.0 - 27.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
SV-02I2	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-6. OU-3 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level										
		Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Apr-15	Jun-16	Apr-17	Jun-18	Apr-19	Oct-20
BBMW-09S	5.0 - 15.0	14.70	14.23	14.26	NC	15.81	15.02	13.73	15.05	14.32	14.25	14.25
BBMW-09I	30.0 - 40.0	14.81	14.78	14.36	14.52	15.83	15.10	13.84	15.16	14.45	14.28	14.28
BBMW-09D	62.0 - 72.0	14.80	15.14	14.38	14.93	16.20	15.11	13.84	15.12	14.45	NC	NC
BBMW-28S	2.0 - 12.0	13.86	13.81	13.51	13.93	14.98	14.15	13.04	14.48	NC	14.32	14.32
BBMW-28I	10.0 - 20.0	14.13	14.06	13.48	13.86	14.88	13.85	12.97	14.43	13.54	13.33	13.33
BBMW-29	2.0 - 9.0	12.11	13.09	11.85	12.20	13.02	12.47	11.45	12.69	12.00	12.33	12.33
BBMW-30S	2.0 - 10.0	14.02	13.87	13.49	13.85	14.27	14.12	13.13	14.37	13.67	14.10	14.10
BBMW-30I	14.0 -19.0	13.48	13.40	13.48	13.67	13.66	14.14	13.02	14.40	13.56	13.45	13.45
BBMW-30D	30.0 - 35.0	14.24	14.14	13.47	13.83	14.55	13.13	13.00	14.34	13.56	13.40	13.40
BBMW-31S	2.0 - 10.0	11.08	11.13	11.02	11.19	11.79	11.44	10.60	11.61	10.91	10.88	10.88
BBMW-31I	14.0 -19.0	11.13	11.11	10.90	10.97	11.83	11.43	10.59	11.59	10.88	10.56	10.56
BBMW-31D	30.0 - 35.0	11.00	10.97	10.80	11.10	11.67	11.39	10.57	11.60	10.89	10.76	10.76
BBMW-32S	2.0 - 10.0	11.76	12.34	12.10	12.33	13.04	12.70	11.70	12.89	12.12	11.97	11.97
BBMW-32I	14.0 -19.0	13.35	13.38	13.11	13.42	14.05	13.68	12.67	13.86	13.08	12.27	12.27
BBMW-32D	30.0 - 35.0	12.33	12.34	12.18	12.47	13.15	12.69	11.67	12.85	12.06	11.97	11.97
BBMW-33	7.0 - 12.0	13.38	14.26	13.10	13.41	12.68	13.70	12.63	14.05	13.16	11.92	11.92
GM-02AS	8.91 - 23.91	10.99	10.98	10.51	10.87	11.38	11.15	NC	NC	NC	NC	NC
GM-02AI	35.24 - 50.24	10.73	10.76	10.52	10.89	11.50	11.14	NC	NC	NC	NC	NC
GM-02AD	59.8 - 74.8	10.84	10.73	10.72	11.06	11.54	11.33	NC	NC	NC	NC	NC
MW-01S	4.0 - 14.0	16.07	16.04	15.66	16.16	16.74	16.45	15.06	16.40	NC	NC	NC
MW-01D	35.0 - 45.0	16.11	16.13	15.69	16.16	16.78	16.46	14.83	16.40	NC	NC	NC
MW-02S/SR	2.0 -12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-02I/R	22.5 - 23.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-03	4.94 - 14.94	15.44	15.46	15.05	15.52	16.21	15.85	14.52	NC	15.15	15.05	15.05
MW-04	5.1 - 15.1	15.19	15.17	14.78	15.17	15.85	15.54	14.56	15.82	15.12	14.95	14.95
MW-16S/SR	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-16I	14.0 - 19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-29S	5.0 - 10.0	15.50	15.76	15.40	15.82	17.14	16.09	14.84	16.11	15.49	15.43	15.43
MW-29D	14.0 - 19.0	15.80	15.82	15.36	15.86	16.84	16.44	14.83	16.28	15.74	16.66	16.66
MW-30W	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-30WR	2.0 - 10.0	12.70	12.12	12.44	12.73	13.43	13.04	11.96	13.30	12.44	12.62	12.62
MW-32W/WR	2.0 - 10.0	13.22	11.91	12.91	13.26	14.05	13.55	12.60	13.81	12.94	13.10	13.10
MW-34S	2.0 - 10.0	13.69	13.62	13.28	13.66	14.59	13.98	13.10	14.64	13.53	13.15	13.15
MW-34I	18.5 - 19.5	13.58	13.65	13.25	13.65	14.66	13.93	12.79	14.48	13.28	13.37	13.37
MW-34D	27.5 - 28.5	13.49	13.58	13.26	13.64	14.49	13.97	12.81	14.60	13.32	13.24	13.24
MW-45W	2.0 - 10.0	13.62	13.42	13.50	13.66	14.20	14.01	12.84	14.30	13.43	13.32	13.32
MW-46W-R	2.0 - 10.0	13.60	13.47	13.26	13.43	14.40	13.95	12.94	14.21	13.40	13.19	13.19
MW-64	19.0 - 24.0	14.44	14.39	14.06	14.46	15.33	14.74	13.58	14.77	14.13	13.92	13.92
MW-65	11.0 - 16.0	13.88	14.38	14.06	14.48	15.52	14.75	NC	NC	NC	13.80	13.80
MW-73	2.0 - 12.0	14.35	14.42	14.03	14.28	15.15	15.69	13.47	14.67	14.09	13.87	13.87
MW-73I	2.0 - 12.0	14.38	14.33	14.01	14.32	14.57	15.13	13.54	14.68	14.09	13.91	13.91
MW-75	2.0 - 12.0	14.43	14.39	14.01	14.96	15.29	14.75	13.55	14.74	14.15	13.87	13.87
MW-75I	22.0 - 27.0	14.35	14.28	13.95	15.07	15.37	14.58	13.42	14.62	14.00	13.86	13.86
MW-76	2.0 - 12.0	NC	NC	13.92	14.37	14.85	14.73	13.44	NC	NC	NC	NC
MW-78	5.0 - 20.0	14.44	14.42	14.08	14.54	14.94	15.02	13.59	14.84	14.13	13.95	13.95
MW-79	5.0 - 20.0	14.43	14.39	14.04	14.46	14.92	14.72	13.51	15.27	14.09	14.00	14.00
MW-80	5.0 - 20.0	14.37	14.40	14.09	14.43	15.50	14.70	13.49	15.30	14.08	14.01	14.01
MW-81	5.0 - 20.0	13.47	14.36	14.03	14.43	15.17	14.82	13.50	15.37	14.01	14.18	14.18
MW-82	5.0 - 20.0	14.51	14.40	14.07	14.40	14.81	14.61	13.09	14.71	13.80	13.78	13.78
MW-83	5.0 - 20.0	14.45	14.33	14.07	14.58	14.72	14.84	NC	NC	NC	14.04	14.04

Table 3-6. OU-3 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 3

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level										
		Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Apr-15	Jun-16	Apr-17	Jun-18	Apr-19	Oct-20
MWBS-02S	5.0 - 15.0	11.45	11.41	10.91	11.27	12.28	11.68	10.74	11.99	NC	10.92	10.92
MWBS-02I	14.5 - 15.5	11.29	11.34	11.15	11.68	11.46	11.65	10.74	11.89	11.12	10.97	10.97
MWBS-02D	24.5 - 25.5	11.20	11.41	10.83	11.64	12.14	11.56	10.74	11.89	11.13	10.88	10.88
OU3MW-01S	3.0 - 13.0	14.49	14.04	NC	NC	14.06	14.34	13.2	14.53	13.67	NC	NC
OU3MW-02S	3.0 - 13.0	13.91	13.83	13.44	13.76	14.56	14.04	12.93	14.29	13.38	13.25	13.25
OU3MW-02I	15.0 - 20.0	13.34	13.40	13.33	13.67	14.64	13.96	12.83	14.27	13.32	13.24	13.24
OU3MW-04S	1.5 - 11.5	12.96	12.93	12.65	13.00	13.90	13.35	12.21	14.18	12.83	13.79	13.79
OU3MW-04I	16.0 - 21.0	12.86	12.92	12.63	12.97	13.76	13.27	12.20	14.71	12.59	13.79	13.79
OU3MW-04D	26.0 - 31.0	12.89	12.93	12.61	12.97	13.64	13.24	12.19	13.89	12.63	12.85	12.85
OU3MW-05S	2.0 - 12.0	NC	12.03	12.71	13.09	13.82	13.37	12.46	13.87	12.75	12.65	12.65
OU3MW-05I	15.0 - 20.0	NC	11.95	12.67	13.08	13.90	13.36	12.24	13.82	12.72	12.93	12.93
OU3MW-08S	2.0 - 12.0	14.68	14.78	14.42	14.80	15.67	15.08	NC	15.25	14.46	17.76	17.76
OU3MW-08I	25.0 - 30.0	14.97	14.78	14.44	14.80	15.69	15.10	13.94	15.14	14.49	17.44	17.44
OU3MW-09S	2.0 - 12.0	15.00	15.01	14.58	14.91	16.10	15.33	14.10	15.33	14.68	17.43	17.43
OU3MW-09I	25.0 - 30.0	14.90	14.89	14.47	14.99	15.90	15.15	13.96	15.09	14.52	17.74	17.74
OU3MW-09I2	35.0 - 40.0	14.87	14.85	14.43	14.72	15.86	15.15	13.91	15.16	14.52	17.33	17.33
OU3MW-10S	2.0 - 12.0	14.99	14.98	14.56	14.82	15.99	15.32	13.83	15.10	14.45	NC	NC
OU3MW-10I	25.0 - 30.0	14.93	14.89	14.49	14.90	15.95	15.20	13.98	15.22	14.57	17.29	17.29
OU3MW-11S	2.0 - 12.0	14.83	14.81	14.40	14.84	16.03	15.14	14.18	15.19	14.46	17.97	17.97
OU3MW-11I	25.0 - 30.0	14.81	14.75	14.39	14.77	15.89	15.11	13.85	15.14	14.46	17.07	17.07
OU3MW-12S	2.0 - 12.0	15.11	15.09	14.66	15.05	16.67	15.41	14.67	18.45	17.79	18.58	18.58
OU3MW-12I	25.0 - 30.0	NC	17.82	17.47	14.73	16.66	15.14	14.18	18.48	17.85	18.57	18.57
OU3MW-13S	20. - 12.0	13.63	14.36	14.07	14.44	15.41	14.78	13.58	14.86	14.12	14.00	14.00
OU3MW-14S	2.0 - 12.0	NC	14.36	14.00	14.40	15.21	14.75	13.59	14.83	14.14	14.13	14.13
OU3MW-15S	2.0 - 12.0	14.38	14.34	14.01	14.59	15.08	14.73	13.56	14.73	14.37	14.23	14.23
OU3MW-16S	2.0 - 16.0	14.81	14.80	14.39	14.90	15.73	15.14	14.65	15.77	14.53	18.23	18.23
PDMW-01	5.0 - 20.0	15.17	15.33	14.71	15.22	15.95	15.42	14.22	15.41	14.82	15.78	15.78
SV-02	2.0 - 12.0	14.97	14.53	14.17	14.77	15.52	14.94	13.55	15.09	13.84	15.04	15.04
SV-02I	22.0 - 27.0	14.31	14.20	13.88	16.22	15.53	14.73	13.40	14.58	13.93	13.76	13.76
SV-02I2	35.0 - 40.0	14.26	14.21	13.90	15.86	15.34	14.42	13.44	14.61	14.22	13.80	13.80

Table 3-6. OU-3 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 3

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level		
		Minimum	Average	Maximum
BBMW-09S	5.0 - 15.0	12.61	14.70	16.78
BBMW-09I	30.0 - 40.0	12.60	14.73	16.77
BBMW-09D	62.0 - 72.0	12.61	14.79	16.76
BBMW-28S	2.0 - 12.0	12.89	13.92	15.33
BBMW-28I	10.0 - 20.0	12.88	13.85	15.32
BBMW-29	2.0 - 9.0	11.28	12.16	13.51
BBMW-30S	2.0 - 10.0	12.93	13.80	15.10
BBMW-30I	14.0 -19.0	12.92	13.67	15.13
BBMW-30D	30.0 - 35.0	12.91	13.73	15.11
BBMW-31S	2.0 - 10.0	10.38	11.07	12.27
BBMW-31I	14.0 -19.0	10.37	11.02	12.20
BBMW-31D	30.0 - 35.0	10.38	11.02	12.21
BBMW-32S	2.0 - 10.0	11.58	12.27	13.62
BBMW-32I	14.0 -19.0	12.27	13.24	14.66
BBMW-32D	30.0 - 35.0	11.56	12.31	13.63
BBMW-33	7.0 - 12.0	11.92	13.36	14.93
GM-02AS	8.91 - 23.91	9.94	10.72	12.21
GM-02AI	35.24 - 50.24	9.96	10.72	12.22
GM-02AD	59.8 - 74.8	10.06	10.93	12.44
MW-01S	4.0 - 14.0	13.64	16.06	17.99
MW-01D	35.0 - 45.0	13.66	16.08	18.03
MW-02S/SR	2.0 -12.0	13.02	14.96	16.47
MW-02I/R	22.5 - 23.5	13.83	15.36	20.02
MW-03	4.94 - 14.94	13.18	15.39	17.58
MW-04	5.1 - 15.1	12.98	15.24	19.16
MW-16S/SR	2.0 - 10.0	12.35	14.83	16.47
MW-16I	14.0 - 19.0	12.70	14.93	16.08
MW-29S	5.0 - 10.0	13.55	15.78	17.84
MW-29D	14.0 - 19.0	13.53	15.83	17.44
MW-30W	2.0 - 10.0	14.57	15.26	15.89
MW-30WR	2.0 - 10.0	11.83	13.34	15.40
MW-32W/WR	2.0 - 10.0	11.91	13.15	14.05
MW-34S	2.0 - 10.0	12.72	13.64	15.09
MW-34I	18.5 - 19.5	12.74	13.61	15.06
MW-34D	27.5 - 28.5	12.68	13.62	15.07
MW-45W	2.0 - 10.0	12.79	13.68	15.16
MW-46W-R	2.0 - 10.0	12.94	13.53	14.40
MW-64	19.0 - 24.0	13.49	14.46	15.77
MW-65	11.0 - 16.0	13.44	14.30	15.52
MW-73	2.0 - 12.0	13.41	14.27	15.69
MW-73I	2.0 - 12.0	13.54	14.26	15.13
MW-75	2.0 - 12.0	13.24	14.27	15.29
MW-75I	22.0 - 27.0	13.42	14.31	15.37
MW-76	2.0 - 12.0	13.44	14.26	14.85
MW-78	5.0 - 20.0	13.59	14.35	15.02
MW-79	5.0 - 20.0	13.51	14.33	15.27
MW-80	5.0 - 20.0	13.48	14.32	15.50
MW-81	5.0 - 20.0	13.47	14.31	15.37
MW-82	5.0 - 20.0	13.09	14.20	14.81
MW-83	5.0 - 20.0	14.04	14.35	14.84

Table 3-6. OU-3 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 3

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level		
		Minimum	Average	Maximum
MWBS-02S	5.0 - 15.0	10.18	11.23	12.28
MWBS-02I	14.5 - 15.5	10.54	11.21	11.89
MWBS-02D	24.5 - 25.5	10.39	11.19	12.14
OU3MW-01S	3.0 - 13.0	13.14	14.01	15.28
OU3MW-02S	3.0 - 13.0	12.88	13.64	15.05
OU3MW-02I	15.0 - 20.0	12.81	13.54	15.05
OU3MW-04S	1.5 - 11.5	12.17	13.10	14.42
OU3MW-04I	16.0 - 21.0	12.15	13.09	14.71
OU3MW-04D	26.0 - 31.0	12.09	12.93	14.38
OU3MW-05S	2.0 - 12.0	12.03	12.94	13.87
OU3MW-05I	15.0 - 20.0	11.95	12.96	13.90
OU3MW-08S	2.0 - 12.0	14.42	15.28	17.76
OU3MW-08I	25.0 - 30.0	13.94	15.16	17.44
OU3MW-09S	2.0 - 12.0	14.10	15.30	17.43
OU3MW-09I	25.0 - 30.0	13.96	15.24	17.74
OU3MW-09I2	35.0 - 40.0	13.91	15.28	17.33
OU3MW-10S	2.0 - 12.0	13.83	14.86	15.99
OU3MW-10I	25.0 - 30.0	13.98	15.20	17.29
OU3MW-11S	2.0 - 12.0	14.18	15.27	17.97
OU3MW-11I	25.0 - 30.0	13.85	15.09	17.07
OU3MW-12S	2.0 - 12.0	14.66	16.06	18.58
OU3MW-12I	25.0 - 30.0	14.18	16.48	18.57
OU3MW-13S	20. - 12.0	13.58	14.30	15.41
OU3MW-14S	2.0 - 12.0	13.59	14.35	15.21
OU3MW-15S	2.0 - 12.0	13.56	14.39	15.08
OU3MW-16S	2.0 - 16.0	14.39	15.56	18.23
PDMW-01	5.0 - 20.0	14.22	15.22	15.95
SV-02	2.0 - 12.0	13.55	14.61	15.52
SV-02I	22.0 - 27.0	13.40	14.39	16.22
SV-02I2	35.0 - 40.0	13.44	14.35	15.86

Notes:
NC - Not Calculated
bgs - below ground surface
Well Elevations obtained from 2007 survey or later and reference NAVD88 datum.

Table 3-7. OU-4 Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2018/2019 Annual GM and OM&M Report
Operable Unit No. 4

Well ID	Date of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
WCMW-02S	6/30/2021	15.34	2.40	12.94	
WCMW-02I	6/30/2021	15.23	2.34	12.89	
WCMW-02D	6/30/2021	15.15	2.45	12.70	
WCMW-04S	NM	19.27	NM	NC	Abandoned
WCMW-04I	NM	19.21	NM	NC	Abandoned
WCMW-04I2	NM	19.16	NM	NC	Abandoned
WCMW-05S	6/30/2021	18.46	4.62	13.84	
WCMW-05I	6/30/2021	18.27	4.54	13.73	
WCMW-05I2	6/30/2021	18.39	4.61	13.78	
WCMW-06S	6/30/2021	17.13	3.83	13.30	
WCMW-06I	6/30/2021	17.30	3.96	13.34	
WCMW-06I2	6/30/2021	17.43	3.94	13.49	
WCMW-07S	-	NS	3.46	NC	
WCMW-07I	-	NS	3.35	NC	
WCMW-07I2	-	NS	3.64	NC	
WCMW-08S	6/30/2021	17.64	3.42	14.22	
WCMW-08I	6/30/2021	17.72	3.45	14.27	
WCMW-08I2	6/30/2021	17.76	3.65	14.11	
WCMW-09S	NM	18.02	NM	NC	Abandoned
WCMW-10S	6/30/2021	17.44	3.67	13.77	
WCMW-10D	6/30/2021	17.36	3.57	13.79	
WCMW-11S	NM	18.87	NM	NC	GC Environmental/No Access
WCMW-11I	NM	19.18	NM	NC	GC Environmental/No Access
WCMW-11D	NM	19.02	NM	NC	GC Environmental/No Access
WCMW-12S	6/30/2021	16.88	3.91	12.97	
WCMW-12I	6/30/2021	17.19	4.25	12.94	
WCMW-12D	6/30/2021	17.15	4.22	12.93	
WCMW-13S	6/30/2021	15.11	2.26	12.85	
WCMW-13I	6/30/2021	15.41	2.55	12.86	
WCMW-13D	6/30/2021	15.38	2.50	12.88	
WCMW-14S	6/30/2021	16.97	3.65	13.32	
WCMW-14I	6/30/2021	16.98	3.53	13.45	
WCMW-14I2	6/30/2021	17.01	3.67	13.34	
WCMW-14D	6/30/2021	17.04	3.68	13.36	
WCMW-18WT	NM	17.00	NM	NC	
WCMW-18S	NM	17.20	NM	NC	
WCMW-18I	NM	17.22	NM	NC	
WCMW-18I2	NM	17.22	NM	NC	
WCMW-19S	NM	16.68	NM	NC	Abandoned
WCMW-19I	NM	16.92	NM	NC	Abandoned
WCMW-19I2	NM	16.64	NM	NC	Abandoned
WCMW-22S	NM	18.66	NM	NC	GC Environmental/No Access
WCMW-22I	NM	18.36	NM	NC	GC Environmental/No Access
WCMW-23S	NM	19.13	NM	NC	GC Environmental/No Access
WCMW-23I	NM	19.06	NM	NC	GC Environmental/No Access
WCMW-25I	NM	18.65	NM	NC	Abandoned
WCMW-25D	NM	18.61	NM	NC	Abandoned
WCMW-26S	NM	20.08	NM	NC	GC Environmental/No Access
WCMW-26I	NM	20.73	NM	NC	GC Environmental/No Access
WCMW-26I2	NM	20.98	NM	NC	GC Environmental/No Access
WCMW-29S	NM	18.08	NM	NC	GC Environmental/No Access
WCMW-29I	NM	18.09	NM	NC	GC Environmental/No Access
BBSW-14*	7/1/2021	15.05	2.59	12.46	Watchogue Creek at Union Blvd.

Notes:

1 - Well Elevations obtained from 2007 survey or later and reference NAVD88 datum
MSL - Mean Sea Level
NS - Survey Data Not Available
NM - Not Measured
NC - Not Calculated
-- not analyzed or not applicable
* - Surface Water Gauging Station

Table 3-8. OU-4 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 4

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Nov-99	Jun-02	Nov-02	Mar-03	Jul-03	Sep-03	Jan-04	Apr-04	Jun-04	Oct-04	Feb-05	May-05
WCMW-02S	3.0 - 13.0	NC	12.96	13.12	13.53	13.45	12.92	13.09	14.00	12.66	13.03	14.07	13.44
WCMW-02I	34.5 - 44.5	NC	12.86	13.03	13.43	13.34	12.86	13.01	13.96	12.56	12.95	13.52	13.41
WCMW-02D	62.0 - 72.0	NC	12.92	13.10	13.64	13.44	12.90	12.75	14.01	12.61	12.98	13.46	13.55
WCMW-04S	1.5 - 11.5	NC	NC	13.97	14.50	14.36	13.70	NC	15.06	13.39	13.83	14.46	14.32
WCMW-04I	19.0 - 24.0	NC	NC	13.94	14.49	14.36	13.70	NC	15.00	13.41	13.83	14.47	14.33
WCMW-04I2	29.85 - 34.85	NC	NC	14.05	14.58	14.43	13.79	NC	15.07	13.48	13.88	14.55	14.45
WCMW-05S	1.4 - 11.4	NC	NC	14.20	14.68	14.46	13.82	NC	15.05	13.48	13.97	14.66	14.39
WCMW-05I	19.61 - 24.61	NC	NC	13.98	14.51	14.40	13.76	NC	14.99	13.44	13.89	14.52	14.37
WCMW-05I2	29.46 - 34.46	NC	NC	14.02	14.54	14.43	13.81	NC	15.02	13.48	13.92	14.57	14.41
WCMW-06S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-06I	19.55 - 24.55	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-06I2	29.83 - 34.83	NC	NC	13.86	14.33	14.21	13.60	NC	14.79	13.27	13.74	14.39	14.22
WCMW-07S	2.76 - 12.76	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-07I	18.9 - 23.9	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-07I2	28.95 - 33.95	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-08S	4.2 - 9.2	NC	NC	14.55	15.14	15.02	14.32	14.57	15.59	14.00	14.45	15.11	15.01
WCMW-08I	19.2 - 24.2	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-08I2	26.9 - 31.9	NC	NC	14.55	15.13	15.05	14.33	14.59	15.61	14.03	14.47	15.14	15.03
WCMW-09S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-10S	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-10D	40.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-11S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-11I	25.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-11D	50.0 - 60.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-12S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-12I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-12D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-13S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-13I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-13D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-14S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-14I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-14I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-14D	67.0 - 72.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-18WT	2.0 - 7.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-18S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-18I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-18I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-19S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-19I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-19I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-8. OU-4 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 4

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Nov-99	Jun-02	Nov-02	Mar-03	Jul-03	Sep-03	Jan-04	Apr-04	Jun-04	Oct-04	Feb-05	May-05
WCMW-22S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-22I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-23S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-23I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-25I	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-25D	55.0 - 60.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-26S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-26I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-26I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-29S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-29I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-8. OU-4 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 4

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Aug-05	Nov-05	Feb-06	May-06	Jul/Aug-06	Nov-06	Jan-07	May-07	Jul/Aug-07	Oct/Nov-07	Jan-08	May-08
WCMW-02S	3.0 - 13.0	12.25	13.69	13.53	13.22	12.95	13.39	13.35	13.60	12.95	12.35	13.07	13.54
WCMW-02I	34.5 - 44.5	12.28	13.75	13.61	13.28	12.98	13.43	13.41	13.67	12.98	12.34	13.11	13.62
WCMW-02D	62.0 - 72.0	12.34	13.84	13.64	13.32	12.98	13.47	13.44	13.70	13.02	12.39	13.16	13.65
WCMW-04S	1.5 - 11.5	13.10	14.73	14.59	14.23	13.90	14.36	14.33	14.58	13.83	13.18	13.97	14.57
WCMW-04I	19.0 - 24.0	13.10	14.73	14.59	14.23	13.90	14.36	14.35	14.59	13.84	13.20	14.02	14.59
WCMW-04I2	29.85 - 34.85	13.21	14.83	14.64	14.32	13.99	14.45	14.43	14.70	13.94	13.29	14.12	14.67
WCMW-05S	1.4 - 11.4	13.18	14.85	14.70	14.31	13.99	14.48	14.43	14.67	13.92	13.25	14.14	14.64
WCMW-05I	19.61 - 24.61	13.16	14.81	14.65	14.29	13.97	14.42	14.40	14.66	13.92	13.27	14.07	14.62
WCMW-05I2	29.46 - 34.46	13.17	14.84	14.68	14.33	13.98	14.46	14.44	14.70	13.95	13.31	14.08	14.66
WCMW-06S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.03	13.83	14.38
WCMW-06I	19.55 - 24.55	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.02	13.82	14.36
WCMW-06I2	29.83 - 34.83	12.98	14.62	NC	14.12	NC	NC	14.25	14.45	13.69	13.07	13.83	14.39
WCMW-07S	2.76 - 12.76	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-07I	18.9 - 23.9	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-07I2	28.95 - 33.95	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-08S	4.2 - 9.2	13.73	15.43	15.26	14.92	14.58	14.99	15.01	15.29	14.52	13.82	14.64	15.26
WCMW-08I	19.2 - 24.2	NC	NC	NC	NC	14.60	15.03	15.03	15.28	14.51	13.85	14.66	15.27
WCMW-08I2	26.9 - 31.9	13.77	15.44	15.27	14.92	14.59	15.02	15.02	15.28	14.52	13.82	14.74	15.25
WCMW-09S	5.0 - 15.0	NC	NC	15.05	14.71	14.39	14.81	14.82	15.08	14.32	13.64	14.45	15.04
WCMW-10S	15.0 - 20.0	NC	NC	NC	NC	NC	NC	14.57	17.44	NC	13.47	14.18	14.80
WCMW-10D	40.0 - 50.0	NC	NC	14.82	14.46	14.14	NC	14.57	17.36	NC	13.42	14.18	14.80
WCMW-11S	5.0 - 15.0	NC	NC	15.84	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-11I	25.0 - 35.0	NC	NC	15.84	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-11D	50.0 - 60.0	NC	NC	15.81	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-12S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.77
WCMW-12I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.76
WCMW-12D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.78
WCMW-13S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.59
WCMW-13I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.68
WCMW-13D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.71
WCMW-14S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.57
WCMW-14I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.53
WCMW-14I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.53
WCMW-14D	67.0 - 72.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.56
WCMW-18WT	2.0 - 7.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-18S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-18I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-18I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-19S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-19I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-19I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-8. OU-4 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 4

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Aug-05	Nov-05	Feb-06	May-06	Jul/Aug-06	Nov-06	Jan-07	May-07	Jul/Aug-07	Oct/Nov-07	Jan-08	May-08
WCMW-22S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-22I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-23S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-23I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-25I	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-25D	55.0 - 60.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-26S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-26I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-26I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-29S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-29I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-8. OU-4 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 4

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10	Jul-10	Oct-10	Jan-11	Apr-11
WCMW-02S	3.0 - 13.0	12.59	13.24	13.31	13.63	13.53	12.88	13.63	14.50	12.73	12.57	13.09	13.14
WCMW-02I	34.5 - 44.5	12.64	13.25	13.25	13.60	13.59	12.92	13.71	14.56	12.75	12.59	13.18	13.16
WCMW-02D	62.0 - 72.0	12.93	13.30	13.38	13.56	13.62	12.95	13.70	14.64	12.78	12.62	13.20	13.26
WCMW-04S	1.5 - 11.5	13.49	14.17	14.26	14.58	14.56	13.82	14.66	15.67	13.86	13.35	13.97	13.98
WCMW-04I	19.0 - 24.0	13.64	14.16	14.30	14.55	14.55	13.79	14.63	15.63	13.62	13.33	13.91	13.92
WCMW-04I2	29.85 - 34.85	13.45	14.26	14.39	14.62	14.63	13.95	14.66	15.60	13.70	13.37	13.87	13.89
WCMW-05S	1.4 - 11.4	13.59	14.32	14.40	14.66	14.62	13.97	14.66	15.57	13.91	13.43	14.01	14.53
WCMW-05I	19.61 - 24.61	13.57	14.23	14.36	14.61	14.65	13.89	14.62	15.60	13.68	13.42	14.01	14.42
WCMW-05I2	29.46 - 34.46	13.65	14.28	14.40	14.62	14.67	13.92	14.68	15.67	13.74	13.47	14.04	14.60
WCMW-06S	2.0 - 12.0	13.40	14.01	14.18	14.07	14.35	13.60	14.38	14.76	14.39	13.24	13.77	13.71
WCMW-06I	19.55 - 24.55	13.31	13.99	14.07	14.04	14.34	13.65	14.42	14.91	14.50	13.20	13.72	13.74
WCMW-06I2	29.83 - 34.83	13.37	14.02	14.11	14.17	14.38	13.68	14.48	14.99	14.55	13.26	13.80	13.87
WCMW-07S	2.76 - 12.76	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-07I	18.9 - 23.9	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-07I2	28.95 - 33.95	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-08S	4.2 - 9.2	14.14	14.78	14.99	15.21	15.20	14.43	15.24	16.16	14.31	13.89	14.52	14.54
WCMW-08I	19.2 - 24.2	14.13	14.80	15.01	15.24	15.21	14.47	15.27	16.19	14.33	13.93	14.55	14.48
WCMW-08I2	26.9 - 31.9	14.11	14.79	14.99	15.22	15.23	14.44	15.28	16.20	14.35	13.92	14.56	14.55
WCMW-09S	5.0 - 15.0	13.94	14.60	14.75	15.03	15.03	14.30	15.08	15.98	14.13	13.73	14.34	14.64
WCMW-10S	15.0 - 20.0	13.69	14.37	14.53	14.78	14.72	14.05	14.78	15.76	13.88	13.64	14.13	14.14
WCMW-10D	40.0 - 50.0	13.74	14.37	13.52	14.78	14.71	13.99	14.82	15.76	13.89	13.47	14.16	14.11
WCMW-11S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.43	9.06	14.13
WCMW-11I	25.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.64	14.07	14.74
WCMW-11D	50.0 - 60.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.31	14.06	14.44
WCMW-12S	3.0 - 13.0	12.82	13.42	13.46	13.75	13.73	13.07	13.83	13.43	12.92	12.71	13.18	13.15
WCMW-12I	25.0 - 30.0	12.82	13.43	13.46	13.70	13.73	13.05	13.79	13.77	12.93	12.71	13.25	13.23
WCMW-12D	65.0 - 70.0	12.81	13.44	13.49	13.77	13.74	13.06	13.84	13.78	12.96	12.76	13.25	13.26
WCMW-13S	3.0 - 13.0	12.71	13.30	13.37	13.56	13.66	12.95	13.62	14.10	12.81	12.64	NC	11.35
WCMW-13I	25.0 - 30.0	12.74	13.33	13.41	13.62	13.60	12.97	13.69	14.46	12.95	12.75	NC	11.72
WCMW-13D	65.0 - 70.0	12.92	13.37	13.47	13.68	13.66	13.01	13.73	14.47	12.89	12.70	NC	11.68
WCMW-14S	2.0 - 12.0	13.80	14.20	14.34	14.49	14.24	12.84	14.30	15.30	13.39	13.17	13.71	13.73
WCMW-14I	20.0 - 25.0	13.50	14.15	14.25	14.33	14.52	13.79	14.19	14.82	13.60	13.38	14.03	14.01
WCMW-14I2	30.0 - 35.0	13.18	14.16	14.28	14.41	14.52	13.83	14.55	14.83	13.61	13.41	14.03	13.64
WCMW-14D	67.0 - 72.0	12.42	14.20	14.43	14.45	14.65	13.91	14.78	15.37	13.79	13.54	13.93	14.36
WCMW-18WT	2.0 - 7.0	NC	NC	NC	NC	15.18	14.51	15.10	15.95	14.22	13.61	14.40	14.34
WCMW-18S	2.0 - 12.0	NC	NC	NC	NC	15.13	14.43	15.10	16.05	14.22	13.83	14.45	14.49
WCMW-18I	20.0 - 25.0	NC	NC	NC	NC	15.17	14.43	15.11	16.06	14.21	13.81	14.48	14.48
WCMW-18I2	30.0 - 35.0	NC	NC	NC	NC	15.17	14.42	15.04	16.03	14.19	13.80	14.44	14.44
WCMW-19S	2.0 - 12.0	NC	NC	NC	NC	NC	14.71	15.56	16.63	14.62	14.15	14.81	14.79
WCMW-19I	20.0 - 25.0	NC	NC	NC	NC	NC	14.69	15.43	16.53	14.61	14.13	14.80	14.92
WCMW-19I2	30.0 - 35.0	NC	NC	NC	NC	NC	14.65	15.48	16.54	14.59	14.13	14.78	14.84

Table 3-8. OU-4 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 4

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10	Jul-10	Oct-10	Jan-11	Apr-11
WCMW-22S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	14.86	15.90	NC	13.52	14.42	14.48
WCMW-22I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	14.78	15.76	NC	13.47	13.84	14.47
WCMW-23S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	15.62	NC	13.25	NC	NC
WCMW-23I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	15.64	NC	13.23	NC	NC
WCMW-25I	30.0 - 35.0	NC	NC	NC	NC	NC	NC	14.34	15.10	13.41	13.11	13.69	14.07
WCMW-25D	55.0 - 60.0	NC	NC	NC	NC	NC	NC	14.16	15.07	13.34	13.04	13.66	14.07
WCMW-26S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	16.27	17.37	NC	15.00	15.64	15.98
WCMW-26I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	16.83	17.91	NC	15.57	16.19	16.54
WCMW-26I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	17.13	18.16	NC	15.79	16.48	16.79
WCMW-29S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.64	14.24	14.23
WCMW-29I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.58	14.18	14.20

Table 3-8. OU-4 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 4

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Jul-11	Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Apr-15	Jun-16	Apr-17	Jun-18	Apr-19	Oct-20
WCMW-02S	3.0 - 13.0	12.87	12.71	13.32	15.34	13.04	13.44	13.30	12.33	13.41	12.91	12.94	12.94
WCMW-02I	34.5 - 44.5	12.82	12.64	13.24	15.23	13.07	12.98	13.51	12.38	13.54	13.03	12.89	12.89
WCMW-02D	62.0 - 72.0	12.86	12.85	13.40	15.15	13.28	12.79	13.27	12.22	13.32	12.83	12.70	12.70
WCMW-04S	1.5 - 11.5	13.89	14.71	14.16	19.27	14.08	14.07	14.33	13.33	14.41	13.83	NC	NC
WCMW-04I	19.0 - 24.0	13.80	14.60	13.99	19.21	14.00	13.86	14.29	13.18	14.33	13.81	NC	NC
WCMW-04I2	29.85 - 34.85	13.79	14.20	14.07	19.16	14.11	13.91	14.40	13.26	14.21	13.87	NC	NC
WCMW-05S	1.4 - 11.4	14.02	14.21	14.30	18.46	13.16	16.01	14.40	13.27	14.46	13.99	13.84	13.84
WCMW-05I	19.61 - 24.61	14.16	13.88	14.07	18.27	14.04	15.76	14.31	13.24	14.35	13.85	13.73	13.73
WCMW-05I2	29.46 - 34.46	14.43	14.01	14.07	18.39	14.04	15.63	14.34	13.26	12.44	13.89	13.78	13.78
WCMW-06S	2.0 - 12.0	NC	8.08	NC	17.13	13.59	14.27	13.87	12.80	13.90	13.44	13.30	13.30
WCMW-06I	19.55 - 24.55	13.59	8.19	NC	17.30	13.70	14.09	13.94	12.83	14.08	13.50	13.34	13.34
WCMW-06I2	29.83 - 34.83	13.59	8.36	NC	17.43	13.82	13.98	14.12	12.98	14.22	13.67	13.49	13.49
WCMW-07S	2.76 - 12.76	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-07I	18.9 - 23.9	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-07I2	28.95 - 33.95	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-08S	4.2 - 9.2	13.37	14.64	14.58	17.64	14.74	14.96	15.04	13.71	14.97	14.45	14.22	14.22
WCMW-08I	19.2 - 24.2	13.37	14.71	14.68	17.72	14.75	15.17	15.02	13.72	15.05	14.47	14.27	14.27
WCMW-08I2	26.9 - 31.9	13.44	14.67	14.73	17.76	14.77	15.16	15.00	13.71	15.02	14.43	14.11	14.11
WCMW-09S	5.0 - 15.0	NC	14.93	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-10S	15.0 - 20.0	14.07	13.81	14.14	17.44	14.23	13.88	14.44	NC	NC	13.95	13.77	13.77
WCMW-10D	40.0 - 50.0	14.04	13.89	14.15	17.36	14.07	13.63	14.44	13.30	NC	13.98	13.79	13.79
WCMW-11S	5.0 - 15.0	NC	13.96	14.09	18.87	14.16	14.56	14.42	NC	NC	NC	NC	NC
WCMW-11I	25.0 - 35.0	NC	14.29	14.11	19.18	14.34	14.73	14.42	NC	NC	NC	NC	NC
WCMW-11D	50.0 - 60.0	NC	14.22	14.10	19.02	14.01	14.47	14.41	NC	NC	NC	NC	NC
WCMW-12S	3.0 - 13.0	12.91	13.06	12.91	16.88	13.27	12.90	13.54	7.49	13.59	13.08	12.97	12.97
WCMW-12I	25.0 - 30.0	12.97	13.32	13.27	17.19	13.25	12.98	13.56	7.47	13.59	13.07	12.94	12.94
WCMW-12D	65.0 - 70.0	12.99	13.16	13.30	17.15	13.23	13.14	13.54	7.47	13.52	13.08	12.93	12.93
WCMW-13S	3.0 - 13.0	11.17	13.22	13.19	15.11	12.55	12.56	13.26	12.37	13.33	12.88	12.85	12.85
WCMW-13I	25.0 - 30.0	11.52	13.40	13.38	15.41	13.11	12.90	13.37	12.38	13.44	12.96	12.86	12.86
WCMW-13D	65.0 - 70.0	11.45	13.23	13.23	15.38	13.20	12.97	13.48	12.41	13.52	13.02	12.88	12.88
WCMW-14S	2.0 - 12.0	13.54	12.00	NC	16.97	13.66	13.16	13.95	12.86	14.05	13.50	13.32	13.32
WCMW-14I	20.0 - 25.0	13.76	11.93	NC	16.98	13.69	12.92	13.95	12.84	14.06	13.49	13.45	13.45
WCMW-14I2	30.0 - 35.0	13.74	11.93	NC	17.01	13.67	12.78	13.97	12.84	14.09	13.47	13.34	13.34
WCMW-14D	67.0 - 72.0	13.83	12.54	NC	17.04	13.89	13.75	14.36	12.97	14.42	13.75	13.36	13.36
WCMW-18WT	2.0 - 7.0	NC	14.17	14.49	17.00	14.55	14.07	14.73	13.67	14.68	14.77	NC	NC
WCMW-18S	2.0 - 12.0	NC	14.41	14.49	17.20	14.49	14.97	14.71	13.67	14.73	14.31	NC	NC
WCMW-18I	20.0 - 25.0	NC	14.51	14.50	17.22	14.46	14.87	14.74	13.67	14.72	14.33	NC	NC
WCMW-18I2	30.0 - 35.0	NC	14.47	14.49	17.22	14.46	14.41	14.72	13.64	14.81	14.33	NC	NC
WCMW-19S	2.0 - 12.0	14.59	14.77	14.80	16.68	14.77	15.23	15.01	NC	NC	NC	NC	NC
WCMW-19I	20.0 - 25.0	14.58	15.04	14.81	16.92	14.82	15.42	15.11	NC	NC	NC	NC	NC
WCMW-19I2	30.0 - 35.0	14.56	14.78	14.83	16.64	14.76	14.74	15.07	NC	NC	NC	NC	NC

Table 3-8. OU-4 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 4

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Jul-11	Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Apr-15	Jun-16	Apr-17	Jun-18	Apr-19	Oct-20
WCMW-22S	2.0 - 12.0	14.00	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-22I	25.0 - 30.0	13.95	NC	NC	NC	NC	NC	14.42	NC	NC	NC	NC	NC
WCMW-23S	3.0 - 13.0	13.72	13.34	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-23I	25.0 - 30.0	13.73	13.36	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-25I	30.0 - 35.0	13.73	13.66	13.79	18.65	9.67	14.40	14.09	12.93	14.06	13.58	NC	NC
WCMW-25D	55.0 - 60.0	13.72	13.60	13.79	18.61	9.62	14.10	14.07	12.92	14.06	13.57	NC	NC
WCMW-26S	2.0 - 12.0	15.50	15.76	15.70	20.08	15.72	16.15	15.95	NC	NC	NC	NC	NC
WCMW-26I	20.0 - 25.0	16.06	16.22	16.22	20.73	16.33	16.52	16.48	NC	NC	NC	NC	NC
WCMW-26I2	30.0 - 35.0	16.31	16.61	16.45	20.98	16.55	16.96	16.71	NC	NC	NC	NC	NC
WCMW-29S	2.0 - 12.0	13.99	14.09	14.25	18.08	14.30	14.74	14.46	NC	NC	NC	NC	NC
WCMW-29I	20.0 - 25.0	14.01	14.06	14.24	18.09	14.34	14.69	14.51	11.87	NC	NC	NC	NC

Table 3-8. OU-4 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 4

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level		
		Minimum	Average	Maximum
WCMW-02S	3.0 - 13.0	12.25	13.22	15.34
WCMW-02I	34.5 - 44.5	12.28	13.21	15.23
WCMW-02D	62.0 - 72.0	12.22	13.23	15.15
WCMW-04S	1.5 - 11.5	13.10	14.27	19.27
WCMW-04I	19.0 - 24.0	13.10	14.24	19.21
WCMW-04I2	29.85 - 34.85	13.21	14.28	19.16
WCMW-05S	1.4 - 11.4	13.16	14.33	18.46
WCMW-05I	19.61 - 24.61	13.16	14.28	18.27
WCMW-05I2	29.46 - 34.46	12.44	14.28	18.39
WCMW-06S	2.0 - 12.0	8.08	13.71	17.13
WCMW-06I	19.55 - 24.55	8.19	13.73	17.30
WCMW-06I2	29.83 - 34.83	8.36	13.89	17.43
WCMW-07S	2.76 - 12.76	0.00	0.00	0.00
WCMW-07I	18.9 - 23.9	0.00	0.00	0.00
WCMW-07I2	28.95 - 33.95	0.00	0.00	0.00
WCMW-08S	4.2 - 9.2	13.37	14.76	17.64
WCMW-08I	19.2 - 24.2	13.37	14.78	17.72
WCMW-08I2	26.9 - 31.9	13.44	14.79	17.76
WCMW-09S	5.0 - 15.0	13.64	14.64	15.98
WCMW-10S	15.0 - 20.0	13.47	14.46	17.44
WCMW-10D	40.0 - 50.0	13.30	14.37	17.36
WCMW-11S	5.0 - 15.0	9.06	14.25	18.87
WCMW-11I	25.0 - 35.0	13.64	14.94	19.18
WCMW-11D	50.0 - 60.0	13.31	14.79	19.02
WCMW-12S	3.0 - 13.0	7.49	13.15	16.88
WCMW-12I	25.0 - 30.0	7.47	13.21	17.19
WCMW-12D	65.0 - 70.0	7.47	13.22	17.15
WCMW-13S	3.0 - 13.0	11.17	13.04	15.11
WCMW-13I	25.0 - 30.0	11.52	13.19	15.41
WCMW-13D	65.0 - 70.0	11.45	13.21	15.38
WCMW-14S	2.0 - 12.0	12.00	13.85	16.97
WCMW-14I	20.0 - 25.0	11.93	13.90	16.98
WCMW-14I2	30.0 - 35.0	11.93	13.88	17.01
WCMW-14D	67.0 - 72.0	12.42	14.07	17.04
WCMW-18WT	2.0 - 7.0	13.61	14.67	17.00
WCMW-18S	2.0 - 12.0	13.67	14.75	17.20
WCMW-18I	20.0 - 25.0	13.67	14.75	17.22
WCMW-18I2	30.0 - 35.0	13.64	14.71	17.22
WCMW-19S	2.0 - 12.0	14.15	15.08	16.68
WCMW-19I	20.0 - 25.0	14.13	15.13	16.92
WCMW-19I2	30.0 - 35.0	14.13	15.03	16.64

Table 3-8. OU-4 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2016/2017 Annual GM and OM&M Report
Operable Unit No. 4

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level		
		Minimum	Average	Maximum
WCMW-22S	2.0 - 12.0	13.52	14.53	15.90
WCMW-22I	25.0 - 30.0	13.47	14.38	15.76
WCMW-23S	3.0 - 13.0	13.25	13.98	15.62
WCMW-23I	25.0 - 30.0	13.23	13.99	15.64
WCMW-25I	30.0 - 35.0	9.67	13.89	18.65
WCMW-25D	55.0 - 60.0	9.62	13.84	18.61
WCMW-26S	2.0 - 12.0	15.00	16.26	20.08
WCMW-26I	20.0 - 25.0	15.57	16.80	20.73
WCMW-26I2	30.0 - 35.0	15.79	17.08	20.98
WCMW-29S	2.0 - 12.0	13.64	14.60	18.08
WCMW-29I	20.0 - 25.0	11.87	14.34	18.09

Notes:
NC - Not Calculated
bgs - below ground surface
Well Elevations obtained from 2007 survey or later and reference NAVD 88 datum.

Table 4-1. OU-1 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																																	
		Sampling Date																																			
		1992	1999		2002			2003			2004				2005				2006				2007				2008				2009					
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jul	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep				
BBMW-05D	64.0 - 74.0	--	--	1,523	943	--	0	600	--	--	1,890	--	--	--	680	--	--	--	890	1,267	3,150	553	1,597	613	21	399	717	727	790	1,414	482	880	1,016			
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	16	0	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--	7	--	--			
BBMW-13D	62.0 - 72.0	--	--	0	0	--	--	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--			
BBMW-20S	4.0 - 14.0	--	--	--	15,140	--	6,190	11,700	--	--	10,876	--	10,120	--	--	--	--	5,655	--	--	19,133	12,900	173	4,144	2,677	--	--	--	--	--	--	--	--			
BBMW-20I	35.0 - 45.0	--	--	--	40	--	193	170	--	--	110	--	142	--	--	--	--	104	--	--	165	125	105	0	29	13	8	5	6	8	8	3	5			
BBMW-20D	62.0 - 72.0	--	--	--	3,505	--	9,639	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,540	1,800	1,359	--	--	--	--	--	--	--	--			
BBMW-22S	5.0 - 10.0	--	--	--	13,610	--	25,800	6,030	20,000	25,200	12,960	13,800	21,300	14,500	11,670	16,900	9,200	--	12,370	10,300	--	--	10,850	10,420	14,810	7,150	5,816	7,340	9,140	10,770	10,730	7,820	9,600			
BBMW-22I	30.0 - 40.0	--	--	--	36	--	25	22	--	28	13	--	--	--	16	--	--	--	16	--	--	--	0	43	37	32	31	32	38	42	43	111	199			
BBMW-22D	64.0 - 74.0	--	--	--	8,600	--	5,028	6,297	--	--	2,370	--	--	--	1,650	--	--	--	1,020	--	--	--	1,558	1,580	2,807	3,126	2,356	3,126	4,810	2,835	2,314	4,329	4,010			
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--			
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--	0	0	0	--	0	--	--	--	8	--	--			
BBMW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	0	0	0	0	0	1			
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--	0	0	0	--	0	--	--	--	0	0	--			
BBMW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	749			
BBMW-34I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,109			
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	196			
BBMW-34D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8			
BBMW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
BBMW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
BBMW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
BBMW-35D	63.0 -68.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
BBMW-36S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--			
BBMW-36I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--			
BBMW-37S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
BBMW-37I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
BBMW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	49			
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BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37			
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MW-03S	3.0 - 13.0	361	15	19	26	--	--	--	45	20	0	0	33	35	--	180	34	0	132	31	250	10	0	111	116	18	30	5	--	--	34	28	--			
MW-03D	35.0 - 45.0	0	0	0	0	--	--	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--	0	0	0	0	0	--	--	--	0	0	--			
MW-05S	4.0 - 14.0	17,180	27,000	20,430	24,320	--	34,290	46,300	--	--	21,660	--	--	--	24,395	--	--	--	14,197	17,327	18,100	24,600	48,430	15,905	12,929	18,130	15,095	8,060	14,554	2,304	9,600	2,655	7,891			
MW-05D	35.5 - 45.5	253	15	39	3	--	0	17	--	--	0	--	--	--	0	--	--	--	12	0	0	0	0	18	22	0	0	0	7	5	26	29	22			
MW-09S	4.0 - 14.0	0	--	29	--	0	0	0	--	--	0	--	--	0	--	--	--	--	0	--	--	--	0	0	0	0	0	0	0	0	0	0	0			
MW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0	2	--	4	--	--	--	0	--	--			
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OU1PZ-101	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			

Table 4-1. OU-1 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																																	
		Sampling Date																																			
		1992	1999		2002			2003			2004				2005				2006				2007				2008				2009					
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jul	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep				
OU1PZ-102	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU1PZ-103	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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OU2MW-49I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
OU2MW-49D	63.0 - 68.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
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OU2MW-51D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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OU2MW-57I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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OZMW-24I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,691	1,724
OZMW-25I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	198	248
OZMW-25I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	91	177
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-1. OU-1 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																													
		Sampling Date																													
		2010					2011				2012				2013				2014				2015				2016				2017			
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-05D	64.0 - 74.0	1,029	933	893	850	884	1,211	1,041	14	4	99	929	839	866	1,326	914	628	941	1059	1235	949	970	1271	1140	1143	1232	1999	1852	1475	2249.5	1657	814.8	734	1105
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	0	0	0	14	0	0	5	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	--	0	2	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35.0 - 45.0	10	12	10	3	1	27	114	6	10	6	10	8	0	5	2	19	0	0	91	187	2	7	3	217	2	0	0	3	0	0	1.03	1.62	3.4
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	10,010	9,920	9,280	7,350	5,860	10,540	9,110	2,834	8,720	8,669	7,586	8,096	7,511	5,962	6898	6864	7644	5508	7430	4501	5040	4069	5141	4960	4276	5907	7065	3974	4739.8	3672	2860.4	3231.3	3430.4
BBMW-22I	30.0 - 40.0	170	164	257	218	251	270	231	256	279	171	340	223	124	213	385	125	186	176	160	225	241	206	168	198	286	335	309	212	335.3	321	167.5	192	217.2
BBMW-22D	64.0 - 74.0	1,692	921	1,893	1,972	1,781	2,102	1,842	501	1,962	1,221	1,702	1,671	1,132	1,230	1271	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-26S	6.0 - 16.0	--	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-26I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5.0 - 15.0	885	634	696	843	534	587	586	413	626	554	322	244	266	100	374	218	139	165	90	116	243	101	170	174	155	365	118.3	68	97.3	221.8	36.81	38.3	39
BBMW-34I	25.0 - 30.0	3,547	2,360	2,714	3,757	3,177	2,272	1,894	1,544	1,239	2,158	1,105	1,290	1,248	1,202	1081	1233	946	672	1247	884	908	960	1060	973	949	1277	998.9	916	1063.3	966.4	735.9	615.8	730.9
BBMW-34I2	40.0 - 45.0	192	174	219	229	283	171	154	135	82	101	102	44	43	39	44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65.0 - 70.0	0	0	0	0	0	0	14	0	0	3	5	0	0	0	0	--	--	--	0	--	0	0	0	3	9	--	0	0	0	0	0	--	--
BBMW-35S	5.0 - 15.0	--	--	--	--	--	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I	25.0 - 30.0	--	--	--	--	--	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I2	45.0 - 50.0	--	--	--	--	--	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35D	63.0 -68.0	--	--	--	--	--	0	2	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36S	5.0 - 15.0	7	8	24	7	6	6	0	6	0	7	6	3	--	--	8	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--	0	--	--
BBMW-36I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37S	5.0 - 10.0	--	--	--	--	--	--	--	--	271	251	257	--	244	202	75	16	137	7	4	26	89	6	2	17	18	4	11	44	18.1	3.2	1.6	15.9	21.01
BBMW-37I	20.0 - 30.0	--	--	--	--	--	--	--	--	1,082	1,208	1,657	--	991	709	773	702	3922	103	42	413	115	0	0	64	0	0	2	227	0	0	0	10.6	0
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	--	412	341	352	--	216	267	189	249	272	96	6	32	38	6	0	3	8	2	0	0	0	0	0	--	--
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	8	0	0	--	0	0	0	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5.0 - 15.0	9	3	4	186	432	1	5	187	9	4	5	4	303	162	497	394	604	305	451	13	5	349	28	556	757	204	138.1	629	744.5	457.3	164	321.9	581.7
BBMW-38I	25.0 - 30.0	7	10	6	9	3	4	12	3	5	4	2	2	3	3	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40.0 - 45.0	8	7	6	6	4	11	6	4	11	8	7	0	0	6	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65.0 - 70.0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	--	--	--	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5.0 - 15.0	5,970	8,580	3,341	5,362	5,720	3,615	3,430	3,365	10,700	11,900	2,503	9,250	5,253	6,120	3528	10110	954	623	580	0	316	0	0	194	269	86	129	146	199.2	102.5	526	147.69	159.57
BBMW-39I	25.0 - 30.0	0	0	210	0	0	2	0	1	35	0	12	0	0	0	199	356	0	0	0	0	0	--	421	--	0	0	0	0	0	0	1.99	--	--
BBMW-39I2	45.0 - 50.0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65.0 - 70.0	0	0	0	0	0	28	0	2	1	23	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40S	5.0 - 15.0	5,987	1	10	6,390	3,589	170	119	2,797	0	0	0	68	1,012	2,016	3035	1815	816	572	0	42	2105	0	2	445	700	0	1296	0	1883.8	0	188.79	671.6	1052.6
BBMW-40I	25.0 - 30.0	12	26	12	0	1	11	2	67	7	1	23	1	0	6	2	0	0	1	4	0	0	4	0	0	0	14	0	0	0	5.1	0.23	--	--
BBMW-40I2	45.0 - 50.0	0	3	0	0	0	0	15	0	622	2,478	2,302	2,425	0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--
BBMW-40D	70.0 - 75.0	19	4	0	1	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	5	10	0	0	0	0	0	0	--	1.5	--	--
BBMW-41S	6.0 - 16.0	2,192	4,407	3,773	3,099	1,856	2,819	11,320	5,325	4,689	4,410	4,015	6,915	5,520	6,216	8730	9437	3009	4015	7622	4914	4413	9620	13425	5815	5913	3105	4310	5814	6003.1	7296.6	4808.2	4912.4	2600.5
BBMW-41I	25.0 - 30.0	0	0	0	0	0	0	56	348	0	0	202	315	0	0	0	25	0	0	0	136	0	0	0	0	0	--	124	--	0	0	9.8	0	0
BBMW-41I2	45.0 - 50.0	1	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-42S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	76	48	28	346	44	63	20	73	19	22	11	10	8	12	10	11.2	11.5	8.5	5.7	5.61
BBMW-42I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	516	778	315	515	8	9	2	0	0	5	10	0	0	0	0	0	--	1.5	--	--
BBMW-42I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	407	332	334	606	269	103	78	17	49	23	7	6	0	9	3	0	--	0	--	--
BBMW-43S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-43I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	446	40	284	184	22	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
BBMW-43I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0	0	0	0	4	--	--	--	8	--	--	--	0	--	--	--	--	--	--
IP-51	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	225	--	--	--	--	--	--	--	--	--
IP-52	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	234	--	--	--	--	--	--	--	--	--
IP-53	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,297	--	--	--	--	--	--	--	--	--
IP-54	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--	--	--	--	--
IP-55	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	490	--	--	--	--	--	--	--	--	--
IP-56	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
IP-57	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--
IP-58	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	--	30	7	20	12	4	15	1	29	16	9	23	4	5	15	24	1	2	11	5	2	9.5	14	32	28	7	14	0	4.2	1.5	1.25	7.7	--
MW-03D	35.0 - 45.0	--	0	0	0	--	0	--	--		0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05S	4.0 - 14.0	9,341	7,150	1,311	3,333	6,653	8,398	5,165	4,901	7,344	5,832	6,736	3,214	5,117	4,014	4714	2078	3713	3610	3400	577	3814	2068	3510	3115	2917	3518	2420	2635	3903.3	3191.3	2092.6	1798.7	2003.9
MW-05D	35.5 - 45.5	15	7	14	25	15	17	343	457	19	14	11	10	154	8	260	13	8	10	13	19	21	16	4	18	24	31	16.6	24	42.3	24	13.7	25.06	32.15
MW-09S	4.0 - 14.0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I	30.0 - 40.0	--	0	0	4	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I2	45.0 - 50.0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65.0 - 70.0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU1PZ-101	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,242	3675	5713	2773	5507.5	4912	2961	5416	3273	4796	4966	3752.6	4497.2	2823.5	3865.48	2223.17

Table 4-1. OU-1 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																															
		Sampling Date																															
		2010					2011				2012				2013				2014				2015				2016				2017			
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
OU1PZ-102	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15	25	195	15	130.9	270	168	147	8	85	92	161.2	50.6	30.06	49.2	57.85
OU1PZ-103	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	982	367	396	178	312	42	216	214	791	472	1420	245.7	857.8	40.9	69.4	595.9
OU1PZ-104	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	14	4	4	102	36	22	12	10	16	18	11.1	12.6	4.81	6.02	5
OU1PZ-105	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	950	1250	1750	1060	380	880	1740	1070	153	400	280	137.9	111.1	38	94	23.22
OU2MW-48S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49S	3.0 - 13.0	1	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	63.0 - 68.0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50S	5.0 - 15.0	--	--	--	--	--	274	239	0	0	39	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-50I	25.0 - 30.0	--	--	--	--	--	1	0	1	0	0	0	0	0	0	4	0	24	0	2	5	0	0	0	2	0	0	0	0	0	0	0	0	0
OU2MW-50I2	45.0 - 50.0	--	--	--	--	--	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-50D	65.0 - 70.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-51S	5.0 - 15.0	--	--	--	--	--	7	6	7	9	6	2	2	4	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I	25.0 - 30.0	--	--	--	--	--	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I2	45.0 - 50.0	--	--	--	--	--	3	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51D	61.0 - 66.0	--	--	--	--	--	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57S	5.0 - 15.0	--	--	2,082	308	310	242	322	98	174	97	94	82	50	20	26	21	77	16	18	63	17	16	21	28	38	13	16	7	20.7	5.3	2	3.3	18.2
OU2MW-57I	20.0 - 30.0	--	--	4,716	71	44	32	114	0	0	28	4	4	0	0	0	0	0	0	0	2	2	0	0	0	89	0	2	2	0	0	0	2.4	0
OU2MW-57I2	35.0 - 45.0	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	0	0	0	0
OZMW-16S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-16I	20.0 - 30.0	37	0	0	0	44	8	1	18	0	1	157	4	3	0	0	0	2	0	0	0	0	2	0	1	0	0	0	0	2.2	0	0	0	0
OZMW-16I2	35.0 - 45.0	468	464	558	855	634	683	671	603	88	466	553	53	282	18	166	3	286	10	5	81	31	2	3	7	69	7	27	16	4.7	0	3.01	1.02	6.6
OZMW-16D	55.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	5.5	3.75	0	0
OZMW-17S	5.0 - 15.0	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-17I	20.0 - 30.0	9	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-17I2	35.0 - 45.0	14	35	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-17D	53.0 - 63.0	4	15	0	1	0	0	0	0	23	15	0	302	295	445	101	71	122	684	256	45	182	59.5	82	22	50	322	177	36	4.8	15.5	107.3	74.5	52.7
OZMW-18S	5.0 - 15.0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0	0
OZMW-18I	20.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	221	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
OZMW-18I2	35.0 - 45.0	63	7	5	1	6	0	0	0	4	7	1	24	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46.7	1.21	0	0
OZMW-18D	55.0 - 65.0	612	384	424	186	222	273	158	218	204	274	201	434	203	351	126	0	136	291	138	158	219	174	159	119	114	102	105	147	132.3	219	148.3	109.44	109
OZMW-19S	5.0 - 15.0	391	0	86	73	493	698	137	4	41	1,792	947	113	146	228	618	321	188	291	43	10	52	27	595	411	70	77	694	773	461	762	781.73	901.29	451.24
OZMW-19I	20.0 - 30.0	1,143	992	973	914	689	664	670	606	413	647	535	297	451	501	441	460	240	329	333	225	212	281	331	181	117	116	204	179	280.2	230.7	145.3	122.22	83.57
OZMW-19I2	35.0 - 45.0	827	1,105	1,332	1,111	924	697	608	1,188	353	528	1,016	519	368	685	574	323	506	563	563	591	366	220	464	384	616	285	578	512	396.6	439.5	413.2	234.7	188
OZMW-19D	55.0 - 65.0	76	14	0	49	17	17	20	9	68	0	0	46	22	17	0	0	20	9	4	21	23	3	0	4	16	2	9	43	12.7	5.5	7.18	0.64	26.96
OZMW-21S	5.0 - 15.0	8,270	4,406	5,400	6,960	6,730	6,730	7,540	2,903	5,420	5,330	4,283	6,110	6,384	2,122	5471	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I	20.0 - 30.0	428	542	342	446	465	418	407	459	365	453	431	399	366	326	309	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I2	35.0 - 45.0	145	134	115	177	153	175	112	190	175	102	105	380	145	82	57	96	177	135	74	195	208	213	107	123	246	192	154.5	201	245.3	197.5	74.5	51.7	86.1
OZMW-21D	55.0 - 65.0	10	6	14	12	3	5	4	10	7	0	0	0	0	0	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S/22SR	5.0 - 15.0	4,305	--	3,477	4,121	1,075	1,251	435	614	405	469	263	417	42	225	167	73	16	76	25	0	17	24	49	3	10	30	48	6	0	11.1	14.63	4.06	0.42
OZMW-22I/22IR	20.0 - 30.0	8	--	564	214	24	15	0	23	216	191	68	28	72	34	23	2	0	0	5	10	--	--	0	--	--	--	1	--	--	--	--	--	--
OZMW-22I2	35.0 - 45.0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5.0 - 15.0	3	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-23I	20.0 - 30.0	8	0	0	0	0	0	0	0	0	1	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-23I2	35.0 - 45.0	11	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-23D	55.0 - 65.0	20	33	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-24S	5.0 - 15.0	25	13	13	5	4	6	0	1	2	0	1	4	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.8	0	1.22	0.37	4.1
OZMW-24I	20.0 - 30.0	22	0	0	0	0	0	0	0	0	24	4	0	0	6	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.08
OZMW-24I2	35.0 - 45.0	140	143	191	143	129	158	131	111	674	220	176	181	137	249	194	106	82	139	172	265	233	139	276	203	151	162	100	77	62.9	110.8	127.6	74.1	152.54
OZMW-24D	55.0 - 65.0	1,595	1,387	1,164	721	876	1,525	1,394	1,215	1,034	984	946	1,023	809	946	930	583	642	743	611	809	1021	771	1133	542	895	891	893	681	710.3	874.9	498.93	619	846.6
OZMW-25S	5.0 - 15.0	2,883	3,070	2,365	2,226	1,145	1,015	2,444	774	1,180	1,468	711	2,278	765	0	1893	818	1317	663	1047	29	1679.7	375	658	651	652	823	751.9	1035	842	804.7	586.9	756.8	659.1
OZMW-25I	20.0 - 30.0	257	310	291	355	340	285	409	370	416	477	441	265	299	529	427	420	575	509	571	498	442.4	477	505	401	500	446	496	425	381.3	527	338.3	280	286.3
OZMW-25I2	35.0 - 45.0	158	141	196	306	149	100	152	239	37	41	104	90	24	26	91	232	118	26	55	275	75.3	15.3	16	102	97	11	3.4	15	37.6	2.7	43.5	86.76	7
OZMW-25D	55.0 - 65.0	0	0	0	0	0	0	17	0	0	0	0	8	0	11	0	9	1	0	0	0	0	0	0	--	--	--	--	0	--	--	--	--	--	--
OZMW-26S	5.0 - 15.0	44	18	5	24	11	5	0	0	0	0	0	9	--	--	0	--	0	--	0	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--
OZMW-26I	20.0 - 30.0	9	0	0	0	0	0	0	7	9	29	79	34	76	1	7	0	0	4	7	--	--	--	6	--	--	--	--	0	--	--	--	--	--	--
OZMW-26I2	35.0 - 45.0	393	159	48	100	200	155	26	47	89	35	5	47	27	12	0	2	57	24	3	6	42	34.4	0	0	48	11	0	2	23	10.8	0	0	1.59	
OZMW-26D	55.0 - 65.0	0	0	0	0	0	0	1	0	1	0	0	0	--	--	0	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-1. OU-1 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																	
		Sampling Date													Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-05D	64.0 - 74.0	893.9	1020.6	961	1132	1161	1058	981	842	1423	1063	1258	1075	1471	0	3,150	1,020	0	3,150
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	--	--	--	--	--	--	--	--	--	--	0	16	3	0	16
BBMW-13D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	173	19,133	8,973	173	19,133
BBMW-20I	35.0 - 45.0	0	0	44	3.35	1.3	0.98	0.44	0.81	0.71	1	0	0	1.49	0	217	32	0	217
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	1,359	9,639	3,569	1,359	9,639
BBMW-22S	5.0 - 10.0	3026.5	2396.2	2597.3	2192.6	2690.3	2385.6	2924.8	2393.6	2571.1	2095.8	1636.9	1799.3	1468.7	1,637	25,800	7,935	1,469	25,800
BBMW-22I	30.0 - 40.0	240.1	214.9	198.1	320.6	234.4	234.9	279	353.2	334.3	281.8	391.7	334.4	322.7	0	392	187	0	392
BBMW-22D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	2112.7	--	501	8,600	2,510	501	8,600
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8	1	0	8
BBMW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-34S	5.0 - 15.0	32.2	56.75	64.8	88.74	57	39.69	76.6	26.65	94.9	8.64	46.29	41.48	27.52	9	885	252	9	885
BBMW-34I	25.0 - 30.0	669.5	735.7	745.9	666.5	638.5	646.3	696.3	612.1	602.3	741	503.7	514.9	600.9	504	3,757	1,274	504	3,757
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	39	283	138	39	283
BBMW-34D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	0	14	2	0	14
BBMW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-35D	63.0 -68.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
BBMW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	24	2	0	24
BBMW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-37S	5.0 - 10.0	0.37	2.1	8.3	0	3.98	3.59	21.77	3.67	6.3	21.3	3.09	3.01	3.47	0	271	51	0	271
BBMW-37I	20.0 - 30.0	0	1.58	4.8	0	--	0	--	--	--	1.2	--	--	--	0	3,922	401	0	3,922
BBMW-37I2	35.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	0	412	108	0	412
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8	1	0	8
BBMW-38S	5.0 - 15.0	306.5	215	392.5	278.3	204.2	221.9	220.2	157.85	88.07	256.4	47.74	20.7	2.1	1	757	239	1	757
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	2	12	6	2	12
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	11	6	0	11
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	12	1	0	12
BBMW-39S	5.0 - 15.0	0	78	98.46	49.4	49.96	22.08	27.6	52.8	73.5	72.63	42.7	0	66.22	0	11,900	2,467	0	11,900
BBMW-39I	25.0 - 30.0	--	10.7	--	--	--	0	0	--	--	0	--	--	--	0	421	37	0	421
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	0	0	5
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	28	3	0	28
BBMW-40S	5.0 - 15.0	0	0.55	372.59	0	2.98	1.06	2386.9	15.4	436.4	397.65	5.3	0	0	0	6,390	989	0	6,390
BBMW-40I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	0	67	6	0	67
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,478	374	0	2,478
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	37	4	0	37
BBMW-41S	6.0 - 16.0	7011.5	4508.7	3308.4	7310	5607	4008.2	4908.4	2804.7	2174.8	3704.6	2113.4	2765.1	3506.2	1,856	13,425	5,204	1,856	13,425
BBMW-41I	25.0 - 30.0	35	0	0	0	74	0	0	0	0	0	--	--	0	0	348	32	0	348
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
BBMW-41D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-42S	5.0 - 10.0	8	5.4	5.4	4.5	7.2	6.67	4.3	4.2	3.8	2.9	2.99	4	3.7	3	346	28	3	346
BBMW-42I	15.0-25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	0	778	120	0	778
BBMW-42I2	35.0-45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	0	606	125	0	606
BBMW-43S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-43I	15.0-25.0	--	--	0	--	--	4.7	--	--	--	--	--	--	--	0	446	82	0	446
BBMW-43I2	35.0-45.0	--	--	0	--	--	0	--	--	--	--	--	--	--	0	8	1	0	8
IP-51	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	225	225	225	225	225
IP-52	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	234	234	234	234	234
IP-53	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	2,297	2,297	2,297	2,297	2,297
IP-54	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	3	3	3	3	3
IP-55	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	490	490	490	490	490
IP-56	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	1	1	1
IP-57	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
IP-58	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-03S	3.0 - 13.0	0.95	3.93	2.3	0	0	0	0	--	--	0	--	--	0	0	361	30	0	361
MW-03D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-05S	4.0 - 14.0	1962.5	1485.8	1742.3	1457.25	953.41	1248.2	1138.9	1223.84	804.1	991	767.67	615.9	766.8	577	48,430	8,725	577	48,430
MW-05D	35.5 - 45.5	87.44	16.27	16.6	19.3	17.2	16.8	17.19	23	16.8	26.7	15.6	36	24.1	0	457	37	0	457
MW-09S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	29	1	0	29
MW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	1	0	4
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU1PZ-101	4.0 - 14.0	2613.3	3684.4	930	1752.4	1020	1872.2	2575.6	1833.2	920	1680	798	760	1350	760	5,713	2,958	760	5,713

Table 4-1. OU-1 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																	
		Sampling Date												Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
OU1PZ-102	4.0 - 14.0	133.7	4.8	54.57	6.2	4.85	24.28	131.4	5.6	0	49.15	3	1.64	0	0	270	69	0	270
OU1PZ-103	4.0 - 14.0	230.7	489.84	256.7	311.81	1.3	227.4	505.61	123.95	215	1009.4	468.6	492.1	52.1	1	1,420	412	1	1,420
OU1PZ-104	4.0 - 14.0	0.93	9	2.23	0.98	0	0.49	0	0	--	13	--	--	0.48	0	102	12	0	102
OU1PZ-105	4.0 - 14.0	35.96	93.14	52	20.2	46	51	41.66	26	36	29	21.69	21.3	18.6	20	1,750	385	19	1,750
OU2MW-48S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8	1	0	8
OU2MW-48I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-48I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-48D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-49S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
OU2MW-49I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-49I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-49D	63.0 - 68.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-50S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	274	14	0	274
OU2MW-50I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	1	0	24
OU2MW-50I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0	3.29	0	2	0	0	3
OU2MW-50D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-51S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	9	4	0	9
OU2MW-51I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-51I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	3
OU2MW-51D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-57S	5.0 - 15.0	2.8	3.1	4	3	5.3	4.9	8.4	7.7	10.1	6.7	6.1	0	0.39	0	2,082	102	0	2,082
OU2MW-57I	20.0 - 30.0	0	0.38	1.3	0	2.3	4.9	0.76	0	0	0	0	0	10	0	4,716	119	0	4,716
OU2MW-57I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
OZMW-16S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0.58	0	4,685	90	0	4,685
OZMW-16I	20.0 - 30.0	0	0	0	2.33	0	0	0	0	0	0	0	0	0.63	0	775	58	0	775
OZMW-16I2	35.0 - 45.0	2.6	4.5	2.7	0	0	0	0	0	0.66	1.1	1.1	0	0.47	0	855	153	0	855
OZMW-16D	55.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6
OZMW-17S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,664	45	0	1,664
OZMW-17I	20.0 - 30.0	0	0	5.04	1.1	0	0	0	0	0	0	0	0	0	0	1,316	32	0	1,316
OZMW-17I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	2	0	36
OZMW-17D	53.0 - 63.0	705	1526.63	70.1	137.3	808	97	27.1	72.7	595	28	403	900	375.4	0	1,527	172	0	1,527
OZMW-18S	5.0 - 15.0	0	0	12.9	3.5	0	0	0	0	0	0	0	0	0	0	3,160	72	0	3,160
OZMW-18I	20.0 - 30.0	0	0	3.79	0	0	0	0	0	0	0	0	0	0	0	3,600	94	0	3,600
OZMW-18I2	35.0 - 45.0	0	0	0	1.6	0	0	0	0	1.1	0	0	4	0	0	201	18	0	201
OZMW-18D	55.0 - 65.0	312.34	165.27	95.98	71.7	110	54.7	91.71	67.1	55.3	185.2	150.5	63.25	127.3	0	612	179	0	612
OZMW-19S	5.0 - 15.0	500.76	470.85	470.67	280.4	211.59	370.55	249	231.67	341.74	223	450.63	242.43	196.62	0	1,792	372	0	1,792
OZMW-19I	20.0 - 30.0	189.67	195.5	215.7	122.51	157.86	267.4	252.47	105.73	156.8	100.94	69.72	122.81	141.26	70	1,143	355	70	1,143
OZMW-19I2	35.0 - 45.0	379	313.8	190.8	226.3	320.1	72.63	408	181.07	203.8	202.1	174.64	247.08	226.1	73	1,332	498	73	1,332
OZMW-19D	55.0 - 65.0	12.66	0	0	12	0	0	0	0	0	0	--	--	--	0	76	14	0	76
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	3123	--	2,122	8,270	5,449	2,122	8,270
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	309	542	410	309	542
OZMW-21I2	35.0 - 45.0	96.5	72.69	56.98	131	84.96	69.84	116.3	165.5	109.68	62.53	131.74	107.49	37	52	380	138	37	380
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	14	5	0	14
OZMW-22S/22SR	5.0 - 15.0	3.6	22.83	3	1.6	22.83	--	5.42	1.4	3.94	6.3	1.7	--	4.4	0	11,947	1,434	0	11,947
OZMW-22I/22IR	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	607	77	0	607
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OZMW-23S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	13
OZMW-23I	20.0 - 30.0	0	0	6.4	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8
OZMW-23I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	11
OZMW-23D	55.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	2	0	33
OZMW-24S	5.0 - 15.0	0	0	13.3	0	1.06	1.86	0	1.65	0.47	0	0.45	0.42	0	0	25	2	0	25
OZMW-24I	20.0 - 30.0	0	0	464.7	3.9	0.71	0	0	0	0	0	0	0	0	0	465	12	0	465
OZMW-24I2	35.0 - 45.0	183.569	151.45	110.5	132.46	194.56	121.45	110.47	122.4	100.3	134.5	134.48	145.52	123.46	63	674	161	63	674
OZMW-24D	55.0 - 65.0	802.4	687.1	571.84	756.5	670.3	647.1	722	712	551.86	499.65	714.1	640.99	611.76	499	1,595	851	499	1,595
OZMW-25S	5.0 - 15.0	855.8	534	850.8	754.2	647.4	584.2	690.8	645.6	720.2	438.2	648.3	459.9	581.2	0	3,070	1,056	0	3,070
OZMW-25I	20.0 - 30.0	448.4	425.5	354	310.9	411.8	395.2	362	308.9	451.4	369	356.8	376.1	375.9	198	575	395	198	575
OZMW-25I2	35.0 - 45.0	4.11	6.61	44.13	15	4.22	5.8	24.73	5.2	1.5	8.7	1.74	0.87	1.69	1	306	74	1	306
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	17	2	0	17
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	44	8	0	44
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	0	--	0	79	12	0	79
OZMW-26I2	35.0 - 45.0	5.4	0	0	12.7	20.2	0	0	11.19	0	0	5.7	--	0	0	393	38	0	393
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-2. OU-1 Summary of Historical Total PAH Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																												
		Sampling Date																												
		1992	1999		2002			2003			2004				2005				2006				2007				2008			
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
BBMW-05D	64.0 - 74.0	--	--	3,249	4,181	--	2,247	1,800	--	--	3,187	--	--	--	3,109	--	--	--	2,924	352	4,492	2,386	2,371	1,233	40	930	981	1,203	1,555	1,165	786
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	147	0	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--	0
BBMW-13D	62.0 - 72.0	--	--	0	40	--	--	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--	--	0
BBMW-20S	4.0 - 14.0	--	--	--	2,248	--	3,080	15,000	--	--	3,408	--	1,758	--	--	--	--	2,483	--	--	1,365	2,179	1,819	1,343	860	--	--	--	--	--	0
BBMW-20I	35.0 - 45.0	--	--	--	7,134	--	7,900	7,400	--	--	6,939	--	6,956	--	--	--	--	8,636	--	--	7,722	5,749	7,160	2,189	2,033	452	75	48	348	165	1,150
BBMW-20D	62.0 - 72.0	--	--	--	14,594	--	7,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,289	4,688	5,460	--	--	--	--	--	0
BBMW-22S	5.0 - 10.0	--	--	--	3,954	--	3,700	2,500	3,608	--	2,400	2,042	4,460	4,780	2,640	143	4,549	--	4,131	2,214	--	--	1,634	2,931	3,629	3,189	24	25	1,961	1,972	1,664
BBMW-22I	30.0 - 40.0	--	--	--	8,810	--	8,000	3,500	--	--	7,240	--	--	--	5,865	--	--	--	7,114	--	--	--	4,696	4,283	4,879	5,212	5,536	4,290	4,686	4,680	4,949
BBMW-22D	64.0 - 74.0	--	--	--	11,436	--	8,808	5,300	--	--	145,100	--	--	--	4,418	--	--	--	6,288	--	--	--	2,725	3,310	5,374	8,516	4,257	4,894	6,442	5,681	5,140
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--	0	0	0	24	0	--	--	--	0
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--	0	0	1	--	0	--	--	--	0
BBMW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0	0	0	0	0	2	0	0
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--	0	0	0	--	0	--	--	--	0
BBMW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35D	63.0-68.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-42S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-42I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-42I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-43S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-43I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-43I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-51	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-52	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-53	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-54	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-55	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-56	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-57	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-58	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	620	17	1,425	104	--	--	--	120	20	0	28	25	0	--	0	21	0	25	11	0	0	0	0	9	0	0	0	--	--	0
MW-03D	35.0 - 45.0	0	0	0	0	--	--	--	--	--	184	--	--	--	--	--	--	--	0	--	--	--	0	0	0	2	0	--	--	--	0
MW-05S	4.0 - 14.0	5,514	2,360	2,964	2,682	--	2,100	1,600	--	--	2,783	--	--	--	2,144	--	--	--	2,220	1,647	2,493	1,652	1,647	1,294	1,630	1,431	1,699	144	1,306	7	1,052
MW-05D	35.5 - 45.5	4,292	3,959	4,944	2,501	--	4,560	2,600	--	--	3,214	--	--	--	2,842	--	--	--	2,456	435	1,984	3,122	1,113	142	55	741	2,644	390	1,988	107	232
MW-09S	4.0 - 14.0	0	--	0	--	0	74	0	--	--	0	--	--	0	--	--	--	--	0	--	--	--	0	0	0	0	0	0	0	0	0
MW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0	2	--	4	--	--	--	0
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-2. OU-1 Summary of Historical Total PAH Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																													
		Sampling Date																													
		1992	1999		2002			2003			2004				2005				2006				2007				2008				
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
OU1PZ-101	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU1PZ-102	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU1PZ-103	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU1PZ-104	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU1PZ-105	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	63.0 - 68.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50D	65.0-70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51D	61.0-66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	830	2	0	0	0	
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,447	39	22	440	153	
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	219	0	159	6	
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0	0	0	0	
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,963	1	0	0	0	
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,197	5	0	0	0	
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7	0	2	0	0	
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	27	0	0	3	2	
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	569	15	0	2	0	
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,312	625	7	600	9	
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8,178	7,353	11,417	10,065	7,728	
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,684	461	0	1,279	435	
OZMW-19S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S/22SR	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,191	2,555	1,449	1,684	1,850	
OZMW-22I/22IR	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	1	0	95	
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	49	0	
OZMW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-2. OU-1 Summary of Historical Total PAH Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																												
		Sampling Date																												
		2009			2010				2011				2012				2013				2014	2014			2015				2016		
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
BBMW-05D	64.0 - 74.0	2,767	186	1,704	2,711	1,400	2,098	1,556	2,751	2,004	0	0	78	2,052	1,409	1,412	3,244	1380	1441	2841	2382	2045	2154	1830	2834	2185	1561	2129	1895	1939	1846
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	--	--	0	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	--	--	--	0	0	0	0	0	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35.0 - 45.0	137	657	78	157	37	471	15	516	47	1	497	633	706	489	354	688	371	388	93	350	258	674	220	219	428	364	140	209	204	257
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	986	2,329	3,239	4,564	3,290	3,210	2,584	2,744	4,284	1,574	576	3,388	2,628	2,790	4,110	2,561	2775	3646	6024	3803	2180	3261	3376	4020	2711	3210	3306	1944	1404	2406
BBMW-22I	30.0 - 40.0	6,539	4,155	5,071	5,634	6,469	4,653	5,761	5,237	6,417	5,304	4,215	7,155	7,755	2,505	4,656	3,930	3731	4026	6084	4348	4319	4561	4708	7567	4596	3033	4090	5671	2704	3568
BBMW-22D	64.0 - 74.0	8,539	5,411	3,812	4,425	4,301	5,276	4,413	4,434	7,346	5,996	4,744	5,388	6,319	4,598	4,350	6,103	4352	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-26S	6.0 - 16.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-26I	30.0 - 40.0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-27I	30.0 - 40.0	0	--	--	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5.0 - 15.0	--	969	524	612	440	468	409	556	435	195	370	540	111	128	100	121	95	109	117	430	96	117	158	112	100	103	97	195	207	177
BBMW-34I	25.0 - 30.0	--	2,223	1,887	3,283	1,592	2,562	2,390	2,175	2,922	2,783	2,428	3,307	2,208	1,870	2,000	1,695	1929	1198	2606	2501	3039	1947	3005	2108	2069	2443	1360	1755	1372	1559
BBMW-34I2	40.0 - 45.0	--	2,033	2,126	2,219	1,643	1,534	2,080	2,040	2,335	2,139	2,087	1,907	1,758	2,005	1,527	1,583	1431	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65.0 - 70.0	--	478	256	237	148	120	109	239	85	54	49	335	53	51	46	70	45	--	--	--	54	--	58	64	24	32	45	--	35	0
BBMW-35S	5.0-15.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-35I	25.0-30.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	--	--	2	--	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-35I2	45.0-50.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-35D	63.0-68.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-36S	5.0 - 15.0	--	--	0	2	2	23	3	4	3	0	0	0	15	0	--	--	2	--	--	--	0	--	--	--	--	--	--	--	0	--
BBMW-36I	25.0 - 30.0	--	--	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-37S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	520	270	511	--	367	217	0	12	383	4	16	7	115	5	8	2	22	2	6	20
BBMW-37I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	2,506	1,655	2,228	--	1,363	860	110	1697	8853	846	204	247	68	6	1	5	0	0	0	15
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	1,219	1,234	1,186	--	599	1,222	111	903	877	319	15	10	39	10	0	0	12	2	0	0
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	7	0	0	--	0	0	0	--	--	--	4	--	--	--	--	--	--	--	--	--
BBMW-38S	5.0 - 15.0	--	13	14	0	25	50	69	4	6	14	5	2	0	0	49	20	46	81	234	162	142	6	2	84	4	90	157	59	35	204
BBMW-38I	25.0 - 30.0	--	131	1,075	732	660	212	691	761	275	365	468	653	510	766	435	620	381	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40.0 - 45.0	--	706	931	211	574	116	202	402	603	759	167	983	998	773	297	1,155	718	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65.0 - 70.0	--	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	--	--	--	13	--	--	--	--	--	--	--	--	--
BBMW-39S	5.0 - 15.0	--	914	488	1,627	18	761	150	0	1,344	1,220	405	2,988	62	1,283	1,906	2,674	34	2088	137	142	154	0	152	2	0	114	160	83	141	5
BBMW-39I	25.0 - 30.0	--	45	1	0	231	2	0	78	4	29	14	39	29	46	17	33	0	433	4	2	0	2	0	--	63	--	0	0	0	0
BBMW-39I2	45.0 - 50.0	--	0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-39D	65.0 - 70.0	--	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-40S	5.0 - 15.0	--	1,322	73	0	0	4,533	899	0	8	3,314	0	0	0	30	1,548	2,421	2654	2548	1808	528	0	11	1901	0	3	531	352	0	256	0
BBMW-40I	25.0 - 30.0	--	51	3	24	8	25	5	37	13	100	17	34	41	46	11	29	18	38	16	30	25	20	13	29	20	8	11	26	8	7
BBMW-40I2	45.0 - 50.0	--	0	0	0	0	0	0	0	0	0	0	0	2,264	1,950	0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--
BBMW-40D	70.0 - 75.0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-41S	6.0 - 16.0	--	3,264	623	1,532	5	764	0	421	2,372	3,693	782	1,449	1,167	1,006	617	2,213	1888	2473	1613	1925	2112	2024	1992	2325	2101	1293	1896	1919	1487	1897
BBMW-41I	25.0 - 30.0	--	0	0	0	0	0	0	0	28	47	0	0	54	68	0	0	0	16	0	0	0	63	2	0	0	0	0	--	39	--
BBMW-41I2	45.0 - 50.0	--	0	4	0	0	0	0	0	0	0	0	0	0	2	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-41D	65.0 - 70.0	--	0	4	0	0	0	0	0	0	0	0	0	0	2	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
BBMW-42S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	608	286	403	720	539	446	364	264	229	285	198	163	127	148	170
BBMW-42I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,181	1107	666	1110	80	9	5	5	1	0	4	0	0	0	0
BBMW-42I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,504	1163	2090	1625	496	104	244	315	122	97	9	4	2	107	25
BBMW-43S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--
BBMW-43I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	552	53	262	48	3	0	0	0	0	0	--	--	--	--	--
BBMW-43I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	7	--	--	--	0	--	--	--	0	--
IP-51	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22	--	--	--	--
IP-52	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	205	--	--	--	--
IP-53	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	290	--	--	--	--
IP-54	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--
IP-55	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	130	--	--	--	--
IP-56	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--
IP-57	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--
IP-58	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--
MW-03S	3.0 - 13.0	0	--	--	1	0	3	0	0	2	0	2	2	0	7	0	0	0	2	1	0	2	0	2	2	3	6	1	24	0	0
MW-03D	35.0 - 45.0	0	--	--	0	0	0	--	0	--	--		0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05S	4.0 - 14.0	1	226	1,879	2,080	309	1,279	1,149	1,076	582	1,807	17	1,680	886	1,250	1,306	1,516	1063	507	1546	1789	1115	27	1508	1393	873	905	1242	1420	613	1471
MW-05D	35.5 - 45.5	9	138	711	809	742	1,996	1,039	1,094	1,064	2,620	789	2,242	843	1,611	1,254	1,617	1137	1944	1476	1775	1513	2330	1952	2620	1206	1184	1416	1671	1134	1912
MW-09S	4.0 - 14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-09I	30.0 - 40.0	--	--	--	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I2	45.0 - 50.0	--	0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65.0 - 70.0	--	0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-2. OU-1 Summary of Historical Total PAH Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																												
		Sampling Date																												
		2009			2010				2011				2012				2013				2014	2014			2015				2016		
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
OU1PZ-101	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	365	814	1146	619	1374	707	1095	912	1286	1291	1199
OU1PZ-102	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	7	0	14	17	41	12	0	6	17
OU1PZ-103	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	779	311	153	103	205	105	107	249	590	266	897
OU1PZ-104	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	1	2	23	23	14	14	2	2	6
OU1PZ-105	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	322	369	409	239	322	408	792	430	228	455	300
OU2MW-48S	3.0 - 13.0	3	4	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
OU2MW-48I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
OU2MW-48D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
OU2MW-49S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
OU2MW-49I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
OU2MW-49D	63.0 - 68.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
OU2MW-50S	5.0-15.0	--	--	--	--	--	--	--	120	95	0	0	9	5	0	0	0	0	0	0	3	0	0	0	0	0	0	1	0	0	0
OU2MW-50I	25.0-30.0	--	--	--	--	--	--	--	0	0	9	4	1	2	0	0	0	0	2	66	3	0	30	0	0	0	0	0	0	0	0
OU2MW-50I2	45.0-50.0	--	--	--	--	--	--	--	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
OU2MW-50D	65.0-70.0	--	--	--	--	--	--	--	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-51S	5.0-15.0	--	--	--	--	--	--	--	0	0	26	19	0	13	5	9	8	4	--	--	--	4	--	--	--	--	--	--	--	--	--
OU2MW-51I	25.0-30.0	--	--	--	--	--	--	--	0	0	0	0	0	5	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
OU2MW-51I2	45.0-50.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
OU2MW-51D	61.0-66.0	--	--	--	--	--	--	--	1	0	0	2	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--
OU2MW-57S	5.0 - 15.0	--	--	--	--	375	70	268	3	235	127	0	94	87	69	31	0	64	66	72	85	47	47	42	55	41	52	39	28	29	32
OU2MW-57I	20.0 - 30.0	--	--	--	--	72	0	0	0	16	0	18	13	15	13	21	27	13	18	0	26	44	67	49	38	0	14	102	14	41	0
OU2MW-57I2	35.0 - 45.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	88
OZMW-16S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	2	0	1	6	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
OZMW-16I	20.0 - 30.0	72	1,167	31	0	0	0	0	3	0	8	5	0	18	13	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
OZMW-16I2	35.0 - 45.0	178	2,002	2,844	160	809	171	422	5,792	1,195	3,138	542	2,192	1,973	151	1,220	8	1330	1	97	26	1	56	30	2	4	5	27	8	24	8
OZMW-16D	55.0 - 65.0	0	1	1	0	0	0	0	11	2	24	68	18	3	0	1	0	0	0	0	11	1	44	8	7	0	0	514	41	7	17
OZMW-17S	5.0 - 15.0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
OZMW-17I	20.0 - 30.0	12	0	3	0	0	0	0	0	0	0	0	1	0	0	13	0	0	0	2	3	0	0	0	0	0	0	0	2	0	2
OZMW-17I2	35.0 - 45.0	62	0	7	6	0	0	0	9	0	0	9	2	0	18	0	0	0	13	0	0	5	0	0	0	0	0	0	0	0	0
OZMW-17D	53.0 - 63.0	0	4	65	391	12	5	5	8	8	10	725	345	33	1,821	1,750	1,451	937	1283	1089	2218	1458	693	1571	1020	1224	817	857	922	1178	233
OZMW-18S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-18I	20.0 - 30.0	149	68	15	1	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-18I2	35.0 - 45.0	8,917	10,984	7,375	676	88	36	30	249	0	0	12	56	222	955	61	139	17	98	2	32	0	2	0	33	0	17	0	25	5	0
OZMW-18D	55.0 - 65.0	1,166	1,586	2,031	1,515	629	890	1,328	1,642	594	2,635	1,907	2,913	1,536	3,337	1,729	5,445	1361	2898	1751	1661	957	306	480	515	864	520	514	593	489	570
OZMW-19S	5.0 - 15.0	--	--	409	44	74	241	214	1,016	242	55	244	881	517	173	558	8	659	334	641	536	182	5	262	201	526	364	188	63	623	270
OZMW-19I	20.0 - 30.0	--	--	4,299	2,849	2,632	2,982	3,529	2,814	2,048	2,065	2,708	4,325	3,620	1,188	3,790	2,635	3396	3501	3079	3114	1631	508	621	2296	1338	2382	277	279	1096	140
OZMW-19I2	35.0 - 45.0	--	--	5,346	4,551	1,409	4,346	382	4,856	1,761	7,531	272	2,016	3,258	2,854	2,303	1,552	1929	1689	5205	2470	2269	5046	3193	1229	1215	3537	1345	2233	1797	2312
OZMW-19D	55.0 - 65.0	--	--	471	485	0	245	398	557	178	661	75	36	25	294	41	55	8	28	193	326	275	658	427	123	7	137	128	251	289	406
OZMW-21S	5.0 - 15.0	--	--	4,403	2,697	3,466	5,177	5,130	5,292	6,351	2,966	6,618	6,333	4,167	2,943	4,334	1,152	3151	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I	20.0 - 30.0	--	--	4,402	6,135	5,202	5,315	6,052	4,487	6,915	5,702	2,458	4,873	7,522	3,598	3,299	3,317	3872	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I2	35.0 - 45.0	--	--	4,012	5,131	4,742	5,972	5,259	2,648	6,727	5,458	5,163	5,757	6,158	5,128	4,620	3,747	5955	4298	6515	4630	4476	5528	3935	4428	4854	4770	2564	3529	3181	2676
OZMW-21D	55.0 - 65.0	--	--	952	933	707	684	494	332	409	453	195	157	162	183	89	56	147	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S/22SR	5.0 - 15.0	971	2,406	1,108	--	1,347	1,588	6	6	110	61	1	122	8	122	0	3	11	5	1	5	5	0	1	11	7	3	4	0	6	10
OZMW-22I/22IR	20.0 - 30.0	0	3	7	--	220	4	0	1	0	20	1	89	28	16	39	11	8	0	0	0	0	6	--	--	0	--	--	--	0	0
OZMW-22I2	35.0 - 45.0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5.0 - 15.0	--	--	25	0	1	0	0	0	1	1	1	0	0	1	0	17	0	0	0	0	0	0	0	0	0	15	0	0	0	0
OZMW-23I	20.0 - 30.0	--	--	0	0	0	0	0	0	0	0	0	0	0	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-23I2	35.0 - 45.0	--	--	6	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	281	0	0
OZMW-23D	55.0 - 65.0	--	--	38	51	26	3	3	0	1	0	0	3	0	1	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0
OZMW-24S	5.0 - 15.0	--	--	6	0	160	0	0	5	47	9	8	17	12	11	7	32	2	3	4	1	0	0	0	3	1	5	4	0	0	0
OZMW-24I	20.0 - 30.0	--	--	0	0	0	0	0	0	0	0	0	208	14	0	0	47	0	0	0	2	0	0	0	0	0	0	0	0	0	0
OZMW-24I2	35.0 - 45.0	--	--	4,805	5,033	5,122	3,128	3,405	4,719	5,641	5,416	1,228	3,527	4,819	2,656	4,228	4,502	4999	2517	5521	3549	3092	4424	4263	4200	3511	5046	2694	4152	2395	1968
OZMW-24D	55.0 - 65.0	--	--	5,323	4,857	5,198	2,399	3,219	3,383	5,508	3,042	4,121	3,300	3,090	2,846	2,075	3,309	3137	2527	4297	2594	2451	2783	3245	3205	1624	3199	2809	3078	2483	3305
OZMW-25S	5.0 - 15.0	4,595	3,968	3,480	2,919	3,550	3,504	6,452	79	3,783	4,336	237	3,228	1,842	3,306	4,753	69	2432	529	5255	3058	2022	59	3223	3618	2459	1702	1419	2846	1185	934
OZMW-25I	20.0 - 30.0	3,276	849	4,046	3,756	3,252	292	6,045	1,886	3,289	3,887	1,857	3,721	4,022	4,223	3,996	3,748	3767	3507	3787	3167	2244	3842	2724	4305	3853	4073	3143	3660	1734	2212
OZMW-25I2	35.0 - 45.0	29	51	162	482	730	162	881	588	585	1,040	149	322	696	402	324	328	492	1039	640	285	229	1419	318	252	204	600	434	246	144	207
OZMW-25D	55.0 - 65.0	0	0	54	96	33	0	69	82	100	47	73	85	55	41	67	133	60	66	43	22	0	0	28	33	39	--	--	--	28	--
OZMW-26S	5.0 - 15.0	--	--	1	0	0	3	2	4	2	1	1	5	0	0	--	--	1	--	1	--	0	--	--	--	--	--	--	--	--	--
OZMW-26I	20.0 - 30.0	--	--	0	0	0	0	0	0	0	0	0	52	22	26	182	0	0	0	0	2	4	--	--	--	3	--	--	--	0	--
OZMW-26I2	35.0 - 45.0	--	--	60	23	0	0	176	61	0	41	163	54	17	96	38	27	0	2	65	53	0	15	64	60	0	0	59	45	0	7
OZMW-26D	55.0 - 65.0	--	--	0	7	0	0	0	0	5	1	4	0	2	0	--	--	0	--	0	--	0	--	--	--	--	--	--	--	--	--

Table 4-2. OU-1 Summary of Historical Total PAH Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																					
		Sampling Date																	Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2017				2018				2019				2020			2021						
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-05D	64.0 - 74.0	3137.7	3038	1227.2	1555	1776	1321	2412	1680	2131	1975	1549	1763	1639	2423	2405	4064	1353	2068.2	0	4,492	1,931	0	4,492
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	147	11	0	147
BBMW-13D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	40	2	0	40
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	15,000	2,962	0	15,000
BBMW-20I	35.0 - 45.0	260.5	184.1	287.52	13	184.6	225.2	229.1	325.3	258.5	287.8	1.3	6.69	44.2	211.3	33.7	2.5	218	1.9	1	8,636	1,320	1	8,636
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	14,594	5,722	0	14,594
BBMW-22S	5.0 - 10.0	3638.1	3379.1	1177.5	2719	2232	2259	1936	360.5	2888	1069.8	601	371.95	871	1945	56.6	1353.2	1492	837	24	6,024	2,542	24	6,024
BBMW-22I	30.0 - 40.0	5002.5	4985.6	3034	3678	2662	3036	4326	2398.3	4646	2594.3	1351	3894	2622	4235	1409.8	4048	1436	3303.4	1,351	8,810	4,638	1,351	8,810
BBMW-22D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5844	--	2,725	145,100	9,798	2,725	145,100
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	24	2	0	24
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
BBMW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-34S	5.0 - 15.0	177.7	697	105.5	92.2	122.9	187.1	65.4	113.7	104.2	117	51.96	86.7	72.3	136	55.5	77.6	101.5	29.36	52	969	227	29	969
BBMW-34I	25.0 - 30.0	2610.5	2533.4	2174	2189.2	1566.1	2464	1917.2	1977	2452	2312.4	2129.3	1470	2000.4	1835.2	580.4	2007	1499.7	599.8	580	3,307	2,129	580	3,307
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	1,431	2,335	1,903	1,431	2,335
BBMW-34D	65.0 - 70.0	8.8	33.3	56.6	--	--	--	36	--	--	--	--	--	--	--	--	--	--	--	0	478	101	0	478
BBMW-35S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-35I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
BBMW-35I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-35D	63.0-68.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-36S	5.0 - 15.0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	23	3	0	23
BBMW-36I	25.0 - 30.0	--	--	--	--	--			--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-37S	5.0 - 10.0	28.8	0	0	3	27.6	0	0	0	0	16.48	0	1.9	3.7	13.6	86.86	0	12.6	21	0	520	74	0	520
BBMW-37I	20.0 - 30.0	0	0	0	3	0	0	0	0	0	--	0	--	--	--	13.1	--	--	--	0	8,853	689	0	8,853
BBMW-37I2	35.0 - 45.0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	1,234	337	0	1,234
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	7	2	0	7
BBMW-38S	5.0 - 15.0	241.1	262.4	137.3	116.61	232.47	154.4	88.5	159.26	114.31	122.25	0	105.98	2.5	61.2	61.45	0	0	0	0	262	75	0	262
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	131	1,075	546	131	1,075
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	116	1,155	600	116	1,155
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	13	1	0	13
BBMW-39S	5.0 - 15.0	32.6	48.3	166.08	8.96	6	0	7.96	70.3	37.9	25.8	12	5.6	16	31.9	0	1.6	0	0	0	2,988	424	0	2,988
BBMW-39I	25.0 - 30.0	0	0	13.3	--	--	--	35.9	--	--	--	1.3	0	--	--	0	--	--	--	0	433	33	0	433
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	16	1	0	16
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	3
BBMW-40S	5.0 - 15.0	685.6	0	256	759	668	0	0	348	0	3.6	1.4	1882	39.9	362.6	396.3	0	0	0	0	4,533	655	0	4,533
BBMW-40I	25.0 - 30.0	12	12.2	19.9	--	--	--	10.8	--	--	--	--	--	--	--	--	--	--	--	3	100	23	3	100
BBMW-40I2	45.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,264	201	0	2,264
BBMW-40D	70.0 - 75.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-41S	6.0 - 16.0	2364.2	2210.4	1600	1384	844.3	1564	1898	1400	2000	2410	114.85	1810	1478	655.8	1665	9.38	1018	1387	0	3,693	1,550	0	3,693
BBMW-41I	25.0 - 30.0	0	0	3.9	0	0	61	0	0	0	27.5	0	0	0	0	0	--	--	--	0	68	10	0	68
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	4
BBMW-41D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	4
BBMW-42S	5.0 - 10.0	175.1	147.5	184.8	109	183.87	26.5	2.9	6.7	75.97	169.3	28.79	3.3	81.3	34	0.8	0	34.54	0.65	0	720	194	0	720
BBMW-42I	15.0-25.0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	1,181	232	0	1,181
BBMW-42I2	35.0-45.0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	2,504	495	0	2,504
BBMW-43S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-43I	15.0-25.0	--	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	--	0	552	77	0	552
BBMW-43I2	35.0-45.0	--	--	--	--	--	--	--	0	--	--	0	--	--	--	--	--	--	--	0	7	1	0	7
IP-51	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22	22	22	22	22
IP-52	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	205	205	205	205	205
IP-53	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	290	290	290	290	290
IP-54	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
IP-55	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	130	130	130	130	130
IP-56	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
IP-57	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
IP-58	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-03S	3.0 - 13.0	0	0	0	0	--	0	0	0	0	0	0	0	--	--	0	--	--	0	0	1,425	39	0	1,425
MW-03D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	184	10	0	184
MW-05S	4.0 - 14.0	1564.6	1740.3	755	10.44	1089.4	1446	1097.3	1097.1	662.1	66.2	247.5	36.6	86.4	584.9	133.9	0	446.9	451.7	0	5,514	1,235	0	5,514
MW-05D	35.5 - 45.5	2047.9	2231.9	1204.5	1603.2	1014.4	1129	1660	1288.5	1206	1484.7	983.5	1047.3	1488.5	1212.3	1564.1	129.83	1127	1950.2	9	4,944	1,597	9	4,944
MW-09S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	74	2	0	74
MW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	1	0	4
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0

Table 4-2. OU-1 Summary of Historical Total PAH Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																				
		Sampling Date																	Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2017				2018				2019				2020			2021					
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
OU1PZ-101	4.0 - 14.0	1023.1	1845.2	738.1	1174.94	927.6	1003	1397.5	413.9	817.8	705.9	628.8	912.7	619.7	369.6	515.2	191	298.7	433.1	191	1,845	871	191	1,845
OU1PZ-102	4.0 - 14.0	24.5	3.6	1.1	5.6	14.2	9.6	0	3.7	0	1.3	0	11.9	0	0	6.7	0	0	0	0	41	7	0	41
OU1PZ-103	4.0 - 14.0	203.9	0	48	26.4	386.1	393.8	43.7	108.3	179.2	26.9	0	6.95	154.3	172.6	313.8	32.4	470.9	21.4	0	897	226	0	897
OU1PZ-104	4.0 - 14.0	5.1	5.3	2.9	0	2.2	1.2	4.3	0	0	0	0	0	0	--	1.8	--	--	0	0	23	4	0	23
OU1PZ-105	4.0 - 14.0	253.4	168.7	78	38.1	110.2	125.5	153.9	70.4	106.4	139.6	115.8	89.2	100.7	103.4	69.4	1.1	81.7	39.6	1	792	217	1	792
OU2MW-48S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	4
OU2MW-48I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-48I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-48D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-49S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-49I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-49I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-49D	63.0 - 68.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-50S	5.0-15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120	6	0	120
OU2MW-50I	25.0-30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	3	0	66
OU2MW-50I2	45.0-50.0	0	0	0	0	0	0	0	0	1.6	0	0	0	0	0	0	0	0	0	0	2	0	0	2
OU2MW-50D	65.0-70.0	0	0	0	0	0	0	0	0	1.2	0	0	0	0	0	0	0	0	0	0	3	0	0	3
OU2MW-51S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	26	8	0	26
OU2MW-51I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1	0	5
OU2MW-51I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-51D	61.0-66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-57S	5.0 - 15.0	41.4	35.1	24.38	8.1	38.33	24	25.7	1.8	21.4	12.43	15.5	9.46	41.32	34.2	0	24.7	9.7	0	0	375	56	0	375
OU2MW-57I	20.0 - 30.0	38.4	38.7	3.3	51.4	0.97	19	33.1	36.5	8	13.5	58.1	32.5	34.6	1.4	0	10	0	4	0	102	23	0	102
OU2MW-57I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	3	0	88
OZMW-16S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	830	16	0	830
OZMW-16I	20.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,447	66	0	1,447
OZMW-16I2	35.0 - 45.0	13.9	0	3	0	4	5	0	1.1	0	0	0	0	0	0	0	0	0	0	0	5,792	477	0	5,792
OZMW-16D	55.0 - 65.0	44.2	45.1	9.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	514	17	0	514
OZMW-17S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,963	38	0	1,963
OZMW-17I	20.0 - 30.0	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,197	101	0	5,197
OZMW-17I2	35.0 - 45.0	0	0	0	0	0	0.89	0	0	0	0	0	0	0	0	0	0	0	0	0	62	3	0	62
OZMW-17D	53.0 - 63.0	85.2	141.1	538.1	677.4	467.1	2257	3560	950	801.1	4046	626	459.9	272.8	1487	138.94	1670	3398.3	3216.8	0	4,046	841	0	4,046
OZMW-18S	5.0 - 15.0	0	0	0	0	0	0	0	2.4	0	0	0	0	0	0	0	0	0	0	0	569	11	0	569
OZMW-18I	20.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	2,312	73	0	2,312
OZMW-18I2	35.0 - 45.0	67	1340.7	16.9	0.96	0	6.34	6.4	1.5	22.2	40.4	4.8	0	1.4	1.7	0	0	23.2	0	0	11,417	1,467	0	11,417
OZMW-18D	55.0 - 65.0	650.3	1114	734.9	919.2	730	2747	838	441.1	626.1	920.1	657.2	706.2	660.8	364.8	649.7	495	391.4	898.6	0	5,445	1,190	0	5,445
OZMW-19S	5.0 - 15.0	926.1	954	357.47	696.9	110.4	38	545	132.2	47.86	146.2	52.18	2.56	252.7	448.4	56.17	249.97	14.1	6.6	3	1,016	324	3	1,016
OZMW-19I	20.0 - 30.0	1614.9	1989.6	291.95	878.5	195.67	1212.5	775.5	253.6	462.8	1068.5	237.1	221.5	1753	275.8	270.5	482.5	168.9	290.7	140	4,325	1,718	140	4,325
OZMW-19I2	35.0 - 45.0	3753.2	2929.6	962	1804.5	2031.2	1320	298.8	164	2872	575.2	18.7	99.6	2053	137.2	729.4	2278	673	2.4	19	7,531	2,236	2	7,531
OZMW-19D	55.0 - 65.0	505.1	304.1	51	25.7	245	135.2	0	4	58.1	5.99	0	0	2.5	0	0	--	--	--	0	661	189	0	661
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	306.9	--	307	6,618	4,030	307	6,618
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,458	7,522	4,877	2,458	7,522
OZMW-21I2	35.0 - 45.0	4375.3	4398	4475	3324	3862	4635	4675	4318	4876	3946	3094	3551	2693.2	3395	3916	4573	5582	4140	2,564	6,727	4,479	2,564	6,727
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	56	952	397	56	952
OZMW-22S/22SR	5.0 - 15.0	0	0	11.6	0.98	0	0	14.8	0	0	3.2	--	5.99	0	0	0	0	--	0	0	2,555	361	0	2,555
OZMW-22I/22IR	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	220	19	0	220
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	49	6	0	49
OZMW-23S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1	0	25
OZMW-23I	20.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6
OZMW-23I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	21.54	0	0	0	0	0	0	0	281	7	0	281
OZMW-23D	55.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77.5	0	0	78	5	0	78
OZMW-24S	5.0 - 15.0	5.2	25.2	0	0.73	17.67	4.29	6.38	30.08	2.1	2.2	14.3	0	52.75	27.5	0.88	15.9	21.8	0	0	160	13	0	160
OZMW-24I	20.0 - 30.0	0	0	1.1	0	1.8	0	0	262.8	0	0	0	0	0	0	0	0	0	0	0	263	12	0	263
OZMW-24I2	35.0 - 45.0	2390.7	4230.6	3994	3824	4017	4739	4738	4442	4093	3968	4664	4335	4347	3760	3718	5753	4364	6146.5	1,228	5,753	4,043	1,228	6,147
OZMW-24D	55.0 - 65.0	2200.2	3408.8	3842	3746	3228	3734	3172	3131	3103	2896	2551	3192	2729	2618	2737	2322	3014	4213.6	1,624	5,508	3,201	1,624	5,508
OZMW-25S	5.0 - 15.0	2687	3030.9	438.6	669	1144.3	169.6	2516.8	176.3	373	300.4	231.5	129.4	122.8	554.1	50.56	257.2	200.5	228.2	51	6,452	1,998	51	6,452
OZMW-25I	20.0 - 30.0	2986.8	3160.9	2311.5	1168.7	1728.2	2946	3323	2910	1897	3488	3455	856.1	2216	2376.9	1647	3806	2686	2830.71	292	6,045	3,003	292	6,045
OZMW-25I2	35.0 - 45.0	248.9	283.9	408	578.9	204.9	169.6	345.7	393.7	308.6	244.2	225.1	420.9	214.4	184.9	152.8	263.4	172.5	212.5	29	1,419	389	29	1,419
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	133	48	0	133
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1	0	5
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	182	13	0	182
OZMW-26I2	35.0 - 45.0	37.5	31.2	0	0	1.4	15.25	0	0	31.9	64.6	0	0	15.1	0	0	16.3	--	0	0	176	30	0	176
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	0	7	1	0	7

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-3. OU-1 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	BBMW-05D	BBMW-05D	BBMW-05D	BBMW-20I	DUP-04	BBMW-20I	BBMW-20I	BBMW-22S	BBMW-22S	BBMW-22S	BBMW-22I	BBMW-22I
			Start Depth	64	64	64	35	35	35	35	5	5	5	30	30
			End Depth	74	74	74	45	45	45	45	10	10	10	40	40
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	11/23/2020	2/10/2021	6/9/2021	12/2/2020	12/2/2020	1/19/2021	6/15/2021	11/23/2020	2/4/2021	5/10/2021	11/23/2020	2/10/2021
			Parent Sample Code					BBMW-20I							
			Validation Level	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4
Analyte	**Units**	**CAS no.**	**NYS AWQS**												
BTEX	µg/L														
Benzene		71-43-2	1	**18**	**17**	**21**	1 U	1 U	1 U	1 U	**21**	**16**	**16**	**36**	**30**
Toluene		108-88-3	5	**330**	**310**	**410**	1 U	1 U	1 U	1 U	**5.9**	**3.3 J**	**2.7 J**	**5.7**	**4.4**
Ethylbenzene		100-41-4	5	**120**	**78**	**120**	1 U	1 U	1 U	**0.61 J**	**1100**	**1300**	**1000**	**210**	**180**
Total Xylene		1330-20-7	5	**790**	**670**	**920**	2 U	2 U	2 U	**0.88 J**	**510**	**480**	**450**	**140**	**120**
Total BTEX (ND=0)		TBTEX_ND0	NE	**1258**	**1075**	**1471**	ND	ND	ND	**1.49**	**1636.9**	**1799.3**	**1468.7**	**391.7**	**334.4**
PAH17	µg/L														
Acenaphthene		83-32-9	20*	**240**	100 U	**3.5 J**	10 U	10 U	**3.6 J**	10 U	**110**	**110**	**78**	**230**	**86**
Acenaphthylene		208-96-8	NE	200 U	**53 J**	**69**	10 U	10 U	**37**	10 U	50 U	100 U	**2.1 J**	200 U	50 U
Anthracene		120-12-7	50*	200 U	100 U	**1.7 J**	10 U	10 U	**2.4 J**	10 U	**8.2 J**	100 U	**4.5 J**	200 U	50 U
Benzo(a)anthracene		56-55-3	0.002*	20 U	10 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	20 U	5 U
Benzo(b)fluoranthene		205-99-2	0.002*	40 U	20 U	2 U	2 U	2 U	2 U	2 U	10 U	20 U	2 U	40 U	10 U
Benzo(k)fluoranthene		207-08-9	0.002*	20 U	10 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	20 U	5 U
Benzo(g,h,i)perylene		191-24-2	NE	200 U	100 UJ	10 U	10 U	10 U	10 U	10 U	50 U	100 U	10 U	200 U	50 UJ
Benzo(a)pyrene		50-32-8	ND	20 U	10 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	20 U	5 U
Chrysene		218-01-9	0.002*	200 U	100 U	2 U	10 U	10 U	10 U	2 U	50 U	100 U	2 U	200 U	50 U
Dibenz(a,h)anthracene		53-70-3	NE	20 U	10 UJ	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	20 U	5 UJ
Fluoranthene		206-44-0	50*	200 U	100 U	**1 J**	10 U	10 U	10 U	10 U	50 U	100 U	**1.4 J**	200 U	50 U
Fluorene		86-73-7	50*	**57 J**	100 U	**11**	**2.5 J**	**2.3 J**	**10**	**1.9 J**	**41 J**	**39 J**	**28**	**59 J**	**27 J**
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	40 U	20 UJ	2 U	2 U	2 U	2 U	2 U	10 U	20 U	2 U	40 U	10 UJ
2-Methylnaphthalene		91-57-6	NE	**1400**	**100**	**170**	10 U	10 U	**53**	10 U	**300**	**330**	**280**	**1400**	**570**
Naphthalene		91-20-3	10*	**2300**	**1200**	**1800**	2 U	2 U	**100**	2 U	**860**	**980**	**420**	**2300**	**730**
Phenanthrene		85-01-8	50*	**67 J**	100 U	**12**	10 U	10 U	**12**	10 U	**34 J**	**33 J**	**23**	**59 J**	**23 J**
Pyrene		129-00-0	50*	200 U	100 U	10 U	10 U	10 U	10 U	10 U	50 U	100 U	10 U	200 U	50 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**4064**	**1353**	**2068.2**	**2.5**	**2.3**	**218**	**1.9**	**1353.2**	**1492**	**837**	**4048**	**1436**
Other															
Sulfate	µg/L	14808-79-8	250000												

Table 4-3. OU-1 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	BBMW-22I	BBMW-22D	BBMW-34S	BBMW-34S	BBMW-34S	BBMW-34I	BBMW-34I	BBMW-34I	BBMW-37S	BBMW-37S	BBMW-37S	DUP-01
			Start Depth	30	64	5	5	5	25	25	25	5	5	5	5
			End Depth	40	74	15	15	15	30	30	30	10	10	10	10
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	5/10/2021	2/10/2021	11/24/2020	2/17/2021	5/12/2021	11/24/2020	2/17/2021	5/12/2021	12/3/2020	2/11/2021	4/5/2021	4/5/2021
			Parent Sample Code												BBMW-37S
			Validation Level	Level 2	Level 4	Level 4	Level 2	Level 4	Level 4	Level 2	Level 4	Level 2	Level 4	Level 2	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**												
BTEX	µg/L														
Benzene		71-43-2	1	**28**	**2.7 J**	**44**	**35**	**27**	**31**	**22**	**28**	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	**4.7**	**460**	**0.64 J**	**0.78 J**	**0.52 J**	**2.7**	**2.9**	**2.9**	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	**180**	**150**	**0.45 J**	**3.5**	1 U	**290**	**290**	**340**	**0.89 J**	**0.51 J**	**0.77 J**	**0.85 J**
Total Xylene		1330-20-7	5	**110**	**1500**	**1.2 J**	**2.2**	2 U	**180**	**200**	**230**	**2.2**	**2.5**	**2.7**	**3.1**
Total BTEX (ND=0)		TBTEX_ND0	NE	**322.7**	**2112.7**	**46.29**	**41.48**	**27.52**	**503.7**	**514.9**	**600.9**	**3.09**	**3.01**	**3.47**	**3.95**
PAH17	µg/L														
Acenaphthene		83-32-9	20*	**160**	500 U	**43**	**48**	**21**	**120**	**75**	**120**	10 U	**1.8 J**	**5.4 J**	**5.2 J**
Acenaphthylene		208-96-8	NE	**1.8 J**	**260 J**	**1.5 J**	**1.3 J**	**0.86 J**	100 U	50 U	**2.4 J**	10 U	10 U	**1.4 J**	**1.4 J**
Anthracene		120-12-7	50*	**5.3 J**	500 U	10 U	**1.6 J**	10 U	100 U	**6.7 J**	**11**	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	50 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	100 U	2 U	2 U	2 U	20 U	10 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	50 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	500 U	10 U	10 U	10 U	100 UJ	50 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	50 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	2 U	500 U	10 U	10 U	2 U	100 U	50 U	2 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	50 U	1 UJ	1 U	1 U	10 UJ	5 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	**1.3 J**	500 U	**1.4 J**	**1.5 J**	**1.3 J**	100 U	50 U	**2.6 J**	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	**41**	**54 J**	**28**	**29**	**4.2 J**	**57 J**	**40 J**	**58**	10 U	**1.4 J**	**4.4 J**	**3.9 J**
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	100 U	2 UJ	2 U	2 U	20 UJ	10 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	**960**	**830**	10 U	10 U	10 U	**1000**	**770**	**320**	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	**2100**	**4700**	2 U	2 U	2 U	**770**	**570**	**21**	2 U	**9.4**	**9.8**	**8.1**
Phenanthrene		85-01-8	50*	**34**	500 U	**1.8 J**	**18**	10 U	**60 J**	**38 J**	**61**	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	500 U	**1.9 J**	**2.1 J**	**2 J**	100 U	50 U	**3.8 J**	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**3303.4**	**5844**	**77.6**	**101.5**	**29.36**	**2007**	**1499.7**	**599.8**	ND	**12.6**	**21**	**18.6**
Other															
Sulfate	µg/L	14808-79-8	250000												

Table 4-3. OU-1 Summary of Expanded Groundwater Analytical Results
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National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	BBMW-38S	BBMW-38S	BBMW-38S	BBMW-39S	BBMW-39S	BBMW-39S	BBMW-40S	BBMW-40S	BBMW-40S	BBMW-41S	BBMW-41S	BBMW-41S
			Start Depth	5	5	5	5	5	5	5	5	5	6	6	6
			End Depth	15	15	15	15	15	15	15	15	15	16	16	16
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	11/24/2020	2/22/2021	5/11/2021	11/24/2020	2/17/2021	5/11/2021	11/24/2020	2/22/2021	5/11/2021	11/24/2020	2/17/2021	5/10/2021
			Parent Sample Code												
			Validation Level	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**												
BTEX	µg/L														
Benzene		71-43-2	1	**12**	**4.5**	**2.1**	**30**	1 U	**29**	1 U	1 U	1 U	5 U	5 U	10 U
Toluene		108-88-3	5	**0.64 J**	1 U	1 U	1 U	1 U	**0.82 J**	1 U	1 U	1 U	**3.4 J**	**5.1**	**6.2 J**
Ethylbenzene		100-41-4	5	**29**	**13**	1 U	**10**	1 U	**7.4**	**3.8**	1 U	1 U	**1200**	**1800**	**2100**
Total Xylene		1330-20-7	5	**6.1**	**3.2**	2 U	**2.7**	2 U	**29**	**1.5 J**	2 U	2 U	**910**	**960**	**1400**
Total BTEX (ND=0)		TBTEX_ND0	NE	**47.74**	**20.7**	**2.1**	**42.7**	ND	**66.22**	**5.3**	ND	ND	**2113.4**	**2765.1**	**3506.2**
PAH17	µg/L														
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	**1.6 J**	10 U	10 U	10 U	10 U	10 U	**2 J**	50 U	**2.6 J**
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	**1.4 J**
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	10 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U
Chrysene		218-01-9	0.002*	10 U	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	50 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ	5 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2.6 J**	50 U	**2.3 J**
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	10 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1.4 J**	**68**	**78**
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**0.98 J**	**950**	**1300**
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2.4 J**	50 U	**2.7 J**
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	**1.6**	ND	ND	ND	ND	ND	**9.38**	**1018**	**1387**
Other															
Sulfate	µg/L	14808-79-8	250000												

Table 4-3. OU-1 Summary of Expanded Groundwater Analytical Results
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National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	BBMW-41I	BBMW-42S	BBMW-42S	BBMW-42S	MW-03S	MW-05S	MW-05S	MW-05S	MW-05D	MW-05D	MW-05D	OU1PZ-101
			Start Depth	25	5	5	5	3	4	4	4	35.5	35.5	35.5	4
			End Depth	30	10	10	10	13	14	14	14	45.5	45.5	45.5	14
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	5/10/2021	12/3/2020	2/11/2021	5/3/2021	6/16/2021	12/2/2020	1/13/2021	4/6/2021	12/2/2020	1/13/2021	4/6/2021	12/2/2020
			Parent Sample Code												
			Validation Level	Level 2	Level 2	Level 4	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**												
BTEX	µg/L														
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	**7.1**	**5.9**	**6.8**	1 U	1 U	1 U	2 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	**0.57 J**	2 U	2 U	1 U	1 U	1 U	2 U
Ethylbenzene		100-41-4	5	1 U	**0.99 J**	**1.4**	**1.2**	1 U	**460**	**380**	**450**	**11**	**23**	**15**	**700**
Total Xylene		1330-20-7	5	2 U	**2**	**2.6**	**2.5**	2 U	**300**	**230**	**310**	**4.6**	**13**	**9.1**	**98**
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	**2.99**	**4**	**3.7**	ND	**767.67**	**615.9**	**766.8**	**15.6**	**36**	**24.1**	**798**
PAH17	µg/L														
Acenaphthene		83-32-9	20*	10 U	10 U	**16**	10 U	10 U	10 U	**41**	**45**	**93**	**150**	**270**	**13**
Acenaphthylene		208-96-8	NE	10 U	10 U	**2 J**	10 U	10 U	10 U	**3.1 J**	**2.6 J**	**2.9 J**	**11 J**	**16**	**1.5 J**
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	**6.1 J**	**5.5 J**	**2 J**	100 U	**6.5 J**	**1.3 J**
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	**0.66 J**	1 U	1 U	1 U	1 U	1 U	**1.2**	10 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	**0.68 J**	**0.65 J**	1 U	1 U	1 U	1 U	**0.83 J**	10 U	1 U	1 U
Chrysene		218-01-9	0.002*	2 U	10 U	10 U	2 U	2 U	10 U	10 U	10 U	**1.2 J**	100 U	10 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	**1.2 J**	10 U	10 U	10 U	**2 J**	**1.9 J**	**2.9 J**	100 U	**1.9 J**	10 U
Fluorene		86-73-7	50*	10 U	10 U	**5.1 J**	10 U	10 U	10 U	**24**	**25**	**15**	**36 J**	**48**	**7.3 J**
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	**160**	**150**	**3.5 J**	**670**	**1200**	**22**
Naphthalene		91-20-3	10*	2 U	2 U	**6.2**	2 U	2 U	2 U	**170**	**190**	2 U	**230**	**370**	**140**
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	**38**	**30**	**2.6 J**	**30 J**	**36**	**5.9 J**
Pyrene		129-00-0	50*	10 U	10 U	**2.7 J**	10 U	10 U	10 U	**2.7 J**	**1.7 J**	**4.7 J**	100 U	**1.8 J**	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	**34.54**	**0.65**	ND	ND	**446.9**	**451.7**	**129.83**	**1127**	**1950.2**	**191**
Other															
Sulfate	µg/L	14808-79-8	250000												

Table 4-3. OU-1 Summary of Expanded Groundwater Analytical Results
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			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	OU1PZ-101	DUP-03	OU1PZ-101	OU1PZ-102	OU1PZ-102	OU1PZ-102	OU1PZ-103	OU1PZ-103	OU1PZ-103	OU1PZ-104	OU1PZ-105	OU1PZ-105
			Start Depth	4	4	4	4	4	4	4	4	4	4	4	4
			End Depth	14	14	14	14	14	14	14	14	14	14	14	14
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	1/18/2021	1/18/2021	4/22/2021	12/2/2020	1/18/2021	4/22/2021	12/2/2020	1/18/2021	4/22/2021	4/22/2021	12/1/2020	1/18/2021
			Parent Sample Code		OU1PZ-101										
			Validation Level	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**												
BTEX	µg/L														
Benzene		71-43-2	1	2 U	2 U	5 U	1 U	1 U	1 U	**1.3**	**2.1**	1 U	**0.48 J**	**0.59 J**	1 U
Toluene		108-88-3	5	2 U	2 U	5 U	1 U	1 U	1 U	**7.3**	**20**	**1.1**	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	**660**	**710**	**1200**	**1.5**	**0.54 J**	1 U	**350**	**330**	**40**	1 U	**6.1**	**12**
Total Xylene		1330-20-7	5	**100**	**100**	**150**	**1.5 J**	**1.1 J**	2 U	**110**	**140**	**11**	2 U	**15**	**9.3**
Total BTEX (ND=0)		TBTEX_ND0	NE	**760**	**810**	**1350**	**3**	**1.64**	ND	**468.6**	**492.1**	**52.1**	**0.48**	**21.69**	**21.3**
PAH17	µg/L														
Acenaphthene		83-32-9	20*	**9.1 J**	**9.1 J**	**13**	10 U	10 U	10 U	**17**	**17 J**	**17**	10 U	**1.1 J**	**3 J**
Acenaphthylene		208-96-8	NE	20 U	20 U	**1.8 J**	10 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	20 U	20 U	**1.3 J**	10 U	10 U	10 U	**1.8 J**	50 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	2 U	2 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	4 U	4 U	2 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	2 U	2 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	20 U	20 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	2 U	2 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	20 U	20 U	2 U	10 U	10 U	2 U	10 U	50 U	2 U	2 U	10 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	2 U	2 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	20 U	20 U	10 U	10 U	10 U	10 U	**1.1 J**	50 U	**1.9 J**	10 U	10 U	10 U
Fluorene		86-73-7	50*	**5.4 J**	**6.1 J**	**7.9 J**	10 U	10 U	10 U	**7.6 J**	**6.9 J**	**2.5 J**	10 U	10 U	**1.9 J**
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	4 U	4 U	2 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	**19 J**	**19 J**	**33**	10 U	10 U	10 U	**2.3 J**	**27 J**	10 U	10 U	10 U	**21**
Naphthalene		91-20-3	10*	**260**	**270**	**370**	2 U	2 U	2 U	2 U	**420**	2 U	2 U	2 U	**54**
Phenanthrene		85-01-8	50*	**5.2 J**	**5.1 J**	**6.1 J**	10 U	10 U	10 U	**2.6 J**	50 U	10 U	10 U	10 U	**1.8 J**
Pyrene		129-00-0	50*	20 U	20 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**298.7**	**309.3**	**433.1**	ND	ND	ND	**32.4**	**470.9**	**21.4**	ND	**1.1**	**81.7**
Other															
Sulfate	µg/L	14808-79-8	250000												

Table 4-3. OU-1 Summary of Expanded Groundwater Analytical Results
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Bay Shore, NY

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	OU1PZ-105	OU2MW-50S	OU2MW-50S	OU2MW-50S	OU2MW-50I	OU2MW-50I	OU2MW-50I	OU2MW-50I2	OU2MW-50I2	OU2MW-50I2	OU2MW-50I2	OU2MW-50D
			Start Depth	4	5	5	5	25	25	25	45	45	45	45	65
			End Depth	14	15	15	15	30	30	30	50	50	50	50	70
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	4/21/2021	12/3/2020	1/7/2021	4/21/2021	12/3/2020	1/7/2021	4/21/2021	12/3/2020	1/7/2021	4/21/2021	6/15/2021	12/3/2020
			Parent Sample Code												
			Validation Level	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**												
BTEX	µg/L														
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.96 J**	1 U
Ethylbenzene		100-41-4	5	**10**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.33 J**	1 U
Total Xylene		1330-20-7	5	**8.6**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**2**	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	**18.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3.29**	ND
PAH17	µg/L														
Acenaphthene		83-32-9	20*	**2.4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	2 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	2 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	**1.2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	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-Methylnaphthalene		91-57-6	NE	**9 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	**27**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**39.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other															
Sulfate	µg/L	14808-79-8	250000												

Table 4-3. OU-1 Summary of Expanded Groundwater Analytical Results
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National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

				Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
				Sample Name	OU2MW-50D	OU2MW-50D	OU2MW-57S	OU2MW-57S	OU2MW-57S	OU2MW-57I	OU2MW-57I	OU2MW-57I	OU2MW-57I2	OU2MW-57I2	OU2MW-57I2	OZMW-16S
				Start Depth	65	65	5	5	5	20	20	20	35	35	35	5
				End Depth	70	70	15	15	15	30	30	30	45	45	45	15
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
				Sample Date	1/7/2021	4/21/2021	11/3/2020	1/7/2021	4/21/2021	11/3/2020	1/8/2021	4/21/2021	11/30/2020	1/8/2021	4/21/2021	11/2/2020
				Parent Sample Code												
				Validation Level	Level 2	Level 4	Level 4	Level 2	Level 4	Level 4	Level 2	Level 4	Level 2	Level 2	Level 4	Level 4
Analyte	**Units**	**CAS no.**	**NYS AWQS**													
BTEX	µg/L															
Benzene		71-43-2	1	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
Toluene		108-88-3	5	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
Ethylbenzene		100-41-4	5	1 U	1 U	**2.5**	1 U	**0.39 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	2 U	**3.6**	2 U	2 U	2 U	2 U	**10**	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	**6.1**	ND	**0.39**	ND	ND	**10**	ND	ND	ND	ND	ND
PAH17	µg/L															
Acenaphthene		83-32-9	20*	10 U	10 U	**5.1 J**	**3.5 J**	10 U	**1.3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	**8.7 J**	10 U	**2.3 J**	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	**1.5 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	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
Benzo(b)fluoranthene		205-99-2	0.002*	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
Benzo(k)fluoranthene		207-08-9	0.002*	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
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	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 UJ
Chrysene		218-01-9	0.002*	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	**5.5 J**	**4 J**	10 U	10 U	10 U	**1.7 J**	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	**7.7**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	**4.9 J**	**2.2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	**24.7**	**9.7**	ND	**10**	ND	**4**	ND	ND	ND	ND	ND
Other																
Sulfate	µg/L	14808-79-8	250000													

Table 4-3. OU-1 Summary of Expanded Groundwater Analytical Results
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National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	OZMW-16S	OZMW-16S	OZMW-16I	OZMW-16I	OZMW-16I	OZMW-16I2	OZMW-16I2	OZMW-16I2	OZMW-16D	OZMW-16D	OZMW-16D	OZMW-17S
			Start Depth	5	5	20	20	20	35	35	35	55	55	55	5
			End Depth	15	15	30	30	30	45	45	45	65	65	65	15
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	1/4/2021	4/15/2021	11/2/2020	1/4/2021	4/15/2021	11/2/2020	1/4/2021	4/15/2021	11/2/2020	1/4/2021	4/15/2021	11/2/2020
			Parent Sample Code												
			Validation Level	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4
Analyte	**Units**	**CAS no.**	**NYS AWQS**												
BTEX	µg/L														
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	**0.58 J**	1 U	1 U	**0.63 J**	1 U	1 U	**0.47 J**	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	**1.1 J**	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	**0.58**	ND	ND	**0.63**	**1.1**	ND	**0.47**	ND	ND	ND	ND
PAH17	µg/L														
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ
Chrysene		218-01-9	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other															
Sulfate	µg/L	14808-79-8	250000												

Table 4-3. OU-1 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

				Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
				Sample Name	OZMW-17S	DUP-01	OZMW-17S	OZMW-17I	OZMW-17I	OZMW-17I	DUP-02	OZMW-17I2	DUP-01	OZMW-17I2	OZMW-17I2	OZMW-17D
				Start Depth	5	5	5	20	20	20	20	35	35	35	35	53
				End Depth	15	15	15	30	30	30	30	45	45	45	45	63
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
				Sample Date	1/4/2021	1/4/2021	4/20/2021	11/3/2020	1/4/2021	4/20/2021	4/20/2021	11/3/2020	11/3/2020	1/4/2021	4/20/2021	11/3/2020
				Parent Sample Code		OZMW-17S					OZMW-17I		OZMW-17I2			
				Validation Level	Level 2	Level 2	Level 4	Level 4	Level 2	Level 4	Level 4	Level 4	Level 4	Level 2	Level 4	Level 4
Analyte	**Units**	**CAS no.**	**NYS AWQS**													
BTEX	µg/L															
Benzene		71-43-2	1	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
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**20**
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**43**
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**340**
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**403**
PAH17	µg/L															
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	200 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**100 J**
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	200 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	20 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	40 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	20 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	200 UJ
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	20 U
Chrysene		218-01-9	0.002*	10 U	10 U	2 U	10 U	10 U	2 U	2 U	10 U	10 U	10 U	2 U	200 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 UJ	1 UJ	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 U	1 UJ	20 UJ
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	200 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	200 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 UJ	2 UJ	2 U	2 UJ	2 UJ	2 UJ	2 UJ	2 U	2 UJ	40 UJ
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**170 J**
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**1400**
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	200 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	200 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1670**
Other															
Sulfate	µg/L	14808-79-8	250000												**33700**

Table 4-3. OU-1 Summary of Expanded Groundwater Analytical Results
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National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	OZMW-17D	OZMW-17D	OZMW-18S	OZMW-18S	OZMW-18S	OZMW-18I	OZMW-18I	OZMW-18I	OZMW-18I2	OZMW-18I2	OZMW-18I2	OZMW-18D
			Start Depth	53	53	5	5	5	20	20	20	35	35	35	55
			End Depth	63	63	15	15	15	30	30	30	45	45	45	65
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	1/4/2021	4/20/2021	12/1/2020	1/4/2021	4/23/2021	12/1/2020	1/4/2021	4/23/2021	12/1/2020	1/4/2021	4/23/2021	12/1/2020
			Parent Sample Code												
			Validation Level	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**												
BTEX	µg/L														
Benzene		71-43-2	1	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.5**
Toluene		108-88-3	5	**81**	**7.4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**40**
Ethylbenzene		100-41-4	5	**99**	**38**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.3**	1 U	**18**
Total Xylene		1330-20-7	5	**720**	**330**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**2.7**	2 U	**91**
Total BTEX (ND=0)		TBTEX_ND0	NE	**900**	**375.4**	ND	ND	ND	ND	ND	ND	ND	**4**	ND	**150.5**
PAH17	µg/L														
Acenaphthene		83-32-9	20*	**13**	**8.2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**8.2 J**	10 U	50 U
Acenaphthylene		208-96-8	NE	**160**	**120**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**39 J**
Anthracene		120-12-7	50*	**3.3 J**	**2.6 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	10 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U
Chrysene		218-01-9	0.002*	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	50 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Fluorene		86-73-7	50*	**24**	**15**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	10 U
2-Methylnaphthalene		91-57-6	NE	**370**	**450**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**26 J**
Naphthalene		91-20-3	10*	**2800**	**2600**	2 U	2 U	2 U	2 U	2 U	**2.5**	2 U	**15**	2 U	**430**
Phenanthrene		85-01-8	50*	**28**	**21**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**3398.3**	**3216.8**	ND	ND	ND	ND	ND	**2.5**	ND	**23.2**	ND	**495**
Other															
Sulfate	µg/L	14808-79-8	250000	**27700**	**34300**										**37500**

Table 4-3. OU-1 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

				Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
				Sample Name	OZMW-18D	OZMW-18D	OZMW-19S	OZMW-19S	OZMW-19S	OZMW-19I	OZMW-19I	OZMW-19I	OZMW-19I2	OZMW-19I2	OZMW-19I2	OZMW-21S
				Start Depth	55	55	5	5	5	20	20	20	35	35	35	5
				End Depth	65	65	15	15	15	30	30	30	45	45	45	15
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
				Sample Date	1/5/2021	4/23/2021	10/29/2020	1/13/2021	5/5/2021	10/29/2020	1/13/2021	5/5/2021	10/29/2020	1/13/2021	5/5/2021	1/14/2021
				Parent Sample Code												
				Validation Level	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**													
BTEX	µg/L															
Benzene		71-43-2	1	**0.45 J**	**1.3**	1 U	1 U	**0.23 J**	**8.2**	**9.9**	**6.3**	**6.8**	**5.1**	**4**	**45**
Toluene		108-88-3	5	**11**	**25**	**0.63 J**	**0.43 J**	**0.39 J**	**0.52 J**	**0.91 J**	**0.96 J**	**0.84 J**	**0.98 J**	**2.1**	**78**
Ethylbenzene		100-41-4	5	**9.8**	**17**	**140**	**82**	**66**	**40**	**71**	**80**	**93**	**160**	**160**	**1200**
Total Xylene		1330-20-7	5	**42**	**84**	**310**	**160**	**130**	**21**	**41**	**54**	**74**	**81**	**60**	**1800**
Total BTEX (ND=0)		TBTEX_ND0	NE	**63.25**	**127.3**	**450.63**	**242.43**	**196.62**	**69.72**	**122.81**	**141.26**	**174.64**	**247.08**	**226.1**	**3123**
PAH17	µg/L															
Acenaphthene		83-32-9	20*	**5.5 J**	**8.6 J**	**42**	**11**	**6.6 J**	**110**	**62**	**140**	**130**	**69**	**2.4 J**	**24**
Acenaphthylene		208-96-8	NE	**47 J**	**66**	**2.8 J**	10 U	10 U	**3.6 J**	**1.4 J**	**2.4 J**	100 U	50 U	10 U	**18**
Anthracene		120-12-7	50*	50 U	**1.8 J**	**5.9 J**	10 U	10 U	**8.6 J**	**7 J**	**6.9 J**	100 U	50 U	10 U	**1.3 J**
Benzo(a)anthracene		56-55-3	0.002*	5 U	1 U	**0.77 J**	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	10 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	20 U	10 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	50 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	100 U	50 U	10 UJ	10 U
Benzo(a)pyrene		50-32-8	ND	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	1 U	1 U
Chrysene		218-01-9	0.002*	50 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	100 U	50 U	2 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	5 UJ	1 U	1 U	1 U	1 UJ	1 U	1 U	1 UJ	10 U	5 U	1 UJ	1 U
Fluoranthene		206-44-0	50*	50 U	10 U	**3 J**	**1.3 J**	10 U	**3.1 J**	**2.6 J**	**3.2 J**	100 U	50 U	10 U	**1.9 J**
Fluorene		86-73-7	50*	50 U	**2.2 J**	**24**	10 U	10 U	**52**	**40**	**68**	**32 J**	**13 J**	10 U	**8 J**
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	10 UJ	2 U	2 U	2 U	2 UJ	2 U	2 U	2 UJ	20 U	10 U	2 UJ	2 U
2-Methylnaphthalene		91-57-6	NE	**10 J**	**27**	**19**	10 U	10 U	**64**	10 U	10 U	**360**	**78**	10 U	**69**
Naphthalene		91-20-3	10*	**320**	**780**	**140**	2 U	2 U	**170**	2 U	2 U	**1700**	**470**	2 U	**180**
Phenanthrene		85-01-8	50*	**8.9 J**	**13**	**8.5 J**	10 U	10 U	**67**	**53**	**66**	**56 J**	**43 J**	10 U	**2.5 J**
Pyrene		129-00-0	50*	50 U	10 U	**4 J**	**1.8 J**	10 U	**4.2 J**	**2.9 J**	**4.2 J**	100 U	50 U	10 U	**2.2 J**
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**391.4**	**898.6**	**249.97**	**14.1**	**6.6**	**482.5**	**168.9**	**290.7**	**2278**	**673**	**2.4**	**306.9**
Other																
Sulfate	µg/L	14808-79-8	250000	**39800**	**35900**										

Table 4-3. OU-1 Summary of Expanded Groundwater Analytical Results
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Bay Shore, NY

				Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
				Sample Name	OZMW-21I2	OZMW-21I2	OZMW-21I2	OZMW-22SR	OZMW-22SR	OZMW-23S	OZMW-23S	OZMW-23S	OZMW-23I	OZMW-23I	OZMW-23I	OZMW-23I2
				Start Depth	35	35	35	5	5	5	5	5	20	20	20	35
				End Depth	45	45	45	15	15	15	15	15	30	30	30	45
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
				Sample Date	10/29/2020	1/14/2021	6/15/2021	12/7/2020	5/10/2021	11/23/2020	1/13/2021	5/3/2021	11/23/2020	1/13/2021	5/3/2021	11/23/2020
				Parent Sample Code												
				Validation Level	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**													
BTEX	µg/L															
Benzene		71-43-2	1	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
Toluene		108-88-3	5	**0.74 J**	**0.49 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	**74**	**61**	**22**	1 U	**2.5**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	**57**	**46**	**15**	**1.7 J**	**1.9 J**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	**131.74**	**107.49**	**37**	**1.7**	**4.4**	ND	ND	ND	ND	ND	ND	ND	ND
PAH17	µg/L															
Acenaphthene		83-32-9	20*	**200**	**200 J**	**180 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	**31 J**	**29 J**	**24 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	200 U	250 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	20 U	25 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	40 U	50 U	40 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	20 U	25 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	200 U	250 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	20 U	25 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	200 U	250 U	40 U	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	
Dibenz(a,h)anthracene		53-70-3	NE	20 U	25 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	200 U	250 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	**72 J**	**80 J**	**56 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	40 U	50 U	40 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	**1400**	**1600**	**1000**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	**2800**	**3600**	**2800**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	**70 J**	**73 J**	**80 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	200 U	250 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**4573**	**5582**	**4140**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other																
Sulfate	µg/L	14808-79-8	250000													

Table 4-3. OU-1 Summary of Expanded Groundwater Analytical Results
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				Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
				Sample Name	OZMW-23I2	OZMW-23I2	DUP-03	OZMW-23D	OZMW-23D	OZMW-23D	OZMW-24S	OZMW-24S	OZMW-24S	DUP-04	OZMW-24I	OZMW-24I
				Start Depth	35	35	35	55	55	55	5	5	5	5	20	20
				End Depth	45	45	45	65	65	65	15	15	15	15	30	30
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
				Sample Date	1/13/2021	5/3/2021	5/3/2021	11/23/2020	1/13/2021	5/3/2021	12/9/2020	1/11/2021	5/4/2021	5/4/2021	12/9/2020	1/11/2021
				Parent Sample Code			OZMW-23I2							OZMW-24S		
				Validation Level	Level 2	Level 4	Level 4	Level 2	Level 2	Level 4	Level 2	Level 4	Level 2	Level 2	Level 2	Level 4
Analyte	**Units**	**CAS no.**	**NYS AWQS**													
BTEX	µg/L															
Benzene		71-43-2	1	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
Toluene		108-88-3	5	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
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	**0.45 J**	**0.42 J**	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	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
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	**0.45**	**0.42**	ND	ND	ND	ND	ND
PAH17	µg/L															
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	**1.5 J**	10 U	**9.5 J**	**10**	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	**6.4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	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
Benzo(b)fluoranthene		205-99-2	0.002*	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
Benzo(k)fluoranthene		207-08-9	0.002*	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
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ
Benzo(a)pyrene		50-32-8	ND	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
Chrysene		218-01-9	0.002*	10 U	2 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	2 U	10 U	10 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 UJ
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	**1.3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	**7 J**	10 U	**3.8 J**	**3.3 J**	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U	2 U	2 U	2 UJ
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	**2.1 J**	10 U	10 U	**1.5 J**	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	**1.3 J**	2 U	**2.6**	**7**	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	**53**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	**4.9 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	**77.5**	ND	**15.9**	**21.8**	ND	ND	ND	ND	ND
Other																
Sulfate	µg/L	14808-79-8	250000													

Table 4-3. OU-1 Summary of Expanded Groundwater Analytical Results
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				Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
				Sample Name	DUP-02	OZMW-24I	OZMW-24I2	OZMW-24I2	OZMW-24I2	OZMW-24D	OZMW-24D	OZMW-24D	OZMW-25S	OZMW-25S	OZMW-25S	OZMW-25I
				Start Depth	20	20	35	35	35	55	55	55	5	5	5	20
				End Depth	30	30	45	45	45	65	65	65	15	15	15	30
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
				Sample Date	1/11/2021	5/4/2021	12/8/2020	1/11/2021	5/4/2021	12/8/2020	1/11/2021	5/4/2021	11/20/2020	1/13/2021	4/23/2021	11/20/2020
				Parent Sample Code	OZMW-24I											
				Validation Level	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**													
BTEX	µg/L															
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	**1.1**	**0.99 J**	**0.76 J**	**16**	**18**	**9.2**	**25**
Toluene		108-88-3	5	1 U	1 U	**0.48 J**	**0.52 J**	**0.46 J**	**90**	**87**	**72**	**2.3**	**1.9**	**2**	**1.8**
Ethylbenzene		100-41-4	5	1 U	1 U	**14**	**15**	**13**	**63**	**63**	**59**	**380**	**280**	**330**	**200**
Total Xylene		1330-20-7	5	2 U	2 U	**120**	**130**	**110**	**560**	**490**	**480**	**250**	**160**	**240**	**130**
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	**134.48**	**145.52**	**123.46**	**714.1**	**640.99**	**611.76**	**648.3**	**459.9**	**581.2**	**356.8**
PAH17	µg/L															
Acenaphthene		83-32-9	20*	10 U	10 U	**79 J**	**58 J**	**83**	100 U	200 U	**13**	**130**	**100**	**92**	**240**
Acenaphthylene		208-96-8	NE	10 U	10 U	**190 J**	**150 J**	**140**	**130**	**170 J**	**190**	**2.2 J**	**2.9 J**	**1.4 J**	200 U
Anthracene		120-12-7	50*	10 U	10 U	250 U	500 U	10 U	100 U	200 U	**7.4 J**	**6.4 J**	**6.5 J**	**4.4 J**	200 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	25 U	50 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	20 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	50 U	100 U	2 U	20 U	40 U	2 U	2 U	2 U	2 U	40 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	25 U	50 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	20 U
Benzo(g,h,i)perylene		191-24-2	NE	10 UJ	10 U	250 U	500 UJ	10 U	100 U	200 UJ	10 U	10 U	10 U	10 U	200 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	25 U	50 U	1 U	10 U	20 U	1 U	1 U	1 U	1 U	20 U
Chrysene		218-01-9	0.002*	10 U	2 U	250 U	500 U	2 U	100 U	200 U	2 U	10 U	10 U	2 U	200 U
Dibenz(a,h)anthracene		53-70-3	NE	1 UJ	1 U	25 U	50 UJ	1 U	10 U	20 UJ	1 U	1 U	1 U	1 U	20 U
Fluoranthene		206-44-0	50*	10 U	10 U	250 U	500 U	**2.3 J**	100 U	200 U	**1.2 J**	**1.9 J**	**1.5 J**	**1.4 J**	200 U
Fluorene		86-73-7	50*	10 U	10 U	**56 J**	**46 J**	**47**	**27 J**	**35 J**	**43**	**62**	**42**	**33**	**79 J**
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 UJ	2 U	50 U	100 UJ	2 U	20 U	40 UJ	2 U	2 U	2 U	2 U	40 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	**770**	**610**	**830**	**340**	**470**	**720**	**5.4 J**	10 U	**63**	**1000**
Naphthalene		91-20-3	10*	2 U	2 U	**4600**	**3500**	**5000**	**1800**	**2300**	**3200**	2 U	2 U	**5**	**2400**
Phenanthrene		85-01-8	50*	10 U	10 U	**58 J**	500 U	**42**	**25 J**	**39 J**	**39**	**47**	**46**	**28**	**87 J**
Pyrene		129-00-0	50*	10 U	10 U	250 U	500 U	**2.2 J**	100 U	200 U	10 U	**2.3 J**	**1.6 J**	10 U	200 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	**5753**	**4364**	**6146.5**	**2322**	**3014**	**4213.6**	**257.2**	**200.5**	**228.2**	**3806**
Other																
Sulfate	µg/L	14808-79-8	250000						**148000**	**80100**	**72900**				

Table 4-3. OU-1 Summary of Expanded Groundwater Analytical Results
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Bay Shore, NY

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	DUP-02	OZMW-25I	OZMW-25I	OZMW-25I2	OZMW-25I2	OZMW-25I2	OZMW-26I	OZMW-26I2	OZMW-26I2
			Start Depth	20	20	20	35	35	35	20	35	35
			End Depth	30	30	30	45	45	45	30	45	45
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	11/20/2020	1/13/2021	4/23/2021	11/20/2020	1/13/2021	4/23/2021	1/19/2021	10/29/2020	5/5/2021
			Parent Sample Code	OZMW-25I								
			Validation Level	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4
Analyte	**Units**	**CAS no.**	**NYS AWQS**									
BTEX	µg/L											
Benzene		71-43-2	1	**25**	**24**	**24**	1 U	1 U	1 U	1 U	**3.4**	1 U
Toluene		108-88-3	5	**2**	**2.1**	**1.9**	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	**190**	**220**	**220**	**0.34 J**	1 U	**0.49 J**	1 U	1 U	1 U
Total Xylene		1330-20-7	5	**120**	**130**	**130**	**1.4 J**	**0.87 J**	**1.2 J**	2 U	**2.3**	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	**337**	**376.1**	**375.9**	**1.74**	**0.87**	**1.69**	ND	**5.7**	ND
PAH17	µg/L											
Acenaphthene		83-32-9	20*	**220**	**190 J**	**210**	**19**	**12**	**15**	10 U	**3 J**	10 U
Acenaphthylene		208-96-8	NE	200 U	200 U	**7.2 J**	**53**	**37**	**41**	10 U	**2.3 J**	10 U
Anthracene		120-12-7	50*	200 U	200 U	**11**	**13**	**9.7 J**	**8.7 J**	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	20 U	20 U	**1**	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	40 U	40 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	20 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	200 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Benzo(a)pyrene		50-32-8	ND	20 U	20 U	**0.61 J**	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	200 U	200 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	20 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ
Fluoranthene		206-44-0	50*	200 U	200 U	**4.5 J**	**5.1 J**	**3.7 J**	**3.5 J**	10 U	10 U	10 U
Fluorene		86-73-7	50*	**71 J**	**70 J**	**64**	**37**	**32**	**34**	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	40 U	40 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ
2-Methylnaphthalene		91-57-6	NE	**950**	**850**	**860**	**2.7 J**	**6.4 J**	**9.2 J**	10 U	10 U	10 U
Naphthalene		91-20-3	10*	**2100**	**1500**	**1600**	**41**	**6**	**35**	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	**78 J**	**76 J**	**67**	**86**	**62**	**62**	10 U	**11**	10 U
Pyrene		129-00-0	50*	200 U	200 U	**5.4 J**	**6.6 J**	**3.7 J**	**4.1 J**	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**3419**	**2686**	**2830.71**	**263.4**	**172.5**	**212.5**	ND	**16.3**	ND
Other												
Sulfate	µg/L	14808-79-8	250000									

Table 4-4. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Upgradient of Subsurface Barrier Wall
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)														
		Sampling Date														
		1999	2002			2003			2004				2005			
		Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec
BBMW-01S	5.0 - 15.0	270	219	--	3,440	2,000	2,500	2,661	3,510	1,988	1,576	2,520	1,930	1,085	1,080	1,090
BBMW-01I	32.0 - 42.0	3	222	--	230	710	460	350	190	170	170	93	220	230	120	120
BBMW-01D	68.5 - 78.5	214	542	--	--	--	1,294	1,193	293	265	304	94	191	585	112	32
BBMW-23S	5.0 - 15.0	--	--	32,850	43,650	22,100	34,485	20,162	20,573	21,133	20,954	6,284	6,047	29,430	3,300	1,725
BBMW-23I	33.0 - 43.0	--	--	0	--	0	0	0	0	0	0	0	--	0	0	--
BBMW-23D	49.5 - 59.5	--	--	10	17	15	53	45	0	12	136	71	234	446	210	--
BBMW-23D2	63.0 - 73.0	--	--	28	--	0	97	80	0	--	0	--	0	--	--	--
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-4. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Upgradient of Subsurface Barrier Wall
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	2006				2007				2008				2009			
		Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-01S	5.0 - 15.0	273	59	1,361	2,329	949	3,640	7,420	5,590	4,210	3,022	1,251	797	284	43	29	187
BBMW-01I	32.0 - 42.0	43	94	110	110	77	156	375	274	262	64	57	36	47	66	29	19
BBMW-01D	68.5 - 78.5	24	216	462	109	32	555	386	9	43	81	75	21	33	47	115	105
BBMW-23S	5.0 - 15.0	7,450	4,070	6,558	120	12,332	18,185	19,818	14,940	26,389	22,830	18,758	9,986	11,860	6,483	11,108	7,779
BBMW-23I	33.0 - 43.0	0	0	0	0	0	0	19	10	0	3	0	0	0	0	0	115
BBMW-23D	49.5 - 59.5	729	467	509	579	519	96	1,324	660	493	23	12	14	7	10	6	3
BBMW-23D2	63.0 - 73.0	0	--	--	--	0	0	0	0	0	3	0	0	0	0	0	0
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	90	0	0	80	164	17	0
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	5,500	5,447	27,560	28,040	3,791	1,500	3,275
OU2MW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	336
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-4. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Upgradient of Subsurface Barrier Wall
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)															
		Sampling Date															
		2010				2011				2012				2013			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-01S	5.0 - 15.0	23	38	4	11	2	2	1	0	0	0	0	--	--	0	--	--
BBMW-01I	32.0 - 42.0	76	11	0	3	1	0	0	0	0	0	0	--	--	3	--	0
BBMW-01D	68.5 - 78.5	213	83	72	58	32	11	94	20	26	2	124	0	9	7	5	6
BBMW-23S	5.0 - 15.0	9,643	11,441	6,213	4,890	4,327	4,104	654	3,771	3509	3718	2569	2,477	1,667	5,214	1,156	1,787
BBMW-23I	33.0 - 43.0	0	6	0	3	0	17	0	0	0	41	0	0	0	100	49	0
BBMW-23D	49.5 - 59.5	2	1	0	1	0	0	0	50	44	0	0	2	0	0	--	0
BBMW-23D2	63.0 - 73.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	0
OU2MW-17S	5.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-17I	13.0 - 23.0	6	245	4	0	0	2	19	3	10	0	0	1	7	3	0	3
OU2MW-17I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-17D	60.0 - 75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--
OU2MW-18I	13.0 - 23.0	3,033	799	1,592	2,468	2,559	1,739	2,190	126	6	0	2	4	0	0	--	--
OU2MW-18I2	35.0 - 45.0	418	490	575	410	200	315	568	298	96	66	21	24	19	27	3	7
OU2MW-18D	60.0 - 70.0	0	0	0	0	0	0	9	0	0	0	0	0	--	0	--	--
OU2MW-54S	5.0 - 15.0	85	59	4	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-54I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-54I2	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-54D	60.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-58S	5.0-15.0	--	--	--	--	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-58I	25.0-30.0	--	--	--	--	2	0	0	0	0	0	0	--	--	0	--	--

Table 4-4. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Upgradient of Subsurface Barrier Wall
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)															
		Sampling Date															
		2014				2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-01S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32.0 - 42.0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	--
BBMW-01D	68.5 - 78.5	4	10	125	2	6	7	117	5	5	2	36	2	8	2	6	9
BBMW-23S	5.0 - 15.0	1,418	1,866	1,317	1,730	2,205	1,854	582	573	183	1,962	922	192	42	1,385	542	68
BBMW-23I	33.0 - 43.0	0	0	0	0	--	6	--	0	--	0	0	0	0	1	0	0
BBMW-23D	49.5 - 59.5	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	--
BBMW-23D2	63.0 - 73.0	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	--
OU2MW-17S	5.0 - 10.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	0	0	0	0	2	0	--	--	--	0	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60.0 - 75.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	0	0	5	0	0	0	--	--	--	--	--	--	--	--	--	0
OU2MW-18D	60.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60.0 - 65.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58S	5.0-15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-4. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Upgradient of Subsurface Barrier Wall
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																
		Sampling Date													Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	7,420	1,335	0	7,420
BBMW-01I	32.0 - 42.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	710	95	0	710
BBMW-01D	68.5 - 78.5	6	0.54	3	1	6	1	4	--	2	1	1	3	3	0	1,294	121	0	1,294
BBMW-23S	5.0 - 15.0	21	270.51	41	110	51	3,208	945	896	463	544	574	1,705	236	21	43,650	7,591	21	43,650
BBMW-23I	33.0 - 43.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	115	6	0	115
BBMW-23D	49.5 - 59.5	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,324	151	0	1,324
BBMW-23D2	63.0 - 73.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	97	6	0	97
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	245	22	0	245
OU2MW-17I2	35.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	28,040	4,074	0	28,040
OU2MW-18I2	35.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	575	121	0	575
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	9	0	0	9
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	85	11	0	85
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-5. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Upgradient of Subsurface Barrier Wall
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)														
		Sampling Date														
		1999	2002			2003			2004				2005			
		Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec
BBMW-01S	5.0 - 15.0	2,055	3,420	--	2,823	600	1,102	1,730	2,077	1,394	869	1,565	2,067	1,333	1,034	2,425
BBMW-01I	32.0 - 42.0	66	9,720	--	10,616	5,600	6,398	8,514	7,772	7,709	4,679	9,754	9,659	7,734	10,674	8,276
BBMW-01D	68.5 - 78.5	1,605	4,566	--	--	--	4,871	4,543	1,460	1,800	1,359	429	821	2,832	50	251
BBMW-23S	5.0 - 15.0	--	--	2,397	2,681	1,400	2,319	2,383	1,288	1,733	2,220	599	921	1,830	994	890
BBMW-23I	33.0 - 43.0	--	--	0	--	178	0	61	0	0	0	0	--	13	33	--
BBMW-23D	49.5 - 59.5	--	--	741	802	910	1,203	1,562	468	400	1,081	931	1,493	1,665	2,161	--
BBMW-23D2	63.0 - 73.0	--	--	36	--	0	120	0	0	--	0	--	0	--	--	--
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-5. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Upgradient of Subsurface Barrier Wall
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2006				2007				2008				2009			
		Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-01S	5.0 - 15.0	1,043	0	956	2,158	659	4,347	3,927	3,929	1,432	1,640	1,991	142	359	119	0	126
BBMW-01I	32.0 - 42.0	3,679	6,746	7,141	10,165	5,812	7,721	8,946	8,071	10,403	6,532	8,764	5,806	3,303	10,202	5,703	5,737
BBMW-01D	68.5 - 78.5	349	863	2,250	425	195	2,090	1,248	50	55	183	274	13	68	92	141	220
BBMW-23S	5.0 - 15.0	1,410	959	759	2,521	1,741	2,519	1,785	2,703	2,569	2,169	1,838	1,340	1,673	2,456	3,162	2,697
BBMW-23I	33.0 - 43.0	146	88	65	59	199	2,207	2,559	31	16	14	23	0	12	2	0	237
BBMW-23D	49.5 - 59.5	2,459	2,391	2,994	2,353	2,591	6,619	5,835	5,620	3,118	188	95	0	0	31	1	27
BBMW-23D2	63.0 - 73.0	0	--	--	--	0	0	1	0	2	50	0	0	0	0	0	0
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	0	2	0	0	0	0	0
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	25	2	0	0	24	6	2
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	1	0	0	0	0	0
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	2,957	3,489	5,188	4,932	5,201	4,006	2,881
OU2MW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-5. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Upgradient of Subsurface Barrier Wall
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2010				2011				2012				2013			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-01S	5.0 - 15.0	46	63	44	42	36	3	50	21	2	1	0	--	--	0	--	--
BBMW-01I	32.0 - 42.0	5,463	904	431	1,714	508	0	0	0	0	0	0	--	--	623	--	0
BBMW-01D	68.5 - 78.5	273	248	135	134	103	0	423	73	88	58	418	11	30	30	33	16
BBMW-23S	5.0 - 15.0	1,571	2,292	948	976	71	427	224	389	519	437	436	429	460	525	380	725
BBMW-23I	33.0 - 43.0	2	1	0	0	0	0	2	0	0	6	0	0	0	10	12	0
BBMW-23D	49.5 - 59.5	5	14	15	12	0	0	0	0	17	9	6	7	7	5	--	4
BBMW-23D2	63.0 - 73.0	0	0	1	0	0	0	0	0	0	0	0	--	--	0	--	0
OU2MW-17S	5.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-17I	13.0 - 23.0	1	0	0	0	0	0	4	0	2	2	3	2	3	2	2	2
OU2MW-17I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-17D	60.0 - 75.0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	--	--
OU2MW-18I	13.0 - 23.0	4,150	1,283	1,745	1,446	3,965	1,337	1,164	57	141	78	23	14	7	7	--	--
OU2MW-18I2	35.0 - 45.0	490	0	30	757	0	0	521	0	46	12	4	2	0	0	0	0
OU2MW-18D	60.0 - 70.0	0	0	0	0	0	0	13	3	0	0	0	0	--	0	--	--
OU2MW-54S	5.0 - 15.0	41	10	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-54I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-54I2	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-54D	60.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-58S	5.0-15.0	--	--	--	--	0	0	0	2	0	0	0	--	--	0	--	--
OU2MW-58I	25.0-30.0	--	--	--	--	0	0	0	3	0	0	0	--	--	0	--	--

Table 4-5. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Upgradient of Subsurface Barrier Wall
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2014				2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-01S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32.0 - 42.0	0	4	0	0	0	0	0	0	0	0	0	0	--	--	--	--
BBMW-01D	68.5 - 78.5	6	11	364	9	11	13	169	5	5	3	61	0	12.6	2	15	18
BBMW-23S	5.0 - 15.0	243	187	96	281	229	166	131	204	28	243	136	14	12.7	225	140	15
BBMW-23I	33.0 - 43.0	0	0	0	0	--	0	--	0	--	0	0	0	0	3	0	1
BBMW-23D	49.5 - 59.5	--	4	--	--	--	--	--	3	--	--	--	--	--	--	--	--
BBMW-23D2	63.0 - 73.0	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	--
OU2MW-17S	5.0 - 10.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60.0 - 75.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	0
OU2MW-18D	60.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60.0 - 65.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58S	5.0-15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-5. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Upgradient of Subsurface Barrier Wall
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)													Total PAH Groundwater Concentrations (µg/L)				
		Sampling Date													Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,347	1,108	0	4,347
BBMW-01I	32.0 - 42.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	10,674	4,210	0	10,674
BBMW-01D	68.5 - 78.5	18	1.3	10	3	9	3	8	--	6	0	2	1,575	3	0	4,871	528	0	4,871
BBMW-23S	5.0 - 15.0	0	0	1	2	0	148	42	10	16	53	2	124	0	0	3,162	925	0	3,162
BBMW-23I	33.0 - 43.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	2,559	105	0	2,559
BBMW-23D	49.5 - 59.5	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6,619	1,063	0	6,619
BBMW-23D2	63.0 - 73.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	120	6	0	120
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	25	3	0	25
OU2MW-17I2	35.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	17	1	0	17
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	4
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,201	2,003	0	5,201
OU2MW-18I2	35.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	757	58	0	757
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	13	1	0	13
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	41	4	0	41
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	3

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-6. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																				
		Sampling Date																				
		1992	1999		2002			2003			2004				2005				2006			
		Sep	Sep	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec
BBMW-02S	5.0 - 15.0	--	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30.0 - 40.0	--	--	7	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02D	73.0 - 83.0	--	--	21	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-15S	5.0 - 15.0	--	--	0	--	0	0	0	--	--	0	--	--	--	0	0	--	--	0	0	0	0
BBMW-15I	23.0 - 28.0	--	--	473	--	2	0	0	--	--	0	--	--	--	0	--	--	--	--	--	0	--
BBMW-15I2	35.0 - 45.0	--	--	47	--	0		0	--	--	0	--	--	--	0	--	--	--	--	--	0	--
BBMW-15D	70.0 - 80.0	--	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16S	5.0 - 15.0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16I	35.0 - 45.0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16D	68.0 - 78.0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4.0 - 14.0	--	--	--	--	14	0	0	0	0	0	0	0	0	0	0	0	--	0	0	0	0
BBMW-24I	32.0 - 42.0	--	--	--	--	264	533	612	774	833	96	82	2,408	2,068	477	1,290	175	--	--	519	--	183
BBMW-24D	59.5 - 69.5	--	--	--	--	1,102	--	1,005	837	1,389	1,420	590	194	183	666	799	658	--	--	367	--	647
GM-03S	6.78 - 21.78	41	15	70	4	36	--	32	--	--	229	--	--	128	40	--	103	133	19	126	177	69
GM-03I	30.03 - 45.03	7	0	26	7	135	--	0	--	--	879	--	--	--	0	--	137	--	196	0	0	0
GM-03D	53.18 - 68.18	175	375	0	0	0	--	0	--	--	0	--	0	--	0	--	0	--	--	--	--	--
MW-16AS	3.0 - 13.0	--	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,210	--	617	1,456	1,641	829
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	181	--	527	196	355	201
OU2MW-08I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	112	--	172	272	590	582
OU2MW-08D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0	0
OU2MW-19I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62.0 - 67.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-6. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																				
		Sampling Date																				
		1992	1999		2002			2003			2004				2005				2006			
		Sep	Sep	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I/34IR	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I2/34I2R	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35D	57.0 - 62.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56.0 - 61.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-6. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																			
		Sampling Date																			
		2007				2008				2009				2010				2011			
		Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-02S	5.0 - 15.0	0	0	0	0	0	4	0	0	0	0	0	10	0	0	0	11	2	0	0	0
BBMW-02I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-02D	73.0 - 83.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-15S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-15I	23.0 - 28.0	0	0	0	0	0	0	0	0	146	0	0	0	0	0	0	0	0	0	0	0
BBMW-15I2	35.0 - 45.0	0	0	0	0	0	0	0	149	0	0	0	0	0	0	0	0	0	2	0	0
BBMW-15D	70.0 - 80.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-16S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-16I	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-16D	68.0 - 78.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-24S	4.0 - 14.0	0	0	0	0	0	0	117	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-24I	32.0 - 42.0	116	115	277	9	0	0	0	0	10	394	14	3	2	1	0	0	0	0	0	0
BBMW-24D	59.5 - 69.5	662	0	7	4	176	215	7	15	22	107	29	103	147	65	0	0	1	0	9	3
GM-03S	6.78 - 21.78	116	0	0	0	0	0	23	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-03I	30.03 - 45.03	0	78	190	129	245	161	257	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-03D	53.18 - 68.18	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	--	0	0	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-08S	20.0 - 25.0	378	279	305	332	1,088	858	692	1,010	1,078	898	314	366	426	231	7	0	0	0	0	0
OU2MW-08I	35.0 - 40.0	167	521	481	196	88	245	62	69	46	333	209	4	156	168	136	108	6	0	0	175
OU2MW-08I2	50.0 - 55.0	249	105	120	545	369	317	248	293	152	39	86	104	136	92	120	105	62	64	97	100
OU2MW-08D	65.0 - 70.0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-19I	13.0 - 23.0	--	--	--	--	--	1,616	4,617	2,299	82	110	121	65	21	1	0	0	0	0	0	0
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	130	133	112	103	75	61	108	0	10	22	0	0	0	0	0
OU2MW-19D	65.0 - 70.0	--	--	--	--	--	--	543	1,818	542	341	127	152	0	13	14	14	38	84	63	13
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	616	354	715	819	158	28	10	26	172	12	35	0	0	0	0
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	1	0	0	0	0	0	0	0	0	0	0	0	87	0	0
OU2MW-20D	65.0 - 70.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-21S	5.0 - 15.0	--	--	--	--	--	--	--	82	870	0	0	0	0	0	0	0	0	0	0	0
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	780	1,041	1,877	4,930	195	26	9	3	0	0	0	0	0	0	0
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	46	83	367	479	99	176	26	5	6	6	0	0	0	0	0
OU2MW-22S	5.0 - 15.0	--	--	--	--	--	--	--	0	2	0	0	0	0	0	0	0	0	0	0	0
OU2MW-22I	25.0 - 30.0	--	--	--	--	--	--	--	298	125	6	158	3	0	8	89	6	0	0	105	0
OU2MW-22I2	46.0 - 51.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-22D	67.0 - 72.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-23S	5.0 - 15.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-23I	25.0 - 30.0	--	--	--	--	--	--	--	2,029	157	117	2,393	112	294	3	1	5,108	4,804	3	0	0
OU2MW-23I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	18	215
OU2MW-23D	65.0 - 70.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-24S	5.0 - 15.0	--	--	--	--	--	--	--	0	23	0	0	0	0	0	0	0	0	0	0	0
OU2MW-24I	25.0 - 30.0	--	--	--	--	--	--	--	2,862	2,153	197	56	0	0	0	0	0	0	0	0	0
OU2MW-24I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	31	39	114	92	0
OU2MW-24D	62.0 - 67.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-25S	5.0 - 15.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-25I	25.0 - 30.0	--	--	--	--	--	--	--	125	276	138	49	732	6	0	29	260	13	0	7	62
OU2MW-25I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-25D	70.0 - 75.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	40	253	245	287	4	5	3	24	0	0	0	0	0	2	0
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	0	5	347	1,559	26	3	319	136	5	41	0	2	0	0	2
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	76	167	187	474	335	491	890	362	980	640	580	269	48	15	36
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	2	0	0	0	0
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	1	0	0	0	0
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	24	11	12	0	6	2	0	0	0
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	18	24	0	0	3	24	7	27	1
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	400	169	93	3	4	98	0	0	0	0	0	0	0	0
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	0	2	1	2	72	66	85	286	264	16	12	56	20	4
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	1,290	1,715	1,122	480	31	4	0	0	0	0	0	0	0	0
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	1,316	246	87	96	99	52	153	118	3	0	0	0	0	0
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	211	405	359	388	173	211	141	85	188	247	124	160	119	77
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	52	251	3	0	0	0	0	0	0	0	0	0	0	0
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	312	281	208	729	218	5	0	0	0	0	0	0	0	0
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	533	41	43	471	195	143	80	4	3	0	0	0	0	0

Table 4-6. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																			
		Sampling Date																			
		2007				2008				2009				2010				2011			
		Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	91	247	254	130	31	19	10	3	37	1	3	10	97	77
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	301	206	134	197	30	117	62	254	137	186	33	30	51	22
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	282	406	375	347	220	303	120	422	301	251	0	1	233	0
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	512	343	779	856	3	1	0	0	0	0	0	0	0	0
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	0	0	1	413	59	0	5	38	2	0	0	0	0	0
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	2,073	1,355	3,698	5,013	701	899	2,583	2,554	399	31	0	0	0	0
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	1,493	375	71	57	7	2	25	76	2	0	1	0	0	0
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	57	177	25	8	0	0	7	0	0	0	0	0	22	270
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-33I	25.0 - 30.0	--	--	--	--	--	--	--	--	3,159	63	5	36	8	83	2	0	0	0	0	0
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	--	--	--	77	2	0	154	1	0	0	3	0	0	0	0
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	--	--	--	2	0	0	0	0	0	0	2	0	0	0	0
OU2MW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-34I/34IR	25.0 - 30.0	--	--	--	--	--	--	--	--	2,348	2,227	1,041	1,230	1,015	760	211	123	0	0	1,403	45
OU2MW-34I2/34I2R	45.0 - 50.0	--	--	--	--	--	--	--	--	0	0	0	14	0	0	0	0	0	0	0	42
OU2MW-35S	5.0 - 15.0	--	--	--	--	--	--	--	17	9	16	0	0	0	0	0	0	0	0	0	0
OU2MW-35I	25.0 - 30.0	--	--	--	--	--	--	--	678	9	12	0	0	0	0	0	0	0	0	0	0
OU2MW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-35D	57.0 - 62.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	5	0	0	0	0
OU2MW-36S	5.0 - 15.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-36I	25.0 - 30.0	--	--	--	--	--	--	--	288	55	42	0	0	0	0	0	0	0	0	0	0
OU2MW-36I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-36D	61.0 - 66.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-37S	5.0 - 15.0	--	--	--	--	--	--	--	0	0	9	18	0	0	0	0	0	0	0	0	0
OU2MW-37I	25.0 - 30.0	--	--	--	--	--	--	--	87	373	411	2,623	3	267	11	338	0	0	0	0	0
OU2MW-37I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	4	0	0	0	0	0	0	0	0	0	0
OU2MW-37D	67.0 - 72.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-38S	5.0 - 15.0	--	--	--	--	--	--	--	0	23	0	0	0	0	0	0	0	0	0	0	0
OU2MW-38I	25.0 - 30.0	--	--	--	--	--	--	--	4,001	122	204	240	29	1	0	6	1	0	0	0	0
OU2MW-38I2	46.0 - 51.0	--	--	--	--	--	--	--	0	0	0	0	0	0	1	197	125	445	204	155	43
OU2MW-38D	56.0 - 61.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	80	18	0	0	0	0
OU2MW-39S	5.0 - 15.0	--	--	--	--	--	--	--	0	0	2	0	0	0	0	0	0	0	0	0	0
OU2MW-39I	25.0 - 30.0	--	--	--	--	--	--	--	0	0	5	0	4	18	0	0	0	0	0	0	0
OU2MW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	1	0	1	3	0	84	228	26	5	5	48	74	151
OU2MW-39D	70.0 - 75.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-40S	5.0 - 15.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	192	61	270	168	24	0	0	0	0	0	0	0	0	0
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	0	92	8	0	0	0	4	0	0	0	0	0	0	0
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	1,500	1,625	1,433	585	526	48	358	5	2	4	0	0	0	0
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	22	11	0	3	0	0	0	0	0	0	0
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	4	86	18	13	33	0	0	0	0	0	0
OU2MW-42I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	0	0	0	2	4	0	0	0	0	0	0
OU2MW-42D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	0	100	45	8	12	18	14	43	17	23	4
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	963	1	118	0	0	0	0	0	0
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	205	0	2	5	0	0	0	0	0
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	81	5	13	12	32	50	1	7	0
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	58	14	4	2	17	1	77	124	6
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0
OU2MW-44D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0
OU2MW-45S	5.0 - 15.0	--	--	--	--	--	--	--	108	60	15	27	67	1	0	0	6	1	0	0	0
OU2MW-45I	20.0 - 25.0	--	--	--	--	--	--	--	3	10	20	1	2	600	62	0	26	0	0	0	0
OU2MW-45I2	40.0 - 45.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	1
OU2MW-45D	55.0 - 60.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-46S	5.0 - 15.0	--	--	--	--	--	--	--	421	422	21	0	0	0	0	0	0	0	0	0	0
OU2MW-46I	20.0 - 25.0	--	--	--	--	--	--	--	1,898	1,991	37	0	0	0	0	0	0	0	0	0	0
OU2MW-46I2	40.0 - 45.0	--	--	--	--	--	--	--	2	375	185	0	0	0	0	5	2	0	0	0	0
OU2MW-47S	5.0 - 15.0	--	--	--	--	--	--	--	148	146	0	0	5	0	0	0	0	0	0	0	0
OU2MW-47I	20.0 - 25.0	--	--	--	--	--	--	--	1,039	2,714	40	0	0	0	0	0	0	0	0	0	0
OU2MW-47I2	40.0 - 45.0	--	--	--	--	--	--	--	297	159	7	173	3	2	57	0	0	0	0	3	5
OU2MW-47D	60.0 - 65.0	--	--	--	--	--	--	--	472	569	695	258	234	39	13	11	5	7	50	6	0
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	8	8	5	0	0	0	0
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	18	10	7	1	0	0	0
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	120	100	14	9	4	4	2
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	159	156	149	84	59	4	11
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	45	6	4	0	0	0	0
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-56D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0

Table 4-6. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																			
		Sampling Date																			
		2012				2013				2014				2015				2016			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-02S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30.0 - 40.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-02D	73.0 - 83.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-15S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-15I	23.0 - 28.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-15I2	35.0 - 45.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-15D	70.0 - 80.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-16S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-16I	35.0 - 45.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-16D	68.0 - 78.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4.0 - 14.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-24I	32.0 - 42.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-24D	59.5 - 69.5	0	0	2	0	3	1	2	--	--	5	--	--	--	2	--	--	--	--	--	--
GM-03S	6.78 - 21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-03I	30.03 - 45.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-03D	53.18 - 68.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20.0 - 25.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35.0 - 40.0	2	0	16	4	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-08I2	50.0 - 55.0	104	129	104	66	90	61	42	21	18	31	15	26	23	22	15	4	2	2	2	0
OU2MW-08D	65.0 - 70.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13.0 - 23.0	0	0	0	121	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-19I2	35.0 - 45.0	0	0	0	114	0	4	11	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-19D	65.0 - 70.0	39	34	40	125	0	398	415	137	629	318	174	146	254	482	376	296	250	141	80	14
OU2MW-20S	4.0 - 9.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13.0 - 23.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-20I2	35.0 - 45.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65.0 - 70.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-21S	5.0 - 15.0	1	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13.0 - 23.0	2	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35.0 - 45.0	3	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-22I	25.0 - 30.0	0	2	0	5	--	0	0	10	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-22I2	46.0 - 51.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67.0 - 72.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25.0 - 30.0	2	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45.0 - 50.0	224	139	399	91	4	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-23D	65.0 - 70.0	0	2	0	--	--	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-24S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25.0 - 30.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45.0 - 50.0	0	30	186	2	66	347	162	106	467	67	98	41	55	0	0	0	0	0	0	--
OU2MW-24D	62.0 - 67.0	0	0	0	--	--	2	0	--	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-25S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25.0 - 30.0	0	0	2	26	0	0	0	8	0	0	0	72	0	0	0	0	0	0	--	--
OU2MW-25I2	45.0 - 50.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70.0 - 75.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	2	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	6	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	73	1	5	6	16	1	4	1	0	0	--	--	--	1	--	--	--	--	--	--
OU2MW-27S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25.0 - 30.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45.0 - 50.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65.0 - 70.0	0	0	0	0	--	0	0	0	0	0	--	--	--	2	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40.0 - 45.0	105	6	9	4	6	2	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	0	0	0	--	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	0	0	0	--	0	0	0	0	0	0	0	0	0	0	--	--	--	--	--	--
OU2MW-29D	45.0 - 50.0	64	70	63	34	18	12	10	12	23	19	7	4	0	4	0	0	0	0	0	0
OU2MW-30S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-30I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-30I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0

Table 4-6. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																			
		Sampling Date																			
		2012				2013				2014				2015				2016			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
OU2MW-30I3	45.0 - 50.0	3	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-30D	50.0 - 55.0	26	46	18	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-30D2	60.0 - 65.0	1	0	18	0	0	0	12	2	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-31I	18.0 - 23.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30.0 - 35.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-32I	20.0 - 25.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30.0 - 35.0	7	2	60	233	0	0	0	55	0	0	0	0	95	0	0	0	0	0	--	--
OU2MW-32D	40.0 - 45.0	159	228	446	217	168	331	288	114	174	105	174	187	94	0	8	4	0	0	0	0
OU2MW-33S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-33I	25.0 - 30.0	0	6	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-33I2	35.0 - 40.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-33D	50.0 - 55.0	0	0	0	--	--	6	--	40	--	42	--	--	--	0	--	--	--	0	0	--
OU2MW-34S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-34I/34IR	25.0 - 30.0	1	0	5	0	0	0	0	0	0	0	0	--	--	--	--	0	--	--	--	--
OU2MW-34I2/34I2R	45.0 - 50.0	0	0	21	27	0	134	35	102	6	0	0	3	0	--	70	--	--	--	--	--
OU2MW-35S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25.0 - 30.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45.0 - 50.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-35D	57.0 - 62.0	0	0	0	0	0	0	30	--	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-36S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25.0 - 30.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45.0 - 50.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61.0 - 66.0	0	0	0	--	--	0	0	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-37S	5.0 - 15.0	0	2	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25.0 - 30.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45.0 - 50.0	0	2	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-37D	67.0 - 72.0	0	0	0	--	--	0	0	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25.0 - 30.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46.0 - 51.0	588	919	78	2	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-38D	56.0 - 61.0	0	3	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-39S	5.0 - 15.0	1	0	0	0	5	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
OU2MW-39I	25.0 - 30.0	3	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
OU2MW-39I2	45.0 - 50.0	232	243	152	276	502	137	86	115	30	63	0	0	0	24	2	0	4	0	0	0
OU2MW-39D	70.0 - 75.0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-40S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--
OU2MW-40I	18.0 - 23.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	0	--
OU2MW-41I	18.0 - 23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU2MW-42S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25.0 - 30.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45.0 - 50.0	0	0	3	--	--	9	--	0	9	0	0	15	0	0	0	2	0	0	0	0
OU2MW-42D	60.0 - 65.0	8	5	216	690	1,207	1,860	1,637	1,219	2,290	1,470	872	1,120	1,018	1,141	1,055	868	727	922	944	1,121
OU2MW-43S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25.0 - 30.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45.0 - 50.0	6	2	4	11	25	84	12	4	8	0	0	5	0	0	--	--	--	0	--	--
OU2MW-43D	65.0 - 70.0	66	47	267	321	375	454	471	484	665	376	94	725	795	909	682	592	238	143	91	95
OU2MW-44S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25.0 - 30.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45.0 - 50.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65.0 - 70.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--
OU2MW-45I	20.0 - 25.0	0	0	0	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--
OU2MW-45I2	40.0 - 45.0	0	0	0	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--
OU2MW-45D	55.0 - 60.0	0	0	0	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--
OU2MW-46S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20.0 - 25.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40.0 - 45.0	0	0	0	--	--	0	3	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-47I	20.0 - 25.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-47I2	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-47D	60.0 - 65.0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-55S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	--	--
OU2MW-55I	30.0 - 35.0	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--
OU2MW-55I2	50.0 - 55.0	0	4	15	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--
OU2MW-55D	65.0 - 70.0	0	2	0	0	2	4	2	0	0	0	0	0	2	0	0	0	0	0	--	--
OU2MW-56S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--
OU2MW-56I	25.0 - 30.0	0	0	0	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--
OU2MW-56I2	45.0 - 50.0	0	0	0	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--
OU2MW-56D	65.0 - 70.0	0	0	0	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--

Table 4-6. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																	Total BTEX Groundwater Concentrations (µg/L)				
		2017				2018				2019				2020			2021		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-02S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	11	1	0	11
BBMW-02I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	7	0	0	7
BBMW-02D	73.0 - 83.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	21	1	0	21
BBMW-15S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-15I	23.0 - 28.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	473	19	0	473
BBMW-15I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	149	6	0	149
BBMW-15D	70.0 - 80.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-16I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-16D	68.0 - 78.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-24S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	117	3	0	117
BBMW-24I	32.0 - 42.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,408	289	0	2,408
BBMW-24D	59.5 - 69.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,420	272	0	1,420
GM-03S	6.78 - 21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	229	62	0	229
GM-03I	30.03 - 45.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	879	122	0	879
GM-03D	53.18 - 68.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	375	32	0	375
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	0	0	0	0	0
OU2MW-08S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	2,210	484	0	2,210
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	527	126	0	527
OU2MW-08I2	50.0 - 55.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--	0	590	123	0	590
OU2MW-08D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	16	1	0	16
OU2MW-19I	13.0 - 23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,617	178	0	4,617
OU2MW-19I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133	17	0	133
OU2MW-19D	65.0 - 70.0	29	72	0	1	2	0.78	0	0	0	0	5	0	5	3	2	3	11	0	1,818	165	0	1,818
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	819	123	0	819
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	87	4	0	87
OU2MW-20D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	870	53	0	870
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,930	443	0	4,930
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	479	65	0	479
OU2MW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	298	37	0	298
OU2MW-22I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-22D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,108	751	0	5,108
OU2MW-23I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	399	45	0	399
OU2MW-23D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	23	1	0	23
OU2MW-24I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,862	293	0	2,862
OU2MW-24I2	45.0 - 50.0	--	--	--	0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	467	54	0	467
OU2MW-24D	62.0 - 67.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-25I	25.0 - 30.0	--	--	--	0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	732	53	0	732
OU2MW-25I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-25D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	287	41	0	287
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,559	123	0	1,559
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	980	218	0	980
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	24	4	0	24
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	27	6	0	27
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	0	0	0	0	0
OU2MW-28I	28.0 - 33.0	--	--	--	0	--	0	--	--	--	0	--	--	--	0	--	--	--	0	400	33	0	400
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	286	39	0	286
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	1,715	186	0	1,715
OU2MW-29I2	30.0 - 35.0	--	--	--	0	--	0	--	--	--	0	--	--	--	0	--	--	--	0	1,316	70	0	1,316
OU2MW-29D	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--	0	405	87	0	405
OU2MW-30S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	251	6	0	251
OU2MW-30I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	729	35	0	729
OU2MW-30I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	533	30	0	533

Table 4-6. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																	Total BTEX Groundwater Concentrations (µg/L)				
		2017				2018				2019				2020			2021		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
OU2MW-30I3	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	254	20	0	254
OU2MW-30D	50.0 - 55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	301	37	0	301
OU2MW-30D2	60.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	422	66	0	422
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	856	131	0	856
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	413	27	0	413
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,013	1,016	0	5,013
OU2MW-32I2	30.0 - 35.0	--	--	--	0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	1,493	73	0	1,493
OU2MW-32D	40.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	446	91	0	446
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-33I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3,159	198	0	3,159
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	154	14	0	154
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	42	4	0	42
OU2MW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-34I/34IR	25.0 - 30.0	--	--	--	0	0	0	0	0	--	0	--	--	--	0	--	--	--	0	2,348	336	0	2,348
OU2MW-34I2/34I2R	45.0 - 50.0	--	--	--	0	0	0	0	0	--	0	--	--	--	0	--	--	--	0	134	14	0	134
OU2MW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	17	2	0	17
OU2MW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	678	39	0	678
OU2MW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-35D	57.0 - 62.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	30	2	0	30
OU2MW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	288	21	0	288
OU2MW-36I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-36D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-37S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	18	2	0	18
OU2MW-37I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,623	229	0	2,623
OU2MW-37I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	4
OU2MW-37D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	23	1	0	23
OU2MW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,001	256	0	4,001
OU2MW-38I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	919	120	0	919
OU2MW-38D	56.0 - 61.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	80	5	0	80
OU2MW-39S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5
OU2MW-39I	25.0 - 30.0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	1	0	18
OU2MW-39I2	45.0 - 50.0	18	4	0	1	0	0.15	2	3	0	0	0	0	0	0	0	0	0	0	502	51	0	502
OU2MW-39D	70.0 - 75.0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
OU2MW-40S	5.0 - 15.0	--	--	--	0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	270	38	0	270
OU2MW-41S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	92	5	0	92
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,625	210	0	1,625
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	22	2	0	22
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	86	10	0	86
OU2MW-42I2	45.0 - 50.0	0	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--	0	15	1	0	15
OU2MW-42D	60.0 - 65.0	1,625	1,061	334	744	919	918.53	559	357	557	323	281	321	158	311	392	153	154	0	2,290	632	0	2,290
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	963	77	0	963
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	205	15	0	205
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	84	15	0	84
OU2MW-43D	65.0 - 70.0	183	77	94	109	39	59	69	72	31	44	58	10	12	31	31	27	29	1	909	203	1	909
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-44D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-45S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	108	12	0	108
OU2MW-45I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	600	30	0	600
OU2MW-45I2	40.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
OU2MW-45D	55.0 - 60.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-46S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	422	48	0	422
OU2MW-46I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,991	218	0	1,991
OU2MW-46I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	375	30	0	375
OU2MW-47S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148	6	0	148
OU2MW-47I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,714	77	0	2,714
OU2MW-47I2	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	297	14	0	297
OU2MW-47D	60.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	695	48	0	695
OU2MW-55S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8	1	0	8
OU2MW-55I	30.0 - 35.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	20	2	0	20
OU2MW-55I2	50.0 - 55.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	120	11	0	120
OU2MW-55D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	159	24	0	159
OU2MW-56S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-56I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	45	3	0	45
OU2MW-56I2	45.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-56D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-7. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																
		Sampling Date																
		1992	1999		2002			2003			2004				2005			
		Sep	Sep	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
BBMW-02S	5.0 - 15.0	--	--	2	--	0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30.0 - 40.0	--	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02D	73.0 - 83.0	--	--	2	--	0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-15S	5.0 - 15.0	--	--	0	--	0	0	0	--	--	0	--	--	--	0	0	--	--
BBMW-15I	23.0 - 28.0	--	--	30	--	0	0	0	--	--	0	--	--	--	0	--	--	--
BBMW-15I2	35.0 - 45.0	--	--	3	--	0	0	0	--	--	0	--	--	--	0	--	--	--
BBMW-15D	70.0 - 80.0	--	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16S	5.0 - 15.0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16I	35.0 - 45.0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16D	68.0 - 78.0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4.0 - 14.0	--	--	--	--	11	0	0	0	908	0	120	0	0	0	10	0	--
BBMW-24I	32.0 - 42.0	--	--	--	--	6,632	11,246	6,000	6,400	4,815	4,782	5,284	7,679	8,053	6,062	4,694	5,392	--
BBMW-24D	59.5 - 69.5	--	--	--	--	7,412	--	6,000	5,800	8,110	3,194	1,070	360	392	3,232	5,652	5,372	--
GM-03S	6.78 - 21.78	196	6	6	4	37	--	510	--	--	100	--	--	182	12	--	183	110
GM-03I	30.03 - 45.03	350	0	21	12	273	--	149	--	--	898	--	--	--	67	--	429	--
GM-03D	53.18 - 68.18	661	1,238	0	1	1	--	31	--	--	0	--	0	--	0	--	0	--
MW-16AS	3.0 - 13.0	--	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,204	--
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,453	--
OU2MW-08I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,364	--
OU2MW-08D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-19I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62.0 - 67.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-7. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																
		Sampling Date																
		1992	1999		2002			2003			2004				2005			
		Sep	Sep	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I/34IR	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I2/34I2R	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35D	57.0 - 62.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56.0 - 61.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-7. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2006				2007				2008				2009			
		March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec
BBMW-02S	5.0 - 15.0	--	--	--	--	0	0	0	1	0	0	0	0	0	0	0	0
BBMW-02I	30.0 - 40.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-02D	73.0 - 83.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-15S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-15I	23.0 - 28.0	--	--	0	--	0	0	0	0	0	0	0	0	48	0	0	0
BBMW-15I2	35.0 - 45.0	--	--	0	--	0	0	0	0	0	0	0	77	0	0	0	0
BBMW-15D	70.0 - 80.0	--	--	--	--	0	0	0	2	0	0	0	0	0	0	0	0
BBMW-16S	5.0 - 15.0	--	--	--	--	0	0	0	2	0	0	0	0	0	0	0	0
BBMW-16I	35.0 - 45.0	--	--	--	--	0	0	0	0	2	0	0	0	0	0	0	0
BBMW-16D	68.0 - 78.0	--	--	--	--	0	0	0	0	0	23	0	0	0	0	0	0
BBMW-24S	4.0 - 14.0	0	0	0	0	0	0	0	0	0	0	120	0	0	0	0	1
BBMW-24I	32.0 - 42.0	--	5,772	--	2,115	184	434	1,863	103	85	87	0	0	0	1,027	0	0
BBMW-24D	59.5 - 69.5	--	3,037	--	4,055	3,852	0	1	0	0	160	2	113	233	13	53	131
GM-03S	6.78 - 21.78	0	250	245	72	235	21	8	8	0	0	47	--	--	--	--	--
GM-03I	30.03 - 45.03	1,330	0	0	0	0	275	611	44	2	106	13	--	--	--	--	--
GM-03D	53.18 - 68.18	--	--	--	--	0	0	4	0	48	0	0	--	--	--	--	--
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	0	7	0	20	--	0	62	0	0	0	0
OU2MW-08S	20.0 - 25.0	9,968	7,000	4,974	8,445	5,763	9,121	8,025	13,563	6,542	6,504	7,369	6,698	4,426	4,661	4,301	714
OU2MW-08I	35.0 - 40.0	4,983	4,020	2,328	3,013	507	2,354	799	2,954	2,264	4,805	12,258	8,486	4,781	7,615	2,887	1
OU2MW-08I2	50.0 - 55.0	1,666	2,664	1,347	1,961	1,454	1,429	262	3,501	1,646	2,120	3,037	2,954	906	0	70	2,140
OU2MW-08D	65.0 - 70.0	0	0	0	0	0	111	0	3,892	0	0	9	0	0	0	0	0
OU2MW-19I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	1,043	1,459	357	175	92	146	55
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	6,212	7,648	6,239	7,147	6,811	3,337	5,885
OU2MW-19D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	801	3,718	1,862	2,841	3,601	2,932
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	101	91	0	74	0	0	5
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	4	0	0	0	0	0	0
OU2MW-20D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	2	0	0	0	0	2
OU2MW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	424	341	9	4	0
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	5,417	4,165	297	1,948	24	86	0
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	3,922	3,985	3,134	3,902	1,244	110	10
OU2MW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	181	32	0	23	0
OU2MW-22I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-22D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	429	178	63	323	0
OU2MW-23I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-23D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	3	0
OU2MW-24I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	6,015	5,796	1,068	493	80
OU2MW-24I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	4	0	0	0	0
OU2MW-24D	62.0 - 67.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-25I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	149	121	133	72	63
OU2MW-25I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-25D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	0	5	0	0	0	0	0
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	102	154	235	277	0	3	0
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	54	965	3,990	2,576	26	14	7
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	623	149	1,369	1,742	3,482	4,328	5,814
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,150
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	0	0	1	0	0
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	--	283	132	121	0	11	13
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	12	16	15	0	1,712	532
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	863	1,083	700	513	38	6
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	3,642	6,159	2,778	6,117	274	501
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	2,656	2,474	314	2,842	2,937	2,890
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	2	1,990	10	0	0	0
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	5,560	7,304	5,175	2,186	33	6
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	6,605	5,671	6,025	4,696	195	76
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	93	5,101	5,562	5,586	94	80
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	1,087	5,989	1,652	4,681	84	586

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Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2006				2007				2008				2009			
		March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	2,638	4,689	4,735	2,274	15	2,904
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	212	488	79	137	4	0
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	1	6	0	841	21	1
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	0	63	0	0	0
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	4,029	3,970	2,818	7,796	4,621	2,814
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	5,230	3,459	1,164	408	94	39
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	29	1,336	189	32	10	0
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-33I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	565	158	39	66
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	104	14	4	679
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-34I/34IR	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	257	333	153	280
OU2MW-34I2/34I2R	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	3	0	0	11
OU2MW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	3	0	0	0	0
OU2MW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	2,270	250	8	0	0
OU2MW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-35D	57.0 - 62.0	--	--	--	--	--	--	--	--	--	--	--	4	0	0	0	0
OU2MW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	1,302	573	325	0	0
OU2MW-36I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-36D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0
OU2MW-37S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	3	0	0
OU2MW-37I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	43	38	216	23	0
OU2MW-37I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	0	0	3	0	0
OU2MW-37D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	2,992	2,202	206	61	14
OU2MW-38I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-38D	56.0 - 61.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	32	4	3	0	0
OU2MW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	1	0	55	130	1
OU2MW-39D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	165	122	167	71	25	16
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	143	0	0	0	0
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	2,370	3,785	4,276	1,981	540	129
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	107	0	0
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	2	0	0
OU2MW-42I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-42D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	4	185	373
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	219
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	197
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,130
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-44D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-45S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	45
OU2MW-45I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	30	8	5	1	2
OU2MW-45I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	39	7	0	0	0
OU2MW-45D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	2	0
OU2MW-46S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	0	31	0	0	0
OU2MW-46I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	2,503	2,169	12	0	0
OU2MW-46I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	0	4	56	0	0
OU2MW-47S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	56	0	0	0	0
OU2MW-47I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	785	1,043	4	0	1
OU2MW-47I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	6,146	3,627	8	31	7
OU2MW-47D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	7,437	7,007	6,751	3,906	1,550
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-7. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2010				2011				2012				2013			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-02S	5.0 - 15.0	0	0	0	0	0	0	2	0	0	0	0	--	--	0	--	--
BBMW-02I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-02D	73.0 - 83.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-15S	5.0 - 15.0	0	0	0	0	0	2	0	0	0	0	0	--	--	0	--	--
BBMW-15I	23.0 - 28.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-15I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-15D	70.0 - 80.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-16S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-16I	35.0 - 45.0	0	0	0	0	0	0	0	0	1	0	0	--	--	0	--	--
BBMW-16D	68.0 - 78.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-24S	4.0 - 14.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-24I	32.0 - 42.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-24D	59.5 - 69.5	268	114	26	3	1	0	2	0	0	0	0	0	0	0	2	--
GM-03S	6.78 - 21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-03I	30.03 - 45.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-03D	53.18 - 68.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-08S	20.0 - 25.0	1,958	820	84	52	1	4	2	4	0	0	0	--	--	0	--	--
OU2MW-08I	35.0 - 40.0	344	9	60	0	0	7	17	0	39	9	0	1	2	0	0	0
OU2MW-08I2	50.0 - 55.0	2,182	524	704	2,146	489	909	2,102	2,599	1,989	2,330	630	363	146	171	85	103
OU2MW-08D	65.0 - 70.0	0	0	0	0	0	0	6	0	0	0	6	--	--	1	--	--
OU2MW-19I	13.0 - 23.0	26	11	0	0	0	0	0	0	0	3	0	0	0	0	22	0
OU2MW-19I2	35.0 - 45.0	644	41	69	4	3	0	0	0	0	8	0	5	0	16	44	0
OU2MW-19D	65.0 - 70.0	0	0	0	30	212	20	4	14	254	180	231	13	0	1,568	1,911	3
OU2MW-20S	4.0 - 9.0	0	0	0	0	0	0	0	0	0	2	0	--	--	0	--	--
OU2MW-20I	13.0 - 23.0	1	2	3	16	0	0	0	0	0	0	0	0	0	0	0	--
OU2MW-20I2	35.0 - 45.0	0	0	0	0	0	0	5	0	0	0	0	--	--	0	--	--
OU2MW-20D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	1	0	--	--	0	--	--
OU2MW-21S	5.0 - 15.0	0	13	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-21I	13.0 - 23.0	17	29	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-21I2	35.0 - 45.0	6	1	2	1	1	0	0	0	0	0	0	--	--	0	--	--
OU2MW-22S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	3	0	--	--	0	--	--
OU2MW-22I	25.0 - 30.0	0	0	22	22	0	0	58	0	0	4	0	4	--	0	0	3
OU2MW-22I2	46.0 - 51.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-22D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-23S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-23I	25.0 - 30.0	0	0	0	583	1,009	0	0	0	2	0	0	0	1	0	--	--
OU2MW-23I2	45.0 - 50.0	0	0	0	0	2	0	9	434	126	123	268	81	9	0	0	0
OU2MW-23D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	4	0	--	--	0	0	--
OU2MW-24S	5.0 - 15.0	258	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-24I	25.0 - 30.0	0	5	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-24I2	45.0 - 50.0	0	0	0	187	9	24	356	3	1	220	523	4	122	1,610	1,959	961
OU2MW-24D	62.0 - 67.0	0	0	0	0	0	0	0	0	0	3	0	--	--	20	0	--
OU2MW-25S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-25I	25.0 - 30.0	45	0	6	52	30	3	1	30	4	0	0	12	0	0	0	16
OU2MW-25I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-25D	70.0 - 75.0	0	0	0	0	0	0	0	0	0	2	0	--	--	0	--	--
OU2MW-26S	6.0 - 11.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-26I	13.0 - 23.0	1	1	0	0	0	0	0	19	0	0	0	0	--	0	--	--
OU2MW-26I2	35.0 - 45.0	15	6	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-26D	60.0 - 70.0	4,267	2,232	3,291	3,640	381	14	14	0	6	0	0	0	0	0	0	0
OU2MW-27S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-27I	25.0 - 30.0	2	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-27I2	45.0 - 50.0	8	0	2	1	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-27D	65.0 - 70.0	0	2	1	0	0	4	438	0	10	0	4	25	--	0	0	0
OU2MW-28S	5.0 - 15.0	0	0	0	0	0	0	1	0	0	0	4	--	--	0	--	--
OU2MW-28I	28.0 - 33.0	0	0	0	0	0	0	1	0	0	2	5	--	--	0	--	--
OU2MW-28I2	40.0 - 45.0	79	4,443	4,414	0	0	3	99	20	183	0	1	0	0	0	0	0
OU2MW-29I	18.0 - 23.0	0	0	0	0	1	27	0	0	0	8	11	--	0	0	0	10
OU2MW-29I2	30.0 - 35.0	76	57	15	1	0	0	0	0	0	0	33	--	0	0	67	0
OU2MW-29D	45.0 - 50.0	1,726	789	2,278	652	1,316	721	1,513	813	1,372	1,193	1,402	328	207	58	70	128
OU2MW-30S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-30I	25.0 - 30.0	11	5	0	0	0	0	0	0	0	0	6	0	0	0	0	0
OU2MW-30I2	30.0 - 35.0	6	2	13	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-30I3	45.0 - 50.0	3	0	73	0	0	0	5	4	0	0	3	0	0	0	0	0
OU2MW-30D	50.0 - 55.0	8	3	6	2	5	0	2	0	3	2	5	0	0	0	0	0

Table 4-7. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2010				2011				2012				2013			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
OU2MW-30D2	60.0 - 65.0	147	2,248	2,312	273	10	0	194	0	0	0	2	0	0	0	4	10
OU2MW-31I	18.0 - 23.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-31I2	30.0 - 35.0	0	0	0	0	18	0	0	0	0	0	0	--	--	0	--	--
OU2MW-32S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-32I	20.0 - 25.0	1,579	573	202	116	34	25	27	21	22	16	12	--	--	0	--	--
OU2MW-32I2	30.0 - 35.0	503	578	132	58	14	10	16	6	26	5	4	128	0	0	0	47
OU2MW-32D	40.0 - 45.0	0	0	2	0	0	0	2	598	4	55	1,578	225	825	1,451	1,572	752
OU2MW-33S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-33I	25.0 - 30.0	25	63	10	0	0	0	0	0	0	1	0	--	--	0	--	--
OU2MW-33I2	35.0 - 40.0	16	6	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-33D	50.0 - 55.0	0	0	0	0	0	0	0	0	0	0	0	--	--	16	--	15
OU2MW-34S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-34I/34IR	25.0 - 30.0	295	195	53	34	14	2	230	2	0	0	4	0	0	10	0	0
OU2MW-34I2/34I2R	45.0 - 50.0	0	0	0	0	0	0	0	17	14	2	16	16	0	21	24	121
OU2MW-35S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-35I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-35I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-35D	57.0 - 62.0	0	0	0	8	0	0	0	0	4	3	0	0	0	0	16	--
OU2MW-36S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	2	0	--	--	0	--	--
OU2MW-36I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-36I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	1	0	--	--	0	--	--
OU2MW-36D	61.0 - 66.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	0	--
OU2MW-37S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	4	0	--	--	0	--	--
OU2MW-37I	25.0 - 30.0	11	0	65	0	0	0	0	0	0	4	0	--	--	0	--	--
OU2MW-37I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	4	0	--	--	0	--	--
OU2MW-37D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	0	--
OU2MW-38S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	2	0	--	--	0	--	--
OU2MW-38I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	2	0	--	--	0	--	--
OU2MW-38I2	46.0 - 51.0	0	0	26	5	7	116	164	0	439	1,312	35	2	0	0	0	0
OU2MW-38D	56.0 - 61.0	0	0	60	11	0	0	0	0	0	3	0	9	0	0	0	--
OU2MW-39S	5.0 - 15.0	0	0	0	0	0	0	0	4	0	4	0	0	12	0	1	0
OU2MW-39I	25.0 - 30.0	0	0	0	0	0	0	0	2	1	4	0	0	0	0	1	1
OU2MW-39I2	45.0 - 50.0	671	220	89	0	14	0	393	1,217	1,051	1,063	1,404	1,825	3,780	853	877	2,004
OU2MW-39D	70.0 - 75.0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	1	8
OU2MW-40S	5.0 - 15.0	0	0	0	0	0	0	0	51	0	0	0	0	20	0	1,490	0
OU2MW-40I	18.0 - 23.0	14	0	0	0	0	0	0	0	10	0	0	--	--	0	--	--
OU2MW-41S	5.0 - 15.0	1	19	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-41I	18.0 - 23.0	543	0	13	0	0	0	0	54	66	0	5	10	32	0	0	102
OU2MW-42S	5.0 - 15.0	5	0	0	5	0	2	3	0	0	2	0	--	--	1	--	--
OU2MW-42I	25.0 - 30.0	106	14	7	0	0	0	0	0	0	2	0	--	--	0	--	--
OU2MW-42I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	44	--	--	128	--	22
OU2MW-42D	60.0 - 65.0	199	80	56	121	26	115	68	13	41	25	347	917	3,289	2,468	2,901	3,504
OU2MW-43S	5.0 - 15.0	31	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-43I	25.0 - 30.0	18	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-43I2	45.0 - 50.0	10	96	0	1,293	259	5	38	0	218	97	4	295	291	1,349	602	417
OU2MW-43D	65.0 - 70.0	71	10	4	44	0	119	320	416	333	313	1,407	1,869	2,458	1,868	4,928	2,286
OU2MW-44S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-44I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-44I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-44D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-45S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-45I	20.0 - 25.0	200	25	1	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-45I2	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-45D	55.0 - 60.0	0	0	0	0	0	13	0	0	0	0	0	--	--	0	--	--
OU2MW-46S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-46I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-46I2	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	2	--
OU2MW-47S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-47I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-47I2	40.0 - 45.0	4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-47D	60.0 - 65.0	0	6	32	4	2	21	10	0	0	0	0	0	0	0	0	0
OU2MW-55S	5.0 - 15.0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-55I	30.0 - 35.0	--	0	0	0	0	0	0	111	0	0	0	0	0	0	0	0
OU2MW-55I2	50.0 - 55.0	--	18	336	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-55D	65.0 - 70.0	--	179	29	252	5	35	2	0	0	0	0	0	1	0	0	0
OU2MW-56S	5.0 - 15.0	--	0	0	0	0	0	0	0	0	0	0	--	--	2	--	--
OU2MW-56I	25.0 - 30.0	--	6	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-56I2	45.0 - 50.0	--	0	0	0	0	0	0	8	0	0	0	--	--	0	--	--
OU2MW-56D	65.0 - 70.0	--	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--

Table 4-7. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2014				2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-02S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02D	73.0 - 83.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-15S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-15I	23.0 - 28.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-15I2	35.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-15D	70.0 - 80.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16I	35.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16D	68.0 - 78.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4.0 - 14.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24I	32.0 - 42.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24D	59.5 - 69.5	--	8	--	--	--	0	--	--	--	--	--	--	--	--	--	--
GM-03S	6.78 - 21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-03I	30.03 - 45.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-03D	53.18 - 68.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35.0 - 40.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-08I2	50.0 - 55.0	56	75	117	105	135	134	173	76	108	66	79	41	--	10	--	--
OU2MW-08D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13.0 - 23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-19I2	35.0 - 45.0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
OU2MW-19D	65.0 - 70.0	1,141	1,308	748	1,274	3,101	750	2,386	1,335	351	205	204	47	104	0	0	5
OU2MW-20S	4.0 - 9.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13.0 - 23.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	35.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13.0 - 23.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13.0 - 23.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46.0 - 51.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67.0 - 72.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45.0 - 50.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65.0 - 70.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45.0 - 50.0	3,130	322	688	202	719	1	1	0	0	0	0	--	--	--	--	0
OU2MW-24D	62.0 - 67.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-25S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25.0 - 30.0	0	0	0	45	0	0	0	0	0	2	--	--	--	--	--	0
OU2MW-25I2	45.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70.0 - 75.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65.0 - 70.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-28I2	40.0 - 45.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	5	0	0	0	0	0	--	--	--	--	--	--	--	--	--	0
OU2MW-29D	45.0 - 50.0	118	76	41	42	11	15	8	1	1	0	0	0	--	0	--	--
OU2MW-30S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-30I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-30I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	2	0	0	0	3	0	0
OU2MW-30I3	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-30D	50.0 - 55.0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0

Table 4-7. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2014				2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
OU2MW-30D2	60.0 - 65.0	0	0	63	0	0	0	0	0	0	0	0	0	3	1	1	1
OU2MW-31I	18.0 - 23.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30.0 - 35.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	--	0
OU2MW-32D	40.0 - 45.0	284	440	1,135	1,120	427	5	4	7	2	0	0	0	--	0	--	--
OU2MW-33S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I2	35.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33D	50.0 - 55.0	--	2	--	--	--	0	--	--	--	0	0	--	--	--	--	--
OU2MW-34S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I/34IR	25.0 - 30.0	0	0	0	--	--	--	--	0	--	--	--	--	--	--	--	0
OU2MW-34I2/34I2R	45.0 - 50.0	14	0	0	11	0	--	0	--	--	--	--	--	--	--	--	0
OU2MW-35S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35D	57.0 - 62.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-36S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61.0 - 66.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37D	67.0 - 72.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46.0 - 51.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56.0 - 61.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5.0 - 15.0	0	0	0	7	2	0	0	0	0	0	0	0	0	0	0	2
OU2MW-39I	25.0 - 30.0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	6
OU2MW-39I2	45.0 - 50.0	223	76	0	2	1	5	12	0	4	3	0	0	32	0	0	0
OU2MW-39D	70.0 - 75.0	0	1	0	0	0	0	0	1	0	0	3	0	0	2	0	3
OU2MW-40S	5.0 - 15.0	33	14	0	0	0	0	0	0	0	0	--	--	--	--	--	0
OU2MW-40I	18.0 - 23.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	0	--	--	0	--	--
OU2MW-41I	18.0 - 23.0	27	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-42S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45.0 - 50.0	33	0	59	742	0	0	0	97	49	0	0	0	0	0	--	--
OU2MW-42D	60.0 - 65.0	3,948	3,444	2,650	3,502	2,628	2,091	2,033	3,531	1,827	1,768	2,251	2,931	5,230	2,370	4,487	2,531
OU2MW-43S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45.0 - 50.0	170	5	0	9	12	0	--	--	--	0	--	--	--	--	--	--
OU2MW-43D	65.0 - 70.0	3,044	2,393	2,579	2,219	3,767	1,628	1,357	2,312	673	319	315	370	597	332	526	599
OU2MW-44S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5.0 - 15.0	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--
OU2MW-45I	20.0 - 25.0	--	0	--	--	--	18	0	0	0	0	--	--	--	0	--	--
OU2MW-45I2	40.0 - 45.0	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--
OU2MW-45D	55.0 - 60.0	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--
OU2MW-46S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-47I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-47I2	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-47D	60.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-55S	5.0 - 15.0	0	0	0	0	0	5	0	0	0	0	--	--	--	0	--	--
OU2MW-55I	30.0 - 35.0	0	0	0	0	0	7	0	0	0	0	--	--	--	0	--	--
OU2MW-55I2	50.0 - 55.0	0	0	0	0	0	5	0	0	0	0	--	--	--	0	--	--
OU2MW-55D	65.0 - 70.0	0	0	0	0	0	4	0	0	0	0	--	--	--	0	--	--
OU2MW-56S	5.0 - 15.0	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--
OU2MW-56I	25.0 - 30.0	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--
OU2MW-56I2	45.0 - 50.0	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--
OU2MW-56D	65.0 - 70.0	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--

Table 4-7. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)													Total PAH Groundwater Concentrations (µg/L)				
		Sampling Date													Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-02S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
BBMW-02I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-02D	73.0 - 83.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
BBMW-15S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
BBMW-15I	23.0 - 28.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	48	2	0	48
BBMW-15I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	77	3	0	77
BBMW-15D	70.0 - 80.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
BBMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
BBMW-16I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
BBMW-16D	68.0 - 78.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	23	1	0	23
BBMW-24S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	908	29	0	908
BBMW-24I	32.0 - 42.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	11,246	2,275	0	11,246
BBMW-24D	59.5 - 69.5	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8,110	1,397	0	8,110
GM-03S	6.78 - 21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	0	510	101	0	510
GM-03I	30.03 - 45.03	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,330	229	0	1,330
GM-03D	53.18 - 68.18	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,238	117	0	1,238
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	62	4	0	62
OU2MW-08S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	13,563	3,652	0	13,563
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	12,258	1,838	0	12,258
OU2MW-08I2	50.0 - 55.0	--	1.7	--	--	--	--	--	--	--	0	--	--	--	0	3,501	983	0	3,501
OU2MW-08D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	3,892	130	0	3,892
OU2MW-19I	13.0 - 23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,459	66	0	1,459
OU2MW-19I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,648	865	0	7,648
OU2MW-19D	65.0 - 70.0	18	448.6	6	0	2	0	8.2	0	31	36	2	31	13	0	3,718	675	0	3,718
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	101	12	0	101
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	0	0	5
OU2MW-20D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	424	44	0	424
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,417	599	0	5,417
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3,985	816	0	3,985
OU2MW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	3
OU2MW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	181	16	0	181
OU2MW-22I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-22D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,009	129	0	1,009
OU2MW-23I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	434	44	0	434
OU2MW-23D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	4
OU2MW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	258	15	0	258
OU2MW-24I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6,015	748	0	6,015
OU2MW-24I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	3,130	316	0	3,130
OU2MW-24D	62.0 - 67.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	20	1	0	20
OU2MW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-25I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	149	23	0	149
OU2MW-25I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-25D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	0	0	5
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	277	38	0	277
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3,990	383	0	3,990
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,814	1,206	0	5,814
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	10	1	0	10
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	18	2	0	18
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,150	86	0	1,150
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	--	--	--	--	0	4	0	0	4
OU2MW-28I	28.0 - 33.0	--	0	--	--	--	0	--	--	0	--	--	--	--	0	283	25	0	283
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	0	--	--	--	--	0	4,443	443	0	4,443
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	0	--	--	--	--	0	1,083	130	0	1,083
OU2MW-29I2	30.0 - 35.0	--	0	--	--	--	0	--	--	0	--	--	--	--	0	6,159	636	0	6,159
OU2MW-29D	45.0 - 50.0	--	0	--	--	--	--	--	--	1	--	--	--	--	0	2,937	784	0	2,937
OU2MW-30S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,990	40	0	1,990
OU2MW-30I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,304	406	0	7,304
OU2MW-30I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,605	466	0	6,605
OU2MW-30I3	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,586	332	0	5,586
OU2MW-30D	50.0 - 55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,989	282	0	5,989

Table 4-7. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Mid-Plume Treatment Area
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)													Total PAH Groundwater Concentrations (µg/L)				
		Sampling Date													Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
OU2MW-30D2	60.0 - 65.0	1	1.2	0	0	0	0	0	0	0	0	0	0	0	0	4,735	451	0	4,735
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	488	48	0	488
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	841	47	0	841
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	63	3	0	63
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	7,796	1,509	0	7,796
OU2MW-32I2	30.0 - 35.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	5,230	341	0	5,230
OU2MW-32D	40.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	0	1,578	336	0	1,578
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-33I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	565	55	0	565
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	679	48	0	679
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	16	2	0	16
OU2MW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-34I/34IR	25.0 - 30.0	0	0	0	0	--	0	--	--	--	0	--	--	--	0	333	60	0	333
OU2MW-34I2/34I2R	45.0 - 50.0	0	0	0	0	--	0	--	--	--	0	--	--	--	0	121	8	0	121
OU2MW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	3
OU2MW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,270	140	0	2,270
OU2MW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-35D	57.0 - 62.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	16	2	0	16
OU2MW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,302	122	0	1,302
OU2MW-36I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
OU2MW-36D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
OU2MW-37S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	4
OU2MW-37I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	216	22	0	216
OU2MW-37I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	4
OU2MW-37D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,992	304	0	2,992
OU2MW-38I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,312	92	0	1,312
OU2MW-38D	56.0 - 61.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	60	4	0	60
OU2MW-39S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1	0	12
OU2MW-39I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	1	0	32
OU2MW-39I2	45.0 - 50.0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	3,780	327	0	3,780
OU2MW-39D	70.0 - 75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8
OU2MW-40S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	1,490	46	0	1,490
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	167	31	0	167
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	143	8	0	143
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,276	480	0	4,276
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	107	8	0	107
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	106	8	0	106
OU2MW-42I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	742	37	0	742
OU2MW-42D	60.0 - 65.0	4,269	4736	3,034	1,753	2,037	692	642	498	646	948	2,031	880	482	4	5,230	1,790	4	5,230
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	219	18	0	219
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	197	15	0	197
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,130	429	0	5,130
OU2MW-43D	65.0 - 70.0	155	0	405	551	173	335	69.97	13	69	297	429	340	311	0	4,928	941	0	4,928
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-44D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-45S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	45	2	0	45
OU2MW-45I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	200	12	0	200
OU2MW-45I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	39	2	0	39
OU2MW-45D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	13	1	0	13
OU2MW-46S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	31	2	0	31
OU2MW-46I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,503	260	0	2,503
OU2MW-46I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	56	3	0	56
OU2MW-47S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	1	0	56
OU2MW-47I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,043	37	0	1,043
OU2MW-47I2	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,146	201	0	6,146
OU2MW-47D	60.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,437	545	0	7,437
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	0	0	5
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	111	5	0	111
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	336	14	0	336
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	252	20	0	252
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6	0	0	6
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8	0	0	8
OU2MW-56D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-8. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Downgradient
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																	
		Sampling Date																	
		1992	1999		2000	2002			2003			2004				2005			
		Sep	Sep	Oct/Nov	Nov/Dec	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
BBMW-03S	3.0 - 13.0	--	--	0	--	2	0	--	--	--	--	--	--	0	0	--	--	0	--
BBMW-03I	30.0 - 40.0	--	--	2	--	1	0	--	--	--	--	--	--	0	0	--	--	0	--
BBMW-03D	52.0 - 62.0	--	--	3	--	3	0	--	--	--	--	--	--	--	0	--	--	0	--
BBMW-07S	5.0 - 15.0	--	--	2	--	--	5	0	0	116	241	160	11	39	20	0	--	--	0
BBMW-07I	30.0 - 40.0	--	--	0	--	--	0	0	--	--	--	--	--	--	0	--	--	--	--
BBMW-07D	55.0 - 65.0	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25S	4.0 - 14.0	--	--	--	--	--	58	0	0	0	0	0	--	0	0	0	--	0	0
BBMW-25I	25.0 - 35.0	--	--	--	--	--	1,034	533	1,330	980	1,707	1,304	936	865	1,007	1,995	--	1,082	1,360
BBMW-25D	62.0 - 72.0	--	--	--	--	--	45	--	59	75	44	29	20	0	110	78	--	47	--
GM-05S	5.1 - 20.1	0	422	283	124	27	106	307	87	367	0	0	0	157	0	134	0	40	57
GM-05I	35.05 - 48.05	0	0	2	0	0	0	0	0	--	0	--	--	0	0	--	--	--	--
GM-05D	60.95 - 75.95	0	0	0	0	0	0	--	--	--	--	--	--	0	--	--	--	--	--
GM-08S	6.35-21.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08I	29.95-44.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08D	48.25-63.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25.0 - 30.0	--	--	--	1,090	1,056	433	348	250	824	454	692	455	587	200	2,130	3,200	1,280	250
GMP-02	18.0 - 23.0	--	--	--	1,387	321	197	2,268	710	2,275	1,194	1,735	913	660	24	1,318	1,090	550	311
GMP-04	15.5 - 20.5	--	--	--	60	67	44	82	0	11	12	331	385	345	1,483	263	214	366	1,132
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,243	--
OU2MW-01I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	77	--
OU2MW-01I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25	--
OU2MW-01D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-02S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100	--
OU2MW-02I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	477	--
OU2MW-02I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	--
OU2MW-02D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-03S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	151	--
OU2MW-03I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-03I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-03D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-8. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Downgradient
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																	
		Sampling Date																	
		1992	1999		2000	2002			2003			2004				2005			
		Sep	Sep	Oct/Nov	Nov/Dec	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,130	--
OU2MW-04I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	267	--
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	41	--
OU2MW-04D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-05	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,120	--
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,085	--
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35	--
OU2MW-09	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-8. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Downgradient
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)															
		Sampling Date															
		2006				2007				2008				2009			
		Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-03S	3.0 - 13.0	0	0	0	0	393	0	0	0	0	0	0	0	0	0	0	0
BBMW-03I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-03D	52.0 - 62.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-07S	5.0 - 15.0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-07I	30.0 - 40.0	--	--	--	--	--	0	--	0	0	0	0	0	0	0	0	0
BBMW-07D	55.0 - 65.0	--	--	--	--	25	0	--	0	0	0	0	0	0	0	0	0
BBMW-25S	4.0 - 14.0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
BBMW-25I	25.0 - 35.0	264	0	79	344	0	150	252	41	158	169	101	523	469	301	46	18
BBMW-25D	62.0 - 72.0	11	21	78	76	0	0	16	6	2	6	8	8	35	32	2	4
GM-05S	5.1 - 20.1	140	21	0	12	0	2	0	14	185	55	16	113	8	36	11	6
GM-05I	35.05 - 48.05	0	--	--	--	0	0	13	0	0	0	0	0	0	0	0	0
GM-05D	60.95 - 75.95	0	--	--	--	0	0	0	0	4	0	0	0	2	0	0	0
GM-08S	6.35-21.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08I	29.95-44.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08D	48.25-63.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25.0 - 30.0	562	577	1,156	4,726	185	169	49	135	182	94	170	655	762	869	432	372
GMP-02	18.0 - 23.0	151	11	12	0	0	0	0	0	3	4	0	0	0	0	0	0
GMP-04	15.5 - 20.5	242	83	242	280	652	36	295	264	15	0	0	0	0	0	0	0
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-01S	20.0 - 25.0	348	176	988	288	876	46	182	102	42	6	15	82	69	334	107	2
OU2MW-01I	35.0 - 40.0	767	170	170	424	885	443	408	85	8	1	13	10	2	195	186	4
OU2MW-01I2	50.0 - 55.0	195	126	52	51	51	31	0	0	0	0	0	0	0	0	3	1
OU2MW-01D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-02S	20.0 - 25.0	181	111	282	573	27	270	137	1	29	52	20	6	5	184	46	0
OU2MW-02I	35.0 - 40.0	370	415	493	459	645	260	410	229	377	412	281	359	370	335	350	154
OU2MW-02I2	50.0 - 55.0	0	0	0	0	0	0	0	1	11	0	2	1	3	2	0	0
OU2MW-02D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-03S	20.0 - 25.0	530	234	225	206	0	1,108	223	9	45	94	42	53	30	99	48	90
OU2MW-03I	35.0 - 40.0	0	0	0	182	0	0	0	0	0	0	85	1,262	366	15	0	14
OU2MW-03I2	50.0 - 55.0	0	0	0	0	11	29	0	0	0	0	0	0	5	38	10	8
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	10	0	0	0	0

Table 4-8. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Downgradient
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)															
		Sampling Date															
		2006				2007				2008				2009			
		Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
OU2MW-04S	20.0 - 25.0	844	740	1,176	386	421	873	253	600	791	200	200	730	841	891	654	818
OU2MW-04I	35.0 - 40.0	885	296	23	0	134	244	252	158	174	25	67	120	97	198	28	22
OU2MW-04I2	50.0 - 55.0	32	0	0	0	0	5	0	0	0	0	0	0	0	189	1	0
OU2MW-04D	65.0 - 70.0	0	0	0	0	0	0	0	3	2	1	0	1	2	0	0	0
OU2MW-05	25.0 - 35.0	224	254	1,039	3,159	280	188	110	202	221	158	181	514	466	290	369	242
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-06	15.0 - 25.0	11	0	0	0	53	0	0	0	11	3	0	2	0	0	0	0
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	0	0	0	1	0	0	0	0	0	0	0
OU2MW-07	15.0 - 25.0	59	39	0	35	0	3	0	1	15	3	3	0	0	2	0	0
OU2MW-09	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	3	0	278	906	14	10	143	76	33	32	36
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	0	0	0	0	198	39	351	78	0	28	43
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	168	13	356	245	263	249	227	170	132	69	153
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	293	329	43	67	33	41	81	98	25	1	66
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	3	0	0	0	0	0	0	8	5	20	18
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	466	143	70	70	81	78	62	107	48	139	96
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	30	2	7	23	2	0	0	53	19	7	58
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	23	13	21	17	11	0	0	0	0	0	0
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	29	9	0	7	4	1	7	13	3	22	0
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	4	27	5	0	10	10	0	34	13	29	23
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	795	32	1	40	8	6	14	0	63	175	3
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	0	599	367	0	0	0	0	0	0	0	0
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	79	1	11	0	0	0	0	0	0	0	0
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	0	9	53	6	2	0	0	0	0	84	0
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	0	0	0	149	0	0	1	0	2	0	0
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	128	0	0
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0

Table 4-8. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Downgradient
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)															
		Sampling Date															
		2010				2011				2012				2013			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-03S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-03I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-03D	52.0 - 62.0	0	1	1	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-07S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-07I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-07D	55.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-25S	4.0 - 14.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-25I	25.0 - 35.0	6	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-25D	62.0 - 72.0	15	9	0	0	0	0	23	7	1	1	0	0	0	0	0	0
GM-05S	5.1 - 20.1	8	7	13	2	0	0	1	0	0	0	0	--	--	0	--	--
GM-05I	35.05 - 48.05	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
GM-05D	60.95 - 75.95	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
GM-08S	6.35-21.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08I	29.95-44.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08D	48.25-63.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25.0 - 30.0	535	247	93	37	68	7	12	2	0	0	0	0	0	0	0	0
GMP-02	18.0 - 23.0	0	0	3	0	0	0	0	0	0	0	0	--	--	0	--	--
GMP-04	15.5 - 20.5	0	0	0	3	0	0	0	0	0	0	0	--	--	0	--	--
OU2IW-01S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-01WT	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-01S	20.0 - 25.0	0	4	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-01I	35.0 - 40.0	2	0	0	0	0	0	0	0	3	1	0	--	--	0	--	--
OU2MW-01I2	50.0 - 55.0	0	47	14	10	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-01D	65.0 - 70.0	0	0	72	0	0	0	0	0	1	0	0	--	--	0	--	--
OU2MW-02S	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
OU2MW-02I	35.0 - 40.0	378	118	136	179	137	130	97	107	61	50	56	46	32	11	0	0
OU2MW-02I2	50.0 - 55.0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3	6
OU2MW-02D	65.0 - 70.0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
OU2MW-03S	20.0 - 25.0	13	0	7	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-03I	35.0 - 40.0	158	219	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-03I2	50.0 - 55.0	2	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-04WT	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--

Table 4-8. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Downgradient
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)															
		Sampling Date															
		2010				2011				2012				2013			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
OU2MW-04S	20.0 - 25.0	345	70	89	51	0	0	0	0	0	0	0	0	0	0	0	--
OU2MW-04I	35.0 - 40.0	68	68	17	34	123	121	115	136	118	70	35	32	22	20	5	17
OU2MW-04I2	50.0 - 55.0	63	36	7	0	0	0	0	8	0	0	0	0	0	0	2	--
OU2MW-04D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	0	--
OU2MW-05	25.0 - 35.0	94	137	139	51	30	8	18	11	2	6	0	0	0	0	0	--
OU2MW-06S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-06	15.0 - 25.0	0	3	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-07S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-07	15.0 - 25.0	4	53	0	0	0	0	0	0	9	1	0	0	0	0	--	--
OU2MW-09	30.0 - 40.0	0	1	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-10S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-10I	20.0 - 25.0	0	41	529	326	140	192	13	2	0	0	0	3	2	0	0	0
OU2MW-10D	35.0 - 40.0	0	2	65	120	4	0	0	0	0	0	0	--	--	0	--	--
OU2MW-11S	3.0 - 8.0	0	0	0	0	--	0	0	0	2	3	0	--	--	0	--	--
OU2MW-11I	20.0 - 25.0	48	187	55	73	91	27	2	0	0	3	1	0	--	0	--	--
OU2MW-11I2	30.0 - 35.0	10	0	0	24	9	4	8	18	18	3	14	0	0	0	0	12
OU2MW-11D	40.0 - 45.0	26	56	39	1	14	19	92	1	5	87	50	10	5	15	0	0
OU2MW-12S	3.0 - 7.0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
OU2MW-12I	20.0 - 25.0	77	13	35	121	60	5	0	0	0	0	0	0	0	0	0	0
OU2MW-12I2	30.0 - 35.0	0	2	37	3	26	5	0	3	0	0	5	0	0	0	0	0
OU2MW-12D	40.0 - 45.0	0	80	73	49	0	15	16	4	2	0	0	5	3	3	0	0
OU2MW-13S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-13I	20.0 - 25.0	19	8	3	0	2	1	0	0	0	0	0	--	--	0	--	--
OU2MW-13D	35.0 - 40.0	9	10	8	24	10	2	1	0	8	0	3	3	2	0	0	0
OU2MW-14S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-14I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	261	--	194	13	0	31
OU2MW-14I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	1	--	--	0	--	--
OU2MW-15S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-15I	20.0 - 25.0	0	0	73	6	12	83	0	0	0	9	279	18	4	0	0	0
OU2MW-15I2	30.0 - 35.0	0	0	0	184	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-15D	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-16S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-16I	15.0 - 20.0	0	0	0	0	0	0	26	0	0	0	0	0	--	0	--	--
OU2MW-16I2	25.0 - 30.0	0	0	22	0	5	0	0	4	0	0	0	0	1	0	--	--
OU2MW-16D	35.0 - 40.0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	--	--
OU2MW-52S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-52I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-52D	35.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-53S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-53I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	--	0	--	--	--
OU2MW-53D	35.0 - 40.0	2	0	0	0	0	0	0	3	0	0	0	0	0	0	--	--

Table 4-8. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Downgradient
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)															
		Sampling Date															
		2014				2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-03S	3.0 - 13.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03I	30.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03D	52.0 - 62.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07I	30.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07D	55.0 - 65.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25S	4.0 - 14.0	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25I	25.0 - 35.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25D	62.0 - 72.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
GM-05S	5.1 - 20.1	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05I	35.05 - 48.05	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05D	60.95 - 75.95	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08S	6.35-21.35	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08I	29.95-44.95	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08D	48.25-63.25	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
GMP-02	18.0 - 23.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-04	15.5 - 20.5	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2IW-01S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3.0 - 8.0	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I2	50.0 - 55.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20.0 - 25.0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
OU2MW-02I	35.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-02I2	50.0 - 55.0	8	1	2	2	0	0	0	0	0	0	0	0	1.6	1.5	3	2	0
OU2MW-02D	65.0 - 70.0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
OU2MW-03S	20.0 - 25.0	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50.0 - 55.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-8. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Downgradient
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)															
		Sampling Date															
		2014				2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
OU2MW-04S	20.0 - 25.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-04I	35.0 - 40.0	14	6	9	6	4	0	0	12	2	2	3	0	0	0	--	--
OU2MW-04I2	50.0 - 55.0	--	3	--	--	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-04D	65.0 - 70.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25.0 - 35.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-06S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3.0 - 7.0	--	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--
OU2MW-10I	20.0 - 25.0	0	0	--	--	--	1	--	--	--	114	--	--	--	--	--	--
OU2MW-10D	35.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30.0 - 35.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-11D	40.0 - 45.0	0	0	0	0	--	0	--	--	--	1	--	--	--	--	--	--
OU2MW-12S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12D	40.0 - 45.0	13	2	11	10	30	33	1	0	0	0	0	0	0	0	0	0
OU2MW-13S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35.0 - 40.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I	20.0 - 25.0	27	90	0	0	0	0	0	--	--	0	--	--	--	0	--	--
OU2MW-14I2	45.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20.0 - 25.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30.0 - 35.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15.0 - 20.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52S	3.0 - 8.0	--	0	--	--	--	0	0	0	0	--	--	--	--	--	--	--
OU2MW-52I	20.0 - 25.0	--	0	--	--	--	0	0	0	0	--	--	--	--	--	--	--
OU2MW-52D	35.0 - 40.0	--	0	--	--	--	0	0	0	0	--	--	--	--	--	--	--
OU2MW-53S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-8. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Downgradient
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)													Total BTEX Groundwater Concentrations (µg/L)				
		Sampling Date													Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-03S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	393	11	0	393
BBMW-03I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	2	0	0	2
BBMW-03D	52.0 - 62.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	3	0	0	3
BBMW-07S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	241	15	0	241
BBMW-07I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-07D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	25	1	0	25
BBMW-25S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	58	1	0	58
BBMW-25I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,995	416	0	1,995
BBMW-25D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	110	19	0	110
GM-05S	5.1 - 20.1	--	--	--	--	--	--	--	--	--	--	--	--	--	0	422	59	0	422
GM-05I	35.05 - 48.05	--	--	--	--	--	--	--	--	--	--	--	--	--	0	13	0	0	13
GM-05D	60.95 - 75.95	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	4
GM-08S	6.35-21.35	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
GM-08I	29.95-44.95	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
GM-08D	48.25-63.25	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
GMP-01	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,726	517	0	4,726
GMP-02	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,275	344	0	2,275
GMP-04	15.5 - 20.5	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,483	157	0	1,483
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-01S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,243	164	0	1,243
OU2MW-01I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	885	128	0	885
OU2MW-01I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	195	20	0	195
OU2MW-01D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	72	2	0	72
OU2MW-02S	20.0 - 25.0	0	0	1	0	0	0	0	0	0	0	3	0	80	0	573	33	0	573
OU2MW-02I	35.0 - 40.0	0	1.5	0	0	0	0	26	69	20	0	0	0	40	0	645	132	0	645
OU2MW-02I2	50.0 - 55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	1	0	11
OU2MW-02D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	4
OU2MW-03S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,108	103	0	1,108
OU2MW-03I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,262	77	0	1,262
OU2MW-03I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	38	3	0	38
OU2MW-03D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	10	0	0	10

Table 4-8. OU-2 Summary of Historical Total BTEX Groundwater Analytical Results
Downgradient
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)													Total BTEX Groundwater Concentrations (µg/L)				
		Sampling Date													Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	3,130	403	0	3,130
OU2MW-04I	35.0 - 40.0	--	0	--	--	--	--	--	--	--	0	--	--	--	0	885	83	0	885
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	189	11	0	189
OU2MW-04D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	3	0	0	3
OU2MW-05	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3,159	280	0	3,159
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	--	--	0	0	0	0	0	0
OU2MW-06	15.0 - 25.0	--	--	--	--	--	0	0	0	0	0	--	--	0	0	1,085	33	0	1,085
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
OU2MW-07	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	59	8	0	59
OU2MW-09	30.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	1	0	0	1
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	906	93	0	906
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	351	39	0	351
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	--	--	0	0	3	0	0	3
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	0	0	0	0	0	--	--	0	0	356	84	0	356
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	0	0	0	0	0	--	--	0	0	329	35	0	329
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	0	0	0	0	0	--	--	0	0	92	13	0	92
OU2MW-12S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
OU2MW-12I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	466	30	0	466
OU2MW-12I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	5	0	58
OU2MW-12D	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	8	0	80
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	29	5	0	29
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	34	8	0	34
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	261	19	0	261
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	795	54	0	795
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	599	48	0	599
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	79	5	0	79
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	84	7	0	84
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	149	7	0	149
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	128	6	0	128
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	3

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-9. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Downgradient
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																	
		Sampling Date																	
		1992	1999		2000	2002			2003			2004				2005			
		Sep	Sep	Oct/Nov	Nov/Dec	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec
BBMW-03S	3.0 - 13.0	--	--	0	--	0	0	--	--	--	--	--	--	0	0	--	--	0	--
BBMW-03I	30.0 - 40.0	--	--	0	--	2	0	--	--	--	--	--	--	0	0	--	--	0	--
BBMW-03D	52.0 - 62.0	--	--	0	--	0	0	--	--	--	--	--	--	--	186	--	--	0	--
BBMW-07S	5.0 - 15.0	--	--	2	--	--	6	0	710	170	62	24	0	0	0	0	--	--	0
BBMW-07I	30.0 - 40.0	--	--	0	--	--	0	0	--	--	--	--	--	--	0	--	--	--	--
BBMW-07D	55.0 - 65.0	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25S	4.0 - 14.0	--	--	--	--	--	22	0	0	0	--	0	--	0	14	0	--	0	0
BBMW-25I	25.0 - 35.0	--	--	--	--	--	7,436	10,185	4,900	4,700	--	4,860	7,761	7,840	3,902	4,937	--	3,621	5,472
BBMW-25D	62.0 - 72.0	--	--	--	--	--	1,553	--	280	1,550	298	135	144	101	588	223	--	390	--
GM-05S	5.1 - 20.1	649	2,453	1,181	505	88	1,286	237	858	230	--	0	0	635	0	312	0	366	0
GM-05I	35.05 - 48.05	0	4	14	0	0	0	0	0	--	--	--	--	51	0	--	--	--	--
GM-05D	60.95 - 75.95	0	0	0	0	0	0	--	--	--	--	--	--	28	--	--	--	--	--
GM-08S	6.35-21.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08I	29.95-44.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08D	48.25-63.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25.0 - 30.0	--	--	--	1,590	2,270	1,336	230	880	270	1,001	421	1,281	266	6,514	2,595	1,241	6,419	10,183
GMP-02	18.0 - 23.0	--	--	--	2,764	4,216	3,447	6,788	3,300	4,000	7,010	3,772	6,967	5,213	5,460	3,008	3,459	8,837	151
GMP-04	15.5 - 20.5	--	--	--	290	1,135	287	113	0	430	44	459	206	235	1,372	601	77	369	1,720
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6,927	--
OU2MW-01I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,507	--
OU2MW-01I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	58	--
OU2MW-01D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-02S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	162	--
OU2MW-02I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,541	--
OU2MW-02I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22	--
OU2MW-02D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15	--
OU2MW-03S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	401	--
OU2MW-03I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	67	--
OU2MW-03I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-03D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,034	--
OU2MW-04I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,444	--
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	375	--
OU2MW-04D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-05	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,711	--
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9,241	--
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	66	--
OU2MW-09	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-9. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Downgradient
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2006				2007				2008				2009			
		Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-03S	3.0 - 13.0	0	0	0	0	283	0	0	0	0	0	1	0	0	0	0	0
BBMW-03I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-03D	52.0 - 62.0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0
BBMW-07S	5.0 - 15.0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
BBMW-07I	30.0 - 40.0	--	--	--	--	--	0	--	0	0	0	0	0	0	0	0	0
BBMW-07D	55.0 - 65.0	--	--	--	--	873	0	--	0	2	0	0	0	0	0	0	0
BBMW-25S	4.0 - 14.0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0
BBMW-25I	25.0 - 35.0	1,560	0	37	488	11	102	457	2	181	48	86	478	741	1,219	105	11
BBMW-25D	62.0 - 72.0	308	179	160	384	0	0	3	1	0	0	59	0	0	0	0	0
GM-05S	5.1 - 20.1	34	0	0	0	0	--	0	13	25	30	7	35	5	19	9	19
GM-05I	35.05 - 48.05	0	--	--	--	0	0	7	0	0	0	0	0	0	0	0	0
GM-05D	60.95 - 75.95	0	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
GM-08S	6.35-21.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08I	29.95-44.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08D	48.25-63.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25.0 - 30.0	9,385	9,261	5,555	3,936	4,019	--	159	4,428	3,967	2,020	778	275	719	1,049	651	175
GMP-02	18.0 - 23.0	0	0	10	11	0	0	0	0	0	0	0	0	0	0	0	0
GMP-04	15.5 - 20.5	41	22	573	232	1,380	52	1,523	1,467	1	0	0	0	0	0	0	0
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	0	0	48	0	0	0	0	0	0	0
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	70	0	0	0	0	0	0	0	0	0	0
OU2MW-01S	20.0 - 25.0	464	457	1,230	104	321	67	2,023	2,000	48	0	0	0	0	1,487	1,953	0
OU2MW-01I	35.0 - 40.0	8,222	3,717	879	495	120	442	90	2,222	15	0	25	4	0	702	109	0
OU2MW-01I2	50.0 - 55.0	1,249	0	0	100	0	488	7	4	0	0	0	0	0	0	0	0
OU2MW-01D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-02S	20.0 - 25.0	311	209	164	424	0	154	155	27	57	96	46	8	33	146	44	0
OU2MW-02I	35.0 - 40.0	3,413	3,609	5,251	3,012	1,943	3,567	1,835	2,947	3,129	43	2,981	151	2,129	1,993	2,385	748
OU2MW-02I2	50.0 - 55.0	11	0	0	0	0	16	0	11	30	1	12	0	6	0	0	0
OU2MW-02D	65.0 - 70.0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	4	0
OU2MW-03S	20.0 - 25.0	339	353	181	379	0	317	201	49	87	61	79	85	80	157	118	142
OU2MW-03I	35.0 - 40.0	0	0	0	49	0	0	0	0	0	7	0	95	146	0	0	6
OU2MW-03I2	50.0 - 55.0	36	16	0	0	0	144	4	1	0	0	0	0	0	0	0	1
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	0	6	3	0	0	0	0	0	0	0
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-04S	20.0 - 25.0	12,611	7,351	10,538	2,774	6,802	8,445	3,794	4,145	2,666	2,936	3,901	334	641	3,565	3,770	3,393
OU2MW-04I	35.0 - 40.0	6,438	3,795	1,107	0	0	332	3,260	547	4,051	0	36	0	98	2	0	10
OU2MW-04I2	50.0 - 55.0	115	101	57	78	0	19	16	2	0	23	0	0	0	1,340	0	4
OU2MW-04D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-05	25.0 - 35.0	8,049	5,125	4,314	4,149	1,980	2,164	247	3,412	491	516	50	456	353	376	735	19
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	0	10	0	0	0	6	0	0	0	0	0
OU2MW-06	15.0 - 25.0	19	0	0	0	0	0	0	3	6	0	0	0	0	0	0	0
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	0	0	7	0	0	0	0	0	0	0	0
OU2MW-07	15.0 - 25.0	69	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0
OU2MW-09	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	0	0	0	0	5	0	0	0	0	0	0
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	4	0	297	201	1	0	2	29	22	3	54
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	0	0	0	0	413	32	727	0	1	49	5
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	0	0	0	2	0	0	4	0	0	0	0
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	1,077	112	3,627	865	1,977	1,030	663	1,323	428	46	1,141
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	426	2,412	52	0	0	275	264	1,011	131	9	193
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	8	7	5	0	0	0	0	9	0	54	69
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	1	0	0	0	0	0	0	0	0	0	0
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	1,646	888	147	268	137	122	79	513	53	123	7
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	224	3	7	30	5	0	0	720	39	15	3
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	108	79	39	44	35	0	0	2	0	0	0
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	33	12	10	1	7	1	15	8	6	7	0
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	13	15	2	1	4	2	0	21	18	31	24
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	2	0	0	0	0	0	0	0
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	261	86	8	34	0	0	0	0	1	219	24
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	0	320	76	0	0	0	0	0	0	0	0
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	0	0	0	0	0	0	2	0	0	0	0
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	22	5	0	0	0	0	0	0	0	0	0
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	4	12	16	1	0	0	0	0	0	0	0
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	0	0	0	102	0	0	0	0	0	0	0
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	101	0	0
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0

Table 4-9. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Downgradient
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2010				2011				2012				2013			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-03S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-03I	30.0 - 40.0	0	0	0	0	0	0	0	2	0	0	0	--	--	0	--	--
BBMW-03D	52.0 - 62.0	0	25	2	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-07S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	5	0	--	--	0	--	--
BBMW-07I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	1	0	--	--	0	--	--
BBMW-07D	55.0 - 65.0	0	0	0	0	0	0	0	0	0	2	0	--	--	0	--	--
BBMW-25S	4.0 - 14.0	0	0	0	0	0	0	0	0	0	1	0	--	--	0	--	--
BBMW-25I	25.0 - 35.0	3	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-25D	62.0 - 72.0	0	8	0	0	0	0	7	54	20	31	0	10	19	1	3	0
GM-05S	5.1 - 20.1	2	0	25	1	0	0	0	0	0	0	0	--	--	0	--	--
GM-05I	35.05 - 48.05	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
GM-05D	60.95 - 75.95	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
GM-08S	6.35-21.35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08I	29.95-44.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08D	48.25-63.25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25.0 - 30.0	1,916	1,228	921	276	720	65	70	15	16	5	12	3	0	2	0	0
GMP-02	18.0 - 23.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
GMP-04	15.5 - 20.5	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2IW-01S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-01WT	3.0 - 8.0	0	0	0	0	0	0	2	0	0	0	0	--	--	0	--	--
OU2MW-01S	20.0 - 25.0	0	0	0	0	0	0	0	0	0	3	0	--	--	0	--	--
OU2MW-01I	35.0 - 40.0	0	0	0	0	0	0	0	0	10	0	0	--	--	0	--	--
OU2MW-01I2	50.0 - 55.0	0	364	0	0	0	0	0	0	0	2	2	--	--	11	--	--
OU2MW-01D	65.0 - 70.0	0	0	135	0	0	0	1	0	0	0	0	--	--	0	--	--
OU2MW-02S	20.0 - 25.0	0	6	0	0	0	1	0	0	0	48	57	0	0	0	0	0
OU2MW-02I	35.0 - 40.0	2,515	1,278	1,232	1,329	733	76	1,764	1,097	1,161	698	926	561	119	38	7	4
OU2MW-02I2	50.0 - 55.0	0	0	0	0	0	0	0	0	0	8	2	3	2	0	23	32
OU2MW-02D	65.0 - 70.0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
OU2MW-03S	20.0 - 25.0	71	20	16	1	3	5	0	3	0	1	0	--	--	0	--	--
OU2MW-03I	35.0 - 40.0	56	61	0	0	0	0	0	0	0	3	0	--	--	0	--	--
OU2MW-03I2	50.0 - 55.0	0	0	0	0	0	0	0	0	0	1	0	--	--	0	--	--
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-04WT	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-04S	20.0 - 25.0	4,529	352	152	170	40	51	17	22	34	10	8	2	1	0	0	--
OU2MW-04I	35.0 - 40.0	241	0	0	252	32	1,789	0	2,047	2,666	1,294	506	152	96	102	53	49
OU2MW-04I2	50.0 - 55.0	536	14	0	0	0	0	0	0	6	0	0	0	3	0	3	--
OU2MW-04D	65.0 - 70.0	0	0	0	0	0	0	0	3	0	0	0	--	--	0	0	--
OU2MW-05	25.0 - 35.0	288	484	335	957	86	33	75	92	30	34	7	2	0	0	0	--
OU2MW-06S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-06	15.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-07S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-07	15.0 - 25.0	0	0	0	0	0	0	0	0	68	3	0	0	0	0	--	--
OU2MW-09	30.0 - 40.0	0	0	0	0	0	0	0	0	0	1	0	--	--	0	--	--
OU2MW-10S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-10I	20.0 - 25.0	12	37	149	597	76	167	57	21	0	12	0	0	10	10	2	2
OU2MW-10D	35.0 - 40.0	0	0	23	22	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-11S	3.0 - 8.0	0	0	0	0	--	0	0	0	0	1	0	--	--	0	--	--
OU2MW-11I	20.0 - 25.0	220	26	125	565	38	16	19	0	0	1	0	0	--	0	--	--
OU2MW-11I2	30.0 - 35.0	6	0	1	27	11	2	55	126	89	18	83	0	0	0	0	49
OU2MW-11D	40.0 - 45.0	40	77	63	0	9	35	842	5	3	1,018	136	45	26	80	3	2
OU2MW-12S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12I	20.0 - 25.0	851	8	11	159	44	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12I2	30.0 - 35.0	2	2	58	9	18	7	0	13	3	10	30	1	7	2	2	0
OU2MW-12D	40.0 - 45.0	0	992	197	141	1	80	112	6	2	0	0	9	6	14	2	0
OU2MW-13S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-13I	20.0 - 25.0	15	36	41	0	7	18	7	0	0	0	0	--	--	0	--	--
OU2MW-13D	35.0 - 40.0	21	15	15	17	14	7	9	0	78	24	73	24	7	0	0	2
OU2MW-14S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	2	0	--	--	0	--	--
OU2MW-14I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	2	14	--	29	16	5	6
OU2MW-14I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-15S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	1	0	--	--	0	--	--
OU2MW-15I	20.0 - 25.0	0	0	33	1	2	4	0	0	0	0	32	53	21	3	2	0
OU2MW-15I2	30.0 - 35.0	0	0	0	77	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-15D	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-16S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-16I	15.0 - 20.0	0	0	0	0	0	0	17	0	0	0	0	0	--	0	--	--
OU2MW-16I2	25.0 - 30.0	0	0	26	0	0	0	0	0	0	1	0	0	0	0	--	--
OU2MW-16D	35.0 - 40.0	0	0	0	0	0	0	0	40	0	1	0	0	0	0	--	--
OU2MW-52S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-52I	20.0 - 25.0	25	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-52D	35.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-53S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-53I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-53D	35.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--

Table 4-9. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Downgradient
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2014				2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-03S	3.0 - 13.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03I	30.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03D	52.0 - 62.0	--	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07I	30.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07D	55.0 - 65.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25S	4.0 - 14.0	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25I	25.0 - 35.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25D	62.0 - 72.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
GM-05S	5.1 - 20.1	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05I	35.05 - 48.05	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05D	60.95 - 75.95	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08S	6.35-21.35	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08I	29.95-44.95	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08D	48.25-63.25	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
GMP-02	18.0 - 23.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-04	15.5 - 20.5	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2IW-01S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3.0 - 8.0	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I2	50.0 - 55.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-02I	35.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-02I2	50.0 - 55.0	17	8	15	9	4	3	5	6	6	6	7	10.8	18	17	24	9
OU2MW-02D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-03S	20.0 - 25.0	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50.0 - 55.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20.0 - 25.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-04I	35.0 - 40.0	13	7	20	16	10	7	9	16	21	15	11	0	0	0	--	--
OU2MW-04I2	50.0 - 55.0	--	2	--	--	--	4	--	--	--	6	--	--	--	--	--	--
OU2MW-04D	65.0 - 70.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25.0 - 35.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-06S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3.0 - 7.0	--	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--
OU2MW-10I	20.0 - 25.0	1	0	--	--	--	7	--	--	--	17	--	--	--	--	--	--
OU2MW-10D	35.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30.0 - 35.0	--	1	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-11D	40.0 - 45.0	0	0	0	0	--	1	--	--	--	0	--	--	--	--	--	--
OU2MW-12S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
OU2MW-12I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12D	40.0 - 45.0	2	0	12	23	17	30	5	1	5	3	0	0	0	0	2	0
OU2MW-13S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35.0 - 40.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I	20.0 - 25.0	6	37	0	0	0	0	0	--	--	0	--	--	--	0	--	--
OU2MW-14I2	45.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20.0 - 25.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30.0 - 35.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15.0 - 20.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52S	3.0 - 8.0	--	0	--	--	--	0	0	0	0	--	--	--	--	--	--	--
OU2MW-52I	20.0 - 25.0	--	0	--	--	--	0	0	0	0	--	--	--	--	--	--	--
OU2MW-52D	35.0 - 40.0	--	0	--	--	--	0	0	0	0	--	--	--	--	--	--	--
OU2MW-53S	3.0 - 8.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-9. OU-2 Summary of Historical Total PAH Groundwater Analytical Results
Downgradient
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)													Total PAH Groundwater Concentrations (µg/L)				
		Sampling Date													Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-03S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	283	8	0	283
BBMW-03I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	2	0	0	2
BBMW-03D	52.0 - 62.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	186	7	0	186
BBMW-07S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	710	24	0	710
BBMW-07I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
BBMW-07D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	873	34	0	873
BBMW-25S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	22	1	0	22
BBMW-25I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	10,185	1,779	0	10,185
BBMW-25D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,553	145	0	1,553
GM-05S	5.1 - 20.1	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,453	190	0	2,453
GM-05I	35.05 - 48.05	--	--	--	--	--	--	--	--	--	--	--	--	--	0	51	2	0	51
GM-05D	60.95 - 75.95	--	--	--	--	--	--	--	--	--	--	--	--	--	0	28	1	0	28
GM-08S	6.35-21.35	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
GM-08I	29.95-44.95	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
GM-08D	48.25-63.25	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
GMP-01	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	10,183	1,836	0	10,183
GMP-02	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8,837	1,555	0	8,837
GMP-04	15.5 - 20.5	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,720	287	0	1,720
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	48	2	0	48
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	70	3	0	70
OU2MW-01S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6,927	569	0	6,927
OU2MW-01I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8,222	752	0	8,222
OU2MW-01I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,249	76	0	1,249
OU2MW-01D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	135	5	0	135
OU2MW-02S	20.0 - 25.0	1	2.2	0	0	0	0	0	0	0	0	0	0	0	0	424	35	0	424
OU2MW-02I	35.0 - 40.0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	5,251	905	0	5,251
OU2MW-02I2	50.0 - 55.0	11	5.7	3	3	2	0	0	0	0	0	0	0	0	0	32	6	0	32
OU2MW-02D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	1	0	17
OU2MW-03S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	401	102	0	401
OU2MW-03I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	146	16	0	146
OU2MW-03I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	144	7	0	144
OU2MW-03D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6	0	0	6
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0	0	0	0
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	12,611	2,488	0	12,611
OU2MW-04I	35.0 - 40.0	--	0	--	--	--	--	--	--	--	0	--	--	--	0	6,438	705	0	6,438
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	1,340	75	0	1,340
OU2MW-04D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	3	0	0	3
OU2MW-05	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8,049	1,164	0	8,049
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	--	--	0	0	10	1	0	10
OU2MW-06	15.0 - 25.0	--	--	--	--	--	0	0	0	0	0	--	--	0	0	9,241	265	0	9,241
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	7	0	0	7
OU2MW-07	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	69	8	0	69
OU2MW-09	30.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	11	0	0	11
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	0	0	5
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	597	58	0	597
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	727	53	0	727
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	--	--	0	0	4	0	0	4
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	0	0	0	0	0	--	--	0	0	3,627	443	0	3,627
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	0	0	0	0	0	--	--	0	0	2,412	154	0	2,412
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	1	0	0	0	0	--	--	0	0	1,018	67	0	1,018
OU2MW-12S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
OU2MW-12I	20.0 - 25.0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1,646	92	0	1,646
OU2MW-12I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720	22	0	720
OU2MW-12D	40.0 - 45.0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	992	36	0	992
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	41	9	0	41
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	78	15	0	78
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	37	4	0	37
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	261	26	0	261
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	320	20	0	320
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	22	2	0	22
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	26	2	0	26
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	102	6	0	102
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	101	6	0	101
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-10. OU-2 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	BBMW-01D	BBMW-01D	BBMW-01D	BBMW-23S	BBMW-23S	DUP-06	BBMW-23S	BBMW-25D	BBMW-25D	BBMW-25D	OU2MW-01I2	OU2MW-02S	OU2MW-02S	OU2MW-02S	OU2MW-02I	OU2MW-02I	OU2MW-02I	DUP-08	OU2MW-02I2	OU2MW-02I2	OU2MW-02I2
			Start Depth	68.5	68.5	68.5	5	5	5	5	62	62	62	50	20	20	20	35	35	35	35	50	50	50
			End Depth	78.5	78.5	78.5	15	15	15	15	72	72	72	55	25	25	25	40	40	40	40	55	55	55
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	12/1/2020	2/10/2021	6/15/2021	12/3/2020	3/3/2021	3/3/2021	6/15/2021	12/8/2020	2/11/2021	5/19/2021	12/8/2020	11/17/2020	2/8/2021	5/18/2021	12/7/2020	2/8/2021	5/18/2021	5/18/2021	12/7/2020	2/8/2021	5/18/2021
			Parent Sample Code						BBMW-23S												OU2MW-02I			
			Validation Level	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**																					
BTEX	µg/L																							
Benzene		71-43-2	1	**0.52 J**	**0.41 J**	**0.72 J**	**0.96 J**	**5.3**	**6.2**	1 U					1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	**0.54 J**	1 U	**2.9**	**9.6**	**10**	**0.98 J**					**2.6**	1 U	**80**	1 U	1 U	**40**	**31**	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	**0.32 J**	**0.3 J**	**300**	**900**	**960**	**140**					1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	**2.2**	**1.8 J**	**270**	**790**	**850**	**95**					2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	**0.52**	**3.47**	**2.82**	**573.86**	**1704.9**	**1826.2**	**235.98**					**2.6**	ND	**80**	ND	ND	**40**	**31**	ND	ND	ND
PAH17	µg/L																							
Acenaphthene		83-32-9	20*	10 U	**91**	10 U	10 U	10 U	10 U	10 U					10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	**1.1 J**	50 U	**0.94 J**	10 U	10 U	10 U	10 U					10 U	10 U	10 U	10 U	10 U	**0.96 J**	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	50 U	10 U	10 U	10 U	10 U	10 U					10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	5 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 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	10 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	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	5 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 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	50 UJ	10 U	10 U	10 U	10 U	10 U					10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	5 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 U	1 U
Chrysene		218-01-9	0.002*	10 U	50 U	2 U	10 U	10 U	10 U	2 U					10 U	10 U	2 U	10 U	10 U	2 U	2 U	10 U	10 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	5 UJ	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 U	1 U
Fluoranthene		206-44-0	50*	10 U	50 U	10 U	10 U	10 U	10 U	10 U					10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	**30 J**	10 U	10 U	10 U	10 U	10 U					10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	10 UJ	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	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	**640**	10 U	10 U	**4.3 J**	**4.6 J**	10 U					10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	**1.3 J**	**790**	**2.5**	**2**	**120**	**120**	2 U					2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	**24 J**	10 U	10 U	10 U	10 U	10 U					10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	50 U	10 U	10 U	10 U	10 U	10 U					10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**2.4**	**1575**	**3.44**	**2**	**124.3**	**124.6**	ND					ND	ND	ND	ND	ND	**0.96**	ND	ND	ND	ND
Other																								
Sulfate	µg/L	14808-79-8	250000								**8700**	**8000**	**9100**	**66800**				**36400**	**71300**	**68900**	**70200**	**255000**	**154000**	**86300**

Table 4-10. OU-2 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-02D	DUP-06	OU2MW-02D	OU2MW-02D	OU2MW-06S	OU2MW-06	OU2MW-11S	OU2MW-11I	OU2MW-11I2	OU2MW-11D	OU2MW-12S	OU2MW-12S	OU2MW-12S	OU2MW-12I	OU2MW-12I	OU2MW-12I	OU2MW-12I2	OU2MW-12I2	OU2MW-12I2	OU2MW-12D	OU2MW-12D
			Start Depth	65	65	65	65	3	15	3	20	30	40	3	3	3	20	20	20	30	30	30	40	40
			End Depth	70	70	70	70	8	25	8	25	35	45	7	7	7	25	25	25	35	35	35	45	45
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	12/7/2020	12/7/2020	2/8/2021	5/18/2021	5/6/2021	5/6/2021	4/7/2021	4/7/2021	4/7/2021	4/7/2021	11/30/2020	2/5/2021	4/5/2021	11/30/2020	2/8/2021	4/5/2021	11/30/2020	2/8/2021	4/5/2021	11/30/2020	2/8/2021
			Parent Sample Code		OU2MW-02D																			
			Validation Level	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**																					
BTEX	µg/L																							
Benzene		71-43-2	1	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	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	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH17	µg/L																							
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	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	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	10 U	10 U	10 U	2 U	2 U	2 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	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	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	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	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other																								
Sulfate	µg/L	14808-79-8	250000	**10800**	**10300**	**5800**	**5300**							**9200**	**10900**	**11000**	**4700 J**	**4400 J**	**4900 J**	5000 U	**4700 J**	**8800**	**4800 J**	**6600**

Table 4-10. OU-2 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-12D	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I2	OU2MW-19I2	OU2MW-19I2	OU2MW-19D	OU2MW-19D	OU2MW-19D	OU2MW-30S	DUP-07	OU2MW-30S	OU2MW-30S	OU2MW-30I	OU2MW-30I	OU2MW-30I	OU2MW-30I2	OU2MW-30I2	OU2MW-30I2	OU2MW-30I3
			Start Depth	40	13	13	13	35	35	35	65	65	65	5	5	5	5	25	25	25	30	30	30	45
			End Depth	45	23	23	23	45	45	45	70	70	70	15	15	15	15	30	30	30	35	35	35	50
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	4/5/2021	12/3/2020	1/20/2021	4/13/2021	12/3/2020	1/20/2021	4/13/2021	12/3/2020	1/20/2021	4/13/2021	12/28/2020	12/28/2020	2/15/2021	6/21/2021	12/28/2020	2/15/2021	6/21/2021	12/28/2020	2/15/2021	6/21/2021	12/28/2020
			Parent Sample Code												OU2MW-30S									
			Validation Level	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**																					
BTEX	µg/L																							
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	**3**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.38 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.32 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**2.3**	**2.3**	**7.2**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	ND	**2.3**	**3.3**	**10.9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH17	µg/L																							
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1.4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1.9 J**	**5.4 J**	**9 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	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	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	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 U	1 U	1 U	1 U	**0.45 J**	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	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	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**26**	**2.3**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	**1.9**	**31.4**	**12.7**	ND	ND	ND	ND	ND	ND	ND	**0.45**	ND	ND	ND
Other																								
Sulfate	µg/L	14808-79-8	250000	**12600**							**93900**	**93600**	**149000**											**20400**

Table 4-10. OU-2 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-30I3	OU2MW-30I3	OU2MW-30D	OU2MW-30D	OU2MW-30D	OU2MW-30D2	OU2MW-30D2	OU2MW-30D2	OU2MW-39S	OU2MW-39S	DUP-05	OU2MW-39S	DUP-05	OU2MW-39I	OU2MW-39I	OU2MW-39I	OU2MW-39I2	OU2MW-39I2	OU2MW-39I2	OU2MW-39D	OU2MW-39D
			Start Depth	45	45	50	50	50	60	60	60	5	5	5	5	5	25	25	25	45	45	45	70	70
			End Depth	50	50	55	55	55	65	65	65	15	15	15	15	15	30	30	30	50	50	50	75	75
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	2/15/2021	6/21/2021	12/28/2020	2/15/2021	6/21/2021	12/28/2020	2/15/2021	6/21/2021	12/1/2020	2/10/2021	2/10/2021	5/6/2021	5/6/2021	12/1/2020	2/9/2021	5/6/2021	12/1/2020	2/10/2021	5/6/2021	12/1/2020	2/10/2021
			Parent Sample Code											OU2MW-39S										
			Validation Level	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4
Analyte	**Units**	**CAS no.**	**NYS AWQS**																					
BTEX	µg/L																							
Benzene		71-43-2	1	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	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	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH17	µg/L																							
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	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	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ
Benzo(a)pyrene		50-32-8	ND	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 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	2 UJ	2 U	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	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	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other																								
Sulfate	µg/L	14808-79-8	250000	**17300**	**15800**	**36400**	**38300**	**41500**	**184000**	**169000**	**204000**													

Table 4-10. OU-2 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-39D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-43D	OU2MW-43D	OU2MW-43D	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47I	OU2MW-47I	OU2MW-47I	OU2MW-47I2	OU2MW-47I2	OU2MW-47I2	OU2MW-47D	OU2MW-47D	OU2MW-47D
			Start Depth	70	60	60	60	65	65	65	5	5	5	20	20	20	40	40	40	60	60	60
			End Depth	75	65	65	65	70	70	70	15	15	15	25	25	25	45	45	45	65	65	65
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	5/6/2021	12/1/2020	2/11/2021	4/6/2021	11/16/2020	1/20/2021	4/6/2021	11/16/2020	2/4/2021	6/9/2021	11/16/2020	2/4/2021	6/9/2021	11/16/2020	2/4/2021	6/9/2021	11/16/2020	2/3/2021	6/9/2021
			Parent Sample Code																			
			Validation Level	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**																			
BTEX	µg/L																					
Benzene		71-43-2	1	1 U	**4**	**2.2**	**1.2**	**6.3**	**7.2**	**4.5**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	**43**	**19**	**19**	**1.2**	**0.69 J**	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	**55**	**22**	**24**	**1.1**	**1.2**	**1.3**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	**290**	**110**	**110**	**22**	**18**	**22**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	**392**	**153.2**	**154.2**	**30.6**	**27.09**	**28.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH17	µg/L																					
Acenaphthene		83-32-9	20*	10 U	100 U	50 U	**2.7 J**	**5.9 J**	**4.4 J**	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	**91 J**	**41 J**	**30**	**63**	**55**	**41 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	100 U	50 U	10 U	50 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	10 U	5 U	1 U	5 U	2 U	5 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
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	20 U	10 U	2 U	10 U	4 U	10 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
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	10 U	5 U	1 U	5 U	2 U	5 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
Benzo(g,h,i)perylene		191-24-2	NE	10 U	100 U	50 U	10 U	50 U	20 U	50 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	10 U	5 U	1 U	5 U	2 U	5 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
Chrysene		218-01-9	0.002*	2 U	100 U	50 U	10 U	50 U	20 U	50 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	10 U	5 U	1 U	5 U	2 U	5 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U
Fluoranthene		206-44-0	50*	10 U	100 U	50 U	10 U	50 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	100 U	50 U	**0.94 J**	50 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	20 U	10 U	2 U	10 U	4 U	10 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	**140**	**59**	**46**	50 U	**1.8 J**	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	**1800**	**780**	**400**	**350**	**270**	**270**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	100 U	50 U	**2.5 J**	**9.9 J**	**9.2 J**	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	100 U	50 U	10 U	50 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	**2031**	**880**	**482.14**	**428.8**	**340.4**	**311**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other																						
Sulfate	µg/L	14808-79-8	250000		**164000**	**145000**	**11300**	**186000**	**167000**	**177000**										**34800**	**28900**	**34900**

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)																							
		Sampling Date																							
		1992	1997		1998			1999				2000				2001				2002					
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May	Sep	Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	85	--	--	--	--	--	--	--	--	--	--	2	--	3	5
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	15	--	--	--	--	--	--	--	--	--	--	2	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-33	7.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	0	--	--	--	--	--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	0	--	--	--	--	--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	0	--	--	--	--	--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-16A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-16B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-18A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-18B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-20A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-20B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01S	4.0 -14.0	0	0	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01D	35.0 - 45.0	0	--	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02S/S-R	2.0 - 12.0	161,000	98,200	90,100	143,200	103,200	103,400	132,000	125,100	295,000	72,100	73,000	73,200	137,000	123,100	--	--	--	--	159,200	149,000	166,500	180,000	134,000	149,600
MW-02I/I-R	22.5 - 23.5	--	--	238,900	1,435	4,201	650	965	144	0	65	199	33	--	--	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	--	35	--	1	--	--	--	--	--	178	--	--	--	--	--	--	--	--	--	24	24	--	3	28
MW-04	5.1 - 15.1	--	1	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	2	--	28	9
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	--	--	--	--	2,130	635	1,355	4,070	6,910	2,547	1,401	2,360	--	1,390	242	4,900	170	489	--	2,410	--	175	101	17
MW-12W	2.0 - 10.0	--	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13W	2.0 - 10.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	--	--	--	79,600	46,190	20,640	1,830	28,980	64,900	3,627	71,900	34,900	55,990	15,370	--	--	3,350	122,600	75,500	59,800	24,550	22,700	45,500	4,424
MW-16I	14.0 - 19.0	--	--	--	24	10	55	1	45	0	0	6	12	0	--	--	--	--	--	--	--	--	2	--	--
MW-17W	2.0 - 10.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	--	--	--	--	--	0	0	--	0	0	0	0	10	0	0	2	0	0	--	--	--	0	0	0
MW-29D	14.0 - 19.0	--	--	--	0	--	0	0	0	0	0	0	0	8	--	--	--	--	--	--	--	--	0	--	--
MW-30W/W-R	2.0 - 9.0	--	11,740	--	--	--	--	--	--	--	--	--	--	--	27,200	16	0	40	6,240	--	77	--	0	104	170
MW-32W/W-R	2.0 - 9.0	--	22,000	--	--	4,020	45,800	18,460	3,620	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-34S	2.0 - 10.0	--	39,100	17,000	--	17,600	49,500	3,910	19,750	34,700	28,400	22,700	9,600	--	8,621	5	3,530	1,500	8	--	71	--	7,440	179	2,142
MW-34I	18.5 - 19.5	--	--	25,600	--	0	3	0	0	0	6	10	3	0	--	--	--	--	--	--	--	--	3,690	--	--
MW-34D	27.5 - 28.5	--	--	16,200	--	35	3	0	1	0	0	15	0	55	--	--	--	--	--	--	--	--	0	--	--
MW-34DD	27.5 - 28.5	--	--	--	--	0	--	--	61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-39W	2.0 - 10.0	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	--	5,500	--	195	--	--	--	--	--	--	--	--	13,230	134	53,700	1,240	24	219	--	--	2,550	7	1	0
MW-46W/W-R	2.0 - 10.0	--	30,000	--	29,900	--	--	--	--	--	--	--	--	57,900	25,300	23,800	17,300	--	--	--	--	--	--	--	21,100
MW-64	19.0 - 24.0	--	--	--	0	0	0	0	0	0	0	25	--	0	0	0	0	--	84	--	--	9	0	0	14
MW-65	11.0 - 16.0	--	--	--	0	--	--	--	--	18	--	31	0	0	0	1	0	51	0	--	--	9	0	0	31
MW-66S	1.5 - 11.5	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-66D	24.0 - 29.0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67S	2.5 - 12.5	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	0	0	1	172	2	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	41,100	8,160	7,920	31	7	0	--	403	--	100	3	5
MW-73	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	29,500	8,990	7,140	9,400	26,600	5,220
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-75	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6,580	4,010	78	45	65,700	82,800	158
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,702	230	37	252	4,560	21
MW-78	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17,400	3,790	2,156	2,840	17,700	1,320
MW-79	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,090	627	74,200	87,100	12,700

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)																							
		Sampling Date																							
		1992	1997		1998			1999				2000				2001				2002					
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May	Sep	Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec
MW-80	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	48,000	635	457	6,220	87,600	387
MW-81	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,449	1,318	28,200	31,600	1,530
MW-82	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,840	1,269	110	26,900	48,300	1,444
MW-83	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	189	120	3	458	1,297	8
MWBS-01S	5.0 - 15.0	--	2	--	--	--	--	--	--	--	151	--	--	--	--	--	--	--	--	--	--	0	--	--	--
MWBS-02S	5.0 - 15.0	--	997	60	0	--	221	264	40	0	5,510	50	0	0	6	4	0	0	0	--	1	--	0	0	0
MWBS-02I	14.5 - 15.5	--	--	13	330	347	341	9,998	608	0	7	12	0	0	4,740	0	59	20	0	--	84	--	0	0	--
MWBS-02D	24.5 - 25.5	--	--	62	0	--	2,450	23	25	0	17,530	0	0	0	--	--	--	--	--	--	--	--	3	--	--
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	694	885	--	307	1,727
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	661	1,340	--	335	599
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	75	141	--	21	46
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I/IP-15A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I/IP-17B	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I2/IP-17A	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I/IP-19A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I2/IP-19B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	30,700	19,700	23,100	--	--	14,500
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	86,100	72,600	67,700	93,600	53,300	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	52	40	2	137	820	2
SV-02I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14,780	203	90	2,110	6,410	4
TMW-1I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-1I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)																		BTEX Groundwater C
		Sampling Date																		Samplin
		2003			2004				2005				2006				2007			
		Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	0	0	0	0	--	--	--	--	0	0	0	0
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	0	0	0	0	--	--	--	--	0	0	0	0
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	0	0	0	4,368	974	134	0	0	0	0	0	0
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
BBMW-33	7.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	--	--	7,580	5,380	83	10	21,100	290	3,627	45	0	0	0	101	2,300	0	0	83
IP-16A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-16B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-18A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-18B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-20A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-20B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01S	4.0 -14.0	--	--	--	--	--	--	0	--	--	--	460	--	0	0	0	0	0	0	0
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
MW-02S/S-R	2.0 - 12.0	99,400	124,800	263,000	149,000	172,400	22,000	427	2,050	13	94	194	945	51	0	68	346	625	1,695	248
MW-02I/I-R	22.5 - 23.5	--	--	63	14	--	--	--	62	--	--	--	0	--	--	--	0	0	0	0
MW-03	4.94 - 14.94	23	85	--	35	51	52	0	22	28	24	27	0	24	28	14	0	0	20	18
MW-04	5.1 - 15.1	0	69	--	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	172	382	16	0	0	0	1,449	30	6,580	1,400	2,071	190	61	0	933	42	110	62	97
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	10,400	27,260	42,700	354	1,320	41,800	317	66,800	65,500	34,600	45,820	42,100	15,000	17,900	18,600	12,250	6,050	15,870	20,770
MW-16I	14.0 - 19.0	--	--	0	0	--	--	--	0	--	--	--	0	--	--	--	0	103	0	59
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-29D	14.0 - 19.0	--	--	--	0	--	--	0	--	--	--	0	--	--	--	--	0	0	0	0
MW-30W/W-R	2.0 - 9.0	--	--	--	--	--	--	--	0	0	10	0	0	106	130	0	0	0	0	0
MW-32W/W-R	2.0 - 9.0	--	2,290	4,832	1,189	2,048	74,400	33,300	8,413	5,171	4,400	9,200	4,565	5,950	5,100	1,502	1,060	567	1,080	9,760
MW-34S	2.0 - 10.0	2,141	34,600	2,827	13,000	13,900	3,364	12,370	5,068	11,700	29,200	3,820	14,600	25,500	9,240	5,760	85	9,750	35,100	19,800
MW-34I	18.5 - 19.5	--	--	--	4,090	--	--	--	1,348	--	--	--	0	--	--	--	0	0	5	934
MW-34D	27.5 - 28.5	--	0	0	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0	0
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	--	8,500	720	1,950	25,000	2,780	11,300	39,300	14,000	19,300	16,100	14,600	2,214	1,720	5,770	3,200	43,400	1,236	1,717
MW-46W/W-R	2.0 - 10.0	35,800	18,800	8,800	43,400	20,800	23,100	22,500	37,100	40,200	42,400	15,760	17,110	7,270	2,750	2,330	1,256	3,810	915	1,400
MW-64	19.0 - 24.0	85,000	0	0	0	0	24	7,650	0	5,651	0	750	19	0	0	0	0	0	0	0
MW-65	11.0 - 16.0	0	0	0	0	0	0	3,852	0	0	0	0	0	0	0	0	0	0	0	0
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	23,800	12	1,170	1,114	6,150	39,400	70	267	45,500	57,000	4,630	4,360	175	277	363	31	268	351	1,577
MW-73	2.0 - 12.0	--	64,000	89,000	34,000	33,000	71,500	27,700	26,700	26,500	52,000	557	8,460	14,520	36,200	15,070	18,700	22,500	15,300	14,000
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-75	2.0 - 12.0	1,260	161,100	110,500	4,060	1,302	34,500	212	1,815	129,200	157,100	17,000	5,389	1,540	3,600	491	580	355	9,420	2,254
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	0	109	136	0	--	0	33	0	170	23	0	27	0	0	0	0	0	4	7
MW-78	5.0 - 20.0	11,960	30,800	42,000	11,800	18,200	13,400	8,400	15,700	21,800	8,700	3,090	5,900	4,710	18,100	4,080	2,320	3,050	2,480	2,270
MW-79	5.0 - 20.0	69,800	101,600	93,700	116,000	82,600	34,820	24,100	32,300	9,800	7,300	588	3,740	3,320	1,220	7,690	13,900	2,840	2,030	542

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)																		BTEX Groundwater C
		Sampling Date																		Samplin
		2003			2004				2005				2006				2007			
		Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec
MW-80	5.0 - 20.0	33,300	88,000	126,000	118,000	96,000	81,400	66,900	132,000	197,000	301,000	38,300	44,000	38,700	6,170	41,100	148,000	26,100	41,000	106,000
MW-81	5.0 - 20.0	12,930	53,600	33,000	63,000	25,000	20,400	35,200	37,800	22,870	29,100	15,660	5,000	9,510	3,499	16,900	65,800	16,100	36,300	61,800
MW-82	5.0 - 20.0	17,910	245,000	46,000	20,280	9,160	30,300	10,400	5,340	25,300	140	58,900	44,200	30,000	43,400	21,800	7,144	14,460	4,338	17,989
MW-83	5.0 - 20.0	62	40	950	0	54	0	1,543	788	980	1,280	142	101	0	5,042	161	41	2,320	6,761	39
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	0	0	0	2,853	323	0	0	22	82	0	0	0	0	0	0	0	0	0	8
MWBS-02I	14.5 - 15.5	0	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MWBS-02D	24.5 - 25.5	0	--	--	0	--	--	--	87	--	--	--	191	--	--	--	0	0	0	0
MW-UST1	2.0 - 12.0	1,033	1,110	1,911	51	2,343	2,700	240	122	660	830	1,083	117	1,270	2,400	944	950	1,250	796	470
MW-UST2	2.0 - 12.0	1,160	2,400	1,854	440	1,812	3,800	1,430	3,117	1,880	2,700	1,410	1,652	1,925	3,011	1,250	960	1,260	1,173	1,686
MW-UST3	2.0 - 12.0	33	79	74	145	320	0	22	247	41	12	0	0	19	0	0	14	0	6	4
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I/IP-15A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I/IP-17B	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I2/IP-17A	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I/IP-19A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I2/IP-19B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	1,400	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70,920
PDMW-02	5.0 - 20.0	--	68,000	74,000	115,900	117,600	82,000	83,000	90,000	60,300	37,300	100,000	19,500	85,100	67,500	98,000	62,700	79,700	68,020	84,400
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	127	73,800	92,300	0	0	0	0	0	26,900	24,900	25,500	1,600	32	27,400	42	0	0	26,000	0
SV-02I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	5,870	9,810	23,100	33,200	11,600	615	4,400	936	5,509	249	2,702	570	257	831	116	65	207	185	341
TMW-1I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-1I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	oncentrations (µg/L)								BTEX Groundwater Concentrations (µg/L)											
		g Date								Sampling Date											
		2008				2009				2010				2011				2012			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Aug-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--
BBMW-09I	30.0 - 40.0	0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--
BBMW-09D	62.0 - 72.0	0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--
BBMW-28S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	0	0	0	0	0
BBMW-28I	10.0 - 20.0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	--	0	0	0	0	0
BBMW-29	2.0 - 9.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	15	0
BBMW-30S	2.0 - 10.0	0	--	--	--	0	--	--	0	0	0	0	0	0	0	0	0	0	0	0	--
BBMW-30I	14.0 - 19.0	0	--	--	--	0	--	--	0	0	0	0	0	0	0	0	0	0	0	0	--
BBMW-30D	30.0 - 35.0	0	--	--	--	0	--	--	0	0	0	0	0	0	0	0	0	0	0	2	--
BBMW-31S	2.0 - 10.0	0	--	--	--	2	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-31I	14.0 - 19.0	0	--	--	--	3	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-31D	30.0 - 35.0	0	--	--	--	3	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-32S	2.0 - 10.0	0	--	--	--	0	--	--	0	0	0	0	0	0	0	0	0	0	0	0	--
BBMW-32I	14.0 - 19.0	0	--	--	--	0	--	--	0	0	0	0	0	0	0	0	0	0	0	0	--
BBMW-32D	30.0 - 35.0	0	--	--	--	0	--	--	0	0	0	2	0	0	0	0	0	0	0	0	--
BBMW-33	7.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	0	0	0	0	0
BW-UST-10	5.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--
BW-UST-11	5.0 - 10.0	1	0	0	-	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--
BW-UST-28	5.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--
BW-UST-29	5.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	0	73	0	0	0	0	0	0	0	0	1,275	82	17,660	11,855	13,120	9,050	4,578	5,794	0	0
IP-16A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-16B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-18A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-18B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-20A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-20B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01S	4.0 -14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--
MW-01D	35.0 - 45.0	0	--	--	--	0	0	0	--	0	--	--	--	0	--	--	--	0	--	--	--
MW-02S/S-R	2.0 - 12.0	27	1	16	47	812	64	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02I/I-R	22.5 - 23.5	0	0	3	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	5	5	9	11	6	14	16	18	14	14	12	3	3	--	--	--	0	--	--	--
MW-04	5.1 - 15.1	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--
MW-11W	2.0 - 10.0	95	77	35	8	0	0	27	0	0	0	0	0	0	10	33	52	13	585	1,534	428
MW-12W	2.0 - 10.0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4	488	18	0
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	--	0	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	36,270	11,710	5,840	14,280	3,275	4,192	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16I	14.0 - 19.0	84	17	0	4	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--
MW-26D	14.0 - 19.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	0	--	--	--	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--
MW-29D	14.0 - 19.0	0	--	--	--	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--
MW-30W/W-R	2.0 - 9.0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	30	26	0	--
MW-32W/W-R	2.0 - 9.0	2,040	57	0	29	232	91	277	2	120	0	0	0	0	62	1,548	795	8	25	10	156
MW-34S	2.0 - 10.0	7,750	25,870	5,638	9,100	3,636	2,310	57	2	16	80	4,080	1,666	179	225	11,830	5,930	4,310	1,737	227	126
MW-34I	18.5 - 19.5	35	0	0	0	0	0	0	0	0	0	222	0	1,240	4,970	6,421	7,177	11,070	4,165	80	58
MW-34D	27.5 - 28.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,773	2,357	236	1,747	203	1
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	0
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
MW-45W	2.0 - 10.0	3,600	5,690	242	142	4,210	15,700	1,737	15	323	1,075	1	0	14	0	0	0	36	0	0	0
MW-46W/W-R	2.0 - 10.0	8,130	1,664	3,471	1,231	525	1,510	811	559	431	1,135	954	549	2,335	1,835	1,152	184	270	1,187	9	3
MW-64	19.0 - 24.0	0	0	0	0	0	0	0	0	0	0	2,270	13,530	18,020	23,140	21,050	3,698	5,704	12,929	25,962	6,549
MW-65	11.0 - 16.0	4	0	0	7	0	0	0	0	0	0	0	5	0	0	0	5,639	2,324	564	557	328
MW-66S	1.5 - 11.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--
MW-66D	24.0 - 29.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--
MW-67D	24 - 29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	11,590	7,750	10,910	675	1,124	621	410	57	169	353	754	1,546	1,107	9,700	7,580	4,096	5,120	1,908	1,735	38
MW-73	2.0 - 12.0	12,800	5,970	9,800	5,380	7,100	62,600	45,100	7,400	8,970	12,000	612	258	863	3,560	1,225	2,276	581	3,610	1,128	1,338
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8,350	1,760	1,200	1,590	1,325	1,098
MW-75	2.0 - 12.0	268	1,802	77,440	1,181	569	7,290	68,310	935	1,375	608	50,410	4,707	5	7	12,710	468	32	72	6,990	3,420
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,370	5,821	20,409	990	2,012	1,652
MW-76	2.0 - 12.0	2	0	1	0	0	0	0	0	0	2	0	0	1	0	0	112	0	0	0	0
MW-78	5.0 - 20.0	54	167	449	312	2,590	2,140	3,370	599	650	--	4,890	4,650	210	1,380	583	3,010	4,390	4,280	25,300	8,900
MW-79	5.0 - 20.0	3,160	32	3,110	2,060	10,100	189	893	6,780	1,020	4,290	274	23,000	1,200	1,310	9,750	2,280	9,580	9,930	14,900	8,040

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
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Bay Shore, NY

Well ID	Screen Interval (feet bgs)	oncentrations (µg/L)								BTEX Groundwater Concentrations (µg/L)											
		g Date								Sampling Date											
		2008				2009				2010				2011				2012			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Aug-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
MW-80	5.0 - 20.0	3,220	18,700	52,300	90,400	55,200	34,500	8,750	20,100	3,750	11,260	20,090	10,780	2,820	2,330	11,320	2,470	5,270	12,980	5,250	4,450
MW-81	5.0 - 20.0	8,690	1,080	18,840	5,020	257	152	607	25,120	6,120	7,730	24,400	5,700	1,187	2,298	3,050	3,240	2,225	7,390	7,852	7,158
MW-82	5.0 - 20.0	1,164	2,254	6,942	19,071	6,151	403	1,822	4,140	4,260	18,100	1,890	5,410	655	55	1,743	508	1,487	1,196	259	1,609
MW-83	5.0 - 20.0	36	0	687	2,145	0	0	66	0	0	4	10	2,387	11	16	155	2,339	1,992	662	186	281
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	0	0	0	0	98	0	268	103	939	56	115	3	0	11	4	120	177	28	12	1
MWBS-02I	14.5 - 15.5	0	0	17	0	0	3	30	14	4	107	83	0	2	4	1	34	43	80	376	3
MWBS-02D	24.5 - 25.5	17	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	2,971	414	71
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	43	0	0	8
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	0	0	5	0	0	0	0	0	0	0	0	0	0	0
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	0	0	0	0	0	0	0	3	0	0	0	0	0	0
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	58	0	0	15	0	0	542	224	698	8,690	665	530	81	89
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	0	0	4	132	0	0	2,463	1,480	5,630	769	138	285	1,621	21
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	37	114	0	0	7	0	21	2	0	18	0	4	0	0
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	187	0	0	336	208	0	0	108	541	115	0	0	0	0
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	152	15,384	2,837	939	3,001	1,665
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	6	770	400
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	1	0
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	0	0	0	0	0	246	75	0	0	0	0	72	39
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	0	0	0	0	7	0	0	11	0	0	32	0	0	0
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	3,461	39	8	251	179	108	0	0	0	23	0	0
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	0	0	0	0	4,040	326	61	38	0	850	57	1,121
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	3,267	10,427	3,520	1,416	7,366	2,502	37	20
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12,187	107	12	3
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
OU3MW-08S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	5,200	5,730	4,530	4,940	1,970	2,330	2,260	1,321	966
OU3MW-08I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	2	0	--
OU3MW-09S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	2,002	407	365	287	79	37	56	59	115
OU3MW-09I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	38,700	31,840	20,390	22,230	23,690	5,920	1,948	2,441	3,497
OU3MW-09I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	46	27	18	73	27
OU3MW-10S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	4,614	3,084	958	492	251	113	143	42	40
OU3MW-10I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	8	0	0	1	63	201	440	712	303
OU3MW-11S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	8	0	0	--
OU3MW-11I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	1	0	0	0	0	0	0	0	--
OU3MW-12S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	5	0	0	--
OU3MW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	--
OU3MW-13S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,490	2,730	21,000	2,700	3,940	21,000
OU3MW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	34,200	31,100	23,600	27,800	20,100	23,100
OU3MW-15S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,598	1,444	204	412	1,847	2,254
OU3MW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	43	898	769	846	259	164
OU3MW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I/IP-15A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I/IP-17B	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I2/IP-17A	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I/IP-19A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I2/IP-19B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	0	0	0	0	0	0	--	0	0	0	0	0	0	18	0	0	2	0	0	--
PDMW-02	5.0 - 20.0	70,570	65,260	51,400	73,810	59,210	46,350	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-03	5.0 - 15.0	--	--	45,561	27,913	14,511	27,515	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	0	0	0	0	26	1	34,300	4	0	212	32,000	27	0	0	17	20	114	0	767	1
SV-02I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12,120	1,562	1,035	8,568	6,944	25,765
SV-02I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	2	62	47	1
SV-03	2.0 - 12.0	105	477	60	56	29	10	5	8	0	0	5	144	3	7	10	3	73	536	21	5
TMW-1I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-1I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)																			
		Sampling Date																			
		2013				2014				2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
BBMW-28I	10.0 - 20.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
BBMW-29	2.0 - 9.0	1	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
BBMW-30S	2.0 - 10.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-33	7.0 - 12.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	0	0	0	3	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
IP-16A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	664	29	0	0	0	72	0	0	0	0	0
IP-16B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	43	201	20	0	18	0	0	0	6	0	--
IP-18A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	3,660	0	0	0	0	0	0	--	0	--	--
IP-18B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	3	167	12	0	0	3	0	0	0	--	--
IP-20A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	1,580	126	10	62	4,846	159	0	0	247	24	2
IP-20B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	2,511	654	0	271	69	0	0	87	76	0	0
MW-01S	4.0 -14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02S/S-R	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02I/I-R	22.5 - 23.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04	5.1 - 15.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	2	4	0	--	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-12W	2.0 - 10.0	15	80	0	2	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-13W	2.0 - 10.0	--	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-30W/W-R	2.0 - 9.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-32W/W-R	2.0 - 9.0	2	3	1	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-34S	2.0 - 10.0	1	0	0	1	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-34I	18.5 - 19.5	38	18	13	4	510	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-34D	27.5 - 28.5	2	13	1	14	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-34DD	27.5 - 28.5	--	0	0	0	0	0	0	0	0	0	--	--	--	15	--	--	--	--	0	--
MW-37W	2.0 - 10.0	0	0	21	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-39W	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-45W	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-46W/W-R	2.0 - 10.0	0	0	0	156	0	0	0	0	0	0	--	--	--	11	--	--	--	--	--	--
MW-64	19.0 - 24.0	2,447	1,906	1,593	35	4,811	1,696	50	2,962	310	81	1,511	3	2	88	0	0	54	21	0	0
MW-65	11.0 - 16.0	309	4	151	94	58	12	67	21	9	0	89	8	141	22	--	--	--	--	1	0
MW-66S	1.5 - 11.5	0	0	--	0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--
MW-66D	24.0 - 29.0	0	0	--	0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--
MW-67S	2.5 - 12.5	--	0	--	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-67D	24 - 29	--	0	--	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-68S	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-68D	25.0 - 30.0	20	2	0	0	5	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	4	0	3	9	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-73	2.0 - 12.0	1,109	1,822	315	3	11	0	0	0	200	0	0	0	2	3	0	0	0	0	0	--
MW-73I	22.0 - 27.0	1,147	719	945	4	13	10	0	75	0	0	0	0	0	0	--	--	--	0	--	--
MW-75	2.0 - 12.0	24	173	1,471	7	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-75I	22.0 - 27.0	492	517	335	22	104	12	0	0	0	0	0	--	--	0	--	--	--	0	--	--
MW-76	2.0 - 12.0	0	0	2	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-78	5.0 - 20.0	2,030	18,290	14,250	88	7	0	117	19	29	59	11	0	38	14	0	0	0	26	0	0
MW-79	5.0 - 20.0	3,340	4,260	4,030	25	6	0	0	17	17	0	0	0	3	3	0	0	29	4	0	0

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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)																			
		Sampling Date																			
		2013				2014				2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
MW-80	5.0 - 20.0	5,340	3,080	5,230	50	421	44	203	8	0	930	4,591	4	0	0	42	0	0	0	0	0
MW-81	5.0 - 20.0	251	1,023	1,096	8	6	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-82	5.0 - 20.0	523	461	564	12	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-83	5.0 - 20.0	8	34	61	37	27	25	78	75	0	10	24	43	8	62	--	--	--	--	--	--
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MWBS-02I	14.5 - 15.5	0	1	8	0	0	3	1	0	0	0	--	--	--	0	--	--	--	--	--	--
MWBS-02D	24.5 - 25.5	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	48	2	1	5	2	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	0	2,472	76	627	108	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	0	0	0	0	0	7	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	0	0	0	0	0	6	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	7	7	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	13	4	3	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	0	0	0	3	0	0	0	0	2	0	--	--	--	0	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	115	364	60	0	0	0	0	2	2	0	--	--	--	0	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	0	0	16	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-07I	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-07I2	20.0 - 25.0	19	14	6	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-07I3	25.0 - 30.0	36	5	0	1	0	0	0	0	30	0	0	0	0	0	0	0	0	0	0	0
OU3MW-07I4	35.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	--	0	0	0	0	0	0	0	0
OU3MW-08S	2.0 - 12.0	1,850	165	1,580	1,930	2,240	1,003	710	585	1,176	0	1,368	752	224	261	850	950	446	169	1,710	1,180
OU3MW-08I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0 - 12.0	0	0	15	25	0	0	1	5	11	0	10	2	0	0	0	0	0	0	--	--
OU3MW-09I	25.0 - 30.0	915	2,080	428	333	588	346	313	1,045	2,063	1,070	2,790	3,180	1,089	4,180	3,820	3,579	3,162	2,481	2,520	3,250
OU3MW-09I2	35.0 - 40.0	16	70	9	14	6	10	7	8	6	3	0	--	--	0	--	--	--	9	--	--
OU3MW-10S	2.0 - 12.0	0	0	6	6	0	1	--	--	--	--	--	--	--	--	--	--	--	0	--	--
OU3MW-10I	25.0 - 30.0	469	580	314	326	574	642	113	112	388	900	106	54	217	--	104	55	54	101	41	21
OU3MW-11S	2.0 - 12.0	--	0	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0 - 12.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0 - 12.0	6,100	12,120	537	4	277	810	1	15	1,370	168	0	8	4	0	0	203	0	0	0	3
OU3MW-14S	2.0 - 12.0	21,500	19,600	18,200	14	9	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-15S	2.0 - 12.0	51	184	881	21	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-16S	2.0 - 12.0	1,128	219	161	18	200	180	648	1,129	980	158	36	1,187	789	910	619	631	162	681	72	506
OU3MW-17S	2.0 - 12.0	--	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-17I	15.0 - 20.0	--	0	0	0	0	7	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-17I2	25.0 - 30.0	--	2	0	0	0	5	0	0	2	0	--	--	--	0	--	--	--	--	--	--
OU3MW-18I	15.0 - 20.0	--	55	4	5	0	2	0	2	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-18I2	25.0 - 30.0	--	5	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-19S	2.0 - 12.0	--	--	6,350	5,560	4,410	--	1,990	83	403	484	323	47	52	95	28	12	34	29	9	0
OU3MW-19I	20.0 - 25.0	--	--	106	502	0	--	0	74	427	142	0	0	0	0	0	0	0	13	0	0
OU3MW-19I2	30.0 - 35.0	--	--	0	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-20S	2.0 - 12.0	--	--	85	82	3	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-20I	20.0 - 25.0	--	--	431	551	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-20I2	30.0 - 35.0	--	--	0	9	0	0	134	2	0	0	0	0	0	0	0	0	0	0	4	0
OU3MW-21S	2.0 - 12.0	--	--	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-21I	15.0 - 20.0	--	--	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-21I2	25.0 - 30.0	--	--	0	11	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-22I/IP-15A	10.0 - 15.0	--	--	--	30,200	32,200	--	--	--	--	16,000	950	33	0	0	0	0	16	1	--	--
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	0	480	--	--	--	--	43	13	0	0	0	0	0	--	0	--	--
OU3MW-23I/IP-17B	10.0 - 15.0	--	--	--	16,900	16,000	--	--	--	--	15,600	3,040	3,768	226	473	379	152	161	17	18	122
OU3MW-23I2/IP-17A	25.0 - 30.0	--	--	--	2,210	1,960	--	--	--	--	1,200	144	635	0	0	32	0	0	0	68	0
OU3MW-24I/IP-19A	10.0 - 15.0	--	--	--	3,530	2,145	--	--	--	--	3,340	1,139	3	85	68	24	28	14	0	1	20
OU3MW-24I2/IP-19B	25.0 - 30.0	--	--	--	5,821	20,120	--	--	--	--	2,811	8,520	126	202	19	1,199	0	152	26	0	0
PDMW-01	5.0 - 20.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	0	0	0	7	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
SV-02I	22.0 - 27.0	1,407	294	147	32	0	6	1,413	270	0	1	271	0	0	0	0	0	0	--	--	0
SV-02I2	35.0 - 40.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	0	--	--
SV-03	2.0 - 12.0	17	0	4	3	0	0	4	0	0	1	--	--	--	0	--	--	--	--	--	--
TMW-1I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-1I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)													BTEX Groundwater Concentrations (µg/L)				
		Sampling Date													Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	85	3	3	3
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	15	2	2	2
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	10	0	0	0
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,368	128	128	128
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0
BBMW-33	7.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
IO-10	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	21,100	2,215	2,215	2,215
IP-16A	14.0 - 15.0	--	0	--	--	--	50	--	0	0	0	0	0	0	0	664	45	43	43
IP-16B	24.0 - 25.0	--	1.043	--	--	--	0	--	--	--	--	--	--	--	0	201	24	24	24
IP-18A	14.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	0	3,660	407	407	407
IP-18B	24.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	0	167	19	19	19
IP-20A	14.0 - 15.0	0	1272.7	0	0	0	59	--	0	0	0	0	0	0	0	4,846	381	365	365
IP-20B	24.0 - 25.0	0	0.92	0	--	--	4	--	--	--	278	--	37	6	0	2,511	235	222	222
MW-01S	4.0 -14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	460	17	17	17
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-02S/S-R	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	295,000	77,916	77,916	77,916
MW-02I/I-R	22.5 - 23.5	--	--	--	--	--	--	--	--	--	--	--	--	--	0	238,900	10,281	10,281	10,281
MW-03	4.94 - 14.94	--	--	--	--	--	--	--	--	--	--	--	--	--	0	178	22	22	22
MW-04	5.1 - 15.1	--	--	--	--	--	--	--	--	--	--	--	--	--	0	69	3	3	3
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-11W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6,910	724	724	724
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	488	16	16	16
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	55	55	55	55	55
MW-16SR	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	317	122,600	30,530	30,530	30,530
MW-16I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	103	17	17	17
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-29S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	10	0	0	0
MW-29D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8	0	0	0
MW-30W/W-R	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	27,200	883	883	883
MW-32W/W-R	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	74,400	5,078	5,078	5,078
MW-34S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	49,500	8,730	8,730	8,730
MW-34I	18.5 - 19.5	--	--	--	--	--	--	--	--	--	--	--	--	--	0	25,600	1,463	1,463	1,463
MW-34D	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--	0	16,200	444	444	444
MW-34DD	27.5 - 28.5	--	0	--	--	--	--	--	--	--	--	--	--	--	0	61	5	5	5
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	21	1	1	1
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-45W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	53,700	5,285	5,285	5,285
MW-46W/W-R	2.0 - 10.0	--	0	--	--	--	--	--	--	--	--	--	--	--	0	57,900	9,981	9,981	9,981
MW-64	19.0 - 24.0	4	1.96	4	966	0	0	0	1,602	3	10	246	4	0	0	85,000	2,869	2,837	2,837
MW-65	11.0 - 16.0	--	0	--	4	0	7	47	1	12	0	0	0	213	0	5,639	183	184	184
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-67D	24 - 29	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	172	11	11	11
MW-70/70S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	57,000	5,192	5,192	5,192
MW-73	2.0 - 12.0	--	0	--	--	--	2	--	--	--	--	--	--	--	0	89,000	13,117	13,117	13,117
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8,350	868	868	868
MW-75	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	161,100	18,269	18,269	18,269
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	20,409	1,881	1,881	1,881
MW-76	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,560	153	153	153
MW-78	5.0 - 20.0	4	8.08	0	--	--	0	--	--	--	0	--	--	--	0	42,000	5,462	5,462	5,462
MW-79	5.0 - 20.0	0	0	0	--	--	0	--	--	--	0	--	--	--	0	116,000	13,163	13,163	13,163

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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)													BTEX Groundwater Concentrations (µg/L)				
		Sampling Date													Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
MW-80	5.0 - 20.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	301,000	33,853	33,853	33,853
MW-81	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	65,800	13,965	13,965	13,965
MW-82	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	245,000	14,582	14,582	14,582
MW-83	5.0 - 20.0	--	--	--	--	0	29	11	3	3	3	2	8	15	0	6,761	506	499	499
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	151	51	51	51
MWBS-02S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,510	177	177	177
MWBS-02I	14.5 - 15.5	--	0	--	--	--	--	--	--	--	--	--	--	--	0	9,998	255	255	255
MWBS-02D	24.5 - 25.5	--	--	--	--	--	--	--	--	--	--	--	--	--	0	17,530	477	477	477
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	51	2,700	1,039	1,039	1,039
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	335	3,800	1,646	1,646	1,646
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	320	56	56	56
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	43	2	2	2
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	0	0	0
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8,690	466	466	466
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,630	633	633	633
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	114	8	8	8
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	541	60	60	60
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	15,384	960	960	960
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	770	80	80	80
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	364	41	41	41
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	32	3	3	3
OU3MW-07S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,461	92	90	90
OU3MW-07I	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,040	148	144	144
OU3MW-07I2	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,427	650	636	636
OU3MW-07I3	25.0 - 30.0	0	0	0	0	1	0	0	0	0	0	15	5	0	0	12,187	344	335	335
OU3MW-07I4	35.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	15	0	0	0
OU3MW-08S	2.0 - 12.0	460	340	1,109	65	1,038	21	42	1,460	1,229	1,289	667	2,530	901	0	5,730	1,430	1,418	1,418
OU3MW-08I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0
OU3MW-09S	2.0 - 12.0	--	0	--	--	--	--	--	--	--	--	--	--	--	0	2,002	124	124	124
OU3MW-09I	25.0 - 30.0	1,244	719.2	2,798	466	645	586	857	1,530	29	31	158	94	68	29	38,700	4,855	4,741	4,741
OU3MW-09I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	73	19	19	19
OU3MW-10S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,614	609	609	609
OU3MW-10I	25.0 - 30.0	353	116.2	14	113	319	16	8	28	388	7	12	154	36	0	900	211	206	206
OU3MW-11S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8	1	1	1
OU3MW-11I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0
OU3MW-12S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1	1	1
OU3MW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-13S	2.0 - 12.0	1	0	2	0	3	0	--	--	--	0	--	--	0	0	21,000	2,257	2,191	2,191
OU3MW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	34,200	12,895	12,895	12,895
OU3MW-15S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,598	582	582	582
OU3MW-16S	2.0 - 12.0	165	180.6	625	173	151	242	212	94	77	49	165	27	7	18	1,187	409	399	399
OU3MW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-17I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	7	1	1	1
OU3MW-17I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1	1	1
OU3MW-18I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	55	7	7	7
OU3MW-18I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1	1	1
OU3MW-19S	2.0 - 12.0	0	5.5	10	8	7	0	12	5	5	4	2	2	3	0	6,350	689	666	666
OU3MW-19I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	502	44	42	42
OU3MW-19I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-20S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	85	6	6	6
OU3MW-20I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	551	33	32	32
OU3MW-20I2	30.0 - 35.0	0	0	774	0	0	0	0	531	8	0	0	0	46	0	774	49	49	49
OU3MW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-21I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-21I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	11	1	1	1
OU3MW-22I/IP-15A	10.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	32,200	6,108	6,108	6,108
OU3MW-22I2/IP-15B	25.0 - 30.0	--	0.75	--	--	--	--	--	--	--	--	--	--	--	0	480	49	49	49
OU3MW-23I/IP-17B	10.0 - 15.0	11	0	3	24	0	0	0	0	0	0	--	--	0	0	16,900	2,474	2,371	2,371
OU3MW-23I2/IP-17A	25.0 - 30.0	0	0	5	0	--	0	--	--	--	0	--	--	--	0	2,210	329	329	329
OU3MW-24I/IP-19A	10.0 - 15.0	34	0.15	1	4	0	0	--	--	--	0	--	--	0	0	3,530	522	497	497
OU3MW-24I2/IP-19B	25.0 - 30.0	144	0	0	176	0	0	0	711	1	9	35	0	1	0	20,120	1,603	1,541	1,541
PDMW-01	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	70,920	3,729	3,729	3,729
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	19,500	117,600	73,549	73,549	73,549
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	14,511	45,561	28,875	28,875	28,875
SV-02	2.0 - 12.0	--	0	--	--	--	--	--	--	--	--	--	--	--	0	92,300	6,556	6,556	6,556
SV-02I	22.0 - 27.0	--	0	--	--	--	--	--	--	--	--	--	--	--	0	25,765	2,393	2,393	2,393
SV-02I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	62	6	6	6
SV-03	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	33,200	2,245	2,245	2,245
TMW-1I	12.0 - 17.0	--	--	--	--	--	--	350	2	5	0	0	1	4	0	350	60	52	52
TMW-1I2	25.0 - 30.0	--	--	--	--	--	--	2,334	538	82	459	1	2	9	1	2,334	569	489	489
TMW-2I	12.0 - 17.0	--	--	--	--	--	--	3	5	3	0	0	--	0	0	5	2	2	2
TMW-2I2	25.0 - 30.0	--	--	--	--	--	--	814	333	251	--	385	11	138	11	814	359	322	322
TMW-3I	12.0 - 17.0	--	--	--	--	--	--	5	42	26	--	18	94	167	5	94	37	59	59
TMW-3I2	25.0 - 30.0	--	--	--	--	--	--	733	26	221	0	0	--	501	0	733	196	247	247

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-12. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																							
		Sampling Date																							
		1992	1997		1998			1999				2000				2001				2002					
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May	Sep	Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	99	--	99	53
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-33	7.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	0	--	--	--	--	--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	0	--	--	--	--	--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	0	--	--	--	--	--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-16A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-16B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-18A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-18B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-20A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-20B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01S	4.0 -14.0	0	0	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01D	35.0 - 45.0	0	--	--	1	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02S/S-R	2.0 - 12.0	4,300	1,941	6,181	9,700	21,640	21,257	1,694	2,238	1,919	1,618	1,530	1,787	1,681	1,620	--	--	--	--	1,595	1,583	1,367	10,830	6,440	2,542
MW-02I/I-R	22.5 - 23.5	--	--	6,478	99	12	11	10	1	0	0	0	53	--	--	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	--	40	--	0	--	--	--	--	--	77	--	--	--	--	--	--	--	--	--	103	85	--	89	50
MW-04	5.1 - 15.1	--	4	--	99	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	90	--	99	--
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	--	--	--	--	861	222	142	298	469	62	290	389	--	178	265	363	159	156	--	246	--	225	145	22
MW-12W	2.0 - 10.0	--	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13W	2.0 - 10.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	--	--	--	15,910	10,500	2,468	696	2,447	2,307	450	1,910	1,173	3,096	1,036	--	--	77	38,045	6,557	3,414	1,558	2,430	6,140	214
MW-16I	14.0 - 19.0	--	--	--	18	0	0	3	0	0	7	0	0	0	--	--	--	--	--	--	--	--	0	--	--
MW-17W	2.0 - 10.0	--	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	--	--	--	--	--	0	0	--	0	516	0	0	2	0	0	0	0	0	--	--	--	0	0	0
MW-29D	14.0 - 19.0	--	--	--	0	--	0	0	0	0	0	0	0	2	--	--	--	--	--	--	--	--	0	--	--
MW-30W/W-R	2.0 - 9.0	--	753	--	--	--	--	--	--	--	--	--	--	--	1,300	228	229	4	125	--	55	--	0	8	2
MW-32W/W-R	2.0 - 9.0	--	322	--	--	730	1,435	810	368	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-34S	2.0 - 10.0	--	333	1,002	--	1,035	1,604	341	1,355	1,157	502	611	381	--	518	130	0	30	1	--	0	--	85	0	22
MW-34I	18.5 - 19.5	--	--	103	--	0	0	2	8	0	0	0	203	0	--	--	--	--	--	--	--	--	22	--	--
MW-34D	27.5 - 28.5	--	--	10	--	0	0	0	2	0	0	0	0	2	--	--	--	--	--	--	--	--	0	--	--
MW-34DD	27.5 - 28.5	--	--	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-39W	2.0 - 10.0	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	--	170	--	330	--	--	--	--	--	--	--	--	781	10	1,676	11	0	6	--	--	52	2	64	0
MW-46W/W-R	2.0 - 10.0	--	1,482	--	4,156	--	--	--	--	--	--	--	--	2,141	228	0	21	--	--	--	--	--	--	--	380
MW-64	19.0 - 24.0	--	--	--	1	0	0	12	3	0	14	0	13	97	0	14	2	--	50	--	--	0	1	9	0
MW-65	11.0 - 16.0	--	--	--	17	--	--	--	--	3	--	9	34	8	13	34	4	--	228	--	--	0	0	0	38
MW-66S	1.5 - 11.5	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-66D	24.0 - 29.0	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67S	2.5 - 12.5	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	1	0	0	3	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	1,720	84	2	1	0	4	--	7	--	4	3	0
MW-73	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,471	223	213	738	1,336	280
MW-73I	22.0-27.0																								
MW-75	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	73	153	93	100	2,553	2,863	58
MW-75I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	142	105	101	116	115	58
MW-78	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,439	371	278	161	735	66
MW-79	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	120	106	6,015	2,911	234

Table 4-12. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																							
		Sampling Date																							
		1992	1997		1998			1999				2000				2001				2002					
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May	Sep	Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec
MW-80	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,511	88	2,316	152	1,426	53
MW-81	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	118	129	2,345	1,382	101
MW-82	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	245	138	83	2,784	3,090	49
MW-83	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	116	98	108	108	180	180
MWBS-01S	5.0 - 15.0	--	2	--	--	--	--	--	--	--	64	--	--	--	--	--	--	--	--	--	--	0	--	--	--
MWBS-02S	5.0 - 15.0	--	167	24	0	--	262	36	5	79	245	274	81	115	105	242	39	2	84	--	164	--	0	0	0
MWBS-02I	14.5 - 15.5	--	--	27	485	696	0	640	8	0	0	11	258	3	261	576	513	122	3	--	4	--	2	8	0
MWBS-02D	24.5 - 25.5	--	--	1	47	--	254	0	0	0	237	0	0	0	--	--	--	--	--	--	--	--	0	--	--
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	247	216	--	112	979
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	263	330	--	101	53
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	92	134	--	105	--
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-14S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I/IP-15A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I/IP-17B	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I2/IP-17A	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I/IP-19A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I2/IP-19B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,538	1,432	1,431	--	--	2,188
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,929	2,181	1,933	5,848	3,250	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	95	112	99	99	186	103
SV-02I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	332	95	108	297	279	49
TMW-1I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-1I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																													
		Sampling Date																													
		2003			2004				2005				2006				2007				2008				2009				2010			
		Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Aug-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	150	--	0	--	0	--	--	--	0	--	--	--	0	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	--	0	--	--	--	0	--	--	--	0	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	0	0	68	0	--	--	--	--	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	0	0	0	0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	0	0	0	170	120	37	0	0	0	252	0	0	0	0	5	0	0	0	0	0	0	0	0	0
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	0	0	0	0
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	--	--	--	0	--	--	3	0	0	0	0
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	0	0	0	0
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	0	0	0	0
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	--	--	--	0	--	--	0	2	0	12	0
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	0	0	0	0
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	1	0	--	--	--	0	--	--	3	0	0	0	1
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	0	0	0	0
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	0	0	0	0
BBMW-33	7.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	69	0	0	0	0	0	0	0	0	0	0	0	0
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	68	0	2	1	0	0	0	0	0	0	0	0	0
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	--	--	786	625	0	0	937	91	350	0	0	0	0	0	100	0	0	18	0	4	0	0	0	0	0	0	0	102	0
IP-16A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-16B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-18A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-18B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-20A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IP-20B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01S	4.0 -14.0	--	--	--	--	--	--	0	--	--	--	0	--	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	0	263	0	0	0	0	0	0	0	--	--	--	0	0	0		0	--	--	--
MW-02S/S-R	2.0 - 12.0	1,800	1,300	1,500	2,400	2060	254	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	--	--
MW-02I/I-R	22.5 - 23.5	--	--	0	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	0	0	0	0	0	--	--	--	--	--	--
MW-03	4.94 - 14.94	0	45	--	26	19	43	19	21	34	40	57	0	28	35	34	35	11	56	0	12	0	0	28	0	0	82	16	0	62	0	0
MW-04	5.1 - 15.1	0	53	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	21	35	11	0	1729	0	110	0	10	0	27	15	18	0	19	0	0	5	1	2	0	0	0	0	0	0	1	0	0	0	0
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	72	590	649	0	0	1,022	2,068	3,500	3,900	3,611	1,280	2,183	1,870	1,056	676	842	232	280	579	922	355	552	104	28	143	--	--	--	--	--	--
MW-16I	14.0 - 19.0	--	--	0	0	--	--	--	57	--	--	--	0	--	--	--	0	44	0	0	0	0	0	0	0	0	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	0	0	0	0	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	0	0	0	0	0	--	--
MW-29D	14.0 - 19.0	--	--	--	0	--	--	0	--	--	--	0	--	--	--	--	0	0	0	0	0	--	--	--	0	0	0	0	0	0	--	--
MW-30W/W-R	2.0 - 9.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-32W/W-R	2.0 - 9.0	--	11	130	0	0	370	877	55	59	0	180	110	89	98	100	97	45	47	105	123	38	12	0	3	6	4	4	0	0	0	0
MW-34S	2.0 - 10.0	27	130	30	160	130	49	210	212	52	67	110	461	397	210	140	150	68	110	402	81	186	51	42	83	105	17	0	15	14	49	702
MW-34I	18.5 - 19.5	--	--	--	496	--	--	--	290	--	--	--	0	--	--	--	0	0	0	124	12	0	0	0	0	0	0	0	0	0	247	0
MW-34D	27.5 - 28.5	--	0	96	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	--	49	38	170	699	65	341	723	180	424	561	895	74	40	233	0	0	10	9	0	0	0	0	10	153	60	0	2	0	1	0
MW-46W/W-R	2.0 - 10.0	690	264	160	647	150	589	443	1,048	972	1,200	1,045	544	50	233	192	37	71	47	74	102	24	0	39	39	60	31	10	19	3	173	168
MW-64	19.0 - 24.0	1,600	0	0	0	0	0	120	0	318	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	3	0	0	0	284	806
MW-65	11.0 - 16.0	0	65	0	37	0	0	502	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	200	18	32	18	46	260	0	0	170	556	57	91	0	11	13	0	0	10	13	39	25	96	22	14	8	13	0	25	2	102	179
MW-73	2.0 - 12.0	--	940	1,557	843	1,470	1,500	1,030	956	829	1,290	1,800	575	669	1,100	545	497	345	495	1,189	444	105	1	0	97	1,308	1,295	480	588	1,169	234	19
MW-73I	22.0-27.0																															
MW-75	2.0 - 12.0	0	1,700	1,490	60	0	387	0	22	1,350	2,890	384	100	56	55	0	0	0	180	47	0	0	1,024	0	1	101	1,667	30	38	0	2,178	435
MW-75I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	--	15	120	0	0	0	0	47	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-78	5.0 - 20.0	550	692	958	585	707	85	22	463	1,160	493	0	445	493	616	0	0	46	40	31	0	0	0	0	0	191	0	0	0	--	0	36
MW-79	5.0 - 20.0	2,000	1,100	1,380	2,000	0	1,200	661	1,400	790	522	104	281	103	41	0	140	0	0	0	90	1	6	0	13	0	0	3	0	0	0	675

Table 4-12. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																													
		Sampling Date																													
		2003			2004				2005				2006				2007				2008				2009				2010			
		Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Aug-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
MW-80	5.0 - 20.0	1,100	1,178	1,700	2,500	1,600	1,390	1,370	2,400	2,200	2,300	1,080	1,200	694	258	1,480	831	601	884	1,173	277	509	790	701	522	568	79	467	11	321	841	677
MW-81	5.0 - 20.0	780	2,100	1,611	1,714	696	1,112	1,100	1,700	100	1,210	434	487	274	2,700	807	1,068	448	1,130	1,508	480	0	50	4	19	0	0	1,306	59	697	547	236
MW-82	5.0 - 20.0	390	570	810	733	276	19	995	233	358	488	1,571	1,140	837	1,137	150	234	286	127	306	0	1	0	448	0	0	2	72	0	48	33	209
MW-83	5.0 - 20.0	0	14	29	0	0	0	76	140	0	150	25	0	0	230	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	0	18	24	160	75	25	0	150	41	0	0	0	0	0	0	0	0	0	0	0	7	0	0	3	1	7	13	122	45	33	0
MWBS-02I	14.5 - 15.5	0	--	--	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MWBS-02D	24.5 - 25.5	0	--	--	64	--	--	--	0	--	--	--	16	--	--	--	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-UST1	2.0 - 12.0	230	96	344	0	221	520	52	55	260	392	373	140	520	541	260	358	363	239	140	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	140	357	227	0	297	500	353	621	373	361	208	265	457	227	120	155	59	450	550	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	0	14	25	33	0	0	16	26	0	0	0	0	12	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	0	0	0	0	0
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	6	0	0
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19	21	0	0	0	8
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9	0	0	30	44	0
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	10	0
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	527	36	13	5
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	297
OU3MW-08I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-09S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	345
OU3MW-09I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,453
OU3MW-09I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-10S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	417
OU3MW-10I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-11S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-11I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-12S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-12I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-13S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-14S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I/IP-15A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I/IP-17B	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I2/IP-17A	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I/IP-19A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I2/IP-19B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	13,000	0	0	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	1,464	0	0	2	0	0	0	--	0	0	0	0	0
PDMW-02	5.0 - 20.0	--	1,130	1,714	2,300	2,463	1,918	2,316	2,616	2,312	2,716	2,416	2,013	2,420	2,119	3,022	2,716	2,520	1,241	1,976	3,025	2,226	1,934	1,950	2,797	3,206	--	--	--	--	--	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,721	1,619	2,100	2,108	--	--	--	--	--	--
SV-02	2.0 - 12.0	0	430	515	0	0	0	0	0	39	190	324	0	0	35	0	0	0	133	0	0	3	0	0	0	0	669	0	0	0	770	0
SV-02I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	190	280	548	536	272	150	130	80	33	0	0	96	57	0	0	17	0	31	72	17	0	0	0	0	1	0	0	0	0	1
TMW-1I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-1I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																							
		Sampling Date																							
		2011				2012				2013				2014				2015				2016			
		Mar-Apr	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-09S	5.0 - 15.0	1	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09I	30.0 - 40.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09D	62.0 - 72.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28S	2.0 - 12.0	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
BBMW-28I	10.0 - 20.0	0	7	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
BBMW-29	2.0 - 9.0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	--	--	--	0	--	--
BBMW-30S	2.0 - 10.0	0	0	0	0	4	0	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	0	0	0	0	0	1	5	--	0	0	--	--	--	3	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	0	0	0	0	0	0	2	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	--	--	--	0	--	--
BBMW-31I	14.0 - 19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
BBMW-31D	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	--	--	--	0	--	--
BBMW-32S	2.0 - 10.0	0	0	0	0	0	0	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	0	0	0	0	0	0	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	0	0	0	0	0	0	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-33	7.0 - 12.0	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
BW-UST-10	5.0 - 10.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-11	5.0 - 10.0	0	--	--	--	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-28	5.0 - 10.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-29	5.0 - 10.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	992	1,285	682	689	704	876	0	0	0	0	0	4	0	0	0	0	0	0	--	--	--	0	--	--
IP-16A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0	0	0	4	0
IP-16B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	43	2	0	16	0	0
IP-18A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
IP-18B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	12	0
IP-20A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17	0	0	284	5	0
IP-20B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	95	0	220	27	0	0
MW-01S	4.0 -14.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01D	35.0 - 45.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02S/S-R	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02I/I-R	22.5 - 23.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	3	--	--	--	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04	5.1 - 15.1	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08W	5.0 - 10.0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	0	0	0	1	2	8	37	38	3	0	0	--	2	0	0	0	0	0	--	--	--	0	--	--
MW-12W	2.0 - 10.0	0	0	0	0	0	47	0	0	7	52	0	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-13W	2.0 - 10.0	--	0	0		0	--	--	--	--	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29D	14.0 - 19.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-30W/W-R	2.0 - 9.0	0	0	0	0	0	1	0	--	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-32W/W-R	2.0 - 9.0	0	0	29	39	14	3	0	16	0	0	0	0	0	0	0	2	0	0	--	--	--	0	--	--
MW-34S	2.0 - 10.0	112	78	229	179	284	196	120	134	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-34I	18.5 - 19.5	150	234	832	598	869	696	8	23	0	7	1	0	26	0	0	0	0	0	--	--	--	0	--	--
MW-34D	27.5 - 28.5	0	0	306	290	40	281	82	0	0	11	0	37	0	0	0	0	0	0	--	--	--	0	--	--
MW-34DD	27.5 - 28.5	--	--	--	--	0	--	--	0	--	0	0	0	0	0	0	0	0	0	--	--	--	12	--	--
MW-37W	2.0 - 10.0	--	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-39W	2.0 - 10.0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-45W	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-46W/W-R	2.0 - 10.0	195	103	92	51	27	95	3	1	0	0	0	2	0	0	0	0	0	0	--	--	--	11	--	--
MW-64	19.0 - 24.0	1,067	995	1,183	516	500	2,199	2,168	1,134	648	370	267	0	598	193	22	563	39	4	312	0	0	4	0	0
MW-65	11.0 - 16.0	0	0	0	1,415	1,268	299	208	201	76	3	20	57	24	22	23	20	27	1	10	0	14	8	--	--
MW-66S	1.5 - 11.5	0	0	0	0	0	0	0	--	0	0	--	0	0	0	0	0	--	0	--	--	--	0	--	--
MW-66D	24.0 - 29.0	0	0	0	0	0	0	0	--	0	0	--	0	0	0	0	0	--	0	--	--	--	0	--	--
MW-67S	2.5 - 12.5	--	--	--	--	0	--	--	--	--	0	--	0	0	0	0	0	1	0	--	--	--	0	--	--
MW-67D	24 - 29 ft	--	--	--	--	0	--	--	--	--	0	--	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-70/70S	2.0 - 12.0	182	222	319	257	295	243	264	40	1	0	0	1	0	0	0	0	0	0	--	--	--	0	--	--
MW-73	2.0 - 12.0	37	190	175	171	16	183	123	89	31	92	5	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-73I	22.0-27.0	--	--	698	131	96	134	120	130	80	95	124	0	0	0	0	2	0	0	0	0	0	0	--	--
MW-75	2.0 - 12.0	0	0	765	10	0	0	395	114	1	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-75I	22.0-27.0	--	--	656	656	3,289	469	670	837	230	105	176	8	10	3	0	0	0	0	0	--	--	0	--	--
MW-76	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-78	5.0 - 20.0	58	0	37	155	264	1	527	476	176	744	743	4	0	0	3	0	0	0	0	0	0	0	0	0
MW-79	5.0 - 20.0	32	0	623	6	443	5	1,206	838	246	894	474	0	2	0	0	0	0	0	0	0	0	0	0	0

Table 4-12. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
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National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																							
		Sampling Date																							
		2011				2012				2013				2014				2015				2016			
		Mar-Apr	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
MW-80	5.0 - 20.0	215	0	640	14	79	487	229	275	223	121	188	0	11	0	24	0	0	6	56	0	0	0	0	0
MW-81	5.0 - 20.0	86	0	463	5	126	563	850	784	27	107	205	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-82	5.0 - 20.0	50	0	326	182	522	319	0	341	74	74	180	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-83	5.0 - 20.0	11	7	23	0	242	249	5	78	0	6	0	0	7	3	7	24	0	0	2	5	0	8	--	--
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	0	0	0	0	88	31	2	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
MWBS-02I	14.5 - 15.5	0	0	0	0	5	5	14	14	0	0	0	8	0	0	0	0	0	15	--	--	--	0	--	--
MWBS-02D	24.5 - 25.5	0	0	0	0	0	174	160	3	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-02S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-02I	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-03S	1.0 - 11.0	34	160	17	100	110	35	28	12	19	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-03I	20.0 - 25.0	40	57	368	33	13	28	252	21	0	611	5	209	1	0	0	0	0	0	--	--	--	0	--	--
OU3MW-04S	1.0 - 11.0	69	25	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-04I	16.0 - 21.0	0	2	24	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-04D	26.0 - 31.0	0	0	32	690	297	134	804	402	0	26	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	0	6	195	126	0	1	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-05S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	--	--	--	0	--	--
OU3MW-05I	15.0 - 20.0	6	12	0	0	0	0	3	7	10	156	29	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-06	3.0 - 13.0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-07S	3.0 - 13.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-07I	15.0 - 20.0	73	21	0	0	0	77	1	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-07I2	20.0 - 25.0	91	654	695	257	1,020	517	6	5	1	1	79	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-07I3	25.0 - 30.0	--	--	--	--	1,800	0	3	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0
OU3MW-07I4	35.0 - 40.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	0	0	0	0
OU3MW-08S	2.0-12.0	449	0	855	0	376	360	206	153	397	28	285	468	383	247	217	155	227	0	194	195	61	71	323	123
OU3MW-08I	25.0-30.0	0	0	0	0	0	2	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0-12.0	0	0	61	3	0	0	4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-09I	25.0-30.0	1,528	1,207	1,765	1,973	1,263	331	259	525	267	283	184	121	123	55	101	154	308	60	121	184	57	256	135	150
OU3MW-09I2	35.0-40.0	--	--	0	2	3	2	4	2	2	9	2	2	1	1	0	1	2	1	0	--	--	0	--	--
OU3MW-10S	2.0-12.0	240	225	123	0	42	51	16	3	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
OU3MW-10I	25.0-30.0	0	0	0	30	116	28	85	79	0	120	121	105	97	132	44	48	102	62	29	12	56	--	14	3
OU3MW-11S	2.0-12.0	0	0	0	0	2	0	0	--	--	0	--	--	--	4	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0-30.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0-12.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0-30.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0-12.0	--	--	117	55	1,244	13	268	720	600	662	262	0	0	89	0	0	77	5	0	0	0	0	0	22
OU3MW-14S	2.0-12.0	--	--	785	579	641	660	612	661	413	380	778	3	2	0	0	0	0	0	--	--	--	0	--	--
OU3MW-15S	2.0-12.0	--	--	377	113	19	0	277	260	4	12	282	3	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-16S	2.0-12.0	--	--	9	110	140	220	191	120	263	161	0	8	61	94	334	486	204	45	8	211	142	261	122	55
OU3MW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-17I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-17I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-18I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	52	2	1	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-18I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	3	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	640	1,004	308	--	716	27	48	73	59	29	20	33	11	0
OU3MW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	17	61	0	--	0	4	17	2	0	0	0	0	0	0
OU3MW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0	0	0	0	0	0	0	0	0
OU3MW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	23	11	1	2	4	11	0	0	6	0	0	0	1	0
OU3MW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	310	421	3	0	0	0	0	0	0	0	0	0	0	0
OU3MW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	0	6	0	0	102	2	0	0	0	0	0	0	0	0
OU3MW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-21I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-21I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	0	14	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-22I/IP-15A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	379	22	0	0	0	0	0
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	0	0	0	0	0	0
OU3MW-23I/IP-17B	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	388	42	179	19	36	63	4
OU3MW-23I2/IP-17A	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	132	21	12	0	--	0	0
OU3MW-24I/IP-19A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	165	1	1	3	2	1	0
OU3MW-24I2/IP-19B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	300	255	0	16	0	18	0
PDMW-01	5.0 - 20.0	0	4	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	0	0	6	1	1	0	9	0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	--	--
SV-02I	22.0-27.0	--	--	1,075	133	104	618	626	1,688	386	68	51	3	0	0	109	23	0	0	6	1	0	0	0	0
SV-02I2	35.0-40.0	--	--	0	0	0	5	5	0	0	0	0	0	0	0	0	0	0	6	--	--	--	0	--	--
SV-03	2.0 - 12.0	0	0	0	6	11	17	39	8	6	1	6	5	0	0	1	3	0	0	--	--	--	0	--	--
TMW-1I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-1I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																	Total PAH Groundwater Concentrations (µg/L)				
		Sampling Date																	Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2017				2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	99	7	7	7
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	150	17	17	17
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	68	2	2	2
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	7	0	0	0
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	252	14	14	14
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	0
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1	1	1
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	12	1	1	1
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-33	7.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	69	4	4	4
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	68	5	5	5
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
IO-10	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,285	175	175	175
IP-16A	14.0 - 15.0	0	0	0	0	--	0	--	--	--	0	--	0	0	0	0	0	0	0	4	0	0	0
IP-16B	24.0 -25.0	0	5	0	--	--	6.3	--	--	--	0	--	0	--	--	--	--	--	0	43	6	6	6
IP-18A	14.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
IP-18B	24.0 -25.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	12	1	1	1
IP-20A	14.0 - 15.0	0	2	0	0	0	64	0	0	0	0	--	0	0	0	0	0	0	0	284	18	17	17
IP-20B	24.0 -25.0	26	41	0	0	0	2.6	0	--	--	0	--	--	--	93	--	1	0	0	220	32	30	30
MW-01S	4.0 -14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	263	16	16	16
MW-02S/S-R	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	21,640	2,517	2,517	2,517
MW-02I/I-R	22.5 - 23.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6,478	278	278	278
MW-03	4.94 - 14.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	103	30	30	30
MW-04	5.1 - 15.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	99	9	9	9
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-11W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	861	75	75	75
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	52	3	3	3
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	3	3	3	3
MW-16SR	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	38,045	2,885	2,885	2,885
MW-16I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	57	5	5	5
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	11	11	11	11
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	1	1	1
MW-29S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	516	12	12	12
MW-29D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0
MW-30W/W-R	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,300	52	52	52
MW-32W/W-R	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,435	117	117	117
MW-34S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,604	217	217	217
MW-34I	18.5 - 19.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	869	101	101	101
MW-34D	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	306	23	23	23
MW-34DD	27.5 - 28.5	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	12	1	1	1
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-45W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,676	119	119	119
MW-46W/W-R	2.0 - 10.0	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	4,156	312	312	312
MW-64	19.0 - 24.0	15	6	1	0	8	0	11	172	0	0	0	147	0	7	103	0	0	0	2,199	187	185	185
MW-65	11.0 - 16.0	--	--	0	0	--	11	--	0	0	0	4	0	2	0	0	0	3	0	1,415	60	60	60
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0
MW-67D	24 - 29 ft	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0
MW-70/70S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,720	94	94	94
MW-73	2.0 - 12.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	0	1,800	442	442	442
MW-73I	22.0-27.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	698	77	77	77
MW-75	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,890	375	375	375
MW-75I	22.0-27.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3,289	374	374	374
MW-76	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	142	15	15	15
MW-78	5.0 - 20.0	0	2	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	0	1,439	201	201	201
MW-79	5.0 - 20.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	0	6,015	386	386	386

Table 4-12. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																	Total PAH Groundwater Concentrations (µg/L)				
		Sampling Date																	Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2017				2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
MW-80	5.0 - 20.0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	2,500	594	594	594
MW-81	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,700	576	576	576
MW-82	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3,090	356	356	356
MW-83	5.0 - 20.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	249	32	31	31
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	64	22	22	22
MWBS-02S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	274	40	40	40
MWBS-02I	14.5 - 15.5	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	696	53	53	53
MWBS-02D	24.5 - 25.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	254	20	20	20
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	979	289	289	289
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	621	281	281	281
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	134	21	21	21
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	160	21	21	21
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	611	66	66	66
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	69	6	6	6
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	44	5	5	5
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	804	95	95	95
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	195	22	22	22
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	156	9	9	9
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	10	1	1	1
OU3MW-07S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	527	13	13	13
OU3MW-07I	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	6	6	6
OU3MW-07I2	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,020	76	74	74
OU3MW-07I3	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	1,800	50	49	49
OU3MW-07I4	35.0 - 40.0	0	0	0	2	2	0	0	0	0	2	0	0	0	9	0	10	0	0	10	1	1	1
OU3MW-08S	2.0-12.0	121	82	237	47	10	0	0	10	144	0	0	115	7	499	25	10	52	0	855	180	177	177
OU3MW-08I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0
OU3MW-09S	2.0-12.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	345	15	15	15
OU3MW-09I	25.0-30.0	132	214	143	242	204	84.3	224	82	109	88	101	174	71	15	14	0	1	0	1,973	360	351	351
OU3MW-09I2	35.0-40.0	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	9	2	2	2
OU3MW-10S	2.0-12.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	417	70	70	70
OU3MW-10I	25.0-30.0	9	22	4	4	88	14	0	24	73	2	0	2	30	0	0	17	0	0	132	39	38	38
OU3MW-11S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	1	1	1
OU3MW-11I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-12S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-12I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-13S	2.0-12.0	0	0	0	3	0	0	0	0	0	0	--	--	--	0	--	--	0	0	1,244	125	122	122
OU3MW-14S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	785	324	324	324
OU3MW-15S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	377	79	79	79
OU3MW-16S	2.0-12.0	72	121	0	34	11	34	0	98	18	64	35	66	7	51	0	6	0	0	486	102	99	99
OU3MW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-17I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-17I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-18I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	52	6	6	6
OU3MW-18I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0
OU3MW-19S	2.0 - 12.0	7	7	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1,004	103	99	99
OU3MW-19I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	3	3	3
OU3MW-19I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-20S	2.0 - 12.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	2	2	2
OU3MW-20I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	421	24	24	24
OU3MW-20I2	30.0 - 35.0	0	0	4	0	0	0	468	0	0	0	0	167	9	0	0	0	68	0	468	25	27	27
OU3MW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-21I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-21I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	14	2	2	2
OU3MW-22I/IP-15A	10.0 - 15.0	0	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--	0	379	36	36	36
OU3MW-22I2/IP-15B	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0
OU3MW-23I/IP-17B	10.0 - 15.0	29	4	5	28	0	0	2	1	0	0	0	0	0	0	--	--	0	0	388	38	36	36
OU3MW-23I2/IP-17A	25.0 - 30.0	0	0	2	0	0	0	0	0	--	0	--	--	--	0	--	--	--	0	132	10	10	10
OU3MW-24I/IP-19A	10.0 - 15.0	0	0	0	3	0	0	0	0	0	0	--	--	--	0	--	--	0	0	165	10	9	9
OU3MW-24I2/IP-19B	25.0 - 30.0	0	0	0	0	2	0	0	0	0	0	0	66	0	0	0	0	0	0	300	29	27	27
PDMW-01	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	13,000	491	491	491
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,130	5,848	2,421	2,421	2,421
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,619	2,108	1,887	1,887	1,887
SV-02	2.0 - 12.0	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	770	68	68	68
SV-02I	22.0-27.0	0	--	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	0	1,688	196	196	196
SV-02I2	35.0-40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6	1	1	1
SV-03	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	548	67	67	67
TMW-1I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	34	0	0	0	0	0	0	0	34	6	5	5
TMW-1I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	318	11	0	0	0	0	5	0	318	55	48	48
TMW-2I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	--	0	0	0	0	0	0
TMW-2I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	157	64	25	--	101	10	17	10	157	71	62	62
TMW-3I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	0	18	0	--	0	77	14	0	77	19	18	18
TMW-3I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	56	0	21	0	0	--	0	0	56	15	13	13

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-13. OU-3 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

			Operable Unit	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
			Sample Name	IP-16A	IP-16A	IP-16A	IP-20A	IP-20A	IP-20A	IP-20B	IP-20B	MW-64	MW-64	MW-64	MW-65	MW-65	MW-65	MW-83	MW-83	MW-83	OU3MW-07S	OU3MW-07S	OU3MW-07S	OU3MW-07I
			Start Depth	14	14	14	14	14	14	24	24	19	19	19	11	11	11	5	5	5	3	3	3	15
			End Depth	15	15	15	15	15	15	25	25	24	24	24	16	16	16	20	20	20	13	13	13	20
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	12/4/2020	1/5/2021	4/19/2021	12/4/2020	1/5/2021	4/19/2021	2/9/2021	4/19/2021	12/4/2020	2/9/2021	4/19/2021	12/8/2020	2/9/2021	4/13/2021	12/8/2020	2/9/2021	6/16/2021	11/5/2020	1/6/2021	4/22/2021	11/5/2020
			Parent Sample Code																					
			Validation Level	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 4	Level 2	Level 4	Level 2	Level 4	Level 2	Level 2	Level 4
Analyte	**Units**	**CAS no.**	**NYS AWQS**																					
BTEX	µg/L																							
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**3.3**	**1.5**	1 U	1 U	1 U	1 U	1 U	1 U	**0.57 J**	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	**0.68 J**	1 U	**2.2**	1 U	1 U	1 U	1 U	**4.9**	**1.7**	1 U	**14**	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	**17**	**0.32 J**	**130**	**1.4**	1 U	1 U	1 U	**88**	1 U	**5.3**	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	2 U	**19**	**5.4**	**110**	**1.1 J**	2 U	2 U	2 U	**120**	2 U	**2.4**	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	**36.68**	**5.72**	**245.5**	**4**	ND	ND	ND	**212.9**	**1.7**	**7.7**	**14.57**	ND	ND	ND	ND
PAH17	µg/L																							
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	**1.3 J**	10 U	**3.9 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	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	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 UJ	1 U	1 U	1 UJ
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 UJ	2 U	2 U	2 UJ
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**8.2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**91**	2 U	2 U	2 U	2 U	**2.6**	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	**1.3**	ND	**103.1**	ND	ND	ND	ND	**2.6**	ND	ND	ND	ND	ND	ND	ND

Table 4-13. OU-3 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

			Operable Unit	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
			Sample Name	OU3MW-07I	OU3MW-07I	OU3MW-07I2	OU3MW-07I2	OU3MW-07I2	OU3MW-07I3	OU3MW-07I3	OU3MW-07I3	OU3MW-07I4	OU3MW-07I4	OU3MW-07I4	OU3MW-08S	OU3MW-08S	OU3MW-08S	OU3MW-09I	OU3MW-09I	OU3MW-09I	OU3MW-10I	OU3MW-10I	OU3MW-10I	OU3MW-13S	OU3MW-16S	OU3MW-16S	OU3MW-16S	OU3MW-19S	OU3MW-19S
			Start Depth	15	15	20	20	20	25	25	25	35	35	35	2	2	2	25	25	15	25	30	25	30	2	2	2	2	2
			End Depth	20	20	25	25	25	30	30	30	40	40	40	12	12	12	30	30	20	30	30	30	30	12	12	12	12	12
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	1/6/2021	4/22/2021	11/5/2020	1/6/2021	4/22/2021	11/5/2020	1/6/2021	4/22/2021	11/5/2020	1/6/2021	4/22/2021	12/3/2020	2/3/2021	5/3/2021	12/3/2020	2/3/2021	5/3/2021	12/4/2020	3/19/2021	5/3/2021	4/22/2021	12/3/2020	3/22/2021	5/3/2021	11/30/2020	1/5/2021
			Parent Sample Code																										
			Validation Level	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4
Analyte	**Units**	**CAS no.**	**NYS AWQS**																										
BTEX	µg/L																												
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**83**	**220**	**130**	**2.9**	**1.5**	**1.3**	1 U	1 U	1 U	1 U	**3.7**	**0.91 J**	**1.7**	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**14**	**280**	**81**	**70**	**39**	**31**	**0.93 J**	**22**	**4.8**	1 U	**4.9**	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	**0.69 J**	**0.68 J**	1 U	1 U	**1.7**	1 U	**390**	**1100**	**420**	**7.6**	**7.6**	**5.3**	**5.7**	**52**	**21**	1 U	**120**	**24**	**5**	**2.2**	**1.5**
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	**14**	**4.1**	2 U	2 U	**13**	2 U	**180**	**930**	**270**	**77**	**46**	**30**	**4.9**	**80**	**10**	2 U	**36**	**1.9 J**	**0.75 J**	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	**14.69**	**4.78**	ND	ND	**14.7**	ND	**667**	**2530**	**901**	**157.5**	**94.1**	**67.6**	**11.53**	**154**	**35.8**	ND	**164.6**	**26.81**	**7.45**	**2.2**	**1.5**
PAH17	µg/L																												
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	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 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
Benzo(b)fluoranthene		205-99-2	0.002*	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	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
Benzo(k)fluoranthene		207-08-9	0.002*	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 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
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Benzo(a)pyrene		50-32-8	ND	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 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
Chrysene		218-01-9	0.002*	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	10 U	10 U	2 U	2 U	10 U	10 U	2 U	10 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ	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 U	1 U	1 U	1 UJ
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1.1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**0.99 J**	**1.8 J**	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	**1.5 J**	2 U	2 U	**9.8**	2 U	**25**	**10**	**51**	**9.2**	2 U	**1.2 J**	2 U	**14**	2 U	2 U	2 U	**6**	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1.5 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	**1.5**	ND	ND	**9.8**	ND	**25**	**10**	**51.99**	**13.6**	ND	**1.2**	ND	**17**	ND	ND	ND	**6**	ND	ND	ND

Table 4-13. OU-3 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

			Operable Unit	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
			Sample Name	OU3MW-19S	OU3MW-19I	DUP-03	OU3MW-19I	OU3MW-19I	OU3MW-19I2	OU3MW-19I2	OU3MW-19I2	OU3MW-20S	OU3MW-20S	OU3MW-20S	OU3MW-20I	OU3MW-20I	OU3MW-20I	OU3MW-20I2	OU3MW-20I2	OU3MW-20I2	OU3MW-23I/IP-17B	OU3MW-24I/IP-19A	OU3MW-24I2/IP-19B	OU3MW-24I2/IP-19B
			Start Depth	2	20	20	20	20	30	30	30	2	2	2	20	20	20	30	35	35	10	10	25	25
			End Depth	12	25	25	25	25	35	35	35	12	12	12	25	25	25	35	35	35	15	15	30	30
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	4/14/2021	11/30/2020	11/30/2020	1/5/2021	4/14/2021	11/30/2020	1/5/2021	4/14/2021	11/30/2020	1/5/2021	4/14/2021	11/30/2020	1/5/2021	4/14/2021	11/30/2020	1/5/2021	4/14/2021	4/22/2021	4/19/2021	12/4/2020	1/5/2021
			Parent Sample Code			OU3MW-19I																		
			Validation Level	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 4
Analyte	**Units**	**CAS no.**	**NYS AWQS**																					
BTEX	µg/L																							
Benzene		71-43-2	1	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 U	1 U	1 U	1 U	1 U	1 U	**0.27 J**	1 U
Toluene		108-88-3	5	**0.62 J**	1 U	1 U	1 U	**0.53 J**	1 U	1 U	**0.46 J**	1 U	1 U	**0.59 J**	1 U	1 U	**0.5 J**	1 U	1 U	**0.84 J**	1 U	1 U	**1.1**	1 U
Ethylbenzene		100-41-4	5	**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	1 U	1 U	1 U	**2.1**	1 U	1 U	**19**	1 U
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	**0.75 J**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**43**	2 U	2 U	**15**	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	**2.62**	ND	ND	ND	**1.28**	ND	ND	**0.46**	ND	ND	**0.59**	ND	ND	**0.5**	ND	ND	**45.94**	ND	ND	**35.37**	ND
PAH17	µg/L																							
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2.6 J**	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	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	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ
Benzo(a)pyrene		50-32-8	ND	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 UJ
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 U	2 U	2 UJ
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	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	2 U	2 U	2 U	**65**	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**67.6**	ND	ND	ND	ND

Table 4-13. OU-3 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

				Operable Unit	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
				Sample Name	OU3MW-24I2/IP-19B	TMW-1I	TMW-1I	TMW-1I	DUP-07	TMW-1I2	TMW-1I2	TMW-1I2	TMW-2I	TMW-2I	TMW-2I2	TMW-2I2	TMW-2I2	TMW-3I	DUP-04	TMW-3I	TMW-3I	TMW-3I2	TMW-3I2
				Start Depth	25	12	12	12	12	25	25	25	12	12	25	25	25	12	12	12	12	25	25
				End Depth	30	17	17	17	17	30	30	30	17	17	30	30	30	17	17	17	17	30	30
				Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
				Sample Date	4/19/2021	12/2/2020	2/3/2021	5/13/2021	5/13/2021	2/3/2021	5/13/2021	12/2/2020	12/2/2020	5/13/2021	2/4/2021	5/13/2021	12/2/2020	2/4/2021	2/4/2021	5/12/2021	12/2/2020	5/13/2021	12/2/2020
				Parent Sample Code					TMW-1I										TMW-3I				
				Validation Level	Level 2	Level 2	Level 2	Level 4	Level 4	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	Level 4	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**																				
BTEX	µg/L																						
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	**0.29 J**	1 U	1 U	1 U	**0.51 J**	**2**	**5.6**	**0.56 J**	**0.55 J**	**0.37 J**	1 U	**1.3**	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.59 J**	**14**	**29**	**1.7**	**1.7**	**1.8**	**0.4 J**	**150**	1 U
Ethylbenzene		100-41-4	5	**0.93 J**	1 U	**1**	**2**	**1.9**	1 U	**1.7**	1 U	1 U	1 U	**8.3**	**91 J**	**150**	**51**	**52**	**70**	**12**	**150**	1 U
Total Xylene		1330-20-7	5	2 U	2 U	2 U	**2.1**	**2.1**	**2.4**	**7.5**	**1.3 J**	2 U	2 U	**1.6 J**	**31**	**200**	**41**	**42**	**95**	**5.2**	**200**	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	**0.93**	ND	**1**	**4.1**	**4**	**2.4**	**9.49**	**1.3**	ND	ND	**11**	**138**	**384.6**	**94.26**	**96.25**	**167.17**	**17.6**	**501.3**	ND
PAH17	µg/L																						
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	**5 J**	10 U	10 U	10 U	**1.6 J**	**1.7 J**	**2.1 J**	**1.6 J**	**1.5 J**	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	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 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	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	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	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 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	10 U	10 U	10 U	2 U	2 U	10 U	2 U	10 U	10 U	2 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	2 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	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 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	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	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**9.2 J**	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**8**	**15**	**89**	**75**	**64**	**14**	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	**5**	ND	ND	ND	**9.6**	**16.7**	**101.3**	**76.6**	**65.5**	**14**	ND	ND	ND

Table 4-14. OU-4 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)													
		Sampling Date													
		2002		2003			2004				2005				
		Jun/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar
WCMW-01S	2.0 - 12.0	5	1	0	0	0	0	0	11	0	0	0	10	0	0
WCMW-01I	35.0 - 45.0	0	0	0	0	0	--	0	0	--	0	--	--	--	0
WCMW-01D	64.0 - 74.0	0	0	--	0	--	--	0	0	--	--	--	--	--	0
WCMW-02S	3.0 - 13.0	6	0	0	0	0	0	0	0	--	0	--	--	--	0
WCMW-02I	34.5 - 44.5	µg/L	0	0	0	0	--	0	0	--	--	--	--	--	0
WCMW-02D	62.0 - 72.0	0	0	--	--	--	--	0	0	--	--	--	--	--	0
WCMW-03S	4.83 - 9.83	--	10	12	25	0	10	25	14	0	42	14	23	10	--
WCMW-03I	19.4 - 24.4	--	0	0	0	0	0	0	0	0	0	--	--	0	--
WCMW-03I2	28.55 - 33.55	--	0	0	0	0	0	0	0	0	0	--	--	0	--
WCMW-04S	1.6 - 11.6	--	33	0	15	16	12	0	10	40	0	16	0	0	11
WCMW-04I	19.0 - 24.0	--	0	0	0	0	0	0	0	--	0	--	--	0	--
WCMW-04I2	29.85 - 34.85	--	0	--	0	0	--	0	0	0	0	--	--	0	--
WCMW-05S	1.15 - 11.15	--	0	0	0	0	0	0	0	0	0	--	--	0	--
WCMW-05I	19.61 - 24.61	--	0	0	0	0	0	0	0	--	0	--	--	0	--
WCMW-05I2	29.46 - 34.46	--	0	0	0	0	--	0	0	0	0	--	--	0	--
WCMW-06S	2.0 - 12.0	--	0	0	0	0	0	0	0	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	0	0	0	0	0	0	0	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	0	--	0	0	--	0	0	--	--	--	--	--	--
WCMW-07S	2.76 - 12.76	--	0	0	0	0	--	0	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	0	--	0	0	--	0	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	0	--	0	0	--	0	--	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	--	0	0	0	0	--	0	0	--	--	--	--	--	0
WCMW-08I	19.2 - 24.2	--	0	--	0	0	0	0	0	--	--	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	0	--	0	0	--	0	0	--	--	--	--	--	--
WCMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-10S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-10D	40.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-11S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	80
WCMW-11I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-11D	50.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-14. OU-4 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)													
		Sampling Date													
		2002		2003			2004				2005				
		Jun/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-14. OU-4 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)														
		Sampling Date														
		2006			2007				2008				2009			
		Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Aug	Oct-Dec
WCMW-01S	2.0 - 12.0	0	23	0	0	0	13	9	2	0	12	3	3	1	4	0
WCMW-01I	35.0 - 45.0	--	--	--	0	--	0	1	0	0	0	0	0	0	0	0
WCMW-01D	64.0 - 74.0	--	--	--	0	--	0	2	0	0	0	0	0	0	0	0
WCMW-02S	3.0 - 13.0	0	0	0	0	0	4	6	0	0	2	0	0	0	0	5
WCMW-02I	34.5 - 44.5	--	--	--	0	--	0	0	0	0	0	0	0	0	0	0
WCMW-02D	62.0 - 72.0	--	--	--	0	--	0	0	0	0	0	0	0	0	0	0
WCMW-03S	4.83 - 9.83	0	22	20	0	12	32	0	20	21	25	24	33	34	23	6
WCMW-03I	19.4 - 24.4	0	--	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-03I2	28.55 - 33.55	0	--	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-04S	1.6 - 11.6	10	31	16	0	12	23	25	6	22	24	26	21	34	10	2
WCMW-04I	19.0 - 24.0	--	--	0	--	--	0	0	0	0	0	0	0	0	2	0
WCMW-04I2	29.85 - 34.85	--	--	0	0	--	0	0	0	0	0	0	0	0	0	0
WCMW-05S	1.15 - 11.15	0	--	--	0	0	0	0	0	0	0	0	1	0	0	1
WCMW-05I	19.61 - 24.61	0	--	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-05I2	29.46 - 34.46	0	--	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-06S	2.0 - 12.0	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-06I	19.55 - 24.55	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	--	--	--	--	--	0	0	0	--	0	--	--	--	--	--
WCMW-08I	19.2 - 24.2	--	--	--	--	--	0	0	0	--	0	--	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	0	0	0	--	0	--	--	--	--	--
WCMW-09S	5.0 - 15.0	0	0	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-10S	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-10D	40.0 - 50.0	0	0	--	--	--	1	0	0	0	0	0	0	0	0	0
WCMW-11S	5.0 - 15.0	--	148	--	--	--	--	--	--	53	--	--	--	53	36	2
WCMW-11I	25.0 - 35.0	--	0	--	--	--	--	--	--	0	--	--	--	0	0	0
WCMW-11D	50.0 - 60.0	--	0	--	--	--	--	--	--	0	--	--	--	0	0	0
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	0	0	1	0	0	0	0	0
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	0	0	0	0	0	2	0	9

Table 4-14. OU-4 Summary of Expanded Groundwater Analytical Results
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National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)														
		Sampling Date														
		2006			2007				2008				2009			
		Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Aug	Oct-Dec
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	0	0	0	0	0	1	0	0
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	0	0	0	0	0	2	0	0
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	5	6	2
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	1
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-21I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-21I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-22S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-23S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-25I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	44
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-14. OU-4 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)															
		Sampling Date															
		2010				2011				2012				2013			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
WCMW-01S	2.0 - 12.0	1	5	10	14	1	--	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35.0 - 45.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64.0 - 74.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3.0 - 13.0	0	0	0	3	9	0	0	19	6	0	0	0	0	0	0	0
WCMW-02I	34.5 - 44.5	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-02D	62.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--
WCMW-03S	4.83 - 9.83	27	29	30	27	24	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-04S	1.6 - 11.6	6	12	32	25	30	11	2	3	0	0	0	0	0	0	--	--
WCMW-04I	19.0 - 24.0	0	0	0	0	0	0	14	9	4	13	24	17	17	16	12	9
WCMW-04I2	29.85 - 34.85	0	0	0	0	0	0	2	0	0	0	4	2	0	3	6	2
WCMW-05S	1.15 - 11.15	2	3	0	0	3	2	2	0	3	1	0	0	2	0	0	0
WCMW-05I	19.61 - 24.61	0	0	0	0	0	0	1	5	9	10	8	8	5	8	9	4
WCMW-05I2	29.46 - 34.46	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
WCMW-06S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-06I	19.55 - 24.55	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-06I2	29.83 - 34.83	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-07S	2.76 - 12.76	--	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	0	--	--	--	--	--	--	--	0	--	--	--	--	0	--	--
WCMW-08I	19.2 - 24.2	0	--	--	--	--	--	--	--	0	--	--	--	--	0	--	--
WCMW-08I2	26.9 - 31.9	0	--	--	--	--	--	--	--	0	--	--	--	--	0	--	--
WCMW-09S	5.0 - 15.0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	0	0	--	--	--	--	--	--	--	--	--	0	0	0	--	0
WCMW-10D	40.0 - 50.0	0	0	--	--	--	--	--	--	--	--	--	0	0	0	--	0
WCMW-11S	5.0 - 15.0	23	--	12	16	27	30	75	--	37	17	10	--	6	2	4	2
WCMW-11I	25.0 - 35.0	0	--	0	0	0	0	0	--	0	0	0	--	0	0	7	8
WCMW-11D	50.0 - 60.0	0	--	0	0	0	0	0	--	0	0	0	--	--	0	--	--
WCMW-12S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-12I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-12D	67.0 - 72.0	0	0	0	0	2	0	0	0	0	0	0	--	--	0	--	--
WCMW-13S	3.0 - 13.0	0	0	0	0	0	0	0	2	17	3	10	12	0	0	0	0
WCMW-13I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-13D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-14S	2.0 - 12.0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
WCMW-14I	20.0 - 25.0	1	0	0	0	0	0	0	0	0	0	1	2.5	1	0	2	0
WCMW-14I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-14D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-16S	2.0 - 12.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--

Table 4-14. OU-4 Summary of Expanded Groundwater Analytical Results
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National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)															
		Sampling Date															
		2010				2011				2012				2013			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
WCMW-16I	20.0 - 25.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2.0 - 12.0	0	1	1	1	4	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	0	1	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2.0 - 7.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2.0 - 12.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20.0 - 25.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30.0 - 35.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-19I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-19I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-20S	2.0 - 12.0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-20I	20.0 - 25.0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-20I2	30.0 - 35.0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-21S	2.0 - 12.0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-21I	20.0 - 25.0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-21I2	30.0 - 35.0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-22S	2.0 - 12.0	0	--	--	--	--	--	--	--	0	--	--	--	--	0	--	--
WCMW-22I	25.0 - 30.0	0	--	--	--	--	--	--	--	0	--	--	--	--	0	--	--
WCMW-23S	2.0 - 12.0	0	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--
WCMW-23I	25.0 - 30.0	0	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--
WCMW-24S	2.0 - 12.0	16	--	8	3	4	2	--	--	--	--	--	--	--	--	--	--
WCMW-24I	20.0 - 25.0	0	--	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-24I2	30.0 - 35.0	0	--	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30.0 - 35.0	1	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-25D	55.0 - 60.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-26S	2.0 - 12.0	78	--	35	114	21	19	47	--	45	60	67	--	7	4	68	205
WCMW-26I	20.0 - 25.0	0	--	0	0	0	0	0	--	0	2	0	--	0	0	0	0
WCMW-26I2	30.0 - 35.0	0	--	0	0	0	0	0	--	0	0	0	--	--	0	--	--
WCMW-27S	2.0 - 12.0	4	29	16	19	31	--	--	--	--	--	--	--	--	--	--	--
WCMW-27I	20.0 - 25.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-28S	2.0 - 12.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-28I	20.0 - 25.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-29S	2.0 - 12.0	--	--	84	19	59	69	145	--	152	62	54	--	154	182	22	19
WCMW-29I	20.0 - 25.0	--	--	0	0	0	0	0	--	0	0	0	--	--	0	--	0
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	--	--
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	10	13	26	30	14	21	18	13
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	3	1	0	2	4	0	0	0
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	--	--
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0

Table 4-14. OU-4 Summary of Expanded Groundwater Analytical Results
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National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)															
		Sampling Date															
		2014				2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
WCMW-01S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3.0 - 13.0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02D	62.0 - 72.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04S	1.6 - 11.6	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19.0 - 24.0	8	13	8	8	8	7	7	11	4	0	4	10	1	6	5	3
WCMW-04I2	29.85 - 34.85	1	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	0	0	0	--	--	--	--	--	--	0	--	--	--	--	--	--
WCMW-05I	19.61 - 24.61	4	4	4	4	0	1	1	0	0	0	0	0	0	0	3	2
WCMW-05I2	29.46 - 34.46	0	0	0	0	0	0	--	0	0	0	0	0	--	0	--	2
WCMW-06S	2.0 - 12.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08I	19.2 - 24.2	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5.0 - 15.0	8	15	9	3	1	20	0	0	--	--	--	--	--	--	--	--
WCMW-11I	25.0 - 35.0	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--
WCMW-11D	50.0 - 60.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12S	3.0 - 13.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12D	67.0 - 72.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3.0 - 13.0	9	1	1	6	0	0	1	0	0	0	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	0	0	0	3	0	0	0	--	0	0	0	0	0	0	1	0
WCMW-14I	20.0 - 25.0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0
WCMW-14I2	30.0 - 35.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67.0 - 72.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)															
		Sampling Date															
		2014				2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2.0 - 12.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30.0 - 35.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22S	2.0 - 12.0	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--
WCMW-22I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23S	2.0 - 12.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30.0 - 35.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55.0 - 60.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26S	2.0 - 12.0	64	31	29	0	15	87	261	256	--	--	--	--	--	--	--	--
WCMW-26I	20.0 - 25.0	1	0	0	169	0	0	0	0	--	--	--	--	--	--	--	--
WCMW-26I2	30.0 - 35.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29S	2.0 - 12.0	77	58	68	28	185	88	38	18	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	17	10	13	21	4	15	14	16	3	9	8	7	0	2	6	3
WCMW-30I2	30.0 - 35.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	0

Table 4-14. OU-4 Summary of Expanded Groundwater Analytical Results
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Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)													Total BTEX Groundwater Concentration (µg/L)				
		Sampling Date													Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
WCMW-01S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	23	4	0	23
WCMW-01I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
WCMW-01D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
WCMW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	19	1	0	19
WCMW-02I	34.5 - 44.5	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-02D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--	--	--	0	42	19	0	42
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--	--	--	--	0	40	12	0	40
WCMW-04I	19.0 - 24.0	1	0	--	--	--	--	--	--	0	3	--	--	--	0	24	4	0	24
WCMW-04I2	29.85 - 34.85	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6	0	0	6
WCMW-05S	1.15 - 11.15	--	0	0	--	--	--	--	--	--	--	--	--	--	0	3	0	0	3
WCMW-05I	19.61 - 24.61	0	0	0	0	0	0	0	0	0	0	0	0	--	0	10	1	0	10
WCMW-05I2	29.46 - 34.46	0	0	0	0	--	0	--	--	--	0	--	0	0	0	2	0	0	2
WCMW-06S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-08S	4.2 - 9.2	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-08I	19.2 - 24.2	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-10S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-10D	40.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
WCMW-11S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	148	26	0	148
WCMW-11I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8	1	0	8
WCMW-11D	50.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
WCMW-13S	3.0 - 13.0	--	0	--	--	--	--	--	--	--	--	--	--	--	0	17	2	0	17
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-14S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3
WCMW-14I	20.0 - 25.0	0	0	0	0	0	0	--	--	--	0	--	--	0	0	3	0	0	3
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	9	1	0	9

Table 4-14. OU-4 Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)													Total BTEX Groundwater Concentration (µg/L)				
		Sampling Date													Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6	3	0	6
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-21I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-21I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-22S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-23S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	16	6	0	16
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-25I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	261	71	0	261
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	169	8	0	169
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	4	31	20	4	31
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	18	185	79	18	185
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-30I	20.0 - 25.0	0	0	2	0	0	0	0	4	0	7	0	0.32	0	0	30	9	0	30
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	1	0	4
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-32S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	--	0	0	0	0	0	0

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)												
		Sampling Date												
		2002		2003			2004				2005			
		Jun/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec
WCMW-01S	2.0 - 12.0	33	756	24	10	117	0	19	228	240	0	51	298	14
WCMW-01I	35.0 - 45.0	2	2	0	0	0	--	0	0	--	0	--	--	--
WCMW-01D	64.0 - 74.0	45	35	--	0	--	--	0	0	--	--	--	--	--
WCMW-02S	3.0 - 13.0	79	125	0	0	62	0	0	44	--	15	--	--	--
WCMW-02I	34.5 - 44.5	µg/L	4	0	0	0	--	0	0	--	--	--	--	--
WCMW-02D	62.0 - 72.0	0	0	--	--	--	--	0	0	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	74	393	419	481	34	293	458	350	235	171	800	376
WCMW-03I	19.4 - 24.4	--	268	1,120	1,100	1,004	1,243	1,261	1,395	1,182	1,532	--	--	1,423
WCMW-03I2	28.55 - 33.55	--	327	340	402	348	49	133	191	127	94	--	--	109
WCMW-04S	1.6 - 11.6	--	1,080	141	69	270	50	0	219	836	17	136	204	153
WCMW-04I	19.0 - 24.0	--	221	174	142	99	0	62	90	--	81	--	--	155
WCMW-04I2	29.85 - 34.85	--	0	--	0	0	--	0	17	95	0	--	--	0
WCMW-05S	1.15 - 11.15	--	0	31	0	0	0	10	0	14	12	--	--	0
WCMW-05I	19.61 - 24.61	--	156	329	243	215	298	227	245	--	276	--	--	338
WCMW-05I2	29.46 - 34.46	--	0	0	15	0	--	0	0	214	0	--	--	0
WCMW-06S	2.0 - 12.0	--	39	0	0	0	0	0	0	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	0	0	0	0	0	0	0	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	0	--	0	0	--	0	0	--	--	--	--	--
WCMW-07S	2.76 - 12.76	--	0	0	0	56	--	0	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	0	--	0	0	--	0	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	0	--	0	0	--	0	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	--	0	0	0	0	--	0	0	--	--	--	--	--
WCMW-08I	19.2 - 24.2	--	0	--	0	0	0	0	0	--	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	0	--	0	0	--	0	0	--	--	--	--	--
WCMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11D	50.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)												
		Sampling Date												
		2002		2003			2004				2005			
		Jun/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)															
		Sampling Date															
		2006				2007				2008				2009			
		Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Aug	Oct-Dec
WCMW-01S	2.0 - 12.0	0	10	340	130	78	291	203	345	47	9	353	77	0	16	26	3
WCMW-01I	35.0 - 45.0	0	--	--	--	0	--	0	0	0	0	2	0	0	0	46	0
WCMW-01D	64.0 - 74.0	0	--	--	--	0	--	0	0	0	0	0	0	0	0	2	0
WCMW-02S	3.0 - 13.0	0	0	30	0	0	0	77	101	0	4	51	27	0	5	0	12
WCMW-02I	34.5 - 44.5	0	--	--	--	0	--	0	0	0	0	1	0	0	0	0	0
WCMW-02D	62.0 - 72.0	0	--	--	--	0	--	0	0	0	0	1	0	0	0	0	0
WCMW-03S	4.83 - 9.83	--	242	339	233	198	240	305	44	122	12	102	239	243	358	419	237
WCMW-03I	19.4 - 24.4	--	1,770	--	--	--	--	255	315	939	134	290	1,107	142	1,146	994	1,743
WCMW-03I2	28.55 - 33.55	--	83	--	--	--	--	5	37	6	0	25	24	0	2	5	15
WCMW-04S	1.6 - 11.6	116	57	264	445	95	214	194	326	186	72	337	332	43	16	272	197
WCMW-04I	19.0 - 24.0	--	--	--	144	--	--	142	94	70	66	96	100	33	108	101	46
WCMW-04I2	29.85 - 34.85	--	--	--	0	--	--	0	0	0	0	0	0	0	0	0	2
WCMW-05S	1.15 - 11.15	--	0	--	--	0	0	3	3	5	3	4	2	5	7	6	8
WCMW-05I	19.61 - 24.61	--	286	--	--	--	--	242	287	162	153	121	150	170	241	411	432
WCMW-05I2	29.46 - 34.46	--	0	--	--	--	--	7	31	0	0	39	63	0	48	5	0
WCMW-06S	2.0 - 12.0	--	--	--	--	0	0	1	0	0	4	0	0	0	0	0	0
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	52	0	0	0	0	0	0	0	0	0
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	0	11	0	0	0	0	0	0	0	0
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	0	--	--	--	--	--	0	0	0	--	0	--	--	--	--	--
WCMW-08I	19.2 - 24.2	--	--	--	--	--	--	0	0	0	--	0	--	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	--	0	0	0	--	0	--	--	--	--	--
WCMW-09S	5.0 - 15.0	0	0	0	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-10S	15.0 - 20.0	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	5
WCMW-10D	40.0 - 50.0	0	0	0	--	--	--	0	0	0	0	0	0	0	0	0	3
WCMW-11S	5.0 - 15.0	1,037	--	590	--	--	--	--	--	--	705	--	--	--	624	637	238
WCMW-11I	25.0 - 35.0	0	--	0	--	--	--	--	--	--	0	--	--	--	0	10	1
WCMW-11D	50.0 - 60.0	0	--	0	--	--	--	--	--	--	0	--	--	--	0	0	0
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	2	5	4	1	4	13	0	3
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0	0	5	5	16
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	0	0	1	0	0	0	0	0
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	0	0	1	53	0	0	0	0
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	0	0	0	1	0	0	0	0
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	0	0	0	0	6	0	4
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	16	77	0	2	2	50	64	81
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	70	10	1	11	0	18
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	0	0	0	0	0	2	0	0
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	4	28	57	0	24	22	0	1,971
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0	18	0	2

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)															
		Sampling Date															
		2006				2007				2008				2009			
		Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Aug	Oct-Dec
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0	4	55	5
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	295	226	201
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	292	342	38
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	16	0
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2
WCMW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-21I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-21I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-22S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	61	56
WCMW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5	1
WCMW-23S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	34	16
WCMW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	237
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-25I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	350
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	47
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	141
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	251
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)															
		Sampling Date															
		2010				2011				2012				2013			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
WCMW-01S	2.0 - 12.0	4	14	115	49	18	--	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35.0 - 45.0	1	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64.0 - 74.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3.0 - 13.0	3	0	2	56	38	9	15	69	94	87	58	--	67.5	84	62	77
WCMW-02I	34.5 - 44.5	0	0	0	0	0	0	0	0	0	0	1	--	--	0	--	--
WCMW-02D	62.0 - 72.0	0	0	0	0	0	0	0	5	0	0	1	0	0	0	--	--
WCMW-03S	4.83 - 9.83	501	6	327	363	1,532	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	1,127	1,332	1,213	1,101	6	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	0	535	0	9	8	--	--	--	--	--	--	--	--	--	--	--
WCMW-04S	1.6 - 11.6	204	227	251	390	369	262	315	132	98	60	22	20	35	12	--	--
WCMW-04I	19.0 - 24.0	15	30	97	130	95	44	174	432	411	251	198	199	299	306	149	232
WCMW-04I2	29.85 - 34.85	0	0	0	1	0	0	285	79	73	126	73	102	41	95	14	116
WCMW-05S	1.15 - 11.15	8	7	38	34	284	8	42	0	94	74	76	49	97	49	2	39
WCMW-05I	19.61 - 24.61	270	83	43	217	28	136	407	173	225	147	177	147	162	229	100	230
WCMW-05I2	29.46 - 34.46	0	0	19	30	0	0	778	264	306	266	112	199	173	350	55	237
WCMW-06S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-06I	19.55 - 24.55	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-06I2	29.83 - 34.83	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-07S	2.76 - 12.76	--	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	0	--	--	--	--	--	--	--	0	--	--	--	--	0	--	--
WCMW-08I	19.2 - 24.2	0	--	--	--	--	--	--	--	0	--	--	--	--	0	--	--
WCMW-08I2	26.9 - 31.9	0	--	--	--	--	--	--	--	0	--	--	--	--	0	--	--
WCMW-09S	5.0 - 15.0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	0	0	--	--	--	--	--	--	--	--	--	0	0	0	--	0
WCMW-10D	40.0 - 50.0	0	0	--	--	--	--	--	--	--	--	--	0	0	0	--	0
WCMW-11S	5.0 - 15.0	159	--	496	1,350	386	1,286	1,258	--	375	392	266	--	129	56	32	77
WCMW-11I	25.0 - 35.0	20	--	0	62	36	5	182	--	61	188	318	--	73	25	392	380
WCMW-11D	50.0 - 60.0	2	--	0	0	0	0	0	--	0	0	0	--	--	0	--	--
WCMW-12S	3.0 - 13.0	0	2	0	0	0	2	2	0	0	3	5	--	--	1	--	--
WCMW-12I	25.0 - 30.0	0	0	0	0	0	0	30	4	1	0	0	--	--	89	--	--
WCMW-12D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	2	--	--	0	--	--
WCMW-13S	3.0 - 13.0	1	0	0	0	0	0	2	75	229	219	156	141	2	0	134	176
WCMW-13I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	2	0	--	--	0	--	--
WCMW-13D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-14S	2.0 - 12.0	20	23	26	0	3	0	29	263	143	56	90	81	58	81	15	53
WCMW-14I	20.0 - 25.0	149	214	149	65	24	25	376	125	125	258	231	165	149	167	243	256
WCMW-14I2	30.0 - 35.0	57	25	95	201	160	9	71	0	0	0	6	--	--	0	--	--
WCMW-14D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-16S	2.0 - 12.0	2,259	337	43	56	51	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20.0 - 25.0	13	6	14	14	6	--	--	--	--	--	--	--	--	--	--	--

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)															
		Sampling Date															
		2010				2011				2012				2013			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
WCMW-16I2	30.0 - 35.0	15	10	17	0	1	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2.0 - 12.0	141	339	431	407	339	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	186	338	394	322	258	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	12	12	31	0	20	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2.0 - 7.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2.0 - 12.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20.0 - 25.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30.0 - 35.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-19I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-19I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-20S	2.0 - 12.0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-20I	20.0 - 25.0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-20I2	30.0 - 35.0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-21S	2.0 - 12.0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-21I	20.0 - 25.0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-21I2	30.0 - 35.0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-22S	2.0 - 12.0	54	--	--	--	--	--	--	--	59	--	--	--	--	37	--	--
WCMW-22I	25.0 - 30.0	0	--	--	--	--	--	--	--	0	--	--	--	--	0	--	--
WCMW-23S	2.0 - 12.0	0	--	--	--	--	--	--	--	--	--	--	--	--	17	--	--
WCMW-23I	25.0 - 30.0	0	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--
WCMW-24S	2.0 - 12.0	336	--	215	170	158	271	--	--	--	--	--	--	--	--	--	--
WCMW-24I	20.0 - 25.0	53	--	32	40	98	58	--	--	--	--	--	--	--	--	--	--
WCMW-24I2	30.0 - 35.0	0	--	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30.0 - 35.0	54	0	0	0	0	0	20	0	0	7	0	--	--	0	--	--
WCMW-25D	55.0 - 60.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
WCMW-26S	2.0 - 12.0	232	--	394	146	204	331	243	--	352	436	290	--	217	190	406	2,081
WCMW-26I	20.0 - 25.0	24	--	87	28	0	26	56	--	7	25	12	--	86	111	5	60
WCMW-26I2	30.0 - 35.0	24	--	11	10	7	5	0	--	1	9	3	--	--	2	--	--
WCMW-27S	2.0 - 12.0	0	278	708	0	699	--	--	--	--	--	--	--	--	--	--	--
WCMW-27I	20.0 - 25.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-28S	2.0 - 12.0	36	97	396	301	128	--	--	--	--	--	--	--	--	--	--	--
WCMW-28I	20.0 - 25.0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-29S	2.0 - 12.0	--	--	2,391	2,154	1,092	1,599	--	--	2,374	1,420	1,986	--	2,123	1,615	1,746	2,172
WCMW-29I	20.0 - 25.0	--	--	43	29	10	17	--	--	5	10	24	--	--	60	--	208
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	14	49	18	8	7	16	--	--
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	169	486	654	585	373	602	663	606
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	3	12	1	108	46	0	20	118
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	427	353	53	35	241	199	35	22
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	31	18	9	0	7	10	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	69	4	0	0	0	0	--	--
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	304	286	189	4	247	269	97	25

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
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National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)															
		Sampling Date															
		2014				2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
WCMW-01S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3.0 - 13.0	86	45	78	43	27	25	--	--	--	48	--	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02D	62.0 - 72.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04S	1.6 - 11.6	--	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19.0 - 24.0	221	212	352	303	162	280	187	246	265	304	245	254	1	238	305	349
WCMW-04I2	29.85 - 34.85	28	13	24	18	7	2	--	--	--	27	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	94	48	24	--	--	--	--	--	--	2	--	--	--	--	--	--
WCMW-05I	19.61 - 24.61	137	220	324	319	164	190	176	201	180	152	138	186	0	183	237	211
WCMW-05I2	29.46 - 34.46	138	56	100	51	13	100	--	123	76	155	168	121	--	71	--	78
WCMW-06S	2.0 - 12.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08I	19.2 - 24.2	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5.0 - 15.0	244	102	77	58	61	127	41	47	--	--	--	--	--	--	--	--
WCMW-11I	25.0 - 35.0	136	25	46	249	25	18	192	54	--	--	--	--	--	--	--	--
WCMW-11D	50.0 - 60.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12S	3.0 - 13.0	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12I	25.0 - 30.0	--	40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12D	67.0 - 72.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3.0 - 13.0	185	9	157	59	0	0	43	51	3	0	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	64	41	36	31	42	39	66	--	37	28	72	78	0	42	74	85
WCMW-14I	20.0 - 25.0	96	86	234	106	5	2	58	180	7	17	188	156	0	11	193	173
WCMW-14I2	30.0 - 35.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67.0 - 72.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)															
		Sampling Date															
		2014				2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2.0 - 12.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30.0 - 35.0	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22S	2.0 - 12.0	--	--	--	--	--	27	--	--	--	--	--	--	--	--	--	--
WCMW-22I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23S	2.0 - 12.0	--	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30.0 - 35.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55.0 - 60.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26S	2.0 - 12.0	748	335	357	557	257	404	973	1,597	--	--	--	--	--	--	--	--
WCMW-26I	20.0 - 25.0	55	10	42	19	74	3	27	69	--	--	--	--	--	--	--	--
WCMW-26I2	30.0 - 35.0	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29S	2.0 - 12.0	1,756	1,952	1,889	1,466	2,390	1,424	1,175	1,191	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	87	36	41	93	8	22	107	140	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	295	307	458	478	102	339	267	352	178	285	313	309	0	255	404	288
WCMW-30I2	30.0 - 35.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	68	45	18	--	--	36	--	--	--	48	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	184	167	63	256	280	12	20	13	141	23	--	0	0	116	--	2

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)													Total PAH Groundwater Concentration (µg/L)				
		Sampling Date													Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
WCMW-01S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	756	115	0	756
WCMW-01I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	46	2	0	46
WCMW-01D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	45	4	0	45
WCMW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	125	36	0	125
WCMW-02I	34.5 - 44.5	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	4
WCMW-02D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	0	0	5
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--	--	--	6	1,532	317	6	1,532
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--	--	--	6	1,770	967	6	1,770
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--	--	--	0	535	111	0	535
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,080	203	0	1,080
WCMW-04I	19.0 - 24.0	99	108.6	--	--	--	--	--	--	58	226	--	--	--	0	432	170	0	432
WCMW-04I2	29.85 - 34.85	--	--	--	--	--	--	--	--	--	--	--	--	--	0	285	29	0	285
WCMW-05S	1.15 - 11.15	--	14.6	31	--	--	--	--	--	--	--	--	--	--	0	284	27	0	284
WCMW-05I	19.61 - 24.61	335	313.6	173	320	121	310	255	305	195	12	247	153	--	0	432	211	0	432
WCMW-05I2	29.46 - 34.46	1	5.3	148	7	--	0	--	--	--	161	--	0	0	0	778	85	0	778
WCMW-06S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	39	1	0	39
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--	--	--	--	0	52	2	0	52
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--	--	--	--	0	11	0	0	11
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	--	--	0	56	8	0	56
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-08S	4.2 - 9.2	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-08I	19.2 - 24.2	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-10S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	21	1	0	21
WCMW-10D	40.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	3
WCMW-11S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	32	1,350	402	32	1,350
WCMW-11I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	392	93	0	392
WCMW-11D	50.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	13	2	0	13
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	89	9	0	89
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
WCMW-13S	3.0 - 13.0	--	3.4	--	--	--	--	--	--	--	--	--	--	--	0	229	49	0	229
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
WCMW-14S	2.0 - 12.0	15	91.5	123	1	100	0	19	41	35	1	3	0	0	0	263	41	0	263
WCMW-14I	20.0 - 25.0	1	0.69	12	2	0	0	--	--	--	17	--	--	0	0	376	97	0	376
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	201	35	0	201
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,259	373	0	2,259
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	18	6	0	18

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid
Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)													Total PAH Groundwater Concentration (µg/L)				
		Sampling Date													Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	55	8	0	55
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	141	431	297	141	431
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	38	394	271	38	394
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	31	11	0	31
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	3
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
WCMW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-21I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-21I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-22S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	27	61	49	27	61
WCMW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1	0	5
WCMW-23S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	34	16	0	34
WCMW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	158	336	231	158	336
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	10	98	49	10	98
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-25I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	54	6	0	54
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	146	2,081	505	146	2,081
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	111	40	0	111
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	24	6	0	24
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	708	304	0	708
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	36	396	202	36	396
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	1,092	2,391	1,785	1,092	2,391
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	5	208	55	5	208
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	49	16	0	49
WCMW-30I	20.0 - 25.0	143	39.77	130	119	56	13	139	106	101	28	0	119	90	0	663	271	0	663
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	118	24	0	118
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	18	427	122	18	427
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	31	12	0	31
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	69	10	0	69
WCMW-32S	2.0 - 12.0	35	70.2	8	31	116	144	8	2	0	2	0	--	0	0	304	94	0	304

Notes for groundwater tables are compiled at the end of the Tables in this section.

Table 4-16. OU-4. Summary of Expanded Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Operable Unit				OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name				WCMW-05I	WCMW-05I	WCMW-05I2	WCMW-05I2	WCMW-14S	DUP-05	WCMW-14S	WCMW-14S	WCMW-14I	DUP-06	WCMW-30I	WCMW-30I	WCMW-30I	WCMW-32S	WCMW-32S
Start Depth				19.61	19.61	29.46	29.46	2	2	2	2	20	20	20	20	20	2	2
End Depth				24.61	24.61	34.46	34.46	12	12	12	12	25	25	25	25	25	12	12
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				11/30/2020	3/10/2021	3/10/2021	5/11/2021	12/4/2020	12/4/2020	2/17/2021	5/11/2021	5/11/2021	5/11/2021	11/30/2020	2/11/2021	5/11/2021	11/30/2020	6/16/2021
Parent Sample Code									WCMW-14S				WCMW-14I					
Validation Level				Level 2	Level 2	Level 2	Level 2	Level 4	Level 4	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**															
BTEX	µg/L																	
Benzene		71-43-2	1	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 U	1 U
Toluene		108-88-3	5	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 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.32 J**	1 U	1 U	1 U
Total Xylene		1330-20-7	5	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	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.32**	ND	ND	ND
PAH17	µg/L																	
Acenaphthene		83-32-9	20*	**47**	**41**	10 U	10 U	**3 J**	**1.9 J**	10 U	10 U	10 U	10 U	10 U	**56**	**41**	10 U	10 U
Acenaphthylene		208-96-8	NE	**5.4 J**	**6.9 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**7.3 J**	**5.5 J**	10 U	10 U
Anthracene		120-12-7	50*	**7.3 J**	**5.7 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	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 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	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	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	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 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	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 U	1 U
Chrysene		218-01-9	0.002*	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	2 U	2 U	10 U	10 U	2 U	10 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	**1.7 J**	**1.4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**0.85 J**	10 U	10 U
Fluorene		86-73-7	50*	**31**	**27**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**23**	**23**	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 UJ	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	**76**	**23**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	**31**	**16**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**0.91 J**	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	**45**	**30**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**32**	**20**	10 U	10 U
Pyrene		129-00-0	50*	**2.6 J**	**2.1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**247**	**153.1**	ND	ND	**3**	**1.9**	ND	ND	ND	ND	ND	**119.21**	**90.35**	ND	ND

Table Notes
Quarterly Groundwater Monitoring and Operations, Maintenance Monitoring Report

Notes:

µg/L = micrograms per liter or parts per billion (ppb)
BTEX = benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs)
PAHs = polycyclic aromatic hydrocarbons
Total BTEX and Total PAHs are calculated using detects only

"0" indicates results were below detection limits, and "0" is used instead of "ND" for calculation purposes.

NYS AWQS = New York State Ambient Water Quality Standards and Guidance Values for GA groundwater
* indicates the value is a guidance value and not a standard

Historic Minimum, Maximum and Mean calculations do not include data from the current quarter.
During the First and Second Quarter 2003 sampling events, select wells were sampled via bladder pump and peristaltic pump. In these cases, peristaltic pump results are shown on the table.

-- not analyzed or not applicable
NE = not established
ND = not detected; total concentration is listed as ND because no compounds were detected in the group

Bolding indicates a detected concentration
Shading and bolding indicates that the detected concentration is above the NYS AWQS

Data qualifiers:
* = The duplicate result was not within control limits.
J = estimated value
U = not detected to the reporting limit
UJ = not detected at or above the reporting limit shown and the reporting limit is estimated

Figures

1 Monitoring Well, Soil Vapor Sample, Ambient Air Sample, and Surface Water Gauging Station Location Map
2 Historical Sitewide Progress Map
3 DNAPL Recovery Data BBRW-02
4 Oxygen Injection Line Groundwater Data (OU-1)
5 Oxygen Injection Line Groundwater Data (OU-2)
6 Oxygen Injection Line Groundwater Data (OU-3)
7 On-site Shallow Groundwater Contour Map
8 Shallow Groundwater Contour Map
9 Deep Groundwater Contour Map
10 Hydrographs of Select Wells
11 Water Table Groundwater Total BTEX Iso-Concentration Maps – (0-10 Feet bgs) – Q1 2009/Q3 2020 Data
12 Water Table Groundwater PAH Iso-Concentration Maps – (0-10 Feet bgs) – Q1 2009/Q3 2020 Data
13 Intermediate Groundwater Total BTEX Iso-Concentration Maps – (10-50 Feet bgs) – Q1 2009/Q3 2020 Data
14 Intermediate Groundwater PAH Iso-Concentration Maps – (10-50 Feet bgs) – Q1 2009/Q3 2020 Data
15 Deep Groundwater Total BTEX Iso-Concentration Maps – (Below 50 Feet bgs) – Q1 2009/Q3 2020 Data
16 Deep Groundwater PAH Iso-Concentration Maps – (Below 50 Feet bgs) – Q1 2009/Q3 2020 Data
17 Brightwaters Yard ORC-A Application Locations

LEGEND:

GM-02AS	ACTIVE MONITORING WELL
MW-47W	INACTIVE OR HISTORICAL MONITORING WELL
MW-19D	DESTROYED MONITORING WELL
MW-06D	UNABLE TO LOCATE MONITORING WELL
MW-59	ABANDONED MONITORING WELL
MW-68S	CONDITION UNKNOWN (IS OR POTENTIALLY LOCATED ON PRIVATE PROPERTY)
OU2MW-01WT OU2MW-01S OU2MW-01I OU2MW-01I2 OU2MW-01D	EXISTING MONITORING WELL CLUSTER WT=WATER TABLE S=SHALLOW I=INTERMEDIATE I2= INTERMEDIATE TWO D=DEEP
TG-29I2	TEMPORARY RECOVERY WELL
OU2SG-07	PERMANENT SOIL VAPOR SAMPLE (2004 THROUGH 2010)
OU2-AA01	AMBIENT AIR SAMPLE LOCATION
BBSW-06	SURFACE WATER GAUGING STATION LOCATION
	INSTALLED OXYGEN INJECTION LINE
	OXYGEN INJECTION LINE - SHUT OFF
	ABANDONED OXYGEN INJECTION LINE
	HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME BOUNDARY BASED ON >100 µg/L BTEX OR >100 µg/L TOTAL PAHs DETECTED IN GROUNDWATER
	OU-2, OU-3 AND OU-4 EXTENTS FROM Q2 2021 BASED ON >100 µg/L BTEX OR >100 µg/L TOTAL PAHs DETECTED IN GROUNDWATER
	OU-2, OU-3 AND OU-4 EXTENTS FROM BASELINE Q1 2009 BASED ON >100 µg/L BTEX OR >100 µg/L TOTAL PAHs DETECTED IN GROUNDWATER

WATCHOGUE CREEK/CRUM'S BROOK SEDIMENTS REMOVED AND CHANNEL RESTORED IN 2000

OU-1 BAY SHORE SITE

OU-3 BRIGHTWATERS YARD SITE

OU-4

OU-2

BAY SHORE WEST PARCEL

BRIGHTWATERS EAST PARCEL

FORMER BRIGHTWATERS YARD OXYGEN INJECTION SYSTEM (ABANDONED JUNE 2009)

FORMER OU-3 UNION BOULEVARD OXYGEN INJECTION SYSTEM (ABANDONED JULY 2010)

OZONE GROUNDWATER TREATMENT AREA

OU-1 UNION BOULEVARD OXYGEN INJECTION SYSTEM

33 N. CLINTON/ COOPER LANE OXYGEN INJECTION LINE

9 N. CLINTON OXYGEN INJECTION LINE

60/66 N. CLINTON OXYGEN INJECTION SYSTEM

34 N. CLINTON OXYGEN INJECTION LINE

29 COMMUNITY ROAD OXYGEN INJECTION LINE

COMMUNITY ROAD OXYGEN INJECTION LINE (STARTED IN Q2 2010)

87COMMUNITY ROAD OXYGEN INJECTION LINE (STARTED IN Q3 2013)

MONTAUK HIGHWAY OXYGEN INJECTION LINE

MANATUCK LANE OXYGEN INJECTION LINE

PLUME TAIL OXYGEN INJECTION LINE

O-CO-NEE POND

UNNAMED POND (HEADWATERS OF O-CO-NEE POND)

LAWRENCE LAKE

LAWRENCE CREEK (TIDAL)

SOURCES:

1. MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
2. FIGURE 2, GROUNDWATER MONITORING WELL AND SURFACE WATER GAUGING STATION LOCATION MAP, BAY SHORE/BRIGHTWATERS FORMER MGP SITE, SCALE: 1"=200', DATED JANUARY 2004, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
3. DRAWING C-1, OFF-SITE SAMPLE LOCATION MAP, BAY SHORE/BRIGHTWATERS FINAL REMEDIAL INVESTIGATION, SCALE: 1"=200', DATED OCTOBER 15, 2003, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
4. PROPERTY BOUNDARY LOCATIONS WERE DETERMINED BY OTHERS USING AERIAL PHOTOGRAPHS AND TAX MAPS. PROPERTY BOUNDARIES ARE APPROXIMATE AND MONITORING WELLS LOCATED NEAR OR AT PROPERTY BOUNDARIES DEPICTED ON THE MAP ARE WITHIN THE ROAD RIGHT-OF-WAY.

NOTES:

1. WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).
2. * INDICATES MONITORING WELL LOCATION SHOWN IS APPROXIMATE.

0 200' 400'

SCALE: 1" = 200'

Bay Shore/Brightwaters
Former MGP Site
Bay Shore, New York

nationalgrid

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MONITORING WELL, SOIL VAPOR SAMPLE, AMBIENT AIR SAMPLE, AND SURFACE WATER GAUGING STATION LOCATION MAP

Project 1905774 | November 2021 | Fig. 1

\\Gtb-pzcc-1\ I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2021\Figures\Q2_2021\1905774_OMMQ221_WELLS.DWG - 10/6/2021

LEGEND:

- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED

OU-4 CESSPOOL EXCAVATION IRM (COMPLETED NOVEMBER 2005)

OU-4 CESSPOOL AREA EXCAVATION (EXCAVATION COMPLETED - JULY 2011)

OU-4 CESSPOOL AREA S-ISCO TREATMENT (COMPLETED DECEMBER 2009)

OU-4 UPGRADIENT EXCAVATION IRM (EXCAVATION COMPLETE - JUNE 2011)

OU-4 UPGRADIENT INVESTIGATION (COMPLETED SEPTEMBER 2009)

OU-4 POND AREA EXCAVATION IRM (EXCAVATION COMPLETED - AUGUST 2011)

OU-4

OU-4 GROUNDWATER MONITORING (ONGOING)

WATCHOGUE CREEK/ CRUM'S BROOK

SEDIMENTS REMOVED AND CHANNEL RESTORED IN 2000

OU-1 ISCO PHASE 3 INVESTIGATION (COMPLETED SEPTEMBER 2009)

PERSULFATE PILOT STUDY (COMPLETED 2004)

FENTON'S PILOT STUDY (COMPLETED 2004)

SISCO PILOT STUDY (2006)

OU-1 NORTH OXYGEN INJECTION SYSTEM (COMPLETED OCTOBER 2013)

OU-1 SOUTHERN CELL EXCAVATION AREA (COMPLETED APRIL 2007)

SUBSURFACE CONTAINMENT BARRIER (COMPLETED MAY 2008)

1591/1575 UNION BOULEVARD PRE-DESIGN INVESTIGATION (COMPLETED - SEPTEMBER 2010)

TEMPORARY AND PERMANENT DNAPL RECOVERY WELL INSTALLATION (COMPLETED OCTOBER 2011)

OU-1 UNION BOULEVARD OXYGEN INJECTION LINE EXTENSION (COMPLETED - JUNE 2011)

OU-1 UNION BOULEVARD OXYGEN INJECTION SYSTEM (COMPLETED FEBRUARY 2008)

OU-1 OZONE INJECTION SYSTEM (COMPLETED OCTOBER 2009)

OU-1 EXCAVATION NORTH OF RAILROAD (COMPLETED AUGUST 2008)

OU-1 BAY SHORE SITE

TAR GOST® STUDY OU-1 NORTH & OU-1 SOUTH (PERFORMED AUGUST 2011)

33 N. CLINTON/COOPER LANE OXYGEN INJECTION LINE (COMPLETED MARCH 2009)

OU-1/OU-2 OXYGEN INJECTION SYSTEM MODIFICATIONS (COMPLETED OCTOBER 2013)

OU-1/OU-2 GROUNDWATER AND OXYGEN INJECTION SYSTEM OM&M (ONGOING)

DNAPL RECOVERY SYSTEM (COMPLETED 2006)

LIRR NORTH CLINTON AVENUE CROSSING SOIL EXCAVATION (COMPLETED OCTOBER 2012)

OU-1 UNION BLVD OXYGEN INJECTION SYSTEM MODIFICATIONS (COMPLETED JULY 2015)

BRIGHTWATERS YARD PRE-IRM SOIL AND GROUNDWATER SAMPLING (COMPLETED SEPTEMBER 2009)

BAY SHORE WEST STORAGE LOT PARCEL

BAY SHORE WEST PARCEL

66 N. CLINTON AVENUE (FORMER KING BEAR/SUMMERS LUMBER PROPERTY) OXYGEN INJECTION SYSTEM INSTALLATION (COMPLETED JANUARY 2010, RELOCATED OCTOBER 2013)

9 N. CLINTON OXYGEN INJECTION LINE (COMPLETED FEBRUARY 2009)

OU-3

BRIGHTWATERS YARD SITE

BRIGHTWATERS EAST PARCEL

60/66 N. CLINTON AVENUE (FORMER KING BEAR/SUMMERS LUMBER PROPERTY) INVESTIGATION (COMPLETED JUNE 2009)

MONTAUK HIGHWAY OXYGEN INJECTION LINE (COMPLETED Q4 2005)

2001 AND 2004 ISOTEC INJECTION AREA

60/66 NORTH CLINTON AVENUE OXYGEN INJECTION SYSTEM RELOCATION (COMPLETED OCTOBER 2013)

60/66 N. CLINTON AVENUE (FORMER KING BEAR/SUMMERS LUMBER PROPERTY) EXCAVATION (COMPLETED APRIL 2010)

34 N. CLINTON OXYGEN INJECTION LINE (COMPLETED JANUARY 2009)

OU-2

OU-2 29 COMMUNITY ROAD OXYGEN INJECTION LINE (COMPLETED - JUNE 2011, SHUT DOWN MARCH 26, 2015, ABANDONED JUNE 2019)

OU-3 COMMUNITY ROAD OXYGEN INJECTION SYSTEM INSTALLATION (COMPLETED APRIL 2010, RECONFIGURED MARCH 2012)

29 COMMUNITY ROAD PRE-DESIGN INVESTIGATION (COMPLETED JUNE 2010)

87 COMMUNITY ROAD OXYGEN INJECTION SYSTEM (COMPLETED SEPTEMBER 2013) ADDITIONAL OXYGEN INJECTION WELLS INSTALLED WITHIN LIRR (COMPLETED JULY 2015)

CLINTON AVENUE CROSSING INSTALLATION (COMPLETED SEPTEMBER 2009) AND THE INSTALLATION OF COOPER LANE OXYGEN INJECTION LINE (COMPLETED NOVEMBER 2009)

OU-2 OXYGEN INJECTION SYSTEM MODIFICATIONS (COMPLETED OCTOBER 2013)

MANATUCK LANE OXYGEN INJECTION LINE (COMPLETED Q4 2005, SHUT DOWN MAY 10, 2019)

SUPPLEMENTAL IRM EXCAVATION AREAS (COMPLETED 2004)

BRIGHTWATERS YARD OXYGEN INJECTION SYSTEM (INSTALLED 2004, ABANDONED JUNE 2009)

SUPPLEMENTAL ORC IRM (COMPLETED AUGUST 2013)

LAINER LANE ORC IRMS (COMPLETED MARCH 2013 & JANUARY 2015)

OU-3 STORM SEWER REHABILITATION CONFIRMATION SAMPLING (COMPLETED SEPTEMBER 2009)

PLUME TAIL HYDROLOGIC INVESTIGATION (COMPLETED SEPTEMBER 2009)

PLUME TAIL OXYGEN INJECTION SYSTEM INSTALLATION AND STARTUP (COMPLETED AUGUST 2009, SHUT DOWN MARCH 26, 2015, ABANDONED JUNE 2019)

BRIGHTWATERS YARD / NORTHERN SHEETING CELL ORC INJECTIONS (DECEMBER 2019)

OU-3 UNION BOULEVARD OXYGEN INJECTION SYSTEM (INSTALLED - 2000, ABANDONED - AUGUST 2010)

OU-3 OXYGEN INJECTION SYSTEM PRE-DESIGN AND PLUME INVESTIGATION (COMPLETED AUGUST 2009)

OU-3 POST LIRR EXCAVATION IRM GROUNDWATER EVALUATION (COMPLETED MARCH 2012)

OU-3 LIRR EXCAVATION IRM (PHASE 1 - COMPLETED FEBRUARY 2010) (PHASE 2 - COMPLETED JULY 2010) (PHASE 3 - COMPLETED SEPTEMBER 2010)

WATCHOGUE CREEK (TIDAL)

O-CO-NEE POND

UNNAMED POND (HEADWATERS OF O-CO-NEE POND)

LAWRENCE LAKE

LAWRENCE CREEK (TIDAL)

N. PARK AVE.

WEST DR.

CENTER AVENUE

FIFTH AVENUE

SMITH AVENUE

OCEAN AVENUE

BAY AVENUE

SOUTH CLINTON AVENUE

CLINTON AVENUE

CLINTON AVE. (C.R. 13A)

COMMUNITY ROAD

LANIER LANE

GARNER LANE

JOHNSON LANE

HEMLOCK LANE

EAST CT.

MONTAUK HWY. (S.R. 27A)

MONTAUK HWY.

MONTAUK LANE

GIBSON ST.

LINDEN PL.

OAK ST.

SOUTH ST.

MARC CT.

DEB CT.

ACKERSON STREET

HIAWATHA DR.

ORINOCO DR.

UNION BOULEVARD

COMMUNITY ROAD

COOPER LANE

MECHANICSVILLE SERVICE RD.

LONG ISLAND RAILROAD

MONTAUK BRANCH

SOURCES:

1. MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
2. FIGURE 2, GROUNDWATER MONITORING WELL AND SURFACE WATER GAUGING STATION LOCATION MAP, BAY SHORE/BRIGHTWATERS FORMER MGP SITE, SCALE: 1"=200', DATED JANUARY 2004, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
3. DRAWING C-1, OFF-SITE SAMPLE LOCATION MAP, BAY SHORE/BRIGHTWATERS FINAL REMEDIAL INVESTIGATION, SCALE: 1"=200', DATED OCTOBER 15, 2003, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
4. PROPERTY BOUNDARY LOCATIONS WERE DETERMINED BY OTHERS USING AERIAL PHOTOGRAPHS AND TAX MAPS. PROPERTY BOUNDARIES ARE APPROXIMATE AND MONITORING WELLS LOCATED NEAR OR AT PROPERTY BOUNDARIES DEPICTED ON THE MAP ARE WITHIN THE ROAD RIGHT-OF-WAY.

0 200' 400'

SCALE: 1" = 200'

Bay Shore/Brightwaters
Former MGP Site
Bay Shore, New York

nationalgrid

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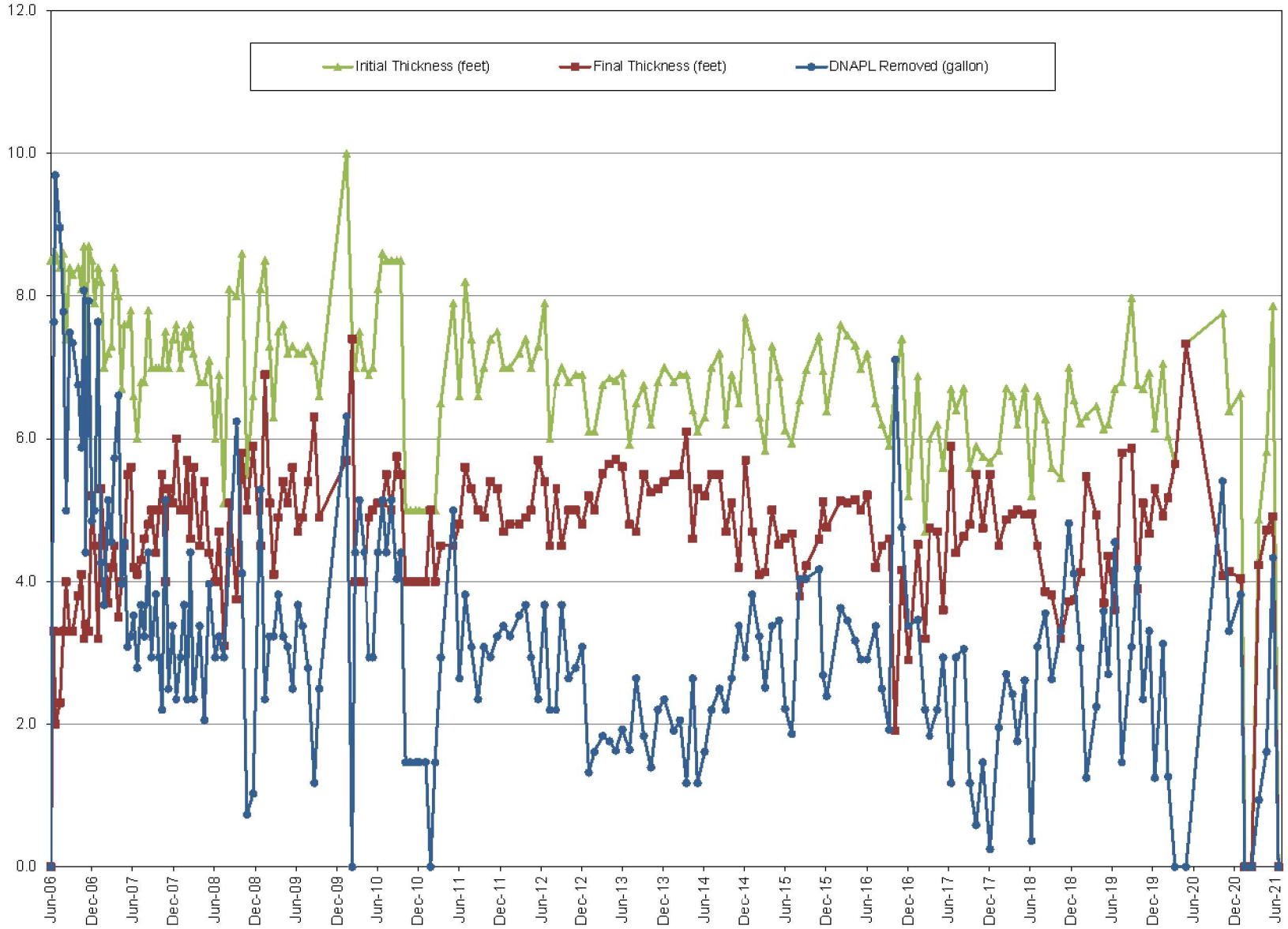
HISTORICAL SITEWIDE PROGRESS MAP

November 2021 Fig. 2

\\Gtb-pzcc-1\ I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2021\Figures\Q2_2021\1905774_OMMQ221_PROG.dwg - 9/23/2021



NOTE: DNAPL RECOVERY OPERATIONS WERE SUSPENDED IN Q4 2009 DUE TO CONSTRUCTION ACTIVITIES.

Bay Shore/Brightwaters
Former MGP Site
Bay Shore, New York

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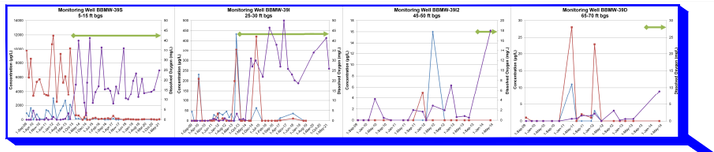
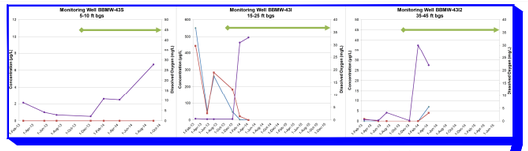
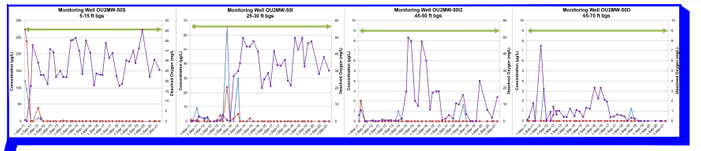
DNAPL RECOVERY DATA
BBRW-02

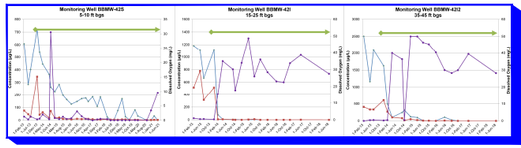
Project 1905774 | November 2021 | Fig. 3

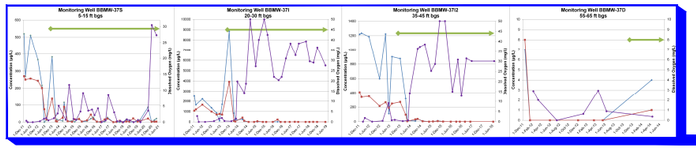
\\Gtb-pzcc-1\ I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2021\Figures\Q2_2021\1905774_OMMQ221_DNAPL.dwg - 10/4/2021

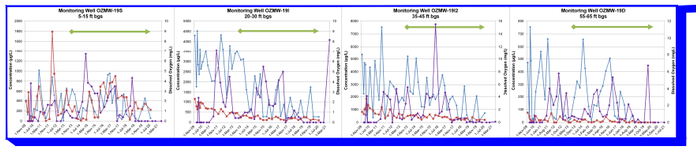


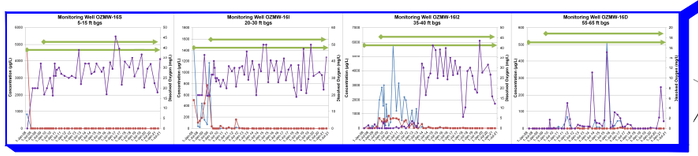


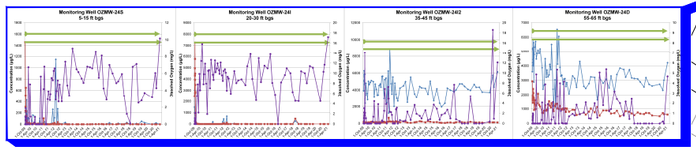


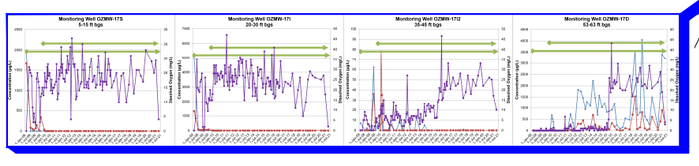


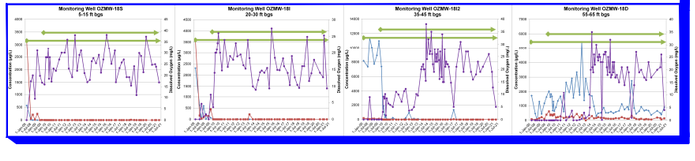


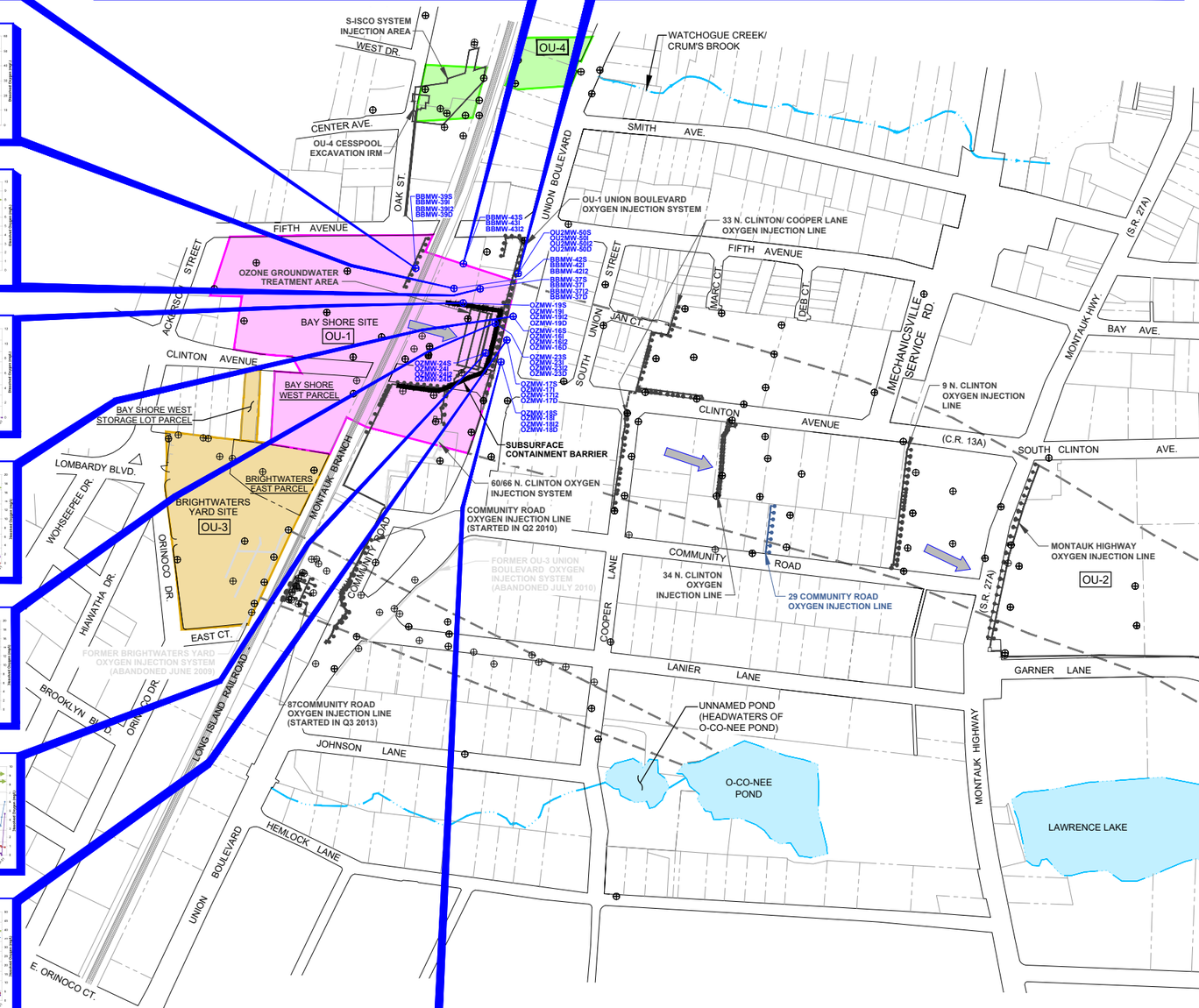












MAP LEGEND:

- ACTIVE MONITORING WELL
- BBMW-43S / BBMW-43I / BBMW-43D — ASSOCIATED TIME-SERIES CONCENTRATION GRAPH PROVIDED ON PLATE
- Q3 2020 INFERRED PLUME BOUNDARY
- HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME BOUNDARY
- APPROXIMATE GROUNDWATER FLOW DIRECTION

GRAPH LEGEND:

- DISSOLVED OXYGEN
- BTEX (BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE)
- TOTAL PAH (POLYCYCLIC AROMATIC HYDROCARBONS)
- OXYGEN INJECTION SYSTEM - ACTIVE
- OXYGEN INJECTION SYSTEM - OFF
- UPGRADIENT TREATMENT SYSTEM OPERATIONAL PERIOD

SOURCES:

1. MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
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0 200' 400'
SCALE: 1" = 200'

Bay Shore/Brightwaters
Former MGP Site
Bay Shore, New York

nationalgrid

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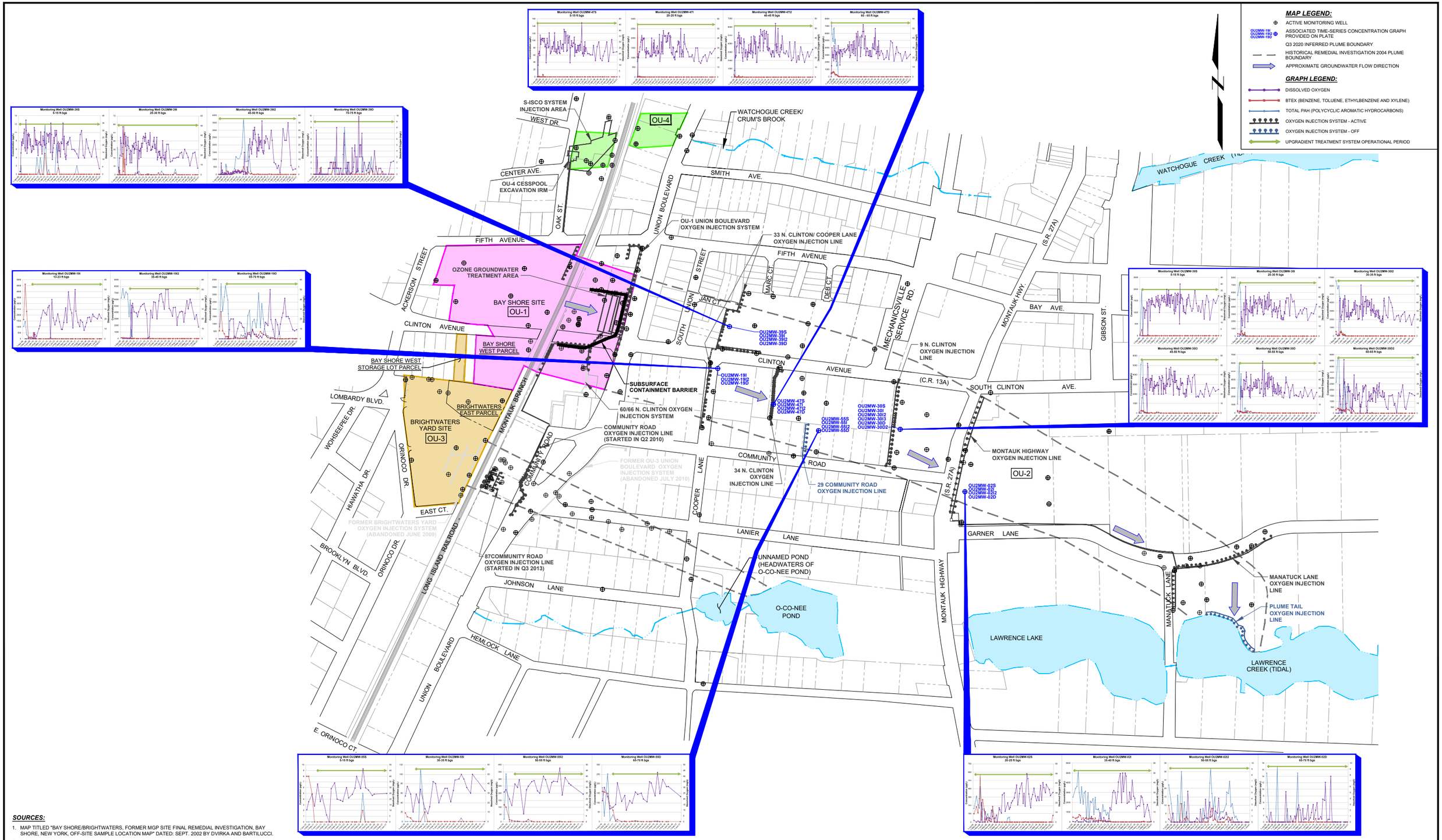
OXYGEN INJECTION LINE GROUNDWATER DATA (OU-1)

Project 1905774 | November 2021 | Fig. 4



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Bay Shore/Brightwaters Former MGP Site Bay Shore, New York nationalgrid	GEI Consultants	OXYGEN INJECTION LINE GROUNDWATER DATA (OU-2)
	Project 1905774	November 2021 Fig. 5

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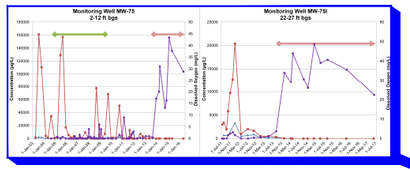

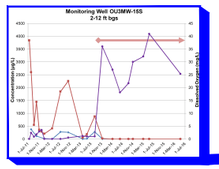

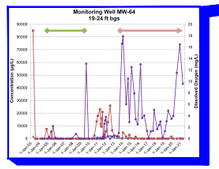

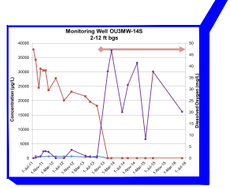

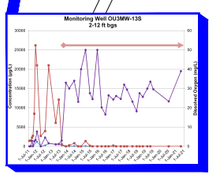

S-ISCO SYSTEM INJECTION AREA
WEST DR.
CENTER AVE.
OU-4 CESSPOOL EXCAVATION IRM
OU-4
WATCHOGUE CREEK/ CRUM'S BROOK
SMITH AVE.
OAK ST.
UNION BOULEVARD
OU-1 UNION BOULEVARD OXYGEN INJECTION SYSTEM
33 N. CLINTON/ COOPER LANE OXYGEN INJECTION LINE
FIFTH AVENUE
ACKERSON STREET
OZONE GROUNDWATER TREATMENT AREA
BAY SHORE SITE
OU-1
CLINTON AVENUE
BAY SHORE WEST PARCEL
BAY SHORE WEST STORAGE LOT PARCEL
LOMBARDY BLVD.
WOHSEEPEE DR.
BRIGHTWATERS EAST PARCEL
BRIGHTWATERS YARD SITE
OU-3
MONTAUK BRANCH
SUBSURFACE CONTAINMENT BARRIER
60/66 N. CLINTON OXYGEN INJECTION SYSTEM
COMMUNITY ROAD OXYGEN INJECTION LINE (STARTED IN Q2 2010)
COMMUNITY ROAD
FORMER OU-3 UNION BOULEVARD OXYGEN INJECTION SYSTEM (ABANDONED JULY 2010)
34 N. CLINTON OXYGEN INJECTION LINE
29 COMMUNITY ROAD OXYGEN INJECTION LINE
COOPER LANE
LANIER LANE
OU3MW-15S
MW-64
OU3MW-14S
MW-7S
MW-7SI
OU3MW-13S
EAST CT.
HIAWATHA DR.
ORINOCO DR.
BROOKLYN BLVD.
FORMER BRIGHTWATERS YARD OXYGEN INJECTION SYSTEM (ABANDONED JUNE 2009)
LONG ISLAND RAILROAD
87COMMUNITY ROAD OXYGEN INJECTION LINE (STARTED IN Q3 2013)
JOHNSON LANE
UNNAMED POND (HEADWATERS OF O-CO-NEE POND)
O-CO-NEE POND
HEMLOCK LANE
UNION BOULEVARD
E. ORINOCO CT.
UNION STREET SOUTH
JAN CT.
MARC CT.
DEB CT.
MECHANICSVILLE SERVICE RD.
9 N. CLINTON OXYGEN INJECTION LINE
(C.R. 13A)
SOUTH CLINTON AVE.
MONTAUK HWY.
(S.R. 27A)
BAY AVE.
GIBSON ST.
OCEAN AVE.
LINDEN PL.
WATCHOGUE CREEK
MONTAUK HIGHWAY OXYGEN INJECTION LINE
OU-2
GARNER LANE
MONTAUK HIGHWAY
MANATUCK LANE
MANATUCK LANE OXYGEN INJECTION LINE
PLUME TAIL OXYGEN INJECTION LINE
LAWRENCE LAKE
LAWRENCE CREEK (TIDAL)

MAP LEGEND:

- ACTIVE MONITORING WELL
- MW-34S / MW-34I / MW-34D — ASSOCIATED TIME-SERIES CONCENTRATION GRAPH PROVIDED ON PLATE
- Q3 2020 INFERRED PLUME BOUNDARY
- HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME BOUNDARY
- APPROXIMATE GROUNDWATER FLOW DIRECTION

GRAPH LEGEND:

- DISSOLVED OXYGEN
- BTEX (BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE)
- TOTAL PAH (POLYCYCLIC AROMATIC HYDROCARBONS)
- OXYGEN INJECTION SYSTEM - ACTIVE
- OXYGEN INJECTION SYSTEM - OFF
- UPGRADIENT TREATMENT SYSTEM OPERATIONAL PERIOD
- 87 COMMUNITY RD TREATMENT SYSTEM OPERATIONAL PERIOD

SOURCES:

1. MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
2. FIGURE 2, GROUNDWATER MONITORING WELL AND SURFACE WATER GAUGING STATION LOCATION MAP, BAY SHORE/BRIGHTWATERS FORMER MGP SITE, SCALE: 1"=200', DATED JANUARY 2004, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
3. DRAWING C-1, OFF-SITE SAMPLE LOCATION MAP, BAY SHORE/BRIGHTWATERS FINAL REMEDIAL INVESTIGATION, SCALE: 1"=200', DATED OCTOBER 15, 2003, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
4. PROPERTY BOUNDARY LOCATIONS WERE DETERMINED BY OTHERS USING AERIAL PHOTOGRAPHS AND TAX MAPS. PROPERTY BOUNDARIES ARE APPROXIMATE AND MONITORING WELLS LOCATED NEAR OR AT PROPERTY BOUNDARIES DEPICTED ON THE MAP ARE WITHIN THE ROAD RIGHT-OF-WAY.

0 200' 400'
SCALE: 1" = 200'

Bay Shore/Brightwaters
Former MGP Site
Bay Shore, New York

nationalgrid

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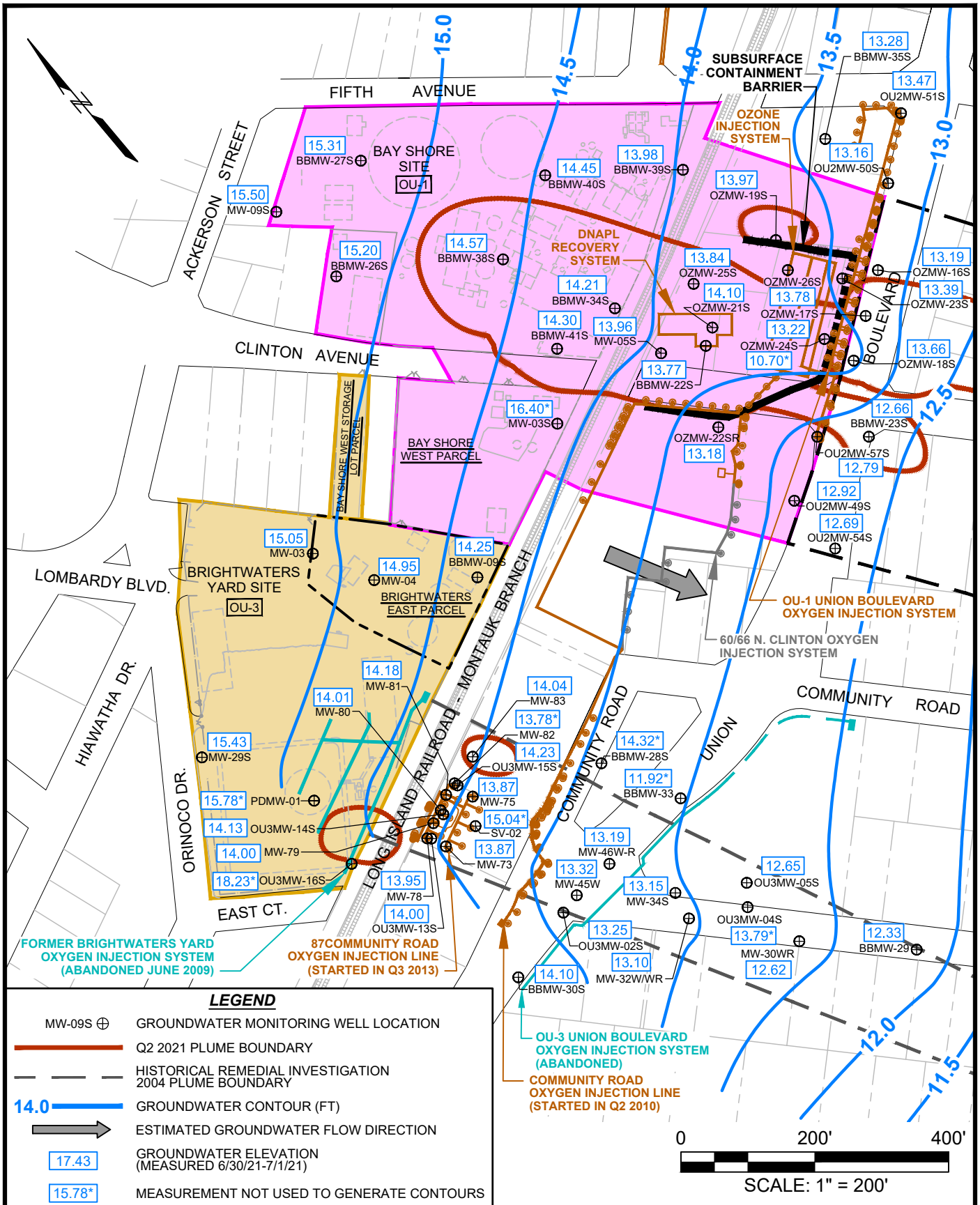
OXYGEN INJECTION LINE GROUNDWATER DATA (OU-3)

Project 1905774 | November 2021 | Fig. 6

\\Gtb-pzcc-1\ I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2021\Figures\Q2_2021\1905774_OMMQ221_GRAPHS.dwg - 10/4/2021



Bay Shore/Brightwaters
Former MGP Site
Bay Shore, New York

nationalgrid

GEI Consultants

ON-SITE
SHALLOW GROUNDWATER
CONTOUR MAP

Project 1905774 | November 2021 | Fig. 7

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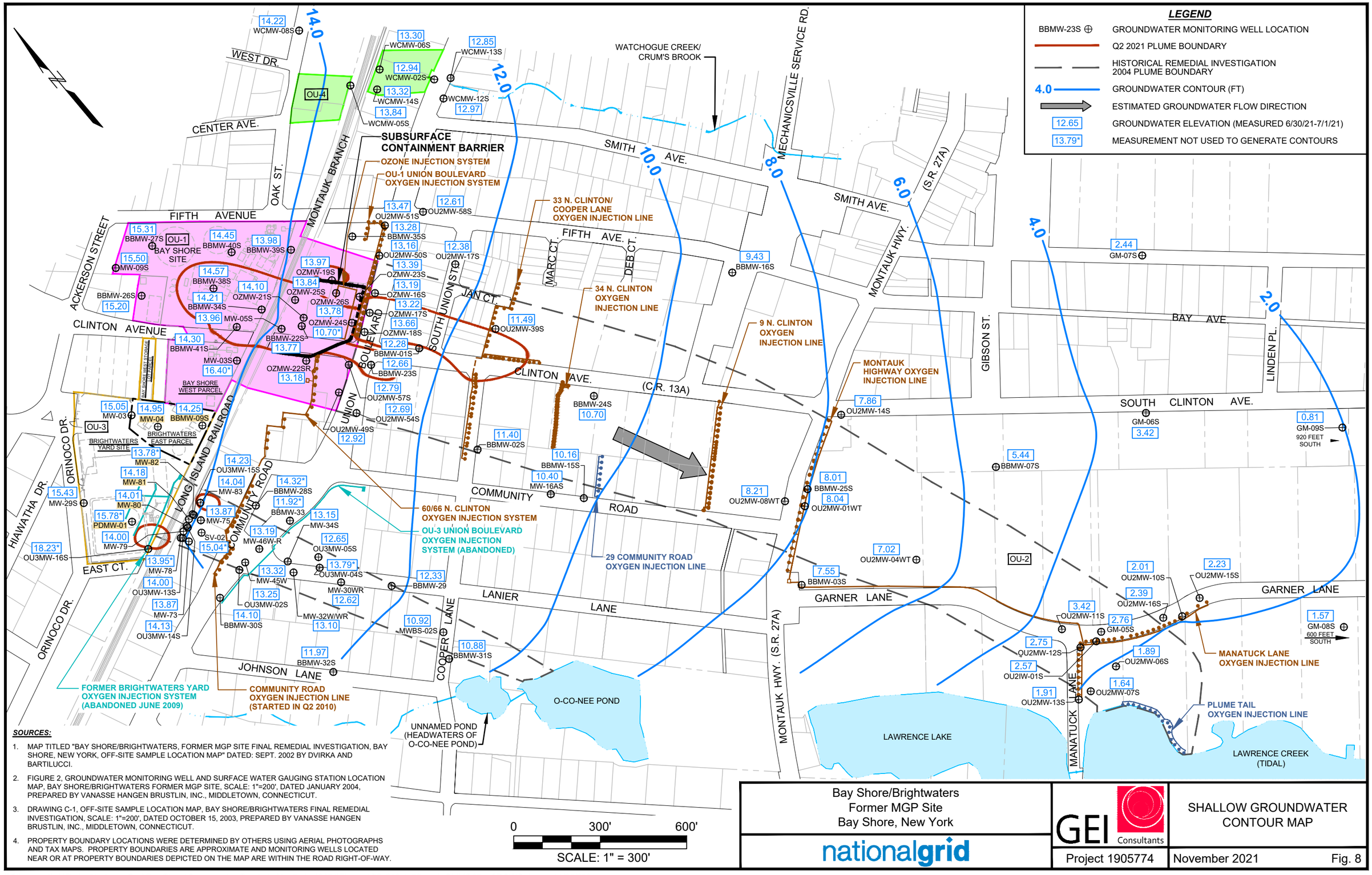

SOURCES:

1. MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
2. FIGURE 2, GROUNDWATER MONITORING WELL AND SURFACE WATER GAUGING STATION LOCATION MAP, BAY SHORE/BRIGHTWATERS FORMER MGP SITE, SCALE: 1"=200', DATED JANUARY 2004, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
3. DRAWING C-1, OFF-SITE SAMPLE LOCATION MAP, BAY SHORE/BRIGHTWATERS FINAL REMEDIAL INVESTIGATION, SCALE: 1"=200', DATED OCTOBER 15, 2003, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
4. PROPERTY BOUNDARY LOCATIONS WERE DETERMINED BY OTHERS USING AERIAL PHOTOGRAPHS AND TAX MAPS. PROPERTY BOUNDARIES ARE APPROXIMATE AND MONITORING WELLS LOCATED NEAR OR AT PROPERTY BOUNDARIES DEPICTED ON THE MAP ARE WITHIN THE ROAD RIGHT-OF-WAY.

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SHALLOW GROUNDWATER CONTOUR MAP

November 2021 Fig. 8

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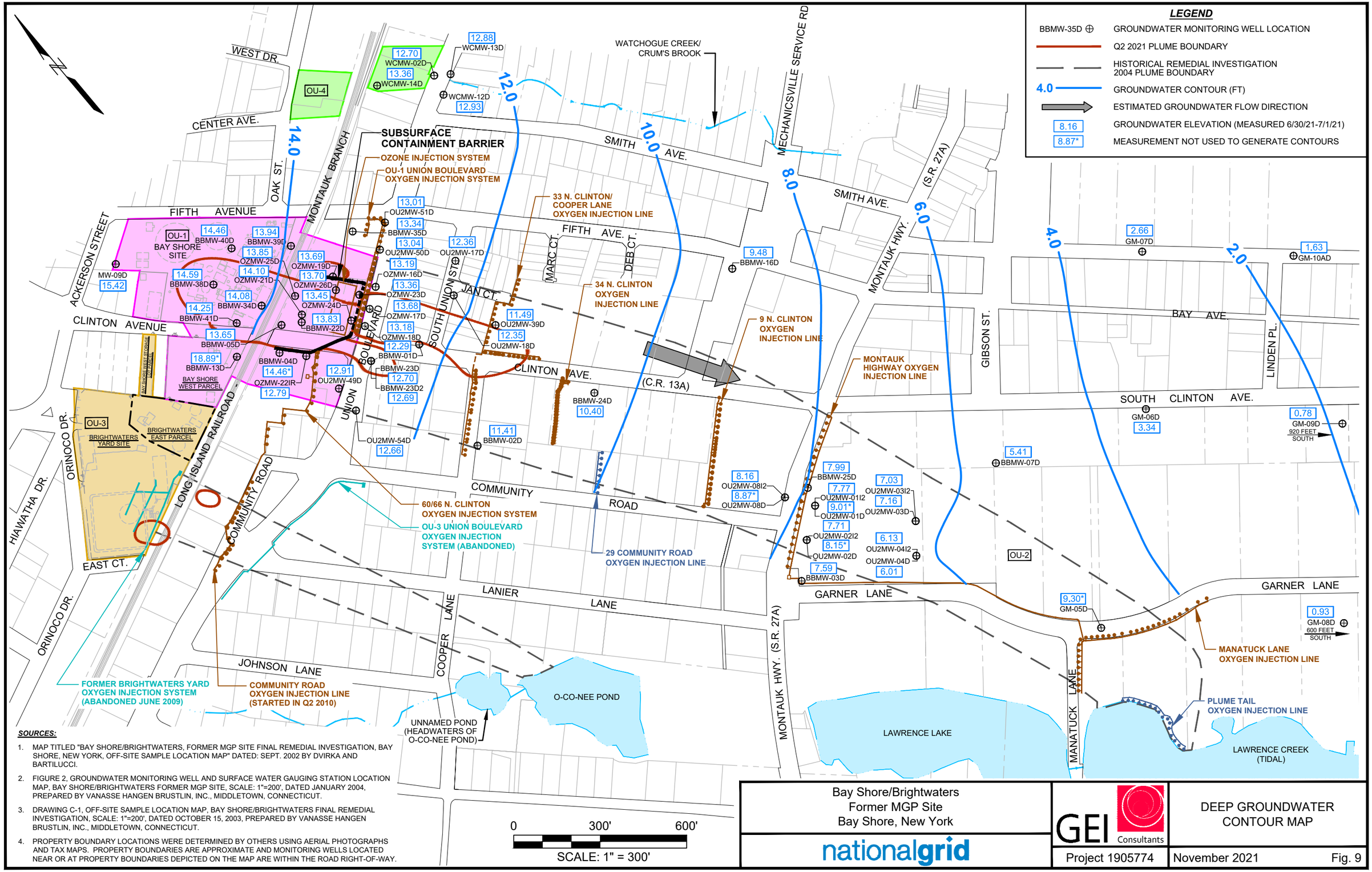

SOURCES:

1. MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
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3. DRAWING C-1, OFF-SITE SAMPLE LOCATION MAP, BAY SHORE/BRIGHTWATERS FINAL REMEDIAL INVESTIGATION, SCALE: 1"=200', DATED OCTOBER 15, 2003, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
4. PROPERTY BOUNDARY LOCATIONS WERE DETERMINED BY OTHERS USING AERIAL PHOTOGRAPHS AND TAX MAPS. PROPERTY BOUNDARIES ARE APPROXIMATE AND MONITORING WELLS LOCATED NEAR OR AT PROPERTY BOUNDARIES DEPICTED ON THE MAP ARE WITHIN THE ROAD RIGHT-OF-WAY.

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DEEP GROUNDWATER CONTOUR MAP

Project 1905774 | November 2021 | Fig. 9

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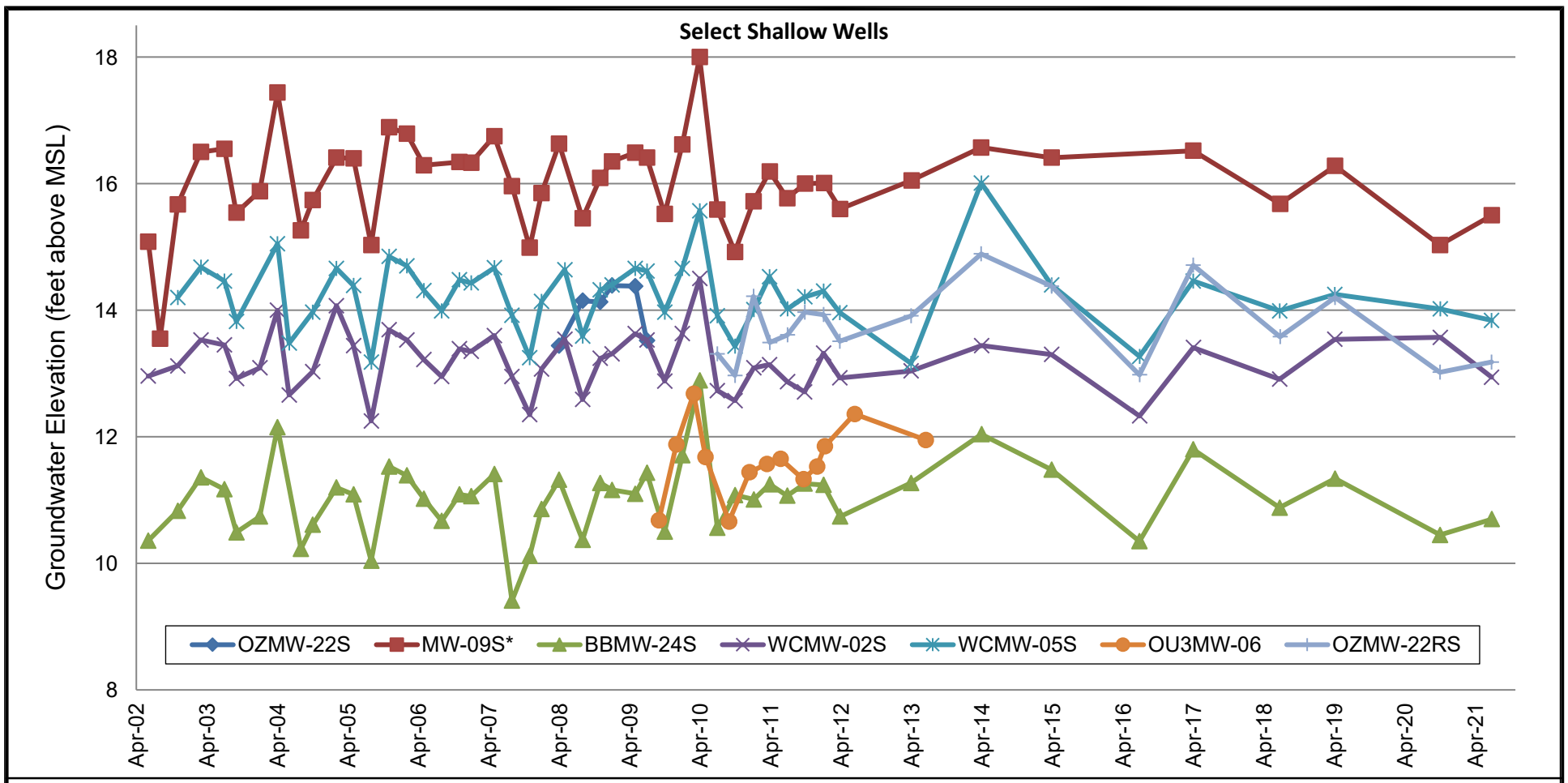

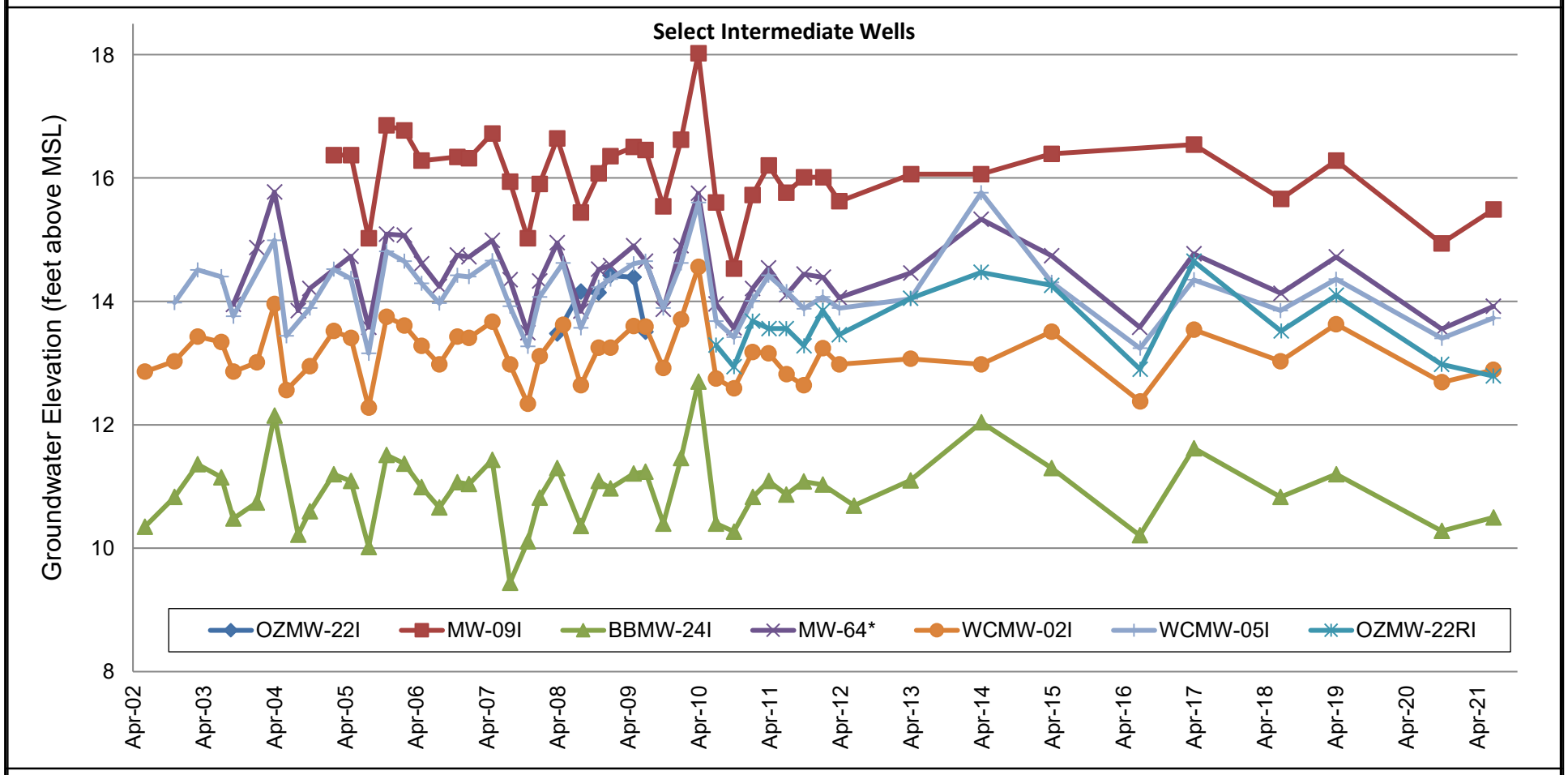

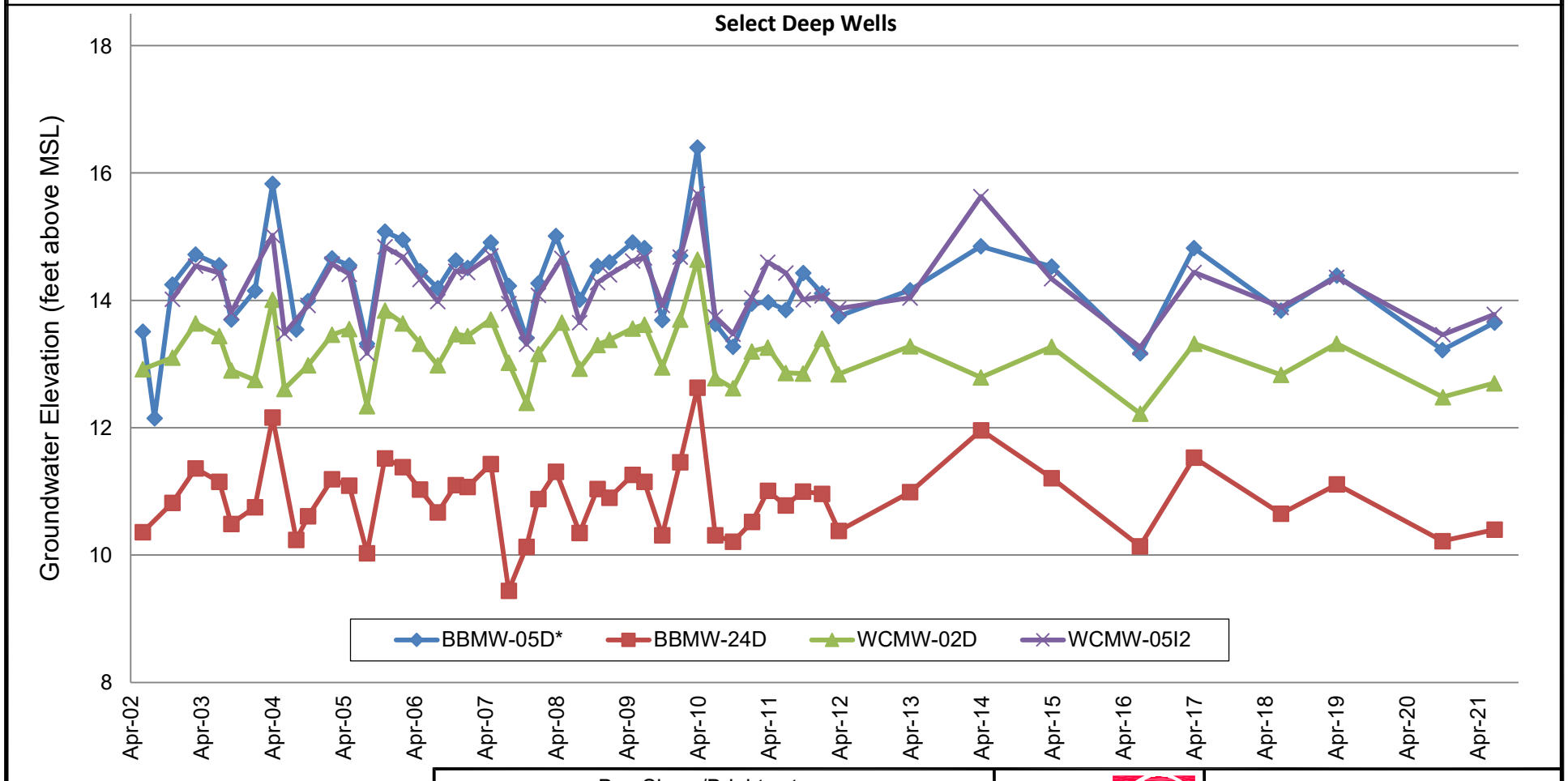

NOTES:

1. *DATA PRIOR TO JANUARY 2002 NOT SHOWN.
2. MSL = MEAN SEA LEVEL

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HYDROGRAPHS OF SELECT WELLS

Project 1905774 | November 2021 | Fig. 10

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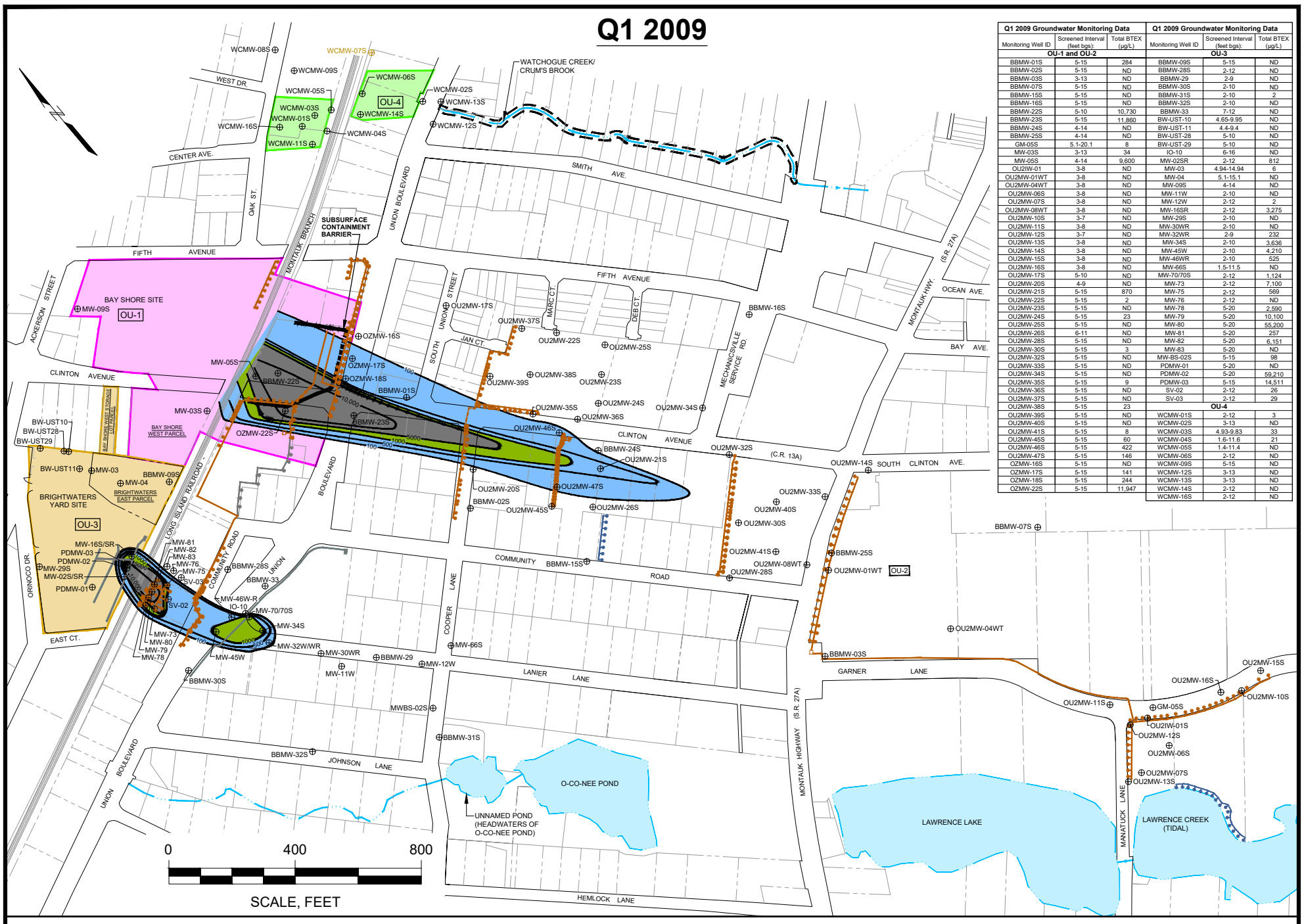
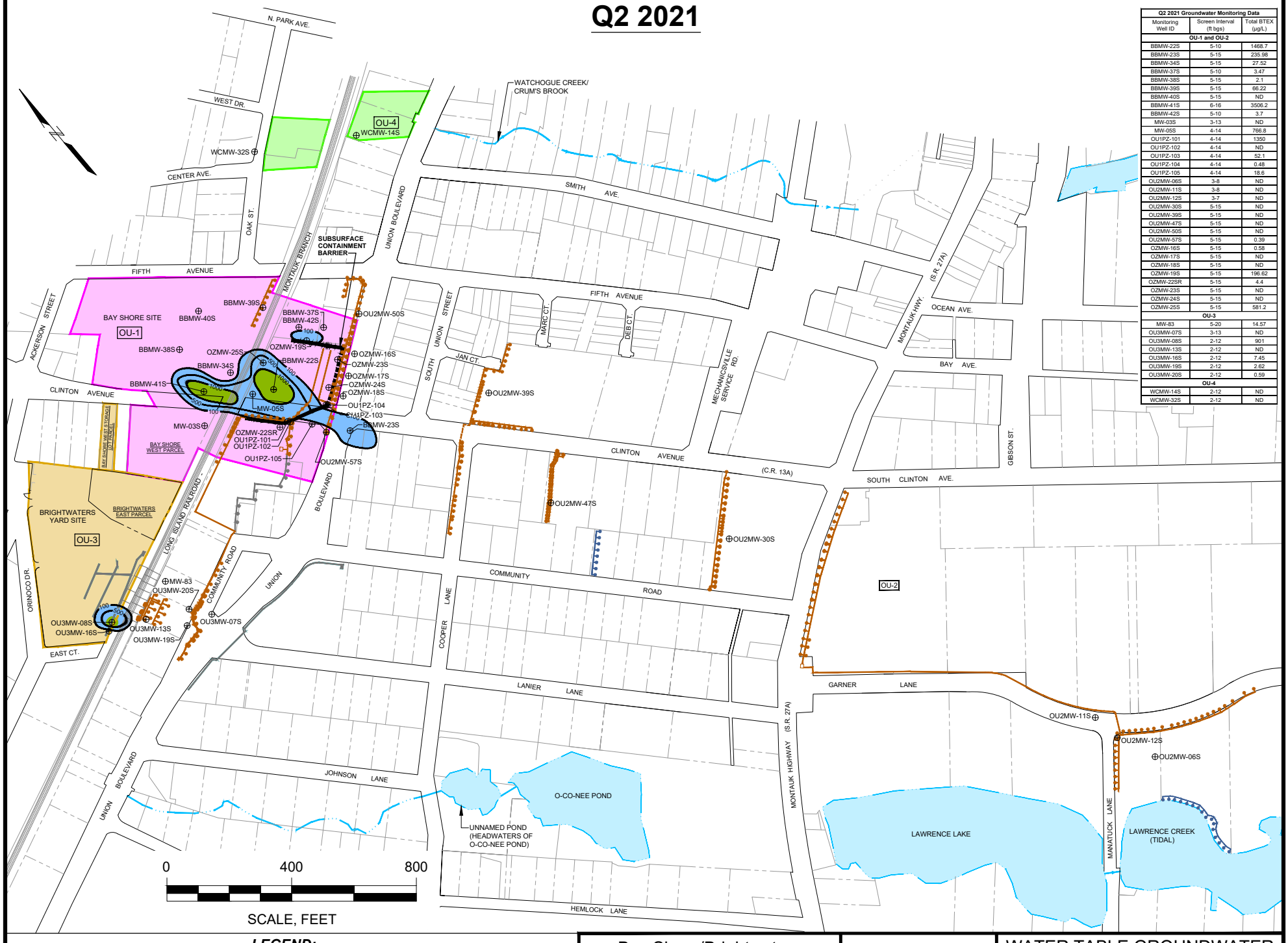
Q1 2009

Q1 2009 Groundwater Monitoring Data			Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)	Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)
OU-1 and OU-2			**OU-3**		
BBMW-01S	5-15	284	BBMW-09S	5-15	ND
BBMW-02S	5-15	ND	BBMW-28S	2-12	ND
BBMW-03S	3-13	ND	BBMW-29	2-9	ND
BBMW-07S	5-15	ND	BBMW-30S	2-10	ND
BBMW-15S	5-15	ND	BBMW-31S	2-10	2
BBMW-16S	5-15	ND	BBMW-32S	2-10	ND
BBMW-22S	5-10	10,730	BBMW-33	7-12	ND
BBMW-23S	5-15	11,860	BW-UST-10	4.65-9.95	ND
BBMW-24S	4-14	ND	BW-UST-11	4.4-9.4	ND
BBMW-25S	4-14	ND	BW-UST-28	5-10	ND
GM-05S	5.1-20.1	8	BW-UST-29	5-10	ND
MW-03S	3-13	34	IO-10	6-16	ND
MW-05S	4-14	9,600	MW-02SR	2-12	812
OU2IW-01	3-8	ND	MW-03	4.94-14.94	6
OU2MW-01WT	3-8	ND	MW-04	5.1-15.1	ND
OU2MW-04WT	3-8	ND	MW-09S	4-14	ND
OU2MW-06S	3-8	ND	MW-11W	2-10	ND
OU2MW-07S	3-8	ND	MW-12W	2-12	2
OU2MW-08WT	3-8	ND	MW-16SR	2-12	3,275
OU2MW-10S	3-7	ND	MW-29S	2-10	ND
OU2MW-11S	3-8	ND	MW-30WR	2-10	ND
OU2MW-12S	3-7	ND	MW-32WR	2-9	232
OU2MW-13S	3-8	ND	MW-34S	2-10	3,636
OU2MW-14S	3-8	ND	MW-45W	2-10	4,210
OU2MW-15S	3-8	ND	MW-46WR	2-10	525
OU2MW-16S	3-8	ND	MW-66S	1.5-11.5	ND
OU2MW-17S	5-10	ND	MW-70/70S	2-12	1,124
OU2MW-20S	4-9	ND	MW-73	2-12	7,100
OU2MW-21S	5-15	870	MW-75	2-12	569
OU2MW-22S	5-15	2	MW-76	2-12	ND
OU2MW-23S	5-15	ND	MW-78	5-20	2,590
OU2MW-24S	5-15	23	MW-79	5-20	10,100
OU2MW-25S	5-15	ND	MW-80	5-20	55,200
OU2MW-26S	6-11	ND	MW-81	5-20	257
OU2MW-28S	5-15	ND	MW-82	5-20	6,151
OU2MW-30S	5-15	3	MW-83	5-20	ND
OU2MW-32S	5-15	ND	MW-BS-02S	5-15	98
OU2MW-33S	5-15	ND	PDMW-01	5-20	ND
OU2MW-34S	5-15	ND	PDMW-02	5-20	59,210
OU2MW-35S	5-15	9	PDMW-03	5-15	14,511
OU2MW-36S	5-15	ND	SV-02	2-12	26
OU2MW-37S	5-15	ND	SV-03	2-12	29
OU2MW-38S	5-15	23	**OU-4**		
OU2MW-39S	5-15	ND	WCMW-01S	2-12	3
OU2MW-40S	5-15	ND	WCMW-02S	3-13	ND
OU2MW-41S	5-15	8	WCMW-03S	4.93-9.83	33
OU2MW-45S	5-15	60	WCMW-04S	1.6-11.6	21
OU2MW-46S	5-15	422	WCMW-05S	1.4-11.4	ND
OU2MW-47S	5-15	146	WCMW-06S	2-12	ND
OZMW-16S	5-15	ND	WCMW-09S	5-15	ND
OZMW-17S	5-15	141	WCMW-12S	3-13	ND
OZMW-18S	5-15	244	WCMW-13S	3-13	ND
OZMW-22S	5-15	11,947	WCMW-14S	2-12	ND
			WCMW-16S	2-12	ND



Q2 2021

Q2 2021 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	1468.7
BBMW-23S	5-15	235.98
BBMW-34S	5-15	27.52
BBMW-37S	5-10	3.47
BBMW-38S	5-15	2.1
BBMW-39S	5-15	66.22
BBMW-40S	5-15	ND
BBMW-41S	6-16	3506.2
BBMW-42S	5-10	3.7
MW-03S	3-13	ND
MW-05S	4-14	766.8
OU1PZ-101	4-14	1350
OU1PZ-102	4-14	ND
OU1PZ-103	4-14	52.1
OU1PZ-104	4-14	0.48
OU1PZ-105	4-14	18.6
OU2MW-06S	3-8	ND
OU2MW-11S	3-8	ND
OU2MW-12S	3-7	ND
OU2MW-30S	5-15	ND
OU2MW-39S	5-15	ND
OU2MW-47S	5-15	ND
OU2MW-50S	5-15	ND
OU2MW-57S	5-15	0.39
OZMW-16S	5-15	0.58
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	196.62
OZMW-22SR	5-15	4.4
OZMW-23S	5-15	ND
OZMW-24S	5-15	ND
OZMW-25S	5-15	581.2
OU-3		
MW-83	5-20	14.57
OU3MW-07S	3-13	ND
OU3MW-08S	2-12	901
OU3MW-13S	2-12	ND
OU3MW-16S	2-12	7.45
OU3MW-19S	2-12	2.62
OU3MW-20S	2-12	0.59
OU-4		
WCMW-14S	2-12	ND
WCMW-32S	2-12	ND



LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- µg/L — MICROGRAMS PER LITER
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- BTEX ≧5,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE

NOTE:
WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).

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WATER TABLE GROUNDWATER
TOTAL BTEX
ISO-CONCENTRATION MAPS
(0-10 FEET BGS)

Project 1905774 | November 2021 | Fig. 11

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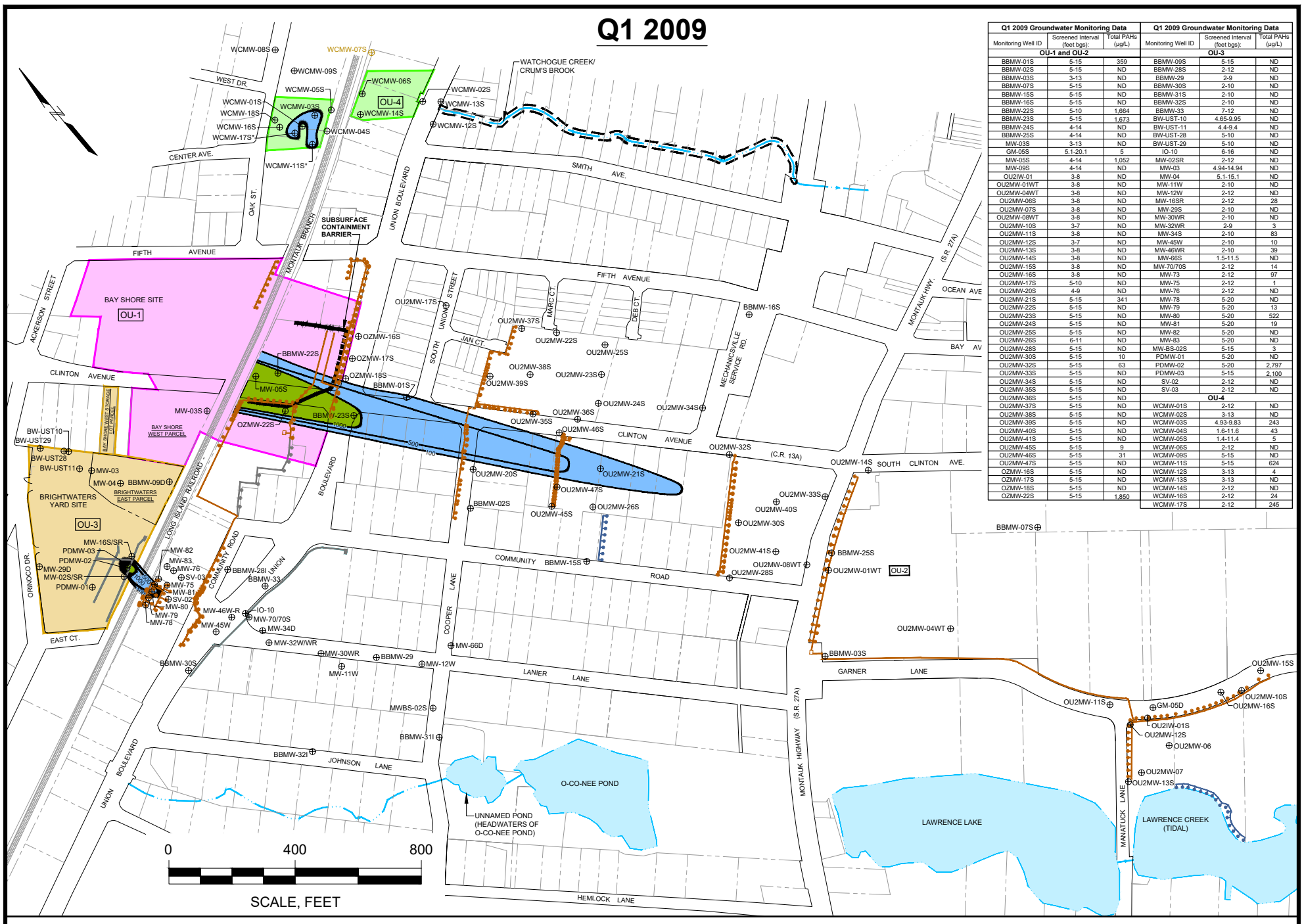
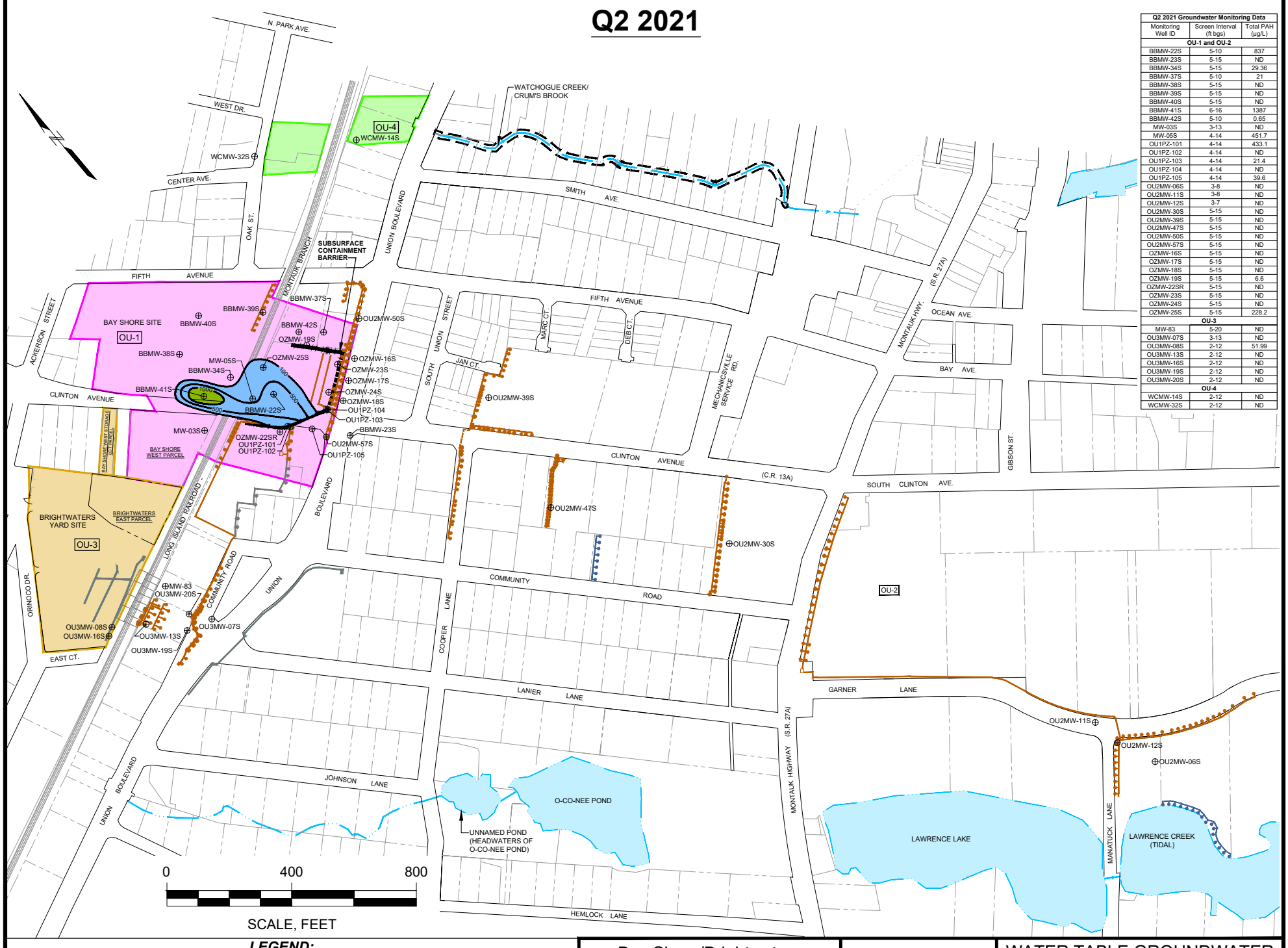
Q1 2009

Q1 2009 Groundwater Monitoring Data			Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)	Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2			**OU-3**		
BBMW-01S	5-15	359	BBMW-09S	5-15	ND
BBMW-02S	5-15	ND	BBMW-28S	2-12	ND
BBMW-03S	3-13	ND	BBMW-29	2-9	ND
BBMW-07S	5-15	ND	BBMW-30S	2-10	ND
BBMW-15S	5-15	ND	BBMW-31S	2-10	ND
BBMW-16S	5-15	ND	BBMW-32S	2-10	ND
BBMW-22S	5-10	1,664	BBMW-33	7-12	ND
BBMW-23S	5-15	1,673	BW-UST-10	4.65-9.95	ND
BBMW-24S	4-14	ND	BW-UST-11	4.4-9.4	ND
BBMW-25S	4-14	ND	BW-UST-28	5-10	ND
MW-03S	3-13	ND	BW-UST-29	5-10	ND
GM-05S	5.1-20.1	5	IO-10	6-16	ND
MW-05S	4-14	1,052	MW-02SR	2-12	ND
MW-09S	4-14	ND	MW-03	4.94-14.94	ND
OU2IW-01	3-8	ND	MW-04	5.1-15.1	ND
OU2MW-01WT	3-8	ND	MW-11W	2-10	ND
OU2MW-04WT	3-8	ND	MW-12W	2-12	ND
OU2MW-06S	3-8	ND	MW-16SR	2-12	28
OU2MW-07S	3-8	ND	MW-29S	2-10	ND
OU2MW-08WT	3-8	ND	MW-30WR	2-10	ND
OU2MW-10S	3-7	ND	MW-32WR	2-9	3
OU2MW-11S	3-8	ND	MW-34S	2-10	83
OU2MW-12S	3-7	ND	MW-45W	2-10	10
OU2MW-13S	3-8	ND	MW-46WR	2-10	39
OU2MW-14S	3-8	ND	MW-66S	1.5-11.5	ND
OU2MW-15S	3-8	ND	MW-70/70S	2-12	14
OU2MW-16S	3-8	ND	MW-73	2-12	97
OU2MW-17S	5-10	ND	MW-75	2-12	1
OU2MW-20S	4-9	ND	MW-76	2-12	ND
OU2MW-21S	5-15	341	MW-78	5-20	ND
OU2MW-22S	5-15	ND	MW-79	5-20	13
OU2MW-23S	5-15	ND	MW-80	5-20	522
OU2MW-24S	5-15	ND	MW-81	5-20	19
OU2MW-25S	5-15	ND	MW-82	5-20	ND
OU2MW-26S	6-11	ND	MW-83	5-20	ND
OU2MW-28S	5-15	ND	MW-BS-02S	5-15	3
OU2MW-30S	5-15	10	PDMW-01	5-20	ND
OU2MW-32S	5-15	63	PDMW-02	5-20	2,797
OU2MW-33S	5-15	ND	PDMW-03	5-15	2,100
OU2MW-34S	5-15	ND	SV-02	2-12	ND
OU2MW-35S	5-15	ND	SV-03	2-12	ND
OU2MW-36S	5-15	ND	**OU-4**		
OU2MW-37S	5-15	ND	WCMW-01S	2-12	ND
OU2MW-38S	5-15	ND	WCMW-02S	3-13	ND
OU2MW-39S	5-15	ND	WCMW-03S	4.93-9.83	243
OU2MW-40S	5-15	ND	WCMW-04S	1.6-11.6	43
OU2MW-41S	5-15	ND	WCMW-05S	1.4-11.4	5
OU2MW-45S	5-15	9	WCMW-06S	2-12	ND
OU2MW-46S	5-15	31	WCMW-09S	5-15	ND
OU2MW-47S	5-15	ND	WCMW-11S	5-15	624
OZMW-16S	5-15	ND	WCMW-12S	3-13	4
OZMW-17S	5-15	ND	WCMW-13S	3-13	ND
OZMW-18S	5-15	ND	WCMW-14S	2-12	ND
OZMW-22S	5-15	1,850	WCMW-16S	2-12	24
			WCMW-17S	2-12	245



Q2 2021

Q2 2021 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAH (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	837
BBMW-23S	5-15	ND
BBMW-34S	5-15	29.36
BBMW-37S	5-10	21
BBMW-38S	5-15	ND
BBMW-39S	5-15	ND
BBMW-40S	5-15	ND
BBMW-41S	6-16	1387
BBMW-42S	5-10	0.65
MW-03S	3-13	ND
MW-05S	4-14	451.7
OU1PZ-101	4-14	433.1
OU1PZ-102	4-14	ND
OU1PZ-103	4-14	21.4
OU1PZ-104	4-14	ND
OU1PZ-105	4-14	39.6
OU2MW-06S	3-8	ND
OU2MW-11S	3-8	ND
OU2MW-12S	3-7	ND
OU2MW-30S	5-15	ND
OU2MW-39S	5-15	ND
OU2MW-47S	5-15	ND
OU2MW-50S	5-15	ND
OU2MW-57S	5-15	ND
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	6.6
OZMW-22SR	5-15	ND
OZMW-23S	5-15	ND
OZMW-24S	5-15	ND
OZMW-25S	5-15	228.2
OU-3		
MW-83	5-20	ND
OU3MW-07S	3-13	ND
OU3MW-08S	2-12	51.99
OU3MW-13S	2-12	ND
OU3MW-16S	2-12	ND
OU3MW-19S	2-12	ND
OU3MW-20S	2-12	ND
OU-4		
WCMW-14S	2-12	ND
WCMW-32S	2-12	ND



LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- µg/L — MICROGRAMS PER LITER
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS
- TOTAL PAH ≧100 µg/L
- TOTAL PAH ≧1,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)

NOTE:
WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).

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WATER TABLE GROUNDWATER
TOTAL PAH
ISO-CONCENTRATION MAPS
(0-10 FEET BGS)

November 2021 — Fig. 12

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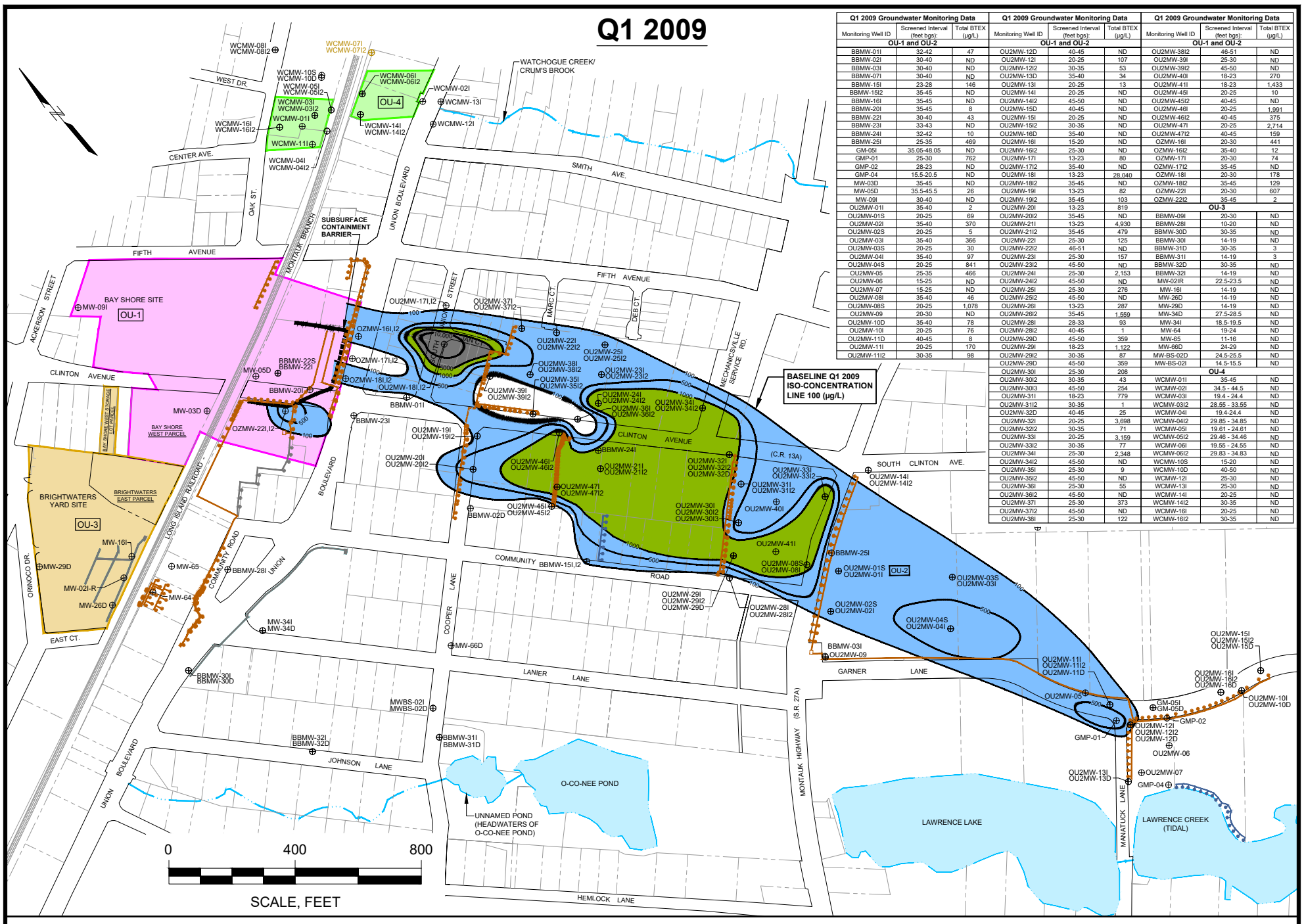
Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-01I	32-42	47
BBMW-02I	30-40	ND
BBMW-03I	30-40	ND
BBMW-07I	30-40	ND
BBMW-15I	23-28	146
BBMW-15I2	35-45	ND
BBMW-16I	35-45	ND
BBMW-20I	35-45	8
BBMW-22I	30-40	43
BBMW-23I	33-43	ND
BBMW-24I	32-42	10
BBMW-25I	25-35	469
GM-05I	35.05-48.05	ND
GMP-01	25-30	762
GMP-02	28-23	ND
GMP-04	15.5-20.5	ND
MW-03D	35-45	ND
MW-05D	35.5-45.5	26
MW-09I	30-40	ND
OU2MW-01I	35-40	2
OU2MW-01S	20-25	69
OU2MW-02I	35-40	370
OU2MW-02S	20-25	5
OU2MW-03I	35-40	366
OU2MW-03S	20-25	30
OU2MW-04I	35-40	97
OU2MW-04S	20-25	841
OU2MW-05	25-35	466
OU2MW-06	15-25	ND
OU2MW-07	15-25	ND
OU2MW-08I	35-40	46
OU2MW-08S	20-25	1,078
OU2MW-09	20-30	ND
OU2MW-10D	35-40	78
OU2MW-10I	20-25	76
OU2MW-11D	40-45	8
OU2MW-11I	20-25	170
OU2MW-11I2	30-35	98

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)
OU-1 and OU-2		
OU2MW-12D	40-45	ND
OU2MW-12I	20-25	107
OU2MW-12I2	30-35	53
OU2MW-13D	35-40	34
OU2MW-13I	20-25	13
OU2MW-14I	20-25	ND
OU2MW-14I2	45-50	ND
OU2MW-15D	40-45	ND
OU2MW-15I	20-25	ND
OU2MW-15I2	30-35	ND
OU2MW-16D	35-40	ND
OU2MW-16I	15-20	ND
OU2MW-16I2	25-30	ND
OU2MW-17I	13-23	80
OU2MW-17I2	35-40	ND
OU2MW-18I	13-23	28,040
OU2MW-18I2	35-45	ND
OU2MW-19I	13-23	82
OU2MW-19I2	35-45	103
OU2MW-20I	13-23	819
OU2MW-20I2	35-45	ND
OU2MW-21I	13-23	4,930
OU2MW-21I2	35-45	479
OU2MW-22I	25-30	125
OU2MW-22I2	46-51	ND
OU2MW-23I	25-30	157
OU2MW-23I2	45-50	ND
OU2MW-24I	25-30	2,153
OU2MW-24I2	45-50	ND
OU2MW-25I	25-30	276
OU2MW-25I2	45-50	ND
OU2MW-26I	13-23	287
OU2MW-26I2	35-45	1,559
OU2MW-28I	28-33	93
OU2MW-28I2	40-45	1
OU2MW-29D	45-50	359
OU2MW-29I	18-23	1,122
OU2MW-29I2	30-35	87
OU2MW-29D	45-50	359
OU2MW-30I	25-30	208
OU2MW-30I2	30-35	43
OU2MW-30I3	45-50	254
OU2MW-31I	18-23	779
OU2MW-31I2	30-35	1
OU2MW-32D	40-45	25
OU2MW-32I	20-25	3,698
OU2MW-32I2	30-35	71
OU2MW-33I	20-25	3,159
OU2MW-33I2	30-35	77
OU2MW-34I	25-30	2,348
OU2MW-34I2	45-50	ND
OU2MW-35I	25-30	9
OU2MW-35I2	45-50	ND
OU2MW-36I	25-30	55
OU2MW-36I2	45-50	ND
OU2MW-37I	25-30	373
OU2MW-37I2	45-50	ND
OU2MW-38I	25-30	122

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)
OU-1 and OU-2		
OU2MW-38I2	46-51	ND
OU2MW-39I	25-30	ND
OU2MW-39I2	45-50	ND
OU2MW-40I	18-23	270
OU2MW-41I	18-23	1,433
OU2MW-45I	20-25	10
OU2MW-45I2	40-45	ND
OU2MW-46I	20-25	1,991
OU2MW-46I2	40-45	375
OU2MW-47I	20-25	2,714
OU2MW-47I2	40-45	159
OZMW-16I	20-30	441
OZMW-16I2	35-40	12
OZMW-17I	20-30	74
OZMW-17I2	35-45	ND
OZMW-18I	20-30	178
OZMW-18I2	35-45	129
OZMW-22I	20-30	607
OZMW-22I2	35-45	2
OU-3		
BBMW-09I	20-30	ND
BBMW-28I	10-20	ND
BBMW-30D	30-35	ND
BBMW-30I	14-19	ND
BBMW-31D	30-35	3
BBMW-31I	14-19	3
BBMW-32D	30-35	ND
BBMW-32I	14-19	ND
MW-02IR	22.5-23.5	ND
MW-16I	14-19	ND
MW-26D	14-19	ND
MW-29D	14-19	ND
MW-34D	27.5-28.5	ND
MW-36D	18.5-19.5	ND
MW-64	19-24	ND
MW-65	11-16	ND
MW-66D	24-29	ND
MW-BS-02D	24.5-25.5	ND
MW-BS-02I	14.5-15.5	ND
OU-4		
WCMW-01I	35-45	ND
WCMW-02I	34.5 - 44.5	ND
WCMW-03I	19.4 - 24.4	ND
WCMW-03I2	28.55 - 33.55	ND
WCMW-04I	19.4-24.4	ND
WCMW-04I2	29.85 - 34.85	ND
WCMW-05I	19.61 - 24.61	ND
WCMW-05I2	29.46 - 34.46	ND
WCMW-06I	19.55 - 24.55	ND
WCMW-06I2	29.83 - 34.83	ND
WCMW-10S	15-20	ND
WCMW-10D	40-50	ND
WCMW-12I	25-30	ND
WCMW-13I	25-30	ND
WCMW-14I	20-25	ND
WCMW-14I2	30-35	ND
WCMW-16I	20-25	ND
WCMW-16I2	30-35	ND



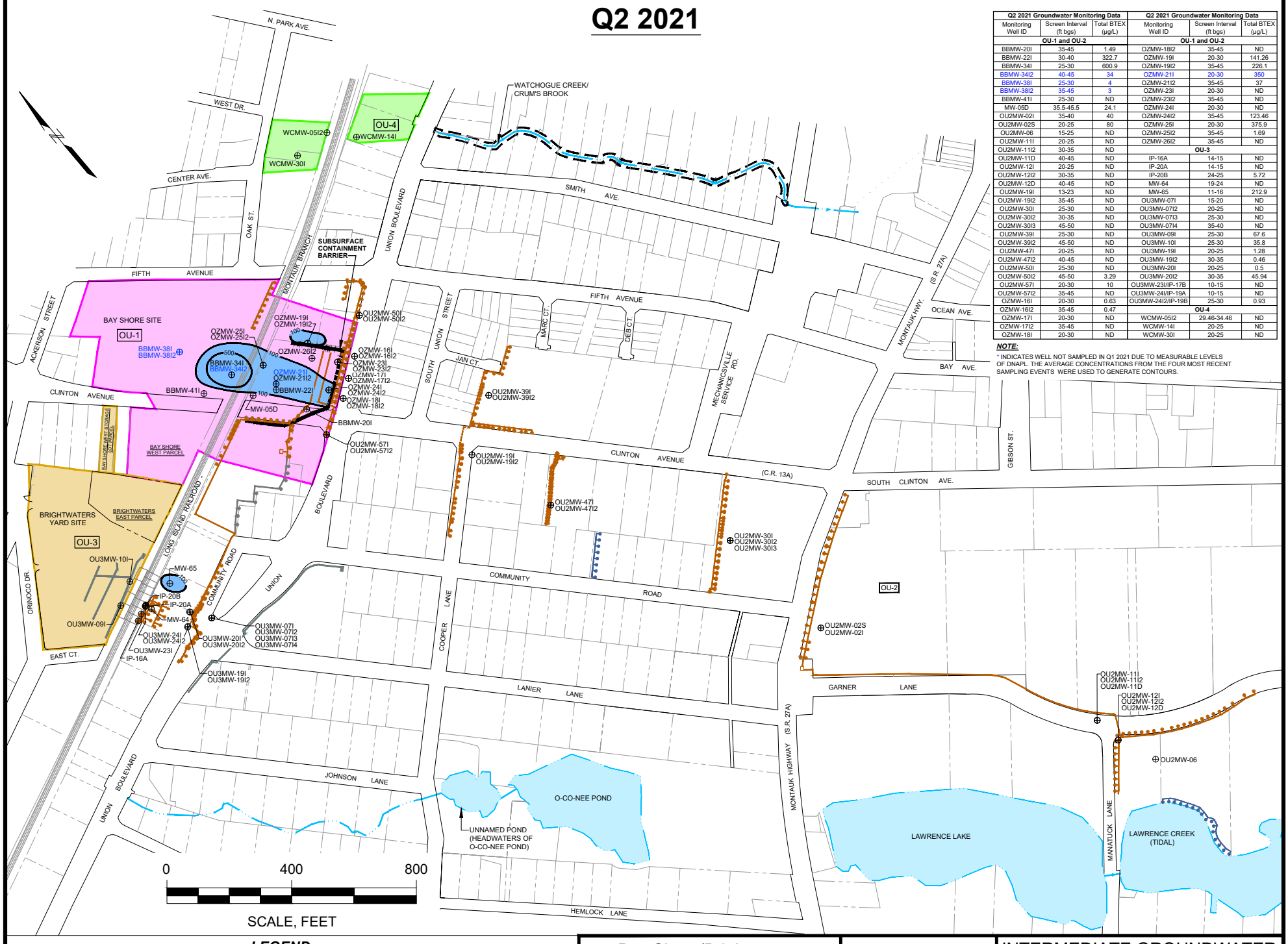
Q2 2021

Q2 2021 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-20I	35-45	1.49
BBMW-22I	30-40	322.7
BBMW-34I	25-30	600.9
BBMW-34I2	40-45	34
BBMW-38I	25-30	4
BBMW-38I2	35-45	3
BBMW-41I	25-30	ND
MW-05D	35.5-45.5	24.1
OU2MW-02I	35-40	40
OU2MW-02S	20-25	80
OU2MW-06	15-25	ND
OU2MW-11I	20-25	ND
OU2MW-11I2	30-35	ND
OU2MW-11D	40-45	ND
OU2MW-12I	20-25	ND
OU2MW-12I2	30-35	ND
OU2MW-12D	40-45	ND
OU2MW-19I	13-23	ND
OU2MW-19I2	35-45	ND
OU2MW-30I	25-30	ND
OU2MW-30I2	30-35	ND
OU2MW-30I3	45-50	ND
OU2MW-39I	25-30	ND
OU2MW-39I2	45-50	ND
OU2MW-47I	20-25	ND
OU2MW-47I2	40-45	ND
OU2MW-50I	25-30	ND
OU2MW-50I2	45-50	3.29
OU2MW-57I	20-30	10
OU2MW-57I2	35-45	ND
OZMW-16I	20-30	0.63
OZMW-16I2	35-45	0.47
OZMW-17I	20-30	ND
OZMW-17I2	35-45	ND
OZMW-18I	20-30	ND

Q2 2021 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
OU-1 and OU-2		
OZMW-18I2	35-45	ND
OZMW-19I	20-30	141.26
OZMW-19I2	35-45	226.1
OZMW-21I	20-30	350
OZMW-21I2	35-45	37
OZMW-23I	20-30	ND
OZMW-23I2	35-45	ND
OZMW-24I	20-30	ND
OZMW-24I2	35-45	123.46
OZMW-25I	20-30	375.9
OZMW-25I2	35-45	1.69
OZMW-26I2	35-45	ND
OU-3		
IP-16A	14-15	ND
IP-20A	14-15	ND
IP-20B	24-25	5.72
MW-64	19-24	ND
MW-65	11-16	212.9
OU3MW-07I	15-20	ND
OU3MW-07I2	20-25	ND
OU3MW-07I3	25-30	ND
OU3MW-07I4	35-40	ND
OU3MW-09I	25-30	67.6
OU3MW-10I	25-30	35.8
OU3MW-19I	20-25	1.28
OU3MW-19I2	30-35	0.46
OU3MW-20I	20-25	0.5
OU3MW-20I2	30-35	45.94
OU3MW-23I/IP-17B	10-15	ND
OU3MW-24I/IP-19A	10-15	ND
OU3MW-24I2/IP-19B	25-30	0.93
OU-4		
WCMW-05I2	29.46-34.46	ND
WCMW-14I	20-25	ND
WCMW-30I	20-25	ND

NOTE:

* INDICATES WELL NOT SAMPLED IN Q1 2021 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.



LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-38I — WELL NOT SAMPLED IN Q1 2019 DUE TO MEASURABLE LEVELS OF DNAPL
- µg/L — MICROGRAMS PER LITER
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- BTEX ≧5,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE

NOTE:
WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).

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INTERMEDIATE GROUNDWATER TOTAL BTEX ISO-CONCENTRATION MAPS (10-50 FEET BGS)

Project 1905774 | November 2021 | Fig. 13

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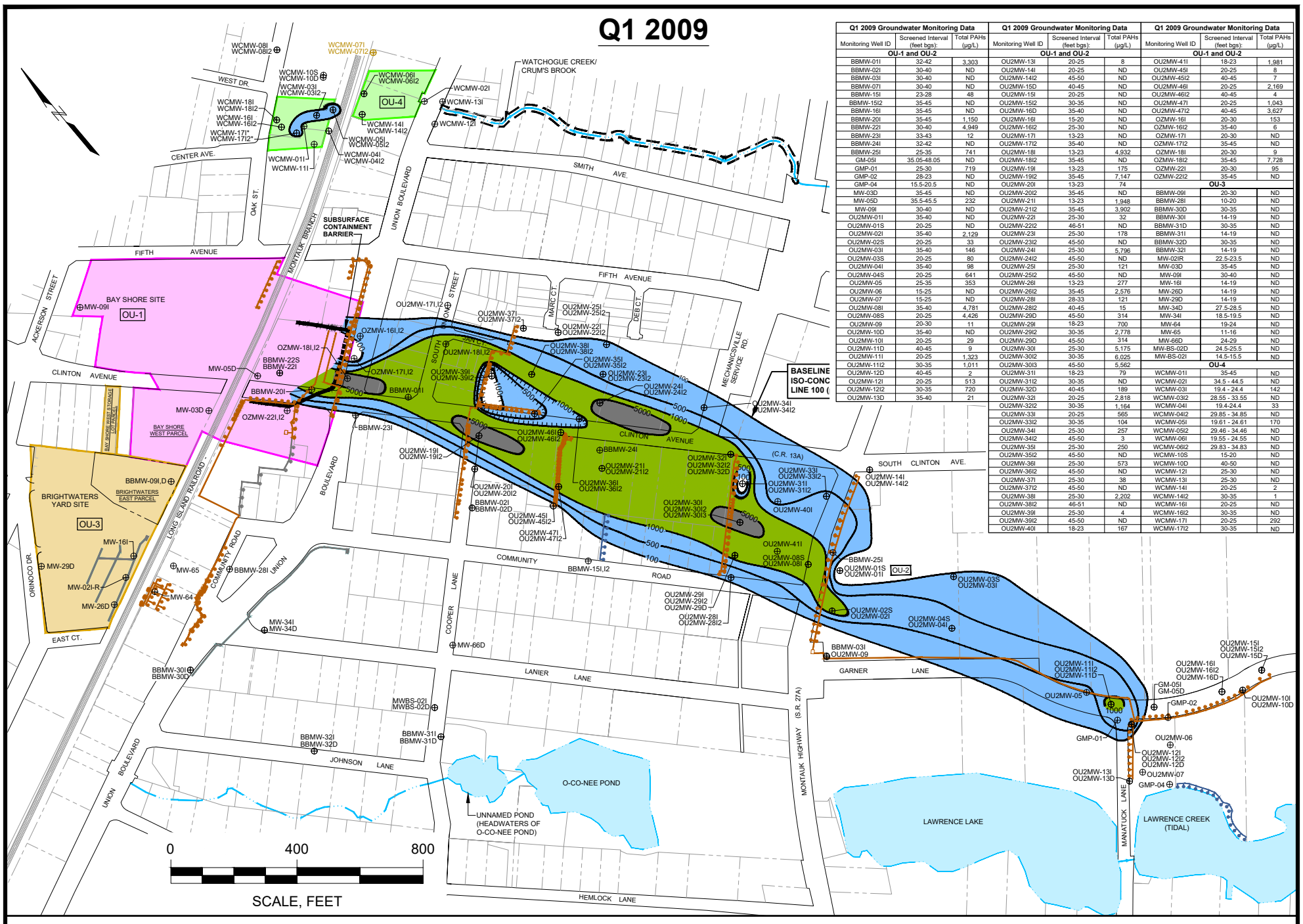
Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01I	32-42	3,303
BBMW-02I	30-40	ND
BBMW-03I	30-40	ND
BBMW-07I	30-40	ND
BBMW-15I	23-28	48
BBMW-15I2	35-45	ND
BBMW-16I	35-45	ND
BBMW-20I	35-45	1,150
BBMW-22I	30-40	4,949
BBMW-23I	33-43	12
BBMW-24I	32-42	ND
BBMW-25I	25-35	741
GM-05I	35.05-48.05	ND
GMP-01	25-30	719
GMP-02	28-23	ND
GMP-04	15.5-20.5	ND
MW-03D	35-45	ND
MW-05D	35.5-45.5	232
MW-09I	30-40	ND
OU2MW-01I	35-40	ND
OU2MW-01S	20-25	ND
OU2MW-02I	35-40	2,129
OU2MW-02S	20-25	33
OU2MW-03I	35-40	146
OU2MW-03S	20-25	80
OU2MW-04I	35-40	98
OU2MW-04S	20-25	641
OU2MW-05	25-35	353
OU2MW-06	15-25	ND
OU2MW-07	15-25	ND
OU2MW-08I	35-40	4,781
OU2MW-08S	20-25	4,426
OU2MW-09	20-30	11
OU2MW-10D	35-40	ND
OU2MW-10I	20-25	29
OU2MW-11D	40-45	9
OU2MW-11I	20-25	1,323
OU2MW-11I2	30-35	1,011
OU2MW-12D	40-45	2
OU2MW-12I	20-25	513
OU2MW-12I2	30-35	720
OU2MW-13D	35-40	21

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-13I	20-25	8
OU2MW-14I	20-25	ND
OU2MW-14I2	45-50	ND
OU2MW-15D	40-45	ND
OU2MW-15I	20-25	ND
OU2MW-15I2	30-35	ND
OU2MW-16D	35-40	ND
OU2MW-16I	15-20	ND
OU2MW-16I2	25-30	ND
OU2MW-17I	13-23	ND
OU2MW-17I2	35-40	ND
OU2MW-18I	13-23	4,932
OU2MW-18I2	35-45	ND
OU2MW-19I	13-23	175
OU2MW-19I2	35-45	7,147
OU2MW-20I	13-23	74
OU2MW-20I2	35-45	ND
OU2MW-21I	13-23	1,948
OU2MW-21I2	35-45	3,902
OU2MW-22I	25-30	32
OU2MW-22I2	46-51	ND
OU2MW-23I	25-30	178
OU2MW-23I2	45-50	ND
OU2MW-24I	25-30	5,796
OU2MW-24I2	45-50	ND
OU2MW-25I	25-30	121
OU2MW-25I2	45-50	ND
OU2MW-26I	13-23	277
OU2MW-26I2	35-45	2,576
OU2MW-28I	28-33	121
OU2MW-28I2	40-45	15
OU2MW-29D	45-50	314
OU2MW-29I	18-23	700
OU2MW-29I2	30-35	2,778
OU2MW-29D	45-50	314
OU2MW-30I	25-30	5,175
OU2MW-30I2	30-35	6,025
OU2MW-30I3	45-50	5,562
OU2MW-31I	18-23	79
OU2MW-31I2	30-35	ND
OU2MW-32D	40-45	189
OU2MW-32I	20-25	2,818
OU2MW-32I2	30-35	1,164
OU2MW-33I	20-25	565
OU2MW-33I2	30-35	104
OU2MW-34I	25-30	257
OU2MW-34I2	45-50	3
OU2MW-35I	25-30	250
OU2MW-35I2	45-50	ND
OU2MW-36I	25-30	573
OU2MW-36I2	45-50	ND
OU2MW-37I	25-30	38
OU2MW-37I2	45-50	ND
OU2MW-38I	25-30	2,202
OU2MW-38I2	46-51	ND
OU2MW-39I	25-30	4
OU2MW-39I2	45-50	ND
OU2MW-40I	18-23	167

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-41I	18-23	1,981
OU2MW-45I	20-25	8
OU2MW-45I2	40-45	7
OU2MW-46I	20-25	2,169
OU2MW-46I2	40-45	4
OU2MW-47I	20-25	1,043
OU2MW-47I2	40-45	3,627
OZMW-16I	20-30	153
OZMW-16I2	35-40	6
OZMW-17I	20-30	ND
OZMW-17I2	35-45	ND
OZMW-18I	20-30	9
OZMW-18I2	35-45	7,728
OZMW-22I	20-30	95
OZMW-22I2	35-45	ND
OU-3		
BBMW-09I	20-30	ND
BBMW-28I	10-20	ND
BBMW-30D	30-35	ND
BBMW-30I	14-19	ND
BBMW-31D	30-35	ND
BBMW-31I	14-19	ND
BBMW-32D	30-35	ND
BBMW-32I	14-19	ND
MW-02IR	22.5-23.5	ND
MW-03D	35-45	ND
MW-09I	30-40	ND
MW-16I	14-19	ND
MW-26D	14-19	ND
MW-29D	14-19	ND
MW-34D	27.5-28.5	ND
MW-34I	18.5-19.5	ND
MW-64	19-24	ND
MW-65	11-16	ND
MW-66D	24-29	ND
MW-BS-02D	24.5-25.5	ND
MW-BS-02I	14.5-15.5	ND
OU-4		
WCMW-01I	35-45	ND
WCMW-02I	34.5 - 44.5	ND
WCMW-03I	19.4 - 24.4	142
WCMW-03I2	28.55 - 33.55	ND
WCMW-04I	19.4-24.4	33
WCMW-04I2	29.85 - 34.85	ND
WCMW-05I	19.61 - 24.61	170
WCMW-05I2	29.46 - 34.46	ND
WCMW-06I	19.55 - 24.55	ND
WCMW-06I2	29.83 - 34.83	ND
WCMW-10S	15-20	ND
WCMW-10D	40-50	ND
WCMW-12I	25-30	ND
WCMW-13I	25-30	ND
WCMW-14I	20-25	2
WCMW-14I2	30-35	1
WCMW-16I	20-25	ND
WCMW-16I2	30-35	ND
WCMW-17I	20-25	292
WCMW-17I2	30-35	ND



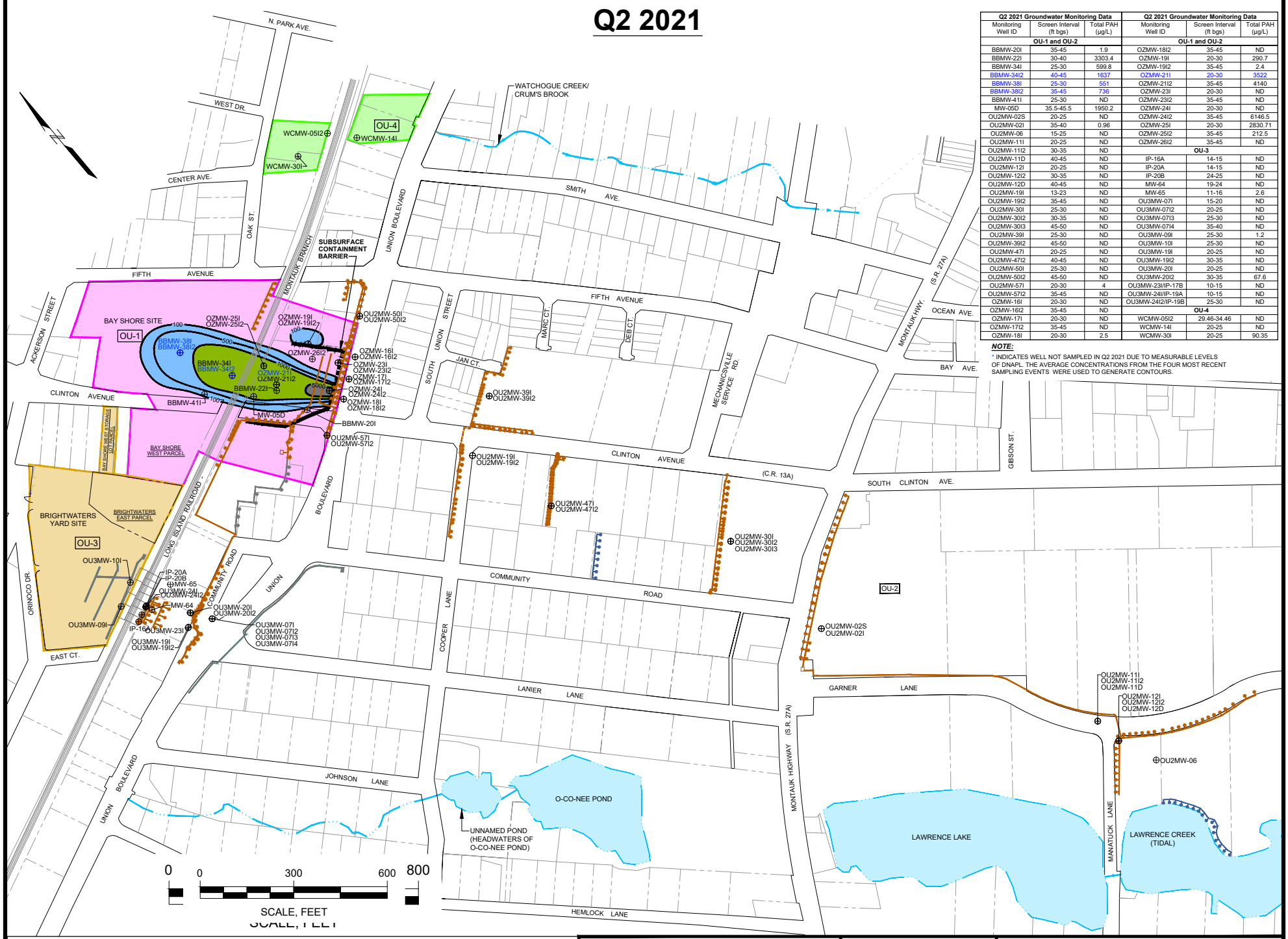
Q2 2021

Q2 2021 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAH (µg/L)
OU-1 and OU-2		
BBMW-20I	35-45	1.9
BBMW-22I	30-40	3303.4
BBMW-34I	25-30	599.8
BBMW-34I2	40-45	1637
BBMW-38I	25-30	551
BBMW-38I2	35-45	736
BBMW-41I	25-30	ND
MW-05D	35.5-45.5	1950.2
OU2MW-02S	20-25	ND
OU2MW-02I	35-40	0.96
OU2MW-06	15-25	ND
OU2MW-11I	20-25	ND
OU2MW-11I2	30-35	ND
OU2MW-11D	40-45	ND
OU2MW-12I	20-25	ND
OU2MW-12I2	30-35	ND
OU2MW-12D	40-45	ND
OU2MW-19I	13-23	ND
OU2MW-19I2	35-45	ND
OU2MW-30I	25-30	ND
OU2MW-30I2	30-35	ND
OU2MW-30I3	45-50	ND
OU2MW-39I	25-30	ND
OU2MW-39I2	45-50	ND
OU2MW-47I	20-25	ND
OU2MW-47I2	40-45	ND
OU2MW-50I	25-30	ND
OU2MW-50I2	45-50	ND
OU2MW-57I	20-30	4
OU2MW-57I2	35-45	ND
OZMW-16I	20-30	ND
OZMW-16I2	35-45	ND
OZMW-17I	20-30	ND
OZMW-17I2	35-45	ND
OZMW-18I	20-30	2.5

Q2 2021 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAH (µg/L)
OU-1 and OU-2		
OZMW-18I2	35-45	ND
OZMW-19I	20-30	290.7
OZMW-19I2	35-45	2.4
OZMW-21I	20-30	3522
OZMW-21I2	35-45	4140
OZMW-23I	20-30	ND
OZMW-23I2	35-45	ND
OZMW-24I	20-30	ND
OZMW-24I2	35-45	6146.5
OZMW-25I	20-30	2830.71
OZMW-25I2	35-45	212.5
OZMW-26I2	35-45	ND
OU-3		
IP-16A	14-15	ND
IP-20A	14-15	ND
IP-20B	24-25	ND
MW-64	19-24	ND
MW-65	11-16	2.6
OU3MW-07I	15-20	ND
OU3MW-07I2	20-25	ND
OU3MW-07I3	25-30	ND
OU3MW-07I4	35-40	ND
OU3MW-09I	25-30	1.2
OU3MW-10I	25-30	ND
OU3MW-19I	20-25	ND
OU3MW-19I2	30-35	ND
OU3MW-20I	20-25	ND
OU3MW-20I2	30-35	67.6
OU3MW-23I/IP-17B	10-15	ND
OU3MW-24I/IP-19A	10-15	ND
OU3MW-24I2/IP-19B	25-30	ND
OU-4		
WCMW-05I2	29.46-34.46	ND
WCMW-14I	20-25	ND
WCMW-30I	20-25	90.35

NOTE:

* INDICATES WELL NOT SAMPLED IN Q2 2021 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.



LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-38I — WELL NOT SAMPLED IN Q1 2019 DUE TO MEASURABLE LEVELS OF DNAPL
- µg/L — MICROGRAMS PER LITER
- TOTAL PAH ≧100 µg/L
- TOTAL PAH ≧1,000 µg/L
- TOTAL PAH ≧5,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS

NOTE:
WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).

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INTERMEDIATE GROUNDWATER
TOTAL PAH
ISO-CONCENTRATION MAPS
(10-50 FEET BGS)

Project 1905774 | November 2021 | Fig. 14

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Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	33
BBMW-02D	73-83	ND
BBMW-03D	52-62	ND
BBMW-05D	64-74	482
BBMW-05D2	126.5-136.5	7
BBMW-07D	55-65	ND
BBMW-15D	70-80	ND
BBMW-16D	68-78	ND
BBMW-22D	64-74	2,314
BBMW-23D	49.5-59.5	7
BBMW-23D2	63-73	ND
BBMW-24D	59.5-69.5	22
BBMW-25D	62-72	35
GM-05D	60.95-75.95	2
OU2MW-01D	65-70	ND
OU2MW-01I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-02I2	50-55	3
OU2MW-03D	65-70	ND
OU2MW-03I2	50-55	5
OU2MW-04D	65-70	2
OU2MW-04I2	50-55	ND
OU2MW-08D	65-70	ND
OU2MW-08I2	50-55	152
OU2MW-17D	60-70	ND
OU2MW-18D	60-70	ND
OU2MW-19D	65-70	542
OU2MW-20D	65-70	ND
OU2MW-22D	67-72	ND
OU2MW-23D	65-70	ND
OU2MW-24D	62-67	ND
OU2MW-25D	70-75	ND
OU2MW-26D	60-70	474
OU2MW-30D	50-55	134
OU2MW-30D2	60-65	375
OU2MW-33D	50-55	2
OU2MW-35D	57-62	ND
OU2MW-36D	61-66	ND
OU2MW-37D	67-72	ND
OU2MW-38D	56-61	ND
OU2MW-39D	70-75	ND
OU2MW-45D	55-60	ND
OU2MW-47D	60-65	569
OZMW-16D	55-65	ND
OZMW-17D	53-63	ND
OZMW-18D	55-65	216
OZMW-22D	55-65	ND
OU-3		
BBMW-09D	62-72	ND
BBMW-13D	62-72	ND
OU-4		
WCMW-01D	64-74	ND
WCMW-02D	62-72	ND
WCMW-12D	67-72	ND
WCMW-13D	65-70	ND
WCMW-14D	67-72	ND

Q2 2021

Q2 2021 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	2.82
BBMW-05D	64-74	1471
OU2MW-02I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-19D	65-70	10.9
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-39D	70-75	ND
OU2MW-42D	60-65	154.2
OU2MW-43D	65-70	28.8
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OZMW-16D	55-65	ND
OZMW-17D	53-63	375.4
OZMW-18D	55-65	127.3
OZMW-23D	55-65	ND
OZMW-24D	55-65	611.76

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- µg/L — MICROGRAMS PER LITER
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)

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DEEP GROUNDWATER
TOTAL BTEX
ISO-CONCENTRATION MAPS
(BELOW 50 FEET BGS)

Project 1905774 | November 2021 | Fig. 15

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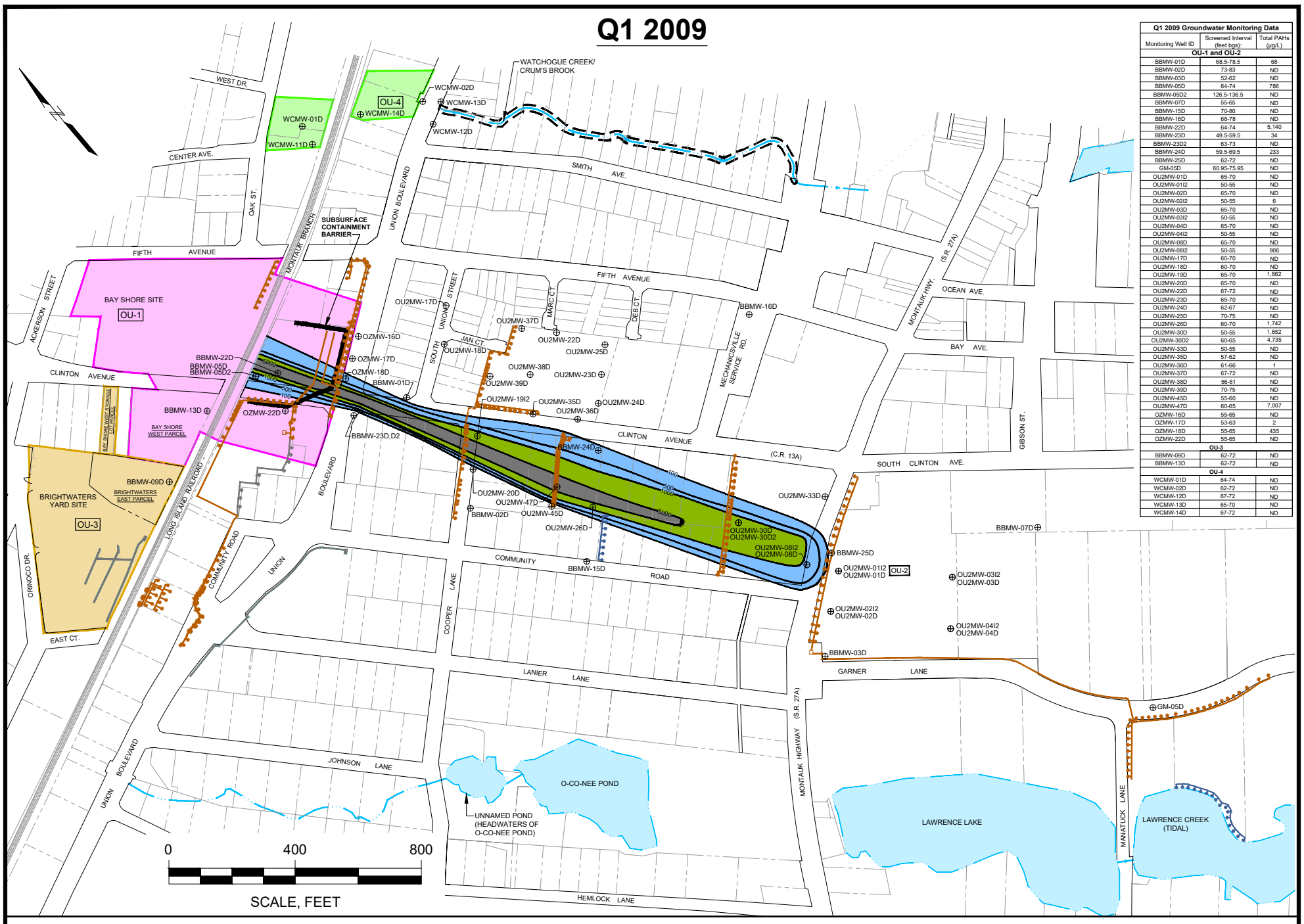
Q1 2009

Q1 2009 Groundwater Monitoring Data

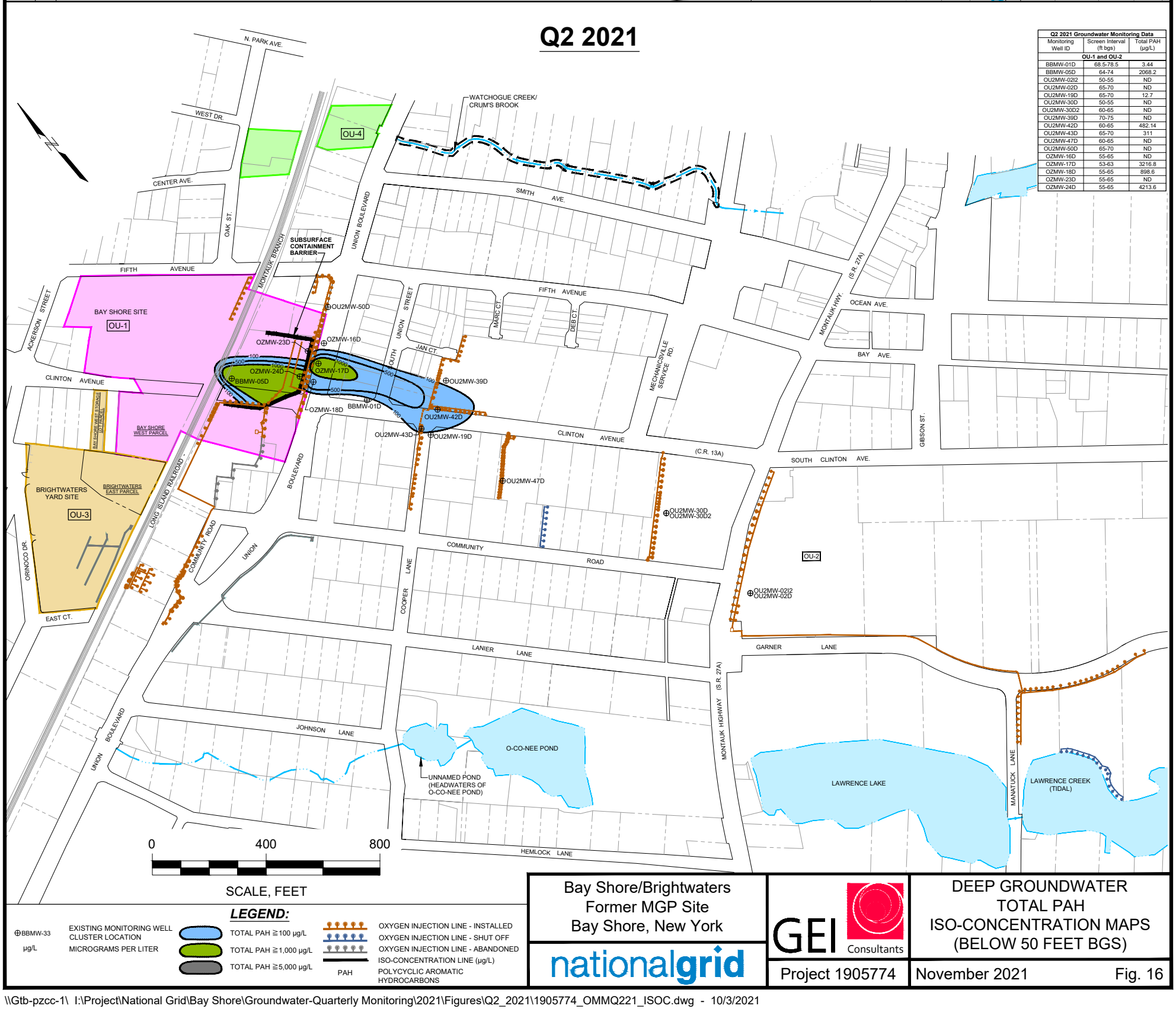
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	68
BBMW-02D	73-83	ND
BBMW-03D	52-62	ND
BBMW-05D	64-74	786
BBMW-05D2	126.5-136.5	ND
BBMW-07D	55-65	ND
BBMW-15D	70-80	ND
BBMW-16D	68-78	ND
BBMW-22D	64-74	5,140
BBMW-23D	49.5-59.5	34
BBMW-23D2	63-73	ND
BBMW-24D	59.5-69.5	233
BBMW-25D	62-72	ND
GM-05D	60.95-75.95	ND
OU2MW-01D	65-70	ND
OU2MW-01I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-02I2	50-55	6
OU2MW-03D	65-70	ND
OU2MW-03I2	50-55	ND
OU2MW-04D	65-70	ND
OU2MW-04I2	50-55	ND
OU2MW-08D	65-70	ND
OU2MW-08I2	50-55	906
OU2MW-17D	60-70	ND
OU2MW-18D	60-70	ND
OU2MW-19D	65-70	1,862
OU2MW-20D	65-70	ND
OU2MW-22D	67-72	ND
OU2MW-23D	65-70	ND
OU2MW-24D	62-67	ND
OU2MW-25D	70-75	ND
OU2MW-26D	60-70	1,742
OU2MW-30D	50-55	1,652
OU2MW-30D2	60-65	4,735
OU2MW-33D	50-55	ND
OU2MW-35D	57-62	ND
OU2MW-36D	61-66	1
OU2MW-37D	67-72	ND
OU2MW-38D	56-61	ND
OU2MW-39D	70-75	ND
OU2MW-45D	55-60	ND
OU2MW-47D	60-65	7,007
OZMW-16D	55-65	ND
OZMW-17D	53-63	2
OZMW-18D	55-65	435
OZMW-22D	55-65	ND
OU-3		
BBMW-09D	62-72	ND
BBMW-13D	62-72	ND
OU-4		
WCMW-01D	64-74	ND
WCMW-02D	62-72	ND
WCMW-12D	67-72	ND
WCMW-13D	65-70	ND
WCMW-14D	67-72	ND



Q2 2021

Q2 2021 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAH (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	3.44
BBMW-05D	64-74	2068.2
OU2MW-02I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-19D	65-70	12.7
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-39D	70-75	ND
OU2MW-42D	60-65	482.14
OU2MW-43D	65-70	311
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OZMW-16D	55-65	ND
OZMW-17D	53-63	3216.8
OZMW-18D	55-65	898.6
OZMW-23D	55-65	ND
OZMW-24D	55-65	4213.6



LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- µg/L — MICROGRAMS PER LITER
- TOTAL PAH ≧100 µg/L
- TOTAL PAH ≧1,000 µg/L
- TOTAL PAH ≧5,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS

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DEEP GROUNDWATER
TOTAL PAH
ISO-CONCENTRATION MAPS
(BELOW 50 FEET BGS)

Project 1905774 | November 2021 | Fig. 16

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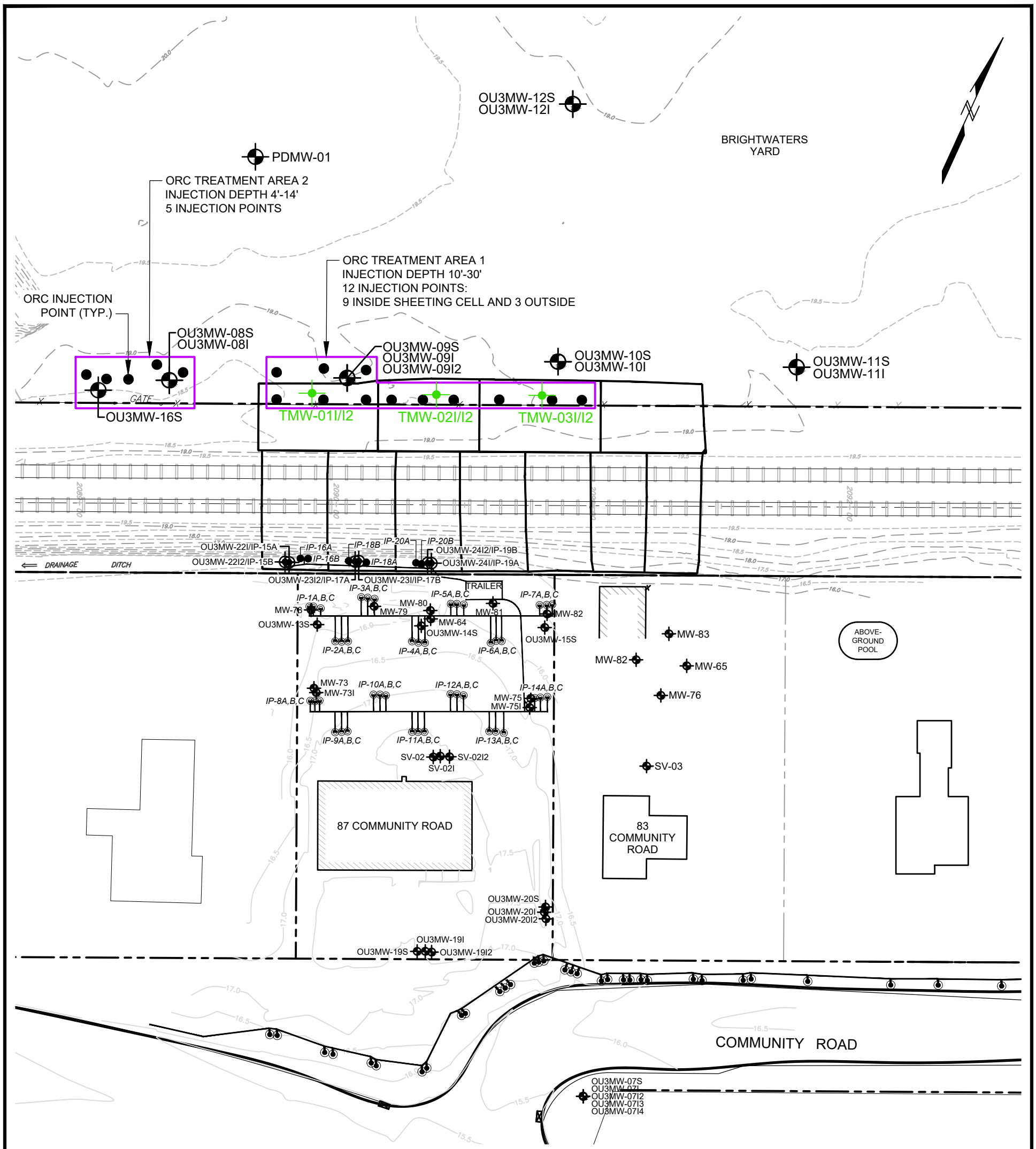

SOURCES:

1. BOUNDARY AND TOPOGRAPHIC SURVEYS OF SEC. 391, BLOCK 1 SUFFOLK COUNTY, NEW YORK PREPARED BY KS ENGINEERS, P.C., 24 COMMERCE STREET, NEWARK, N.J. 07102 DATED 07/09/09, 01/21/11 AND 07/06/2011.
2. LIRR EXCAVATION IRM PHASES I, II, AND III WERE SURVEYED IN JANUARY, MAY, AND SEPTEMBER 2010 BY KS ENGINEERS, P.C., RESPECTIVELY.
3. 2004 IRM EXCAVATION LOCATIONS ARE APPROXIMATE AND BASED ON "FIGURE 3 BRIGHTWATERS YARD PHASE I SUPPLEMENTAL IRM ACTIVITIES" OF THE FINAL SUPPLEMENTAL IRM COMPLETION REPORT PREPARED BY PAULUS, SOKOLOWSKI AND SARTOR, ENGINEERING P.C.

SURVEYORS NOTES:

1. VERTICAL DATUM NAVD 88 AND HORIZONTAL DATUM NEW YORK LONG ISLAND STATE PLANE COORDINATE SYSTEM (NAD 83) ESTABLISHED BY GLOBAL POSITIONING SYSTEM METHODOLOGY
2. R.O.W. AND BASELINE OF THE LONG ISLAND RAILROAD ESTABLISHED PER A CERTAIN MAP TITLED "STATION MAP-LANDS, THE LONG ISLAND RAILROAD COMPANY OPERATED BY THE LONG ISLAND RAILROAD COMPANY, MONTAUK DIVISION, STATION 2104+56.57 TO STATION 2154+65.772", DATED JUNE 30, 1916, FOUND IN THE OFFICE OF THE VALUATION ENGINEER, JAMAICA, NEW YORK, SHEETS V1/65 & V1/66.
3. MAP REFERENCE: A CERTAIN MAP TITLED "LAWRANCE FARM CORPORATION, SECTION ONE, BAY SHORE, SUFFOLK CO., NEW YORK", PREPARED BY EUGENE R. SMITH, C.E., ISLIP, NY DATED MARCH-1923 AND FILED ON APRIL 28, 1923 AS FILE No. 776.

LEGEND:

- EXISTING BUILDING
- BUILDING NOT SURVEYED
- PROPERTY LINE (SURVEYED)
- PROPERTY LINE (APPROXIMATE)
- FENCE
- LIRR ROW
- 19.0 EXISTING GROUND SURFACE CONTOUR (FT)
- EXISTING RAILROAD RAIL
- GROUNDWATER MONITORING WELL CLUSTER (S = SHALLOW, I = INTERMEDIATE)
- FT BGS — FEET BELOW GROUND SURFACE
- SHEETING LEFT IN PLACE (2 FT - 30 FT BGS)
- OXYGEN INJECTION SYSTEM
- TEMPORARY MONITORING WELL CLUSTER - SEPTEMBER 2019
- APPROXIMATE ORC-A INJECTION POINT

0 40 80

SCALE: 1" = 40'

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ORC-A APPLICATION

Project 1905774 | November 2021 | Fig. 17

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Appendices

Appendices also available at www.bayshoreworksmgp.com

- **A** Groundwater Monitoring Program Tracking Summary
- **B** OU-1 Oxygen Injection System Operational Data
- **C** OU-2 Oxygen Injection System Operational Data
- **D** OU-3 Oxygen Injection System Operational Data
- **E** Summary of Groundwater Parameter Data
- **F** Recent Iso-Concentration Maps –Q4 2020, Q1 2021
- **G** Summary of Sulfate Concentrations

Appendix A. Groundwater Monitoring Program Tracking Summary
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q4 2020	Q1 2021	Q2 2021
OU-1 Monitoring Wells					
BBMW-05D	**74**	**64-74**	**X**	**X**	**X**
BBMW-20I	**45**	**35-45**	**X**	**X**	**X**
BBMW-22S	**10**	**5-10**	**X**	**X**	**X**
BBMW-22I	**40**	**30-40**	**X**	**X**	**X**
BBMW-22D	**74**	**64-74**	**-***	**-***	
BBMW-34S	**15**	**5-15**	**X**	**X**	**X**
BBMW-34I	**30**	**25-30**	**X**	**X**	**X**
BBMW-34I2	**45**	**40-45**	**-***	**-***	
BBMW-37S	**17**	**5-15**	**X**	**X**	**X**
BBMW-38S	**15**	**5-15**	**X**	**X**	**X**
BBMW-38I	**30**	**25-30**	**-***	**-***	
BBMW-38I2	**45**	**40-45**	**-***	**-***	
BBMW-38D	**70**	**65-70**	**-**	**-**	
BBMW-39S	**15**	**5-15**	**X**	**X**	**X**
BBMW-39I	**30**	**25-30**	**-**	**-**	
BBMW-39I2	**50**	**45-50**	**-**	**-**	
BBMW-39D	**70**	**65-70**	**-**	**-**	
BBMW-40S	**15**	**5-15**	**X**	**X**	**X**
BBMW-40I	**30**	**25-30**	**-**	**-**	
BBMW-40I2	**50**	**45-50**	**-**	**-**	
BBMW-40D	**75**	**70-75**	**-**	**-**	
BBMW-41S	**16**	**6-16**	**X**	**X**	**X**
BBMW-41I	**30**	**25-30**	**-**	**-**	**X**
BBMW-41I2	**50**	**45-50**	**-**	**-**	
BBMW-41D	**70**	**65-70**	**-**	**-**	
BBMW-42S	**12**	**5-10**	**X**	**X**	**X**
BBMW-42I	**27**	**15-25**	**-**	**-**	
BBMW-42I2	**47**	**35-45**	**-**	**-**	
BBMW-43S	**12**	**5-10**	**-**	**-**	
BBMW-43I	**27**	**15-25**	**-**	**-**	
BBMW-43I2	**47**	**35-45**	**-**	**-**	
MW-03S	**13**	**3-13**	**-**	**-**	**X**
MW-03D	**45**	**35-45**	**-**	**-**	
MW-05S	**14**	**4-14**	**X**	**X**	**X**
MW-05D	**45.5**	**35.5-45.5**	**X**	**X**	**X**

Appendix A. Groundwater Monitoring Program Tracking Summary
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q4 2020	Q1 2021	Q2 2021
MW-09S	14	4-14	-	-	
MW-09I	40	30-40	-	-	
MW-09I2	50	45-50	-	-	
MW-09D	70	65-70	-	-	
OU2MW-48S	13	3-13	-	-	
OU2MW-48I	30	25-30	-	-	
OU2MW-48I2	50	45-50	-	-	
OU2MW-48D	70	65-70	-	-	
OU2MW-49S	13	3-13	-	-	
OU2MW-49I	30	25-30	-	-	
OU2MW-49I2	50	45-50	-	-	
OU2MW-49D	68	63-68	-	-	
OU2MW-50S	17	5-15	X	X	X
OU2MW-50I	32	25-30	X	X	X
OU2MW-50I2	52	45-50	X	X	X
OU2MW-50D	72	65-70	X	X	X
OU2MW-51S	17	5-15	-	-	
OU2MW-51I	32	25-30	-	-	
OU2MW-51I2	52	45-50	-	-	
OU2MW-51D	68	61-66	-	-	
OU2MW-57S	17	5-15	X	X	X
OU2MW-57I	32	20-30	X	X	X
OU2MW-57I2	47	35-45	X	X	X
OZMW-16S	15	5-15	X	X	X
OZMW-16I	25	20-25	X	X	X
OZMW-16I2	40	35-40	X	X	X
OZMW-16D	60	55-60	X	X	X
OZMW-17S	15	5-15	X	X	X
OZMW-17I	25	20-25	X	X	X
OZMW-17I2	40	35-40	X	X	X
OZMW-17D	63	53-63	X	X	X
OZMW-18S	15	5-15	X	X	X
OZMW-18I	25	20-25	X	X	X
OZMW-18I2	40	35-40	X	X	X
OZMW-18D	60	55-60	X	X	X
OZMW-19S	15	5-15	X	X	X

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q4 2020	Q1 2021	Q2 2021
OZMW-19I	25	20-25	X	X	X
OZMW-19I2	40	35-40	X	X	X
OZMW-19D	60	55-60	-	-	
OZMW-21S	15	5-15	-*	-*	
OZMW-21I	25	20-25	-*	-*	
OZMW-21I2	40	35-40	X	X	X
OZMW-21D	60	55-60	-*	-*	
OZMW-22SR	17	5-15	X	-	X
OZMW-22IR	22	20-30	-	-	
OZMW-23S	15	5-15	X	X	X
OZMW-23I	25	20-25	X	X	X
OZMW-23I2	40	35-40	X	X	X
OZMW-23D	65	55-65	X	X	X
OZMW-24S	15	5-15	X	X	X
OZMW-24I	25	20-25	X	X	X
OZMW-24I2	40	35-40	X	X	X
OZMW-24D	65	55-65	X	X	X
OZMW-25S	15	5-15	X	X	X
OZMW-25I	25	20-25	X	X	X
OZMW-25I2	40	35-40	X	X	X
OZMW-25D	65	55-65	-	-	
OZMW-26S	15	5-15	-	-	
OZMW-26I	25	20-25	-	-	
OZMW-26I2	40	35-40	X	X	X
OZMW-26D	65	55-65	-	-	
OU1PZ-101	14	4-14	X	X	X
OU1PZ-102	14	4-14	X	X	X
OU1PZ-103	14	4-14	X	X	X
OU1PZ-104	14	4-14	-	-	X
OU1PZ-105	14	4-14	X	X	X
			54	53	57
OU-2 Monitoring Wells					
BBMW-01S	1-15	5-15	-		
BBMW-01I	42	32-42	-		
BBMW-01D	78.5	68.5-78.5	X	X	X
BBMW-02S	15	5-15	-	-	

Appendix A. Groundwater Monitoring Program Tracking Summary
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q4 2020	Q1 2021	Q2 2021
BBMW-02I	40	30-40	-	-	
BBMW-02D	73	63-73	-	-	
BBMW-03S	13	3-13	-	-	
BBMW-03I	40	30-40	-	-	
BBMW-03D	83	73-83	-	-	
BBMW-07S	15	5-15	-	-	
BBMW-07I	40	30-40	-	-	
BBMW-07D	65	55-65	-	-	
BBMW-15S	15	5-15	-	-	
BBMW-15I	28	23-28	-	-	
BBMW-15I2	45	35-45	-	-	
BBMW-15D	80	70-80	-	-	
BBMW-16S	15	5-15	-	-	
BBMW-16I	45	35-45	-	-	
BBMW-16D	78	68-78	-	-	
BBMW-23S	15	5-15	X	X	X
BBMW-23I	43	33-43	-	-	
BBMW-23D	59.5	49.5-59.5	-	-	
BBMW-23D2	73	63-73	-	-	
BBMW-24S	14	4-14	-	-	
BBMW-24I	42	32-42	-	-	
BBMW-24D	69.5	59.5-69.5	-	-	
BBMW-25S	14	4-14	-	-	
BBMW-25I	35	25-35	-	-	
BBMW-25D	72	62-72	X	X	X
GM-05S	20.1	5.1-20.1	-	-	
GM-05I	48.05	35.05-48.05	-	-	
GM-05D	75.95	60.95-75.95	-	-	
GM-06S			-	-	
GM-06I		unknown	-	-	
GM-06D		unknown	-	-	
GM-07S	24.75	9.75-24.75	-	-	
GM-07I	44.6	29.6-44.6	-	-	
GM-07D	65.3	50.3-65.3	-	-	
GM-08S	21.35	6.35-21.35	-	-	
GM-08I	44.95	29.95-44.95	-	-	

Appendix A. Groundwater Monitoring Program Tracking Summary
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q4 2020	Q1 2021	Q2 2021
GM-08D	63.25	48.25-63.25	-	-	
GM-09S	19.7	4.7-19.7	-	-	
GM-09I	43.7	28.7-43.7	-	-	
GM-09D	63.35	48.35-63.35	-	-	
GM-10S		unknown	-	-	
GM-10I		unknown	-	-	
GM-10D		unknown	-	-	
GM-10AD		unknown	-	-	
GMP-01	30	25-30	-	-	
GMP-02	23	18-23	-	-	
GMP-04	20.5	15.5-20.5	-	-	
MW-16AS	13	3.0-13.0	-	-	
MW-57W	10	2.0-10.0	-	-	
MW-58W	10	2.0-10.0	-	-	
OU2IW-01S	8	3-8	-	-	
OU2MW-01WT	8	3-8	-	-	
OU2MW-01S	25	20-25	-	-	
OU2MW-01I	40	35-40	-	-	
OU2MW-01I2	55	50-55	-	-	
OU2MW-01D	70	65-70	-	-	
OU2MW-02S	25	20-25	X	X	X
OU2MW-02I	40	35-40	X	X	X
OU2MW-02I2	55	50-55	X	X	X
OU2MW-02D	70	65-70	X	X	X
OU2MW-03S	25	20-25	-	-	
OU2MW-03I	40	35-40	-	-	
OU2MW-03I2	55	50-55	-	-	
OU2MW-03D	70	65-70	-	-	
OU2MW-04WT	8	3-8	-	-	
OU2MW-04S	25	20-25	-	-	
OU2MW-04I	40	35-40	-	-	
OU2MW-04I2	55	50-55	-	-	
OU2MW-04D	70	65-70	-	-	
OU2MW-05	35	25-35	-	-	
OU2MW-06	25	15-25	-	-	X
OU2MW-06S	8	3-8	-	-	X

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q4 2020	Q1 2021	Q2 2021
OU2MW-07	25	15-25	-	-	
OU2MW-07S	8	3-8	-	-	
OU2MW-08WT	8	3-8	-	-	
OU2MW-08S	25	20-25	-	-	
OU2MW-08I	40	35-40	-	-	
OU2MW-08I2	55	50-55	-	-	
OU2MW-08D	70	65-70	-	-	
OU2MW-09	40	30-40	-	-	
OU2MW-10S	7	3-7	-	-	
OU2MW-10I	25	20-25	-	-	
OU2MW-10D	40	35-40	-	-	
OU2MW-11S	8	3-8	-	-	X
OU2MW-11I	25	20-25	-	-	X
OU2MW-11I2	35	30-35	-	-	X
OU2MW-11D	45	40-45	-	-	X
OU2MW-12S	7	3-7	X	X	X
OU2MW-12I	25	20-25	X	X	X
OU2MW-12I2	35	30-35	X	X	X
OU2MW-12D	45	40-45	X	X	X
OU2MW-13S	8	3-8	-	-	
OU2MW-13I	25	20-25	-	-	
OU2MW-13D	40	35-40	-	-	
OU2MW-14S	8	3-8	-	-	
OU2MW-14I	25	20-25	-	-	
OU2MW-14I2	50	45-50	-	-	
OU2MW-15S	8	3-8	-	-	
OU2MW-15I	25	20-25	-	-	
OU2MW-15I2	25	30-25	-	-	
OU2MW-15D	45	40-45	-	-	
OU2MW-16S	8	3-8	-	-	
OU2MW-16I	20	15-20	-	-	
OU2M2-16I2	30	25-30	-	-	
OU2MW-16D	40	35-40	-	-	
OU2MW-17S	10	5-10	-	-	
OU2MW-17I	23	13-23	-	-	
OU2MW-17I2	45	35-45	-	-	

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q4 2020	Q1 2021	Q2 2021
OU2MW-17D	70	60-70	-	-	
OU2MW-18I	23	13-23	-	-	
OU2MW-18I2	45	35-45	-	-	
OU2MW-18D	70	60-70	-	-	
OU2MW-19I	23	13-23	X	X	X
OU2MW-19I2	45	35-45	X	X	X
OU2MW-19D	70	65-70	X	X	X
OU2MW-20S	9	4-9	-	-	
OU2MW-20I	23	13-23	-	-	
OU2MW-20I2	45	35-45	-	-	
OU2MW-20D	70	65-70	-	-	
OU2MW-21S	15	5-15	-	-	
OU2MW-21I	23	13-23	-	-	
OU2MW-21I2	45	35-45	-	-	
OU2MW-22S	15	5-15	-	-	
OU2MW-22I	30	25-30	-	-	
OU2MW-22I2	51	46-51	-	-	
OU2MW-22D	72	67-72	-	-	
OU2MW-23S	15	5-15	-	-	
OU2MW-23I	30	25-30	-	-	
OU2MW-23I2	50	45-50	-	-	
OU2MW-23D	70	65-70	-	-	
OU2MW-24S	15	5-15	-	-	
OU2MW-24I	30	25-30	-	-	
OU2MW-24I2	50	45-50	-	-	
OU2MW-24D	67	62-67	-	-	
OU2MW-25S	15	5-15	-	-	
OU2MW-25I	30	25-30	-	-	
OU2MW-25I2	50	45-50	-	-	
OU2MW-25D	75	70-75	-	-	
OU2MW-26S	11	6-11	-	-	
OU2MW-26I	23	13-23	-	-	
OU2MW-26I2	45	35-45	-	-	
OU2MW-26D	70	60-70	-	-	
OU2MW-27S	15	5-15	-	-	
OU2MW-27I	30	25-30	-	-	

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q4 2020	Q1 2021	Q2 2021
OU2MW-27I2	50	45-50	-	-	
OU2MW-27D	70	65-70	-	-	
OU2MW-28S	15	5-15			
OU2MW-28I	33	28-33			
OU2MW-28I2	45	40-45			
OU2MW-29I	23	18-23			
OU2MW-29I2	35	30-35			
OU2MW-29D	45	40-45			
OU2MW-30S	15	5-15	X	X	X
OU2MW-30I	30	25-30	X	X	X
OU2MW-30I2	35	30-35	X	X	X
OU2MW-30I3	50	45-50	X	X	X
OU2MW-30D	55	50-55	X	X	X
OU2MW-30D2	65	60-65	X	X	X
OU2MW-31I	23	18-23	-	-	
OU2MW-31I2	35	30-35	-	-	
OU2MW-32S	15	5-15	-	-	
OU2MW-32I	25	20-25	-	-	
OU2MW-32I2	35	30-35	-	-	
OU2MW-32D	45	40-45	-	-	
OU2MW-33S	15	5-15	-	-	
OU2MW-33I	30	25-30	-	-	
OU2MW-33I2	40	35-40	-	-	
OU2MW-33D	55	50-55	-	-	
OU2MW-34S	15	5-15	-	-	
OU2MW-34IR	30	25-30	-	-	
OU2MW-34I2R	50	45-50	-	-	
OU2MW-35S	15	5-15	-	-	
OU2MW-35I	30	25-30	-	-	
OU2MW-35I2	50	45-50	-	-	
OU2MW-35D	62	57-62	-	-	
OU2MW-36S	15	5-15	-	-	
OU2MW-36I	30	25-30	-	-	
OU2MW-36I2	50	45-50	-	-	
OU2MW-36D	66	61-66	-	-	
OU2MW-37S	15	5-15	-	-	

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q4 2020	Q1 2021	Q2 2021
OU2MW-37I	30	25-30	-	-	
OU2MW-37I2	50	45-50	-	-	
OU2MW-37D	72	67-72	-	-	
OU2MW-38S	15	5-15	-	-	
OU2MW-38I	30	25-30	-	-	
OU2MW-38I2	51	46-51	-	-	
OU2MW-38D	61	56-61	-	-	
OU2MW-39S	15	5-15	X	X	X
OU2MW-39I	30	25-30	X	X	X
OU2MW-39I2	50	45-50	X	X	X
OU2MW-39D	75	70-75	X	X	X
OU2MW-40S	15	5-15	-	-	
OU2MW-40I	23	18-23	-	-	
OU2MW-41S	15	5-15	-	-	
OU2MW-41I	23	18-23	-	-	
OU2MW-42S	15	5-15	-	-	
OU2MW-42I	30	25-30	-	-	
OU2MW-42I2	50	45-50	-	-	
OU2MW-42D	65	60-65	X	X	X
OU2MW-43S	15	5-15	-	-	
OU2MW-43I	30	25-30	-	-	
OU2MW-43I2	50	45-50	-	-	
OU2MW-43D	70	65-70	X	X	X
OU2MW-44S	15	5-15	-	-	
OU2MW-44I	30	25-30	-	-	
OU2MW-44I2	50	45-50	-	-	
OU2MW-44D	70	65-70	-	-	
OU2MW-45S	15	5-15	-	-	
OU2MW-45I	25	20-25	-	-	
OU2MW-45I2	45	40-45	-	-	
OU2MW-45D	60	55-60	-	-	
OU2MW-46S	15	5-15	-	-	
OU2MW-46I	25	20-25	-	-	
OU2MW-46I2	45	40-45	-	-	
OU2MW-47S	15	5-15	X	X	X
OU2MW-47I	25	20-25	X	X	X

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q4 2020	Q1 2021	Q2 2021
OU2MW-47I2	45	40-45	X	X	X
OU2MW-47D	65	60-65	X	X	X
OU2MW-52S	8	3-8	-	-	
OU2MW-52I	25	20-25	-	-	
OU2MW-52D	40	35-40	-	-	
OU2MW-53S	8	3-8	-	-	
OU2MW-53I	25	20-25	-	-	
OU2MW-53D	40	35-40	-	-	
OU2MW-54S	15	5-15	-	-	
OU2MW-54I	30	25-30	-	-	
OU2MW-54I2	45	40-45	-	-	
OU2MW-54D	65	60-65	-	-	
OU2MW-55S	15	5-15	-	-	
OU2MW-55I	35	30-35	-	-	
OU2MW-55I2	55	50-55	-	-	
OU2MW-55D	70	65-70	-	-	
OU2MW-56S	15	5-15	-	-	
OU2MW-56I	30	25-30	-	-	
OU2MW-56I2	50	45-50	-	-	
OU2MW-56D	70	65-70	-	-	
OU2MW-58S	17	5-15	-	-	
OU2MW-58I	32	25-30	-	-	
			30	30	36
OU-3 Monitoring Wells					
BBMW-09S	15	5-15	-		
BBMW-09I	40	30-40	-		
BBMW-09D	72	62-72	-		
BBMW-28S	12	2-12	-		
BBMW-28I	20	10-20	-		
BBMW-29	9	2-9	-		
BBMW-30S	10	2-10	-		
BBMW-30I	19	14-19	-		
BBMW-30D	35	30-35	-		
BBMW-31S	10	2-10	-		
BBMW-31I	19	14-19	-		
BBMW-31D	35	30-35	-		

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q4 2020	Q1 2021	Q2 2021
BBMW-32S	10	2-10	-		
BBMW-32I	19	14-19	-		
BBMW-32D	35	30-35	-		
BBMW-33	12	7-12	-		
BW-UST-10	9.95	4.65-9.95	-		
BW-UST-11	9.4	4.4-9.4	-		
BW-UST-28	10	5-10	-		
BW-UST-29	10	5-10	-		
GM-02AS		unknown	-		
GM-02AI		unknown	-		
GM-02AD		unknown	-		
IO-10	16	6-16	-		
MW-01S	14	4-14	-		
MW-01D	45	35-45	-		
MW-03	14.94	4.94-14.94	-		
MW-04	15.1	4.1-15.1	-		
MW-11W	10	2-10	-		
MW-12W	10	25-30	-		
MW-13W	10	2-10	-		
MW-29S	10	5-10	-		
MW-29D	19	14-19	-		
MW-30W-R	9	2-9	-		
MW-32WR	9	2-9	-		
MW-33W			-		
MW-34S	10	2-10	-		
MW-34I	19.5	18.5-19.5	-		
MW-34D	28.5	27.5-28.5	-		
MW-34DD	40	unknown	-		
MW-37W	10	2-10	-		
MW-39W	10	2-10	-		
MW-45W	10	2-10	-		
MW-46W-R	10	2-10	-		
MW-64	24	19-24	X	X	X
MW-65	16	11-16	X	X	X
MW-66S	11.5	1.5-11.5	-		
MW-66D	29	24-29	-		

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q4 2020	Q1 2021	Q2 2021
MW-67S	12	2.5 - 12.5	-		
MW-67D	28.5	24 - 29	-		
MW-68S	19.5	unknown	-		
MW-68D	30	25.0-30.0	-		
MW-70/70S	12	2-12	-		
MW-73	12	2-12	-		
MW-73I	27	22-27	-		
MW-75	12	2-12	-		
MW-75I	27	22-27	-		
MW-76	12	2-12	-		
MW-78	20	5-20	-		
MW-79	20	5-20	-		
MW-80	20	5-20	-		
MW-81	20	5-20	-		
MW-82	20	5-20	-		
MW-83	20	5-20	X	X	X
MW-BS-01S	unknown		-		
MW-BS-02S	15	5-15	-		
MW-BS-02I	15.5	14.5-15.5	-		
MW-BS-02D	25.5	24.5-25.5	-		
OU3MW-01S	13	3-13	-		
OU3MW-02S	13	3-13	-		
OU3MW-02I	20	15-20	-		
OU3MW-03S	11	1-11	-		
OU3MW-03I	25	20-25	-		
OU3MW-04S	11	1-11	-		
OU3MW-04I	21	16-21	-		
OU3MW-04D	31	26-31	-		
OU3MW-04D2	36	31-36	-		
OU3MW-04D3	46	41-46	-		
OU3MW-05S	12	2-12	-		
OU3MW-05I	20	15-20	-		
OU3MW-06	13	3-13	-		
OU3MW-07S	13	3-13	X	X	X
OU3MW-07I	20	15-20	X	X	X
OU3MW-07I2	25	20-25	X	X	X

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q4 2020	Q1 2021	Q2 2021
OU3MW-07I3	30	25-30	X	X	X
OU3MW-07I4	40	30-35	X	X	X
OU3MW-08S	12	2-12	X	X	X
OU3MW-08I	30	25-30	-		
OU3MW-09S	12	2-12	-		
OU3MW-09I	30	25-30	X	X	X
OU3MW-09I2	40	35-40	-		
OU3MW-10S	12	2-12	-		
OU3MW-10I	30	25-30	X	X	X
OU3MW-11S	12	2-12	-		
OU3MW-11I	30	25-30	-		
OU3MW-12S	12	2-12	-		
OU3MW-12I	30	25-30	-		
OU3MW-13S	12	2-12	-		X
OU3MW-14S	12	2-12	-		
OU3MW-15S	12	2-12	-		
OU3MW-16S	12	2-12	X	X	X
OU3MW-17S	12	2-12	-		
OU3MW-17I	20	15-20	-		
OU3MW-17I2	30	25-30	-		
OU3MW-18I	20	15-20	-		
OU3MW-18I2	30	25-30	-		
OU3MW-19S	12	2-12	X	X	X
OU3MW-19I	25	20-25	X	X	X
OU3MW-19I2	35	30-35	X	X	X
OU3MW-20S	12	2-12	X	X	X
OU3MW-20I	25	20-25	X	X	X
OU3MW-20I2	35	30-35	X	X	X
OU3MW-21S	12	2-12	-		
OU3MW-21I	20	15-20	-		
OU3MW-21I2	30	25-30	-		
OU3MW-22I/IP-15A	15	10-15	-		
OU3MW-22I2/IP-15B	30	25-30	-		
OU3MW-23I/IP-17B	15	10-15	-		X
OU3MW-23I2/IP-17A	30	25-30	-		
OU3MW-24I/IP-19A	15	10-15	-		X

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q4 2020	Q1 2021	Q2 2021
OU3MW-24I2/IP-19B	30	25-30	X	X	X
IP-16A	15	14-15	X	X	X
IP-16B	30	29-30	-		
IP-18A	15	14-15	-		
IP-18B	30	29-30	-		
IP-20A	15	14-15	X	X	X
IP-20B	30	29-30	-	X	X
PDMW-01	20	5-20	-		
SV-02	12	2-12	-		
SV-02I	27	22-27	-		
SV-02I2	40	35-40	-		
SV-03	12	2-12	-		
			21	22	25
OU-4 Monitoring Wells					
WCMW-02S	13	3-13	-		
WCMW-02I	43.5	34.5-43.5	-		
WCMW-02D	72	62-72	-		
WCMW-04S	11.6	1.6-11.6	-		
WCMW-04I	24	19-24	X	X	X
WCMW-04I2	34.85	29.85-34.85	-		
WCMW-05S	11.15	1.15-11.15	-		
WCMW-05I	24.61	19.61-24.61	X	X	X
WCMW-05I2	34.96	29.46-34.96	-	X	X
WCMW-06S	12	2-12	-		
WCMW-06I	24.55	19.55-24.55	-		
WCMW-06I2	34.83	29.83-34.83	-		
WCMW-07S	12.76	2.76-12.76	-		
WCMW-07I	23.9	18.9-23.9	-		
WCMW-07I2	33.95	28.95-33.95	-		
WCMW-08S	19.2	4.2-19.2	-		
WCMW-08I	24.2	19.2-24.2	-		
WCMW-08I2	31.9	26.9-31.9	-		
WCMW-10S	20	15-20	-		
WCMW-10D	50	40-50	-		
WCMW-11S	15	5-15	X	X	X
WCMW-11I	35	25-35	X	X	X

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q4 2020	Q1 2021	Q2 2021
WCMW-11D	60	50-60	-		
WCMW-12S	13	3-13	-		
WCMW-12I	30	25-30	-		
WCMW-12D	72	67-72	-		
WCMW-13S	13	3-13	-		
WCMW-13I	30	25-30	-		
WCMW-13D	70	65-70	-		
WCMW-14S	12	2-12	X	X	X
WCMW-14I	25	20-25	-		X
WCMW-14I2	35	30-35	-		
WCMW-14D	72	67-72	-		
WCMW-19S	12	2-12	-		
WCMW-19I	25	20-25	-		
WCMW-19I2	35	30-35	-		
WCMW-22S	12	2-12	-		
WCMW-22I	30	25-30	-		
WCMW-23S	12	2-12	-		
WCMW-23I	30	25-30	-		
WCMW-25I	35	30-35	-		
WCMW-25D	60	55-60	-		
WCMW-26S	12	2-12	X	X	X
WCMW-26I	25	20-25	X	X	X
WCMW-26I2	35	30-35	-	-	
WCMW-29S	25	2-12	X	X	X
WCMW-29I	25	20-25	X	X	X
WCMW-30S	12	2-12	-	-	
WCMW-30I	25	20-25	X	X	X
WCMW-30I2	35	30-35	-		
WCMW-31S	12	2-12	-		
WCMW-31I	25	20-25	-		
WCMW-31I2	35	30-35	-		
WCMW-32S	12	2-12	X	-	X
TOTALS			11	11	13
			116	**116**	**131**

Notes:
*: Monitoring well not sampled if NAPL is present
NAPL= Non-aqueous Phase Liquid

Appendix B. OU-1 Oxygen Injection System Operational Data
Table B-1. OU-1 South Fourth Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2020 715,613 lbs

Oxygen to OU-1 Union Boulevard

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-20	31	4,575
Month 2	Nov-20	30	4,869
Month 3	Dec-20	31	4,761
Total Operational Days in Q4 2020			92
Total Oxygen in Q4 2020 (lbs)			14,204.04
Running Total for Oxygen to OU-1 Union Boulevard after Reconfiguration Through Q4 2020 (lbs)			**729,816.81**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 8 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each Injection bank operates for 3 injection cycles per day
Each injection point injects oxygen for 39 min per day (13 min per cycle * 3 cycles)

Example
Bank 2 starts injection at 700AM
Bank 2 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 3 starts injection at 800AM
Bank 3 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 4 starts injection at 900AM
Bank 4 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 5 starts injection at 1000AM
Bank 5 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 6 starts injection at 1100AM
Bank 6 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 7 starts injection at 1200PM
Bank 7 finishes injection at 12113M
System is recharging from 1213PM to 100PM
Bank 8 starts injection at 100PM
Bank 8 finishes injection at 113PM
System is recharging from 113PM to 200PM
(Keep repeating cycle for course of day)

			10/27/2020						11/17/2020						12/10/2020					
		O_2%	82.7						89.1						87.9					
		R	10.73						10.73						10.73					
		Temp R (T)	629						640						634					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 51	15	28	28.352	18.429	2	16.7	0.038	20	19.946	12.965	1.5	16.2	0.027	30	30.828	20.038	2.5	17.2	0.045
	Point 52	25	26	30.694	19.951	8	22.7	0.055	20	23.611	15.347	8.0	22.7	0.045	30	35.416	23.020	8.0	22.7	0.068
	Point 53	15	28	28.773	18.703	2.5	17.2	0.039	24	24.302	15.796	2.0	16.7	0.034	32	33.358	21.683	3.0	17.7	0.050
	Point 54	25	28	33.055	21.486	8	22.7	0.060	23	27.152	17.649	8.0	22.7	0.052	30	35.416	23.020	8.0	22.7	0.068
	Point 55	15	32	33.358	21.683	3	17.7	0.047	20	21.141	13.742	3.5	18.2	0.032	34	36.430	23.680	4.0	18.7	0.057
	Point 56	25	30	35.416	23.020	8	22.7	0.064	26	31.030	20.170	8.5	23.2	0.061	28	33.417	21.721	8.5	23.2	0.065
	Point 57	15	28	29.598	19.239	3.5	18.2	0.043	20	21.430	13.929	4.0	18.7	0.034	33	35.359	22.983	4.0	18.7	0.056
	Point 58	25	26	30.694	19.951	8	22.7	0.055	22	26.256	17.067	8.5	23.2	0.051	25	29.837	19.394	8.5	23.2	0.058
Total Oxygen Injected Per Day (lb)			**12.859**						**10.784**						**14.885**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 47	52	30	42.507	27.630	18.0	32.7	0.111	30	42.181	27.417	17.5	32.2	0.115	32	45.686	29.696	18.5	33.2	0.127
	Point 45	52	28	39.673	25.788	18.0	32.7	0.103	27	38.548	25.056	18.5	33.2	0.108	30	42.831	27.840	18.5	33.2	0.119
	Point 48	52	30	41.521	26.988	16.5	31.2	0.103	28	38.441	24.987	16.0	30.7	0.100	30	41.852	27.204	17.0	31.7	0.111
	Point 44	52	26	36.557	23.762	17.5	32.2	0.094	27	37.963	24.676	17.5	32.2	0.103	28	39.369	25.590	17.5	32.2	0.106
	Point 46	52	28	40.275	26.179	19.0	33.7	0.108	27	39.124	25.431	19.5	34.2	0.113	29	41.714	27.114	19.0	33.7	0.118
	Point 14A	62	28	42.880	27.872	23.5	38.2	0.130	28	43.160	28.054	24.0	38.7	0.141	31	47.784	31.060	24.0	38.7	0.155
	Point 12A	62	32	48.684	31.645	23.0	37.7	0.146	30	45.641	29.667	23.0	37.7	0.145	32	48.684	31.645	23.0	37.7	0.154
	Point 16A	62	26	40.077	26.050	24.0	38.7	0.124	28	43.438	28.234	24.5	39.2	0.144	30	46.540	30.251	24.5	39.2	0.153
Total Oxygen Injected Per Day (lb)			**29.416**						**30.961**						**33.455**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 1	41	30	39.822	25.885	14.0	28.7	0.091	28	37.168	24.159	14.0	28.7	0.090	29	38.495	25.022	14.0	28.7	0.093
	Point 4	26	30	33.409	21.716	5.5	20.2	0.054	26	28.954	18.820	5.5	20.2	0.049	32	36.074	23.448	6.0	20.7	0.063
	Point 5	41	26	33.906	22.039	13.0	27.7	0.075	25	32.895	21.382	13.5	28.2	0.078	32	41.731	27.125	13.0	27.7	0.097
	Point 8	26	28	31.944	20.764	6.5	21.2	0.054	25	28.856	18.756	7.0	21.7	0.053	30	35.416	23.020	8.0	22.7	0.068
	Point 9	41	28	36.514	23.734	13.0	27.7	0.081	24	31.579	20.526	13.5	28.2	0.075	31	40.790	26.513	13.5	28.2	0.097
	Point 12	26	28	31.565	20.517	6.0	20.7	0.052	26	29.311	19.052	6.0	20.7	0.051	31	35.367	22.988	6.5	21.2	0.063
	Point 13	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 16	25	30	35.416	23.020	8.0	22.7	0.064	28	33.055	21.486	8.0	22.7	0.063	29	34.235	22.253	8.0	22.7	0.065
Total Oxygen Injected Per Day (lb)			**15.045**						**14.716**						**17.439**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 2	26	28	31.944	20.764	6.5	21.2	0.054	32	36.936	24.008	7.0	21.7	0.068	26	29.662	19.281	6.5	21.2	0.053
	Point 3	41	30	38.410	24.966	12.0	26.7	0.082	42	54.771	35.601	13.0	27.7	0.128	22	28.430	18.479	12.5	27.2	0.065
	Point 6	26	32	41.731	27.125	13.0	27.7	0.092	39	50.859	33.058	13.0	27.7	0.119	13	16.953	11.019	13.0	27.7	0.039
	Point 7	41	28	32.689	21.248	7.5	22.2	0.058	36	42.499	27.624	8.0	22.7	0.081	21	24.791	16.114	8.0	22.7	0.047
	Point 10	26	28	33.055	21.486	8.0	22.7	0.060	35	41.319	26.857	8.0	22.7	0.079	12	14.166	9.208	8.0	22.7	0.027
	Point 11	41	30	39.822	25.885	14.0	28.7	0.091	36	48.612	31.598	15.0	29.7	0.122	26	34.812	22.628	14.5	29.2	0.085
	Point 14	26	28	32.689	21.248	7.5	22.2	0.058	35	41.319	26.857	8.0	22.7	0.079	20	23.611	15.347	8.0	22.7	0.045
	Point 15	41	28	37.168	24.159	14.0	28.7	0.085	36	48.612	31.598	15.0	29.7	0.122	27	36.151	23.498	14.5	29.2	0.089
Total Oxygen Injected Per Day (lb)			**18.529**						**25.518**						**14.417**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 17	62	30	45.641	29.667	23.0	37.7	0.137	40	61.257	39.817	23.5	38.2	0.197	36	55.131	35.835	23.5	38.2	0.177
	Point 18	41	28	35.512	23.083	11.5	26.2	0.074	30	38.410	24.966	12.0	26.7	0.086	28	35.849	23.302	12.0	26.7	0.080
	Point 19	26	36	41.071	26.696	6.5	21.2	0.069	33	38.090	24.758	7.0	21.7	0.070	33	38.090	24.758	7.0	21.7	0.069
	Point 22	22	34	38.329	24.914	6.0	20.7	0.063	34	38.789	25.213	6.5	21.2	0.069	31	35.367	22.988	6.5	21.2	0.063
	Point 24	37	28	35.849	23.302	12.0	26.7	0.076	33	42.645	27.719	12.5	27.2	0.098	27	34.569	22.470	12.0	26.7	0.078
	Point 25	22	28	31.182	20.268	5.5	20.2	0.050	30	33.820	21.983	6.0	20.7	0.059	26	29.311	19.052	6.0	20.7	0.051
	Point 59	15	30	32.145	20.894	4.0	18.7	0.048	30	32.571	21.171	4.5	19.2	0.053	27	29.314	19.054	4.5	19.2	0.047
	Point 49	62	30	45.032	29.271	22.0	36.7	0.132	40	60.042	39.028	22.0	36.7	0.186	33	49.535	32.198	22.0	36.7	0.153
Total Oxygen Injected Per Day (lb)			**20.787**						**26.187**						**22.979**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 20	61	30	45.338	29.469	22.5	37.2	0.134	31	46.849	30.452	22.5	37.2	0.147	27	41.077	26.700	23.0	37.7	0.130
	Point 26	57	30	43.788	28.462	20.0	34.7	0.121	32	47.375	30.794	21.0	35.7	0.143	28	40.868	26.564	20.0	34.7	0.119
	Point 27	37	30	38.048	24.731	11.5	26.2	0.079	30	37.684	24.494	11.0	25.7	0.082	28	35.171	22.861	11.0	25.7	0.076
	Point 28	22	30	33.820	21.983	6.0	20.7	0.056	32	36.074	23.448	6.0	20.7	0.063	29	32.692	21.250	6.0	20.7	0.057
	Point 30	22	34	38.329	24.914	6.0	20.7	0.063	28	31.565	20.517	6.0	20.7	0.055	27	30.438	19.785	6.0	20.7	0.053
	Point 32	22	26	28.594	18.586	5.0	19.7	0.045	30	32.993	21.445	5.0	19.7	0.055	28	30.793	20.016	5.0	19.7	0.051
	Point 60	15	28	29.188	18.972	3.0	17.7	0.041	27	28.541	18.551	3.5	18.2	0.044	26	27.484	17.864	3.5	18.2	0.042
	Point 50	62	34	51.727	33.622	23.0	37.7	0.155	36	55.131	35.835	23.5	38.2	0.178	37	56.663	36.831	23.5	38.2	0.182
Total Oxygen Injected Per Day (lb)			**22.241**						**24.499**						**22.707**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 21	37	46	58.895	38.282	12.0	26.7	0.125	36	46.092	29.960	12.0	26.7	0.104	36	46.092	29.960	12.0	26.7	0.103
	Point 31	22	30	33.409	21.716	5.5	20.2	0.054	30	33.820	21.983	6.0	20.7	0.059	30	33.820	21.983	6.0	20.7	0.059
	Point 33	22	30	33.820	21.983	6.0	20.7	0.056	29	33.473	21.757	7.0	21.7	0.061	30	34.226	22.247	6.5	21.2	0.061
	Point 34	22	30	33.409	21.716	5.5	20.2	0.054	28	31.565	20.517	6.0	20.7	0.055	32	36.074	23.448	6.0	20.7	0.063
	Point 35	22	28	31.565	20.517	6.0	20.7	0.052	24	27.056	17.586	6.0	20.7	0.047	29	32.692	21.250	6.0	20.7	0.057
	Point 36	22	30	33.820	21.983	6.0	20.7	0.056	28	31.565	20.517	6.0	20.7	0.055	29	32.692	21.250	6.0	20.7	0.057
	Point 36A	62	36	54.769	35.600	23.0	37.7	0.164	30	45.943	29.863	23.5	38.2	0.148	32	49.006	31.854	23.5	38.2	0.157
	Point 36B	41	32	42.846	27.850	14.5	29.2	0.100	30	40.510	26.332	15.0	29.7	0.101	34	45.912	29.843	15.0	29.7	0.115
Total Oxygen Injected Per Day (lb)			**21.133**						**20.192**						**21.480**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 23	57	30	44.414	28.869	21.0	35.7	0.126	12	15.507	10.080	12.5	27.2	0.036	19	28.520	18.538	22.0	36.7	0.088
	Point 29	34	28	35.171	22.861	11.0	25.7	0.072	30	37.684	24.494	11.0	25.7	0.082	31	38.940	25.311	11.0	25.7	0.084
	Point 37	22	30	34.627	22.508	7.0	21.7	0.060	30	34.627	22.508	7.0	21.7	0.063	32	36.936	24.008	7.0	21.7	0.067
	Point 37A	62	30	46.243	30.058	24.0	38.7	0.143	34	53.081	34.503	25.0	39.7	0.178	28	43.714	28.414	25.0	39.7	0.146
	Point 37B	41	28	37.168	24.159	14.0	28.7	0.085	30	40.168	26.109	14.5	29.2	0.099	30	40.168	26.109	14.5	29.2	0.099
	Point 38	22	28	31.565	20.517	6.0	20.7	0.052	29	33.085	21.505	6.5	21.2	0.059	29	33.085	21.505	6.5	21.2	0.059
	Point 61	17	24	26.727	17.373	5.5	20.2	0.043	30	33.820	21.983	6.0	20.7	0.059	31	34.947	22.716	6.0	20.7	0.061
	Point 63	13	36	38.573	25.073	4.0	18.7	0.057	32	34.743	22.583	4.5	19.2	0.056	32	34.743	22.583	4.5	19.2	0.056
Total Oxygen Injected Per Day (lb)			**20.420**						**20.215**						**21.095**					
System Total Per Day (lb)			**147.57**						**162.29**						**153.57**					

Appendix B. OU-1 Oxygen Injection System Operational Data
Table B-1. OU-1 South First Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q4 2020 729,817 lbs

Oxygen to OU-1 Union Boulevard

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-21	31	4,982
Month 2	Feb-21	27	4,384
Month 3	Mar-21	31	4,567
Total Operational Days in Q1 2021			89
Total Oxygen in Q1 2021 (lbs)			13,932.70
Running Total for Oxygen to OU-1 Union Boulevard after Reconfiguration Through Q1 2021 (lbs)			**743,749.51**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 8 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each Injection bank operates for 3 injection cycles per day
Each injection point injects oxygen for 39 min per day (13 min per cycle * 3 cycles)

Example
Bank 2 starts injection at 700AM
Bank 2 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 3 starts injection at 800AM
Bank 3 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 4 starts injection at 900AM
Bank 4 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 5 starts injection at 1000AM
Bank 5 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 6 starts injection at 1100AM
Bank 6 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 7 starts injection at 1200PM
Bank 7 finishes injection at 12113M
System is recharging from 1213PM to 100PM
Bank 8 starts injection at 100PM
Bank 8 finishes injection at 113PM
System is recharging from 113PM to 200PM
(Keep repeating cycle for course of day)

			1/25/2021						2/18/2021						3/23/2021					
		O_2%	87.2						81.1						85.5					
		R	10.73						10.73						10.73					
		Temp R (T)	634						623						638					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 51	15	30	29.919	19.447	1.5	16.2	0.040	27	26.508	17.230	1.0	15.7	0.033	24	24.302	15.796	2.0	16.7	0.033
	Point 52	25	30	35.804	23.273	8.5	23.2	0.069	27	32.569	21.170	9.0	23.7	0.061	29	34.981	22.738	9.0	23.7	0.067
	Point 53	15	34	33.381	21.697	1	15.7	0.044	26	25.526	16.592	1.0	15.7	0.032	25	24.932	16.206	1.5	16.2	0.033
	Point 54	25	30	35.416	23.020	8	22.7	0.067	23	27.744	18.034	9.0	23.7	0.052	29	34.235	22.253	8.0	22.7	0.063
	Point 55	15	34	34.939	22.710	2.5	17.2	0.050	27	28.930	18.805	4.0	18.7	0.043	26	26.718	17.367	2.5	17.2	0.037
	Point 56	25	32	38.600	25.090	9	23.7	0.076	30	36.567	23.769	9.5	24.2	0.070	26	31.363	20.386	9.0	23.7	0.060
	Point 57	15	31	31.856	20.706	2.5	17.2	0.046	22	23.886	15.526	4.5	19.2	0.036	25	26.787	17.412	4.0	18.7	0.041
	Point 58	25	28	33.775	21.954	9	23.7	0.067	27	32.911	21.392	9.5	24.2	0.063	26	31.363	20.386	9.0	23.7	0.060
Total Oxygen Injected Per Day (lb)			**14.684**						**12.434**						**12.633**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 47	52	31	44.258	28.768	18.5	33.2	0.122	37	53.221	34.594	19.0	33.7	0.141	30	42.831	27.840	18.5	33.2	0.115
	Point 45	52	30	42.507	27.630	18.0	32.7	0.116	42	60.413	39.268	19.0	33.7	0.161	29	41.403	26.912	18.5	33.2	0.112
	Point 48	52	30	41.521	26.988	16.5	31.2	0.108	40	55.803	36.272	17.0	31.7	0.139	30	41.852	27.204	17.0	31.7	0.108
	Point 44	52	29	41.090	26.709	18.0	32.7	0.112	37	52.425	34.076	18.0	32.7	0.135	30	42.181	27.417	17.5	32.2	0.110
	Point 46	52	31	44.590	28.984	19.0	33.7	0.125	32	46.369	30.140	19.5	34.2	0.125	30	43.471	28.256	19.5	34.2	0.121
	Point 14A	62	32	49.006	31.854	23.5	38.2	0.156	40	61.257	39.817	23.5	38.2	0.185	31	47.474	30.858	23.5	38.2	0.147
	Point 12A	62	35	52.894	34.381	22.5	37.2	0.164	44	65.595	42.637	21.5	36.2	0.187	30	45.338	29.469	22.5	37.2	0.137
	Point 16A	62	32	49.325	32.061	24.0	38.7	0.159	39	61.269	39.825	25.5	40.2	0.194	31	47.784	31.060	24.0	38.7	0.150
Total Oxygen Injected Per Day (lb)			**33.993**						**40.567**						**31.999**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 1	41	30	39.822	25.885	14.0	28.7	0.095	30	40.168	26.109	14.5	29.2	0.092	30	39.822	25.885	14.0	28.7	0.093
	Point 4	26	32	35.636	23.163	5.5	20.2	0.060	27	30.068	19.544	5.5	20.2	0.048	27	30.438	19.785	6.0	20.7	0.051
	Point 5	41	30	38.768	25.199	12.5	27.2	0.088	31	40.427	26.277	13.0	27.7	0.088	30	39.122	25.430	13.0	27.7	0.088
	Point 8	26	31	34.947	22.716	6.0	20.7	0.060	30	35.416	23.020	8.0	22.7	0.063	27	31.164	20.257	7.0	21.7	0.055
	Point 9	41	33	43.035	27.973	13.0	27.7	0.099	30	39.474	25.658	13.5	28.2	0.088	29	38.158	24.803	13.5	28.2	0.087
	Point 12	26	32	36.074	23.448	6.0	20.7	0.062	30	34.226	22.247	6.5	21.2	0.057	30	34.226	22.247	6.5	21.2	0.059
	Point 13	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 16	25	30	35.024	22.765	7.5	22.2	0.065	30	36.188	23.522	9.0	23.7	0.068	29	34.235	22.253	8.0	22.7	0.063
Total Oxygen Injected Per Day (lb)			**16.949**						**16.151**						**15.877**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 2	26	25	28.522	18.539	6.5	21.2	0.050	27	31.874	20.718	8.0	22.7	0.057	27	30.803	20.022	6.5	21.2	0.053
	Point 3	41	27	34.569	22.470	12.0	26.7	0.077	30	38.768	25.199	12.5	27.2	0.083	27	34.569	22.470	12.0	26.7	0.075
	Point 6	26	34	44.339	28.820	13.0	27.7	0.102	27	34.244	22.258	11.5	26.2	0.071	26	33.599	21.839	12.5	27.2	0.074
	Point 7	41	28	32.319	21.007	7.0	21.7	0.058	29	34.235	22.253	8.0	22.7	0.061	27	31.521	20.489	7.5	22.2	0.057
	Point 10	26	26	30.694	19.951	8.0	22.7	0.058	25	30.156	19.602	9.0	23.7	0.056	22	25.972	16.882	8.0	22.7	0.048
	Point 11	41	29	38.829	25.239	14.5	29.2	0.094	30	40.510	26.332	15.0	29.7	0.095	27	35.840	23.296	14.0	28.7	0.084
	Point 14	26	29	34.235	22.253	8.0	22.7	0.065	30	35.416	23.020	8.0	22.7	0.063	27	31.521	20.489	7.5	22.2	0.057
	Point 15	41	30	43.152	28.049	19.0	33.7	0.121	31	42.211	27.437	15.5	30.2	0.101	32	42.846	27.850	14.5	29.2	0.102
Total Oxygen Injected Per Day (lb)			**20.047**						**18.797**						**17.558**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 17	62	40	60.042	39.028	22.0	36.7	0.184	33	50.537	32.849	23.5	38.2	0.152	34	51.727	33.622	23.0	37.7	0.158
	Point 18	41	30	37.684	24.494	11.0	25.7	0.081	31	39.690	25.799	12.0	26.7	0.084	33	42.251	27.463	12.0	26.7	0.092
	Point 19	26	33	37.648	24.471	6.5	21.2	0.067	30	34.627	22.508	7.0	21.7	0.059	36	41.553	27.009	7.0	21.7	0.073
	Point 22	22	36	40.584	26.379	6.0	20.7	0.070	30	34.226	22.247	6.5	21.2	0.057	28	31.565	20.517	6.0	20.7	0.053
	Point 24	37	32	40.970	26.631	12.0	26.7	0.091	29	37.475	24.359	12.5	27.2	0.080	28	35.849	23.302	12.0	26.7	0.078
	Point 25	22	30	33.820	21.983	6.0	20.7	0.058	30	33.820	21.983	6.0	20.7	0.055	29	32.692	21.250	6.0	20.7	0.055
	Point 59	15	30	31.712	20.613	3.5	18.2	0.048	30	32.571	21.171	4.5	19.2	0.049	27	29.314	19.054	4.5	19.2	0.046
	Point 49	62	40	60.042	39.028	22.0	36.7	0.184	32	48.034	31.222	22.0	36.7	0.139	26	39.028	25.368	22.0	36.7	0.116
Total Oxygen Injected Per Day (lb)			**25.022**						**21.638**						**21.464**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 20	61	25	38.034	24.722	23.0	37.7	0.119	34	52.408	34.065	24.0	38.7	0.160	24	36.270	23.576	22.5	37.2	0.110
	Point 26	57	30	43.788	28.462	20.0	34.7	0.127	40	58.383	37.949	20.0	34.7	0.160	24	35.282	22.933	20.5	35.2	0.101
	Point 27	37	30	38.048	24.731	11.5	26.2	0.083	32	40.196	26.127	11.0	25.7	0.081	32	40.585	26.380	11.5	26.2	0.086
	Point 28	22	30	33.820	21.983	6.0	20.7	0.058	30	33.820	21.983	6.0	20.7	0.055	28	31.565	20.517	6.0	20.7	0.053
	Point 30	22	31	34.947	22.716	6.0	20.7	0.060	29	32.692	21.250	6.0	20.7	0.053	29	32.692	21.250	6.0	20.7	0.055
	Point 32	22	29	32.295	20.992	5.5	20.2	0.054	30	32.993	21.445	5.0	19.7	0.051	30	33.409	21.716	5.5	20.2	0.055
	Point 60	15	30	31.712	20.613	3.5	18.2	0.048	33	35.359	22.983	4.0	18.7	0.052	29	29.801	19.370	2.5	17.2	0.042
	Point 50	62	30	46.243	30.058	24.0	38.7	0.149	41	62.789	40.813	23.5	38.2	0.189	32	49.006	31.854	23.5	38.2	0.152
Total Oxygen Injected Per Day (lb)			**22.377**						**25.673**						**20.897**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 21	37	29	37.129	24.134	12.0	26.7	0.083	40	51.213	33.288	12.0	26.7	0.108	10	12.803	8.322	12.0	26.7	0.028
	Point 31	22	30	33.820	21.983	6.0	20.7	0.058	30	33.820	21.983	6.0	20.7	0.055	32	35.636	23.163	5.5	20.2	0.058
	Point 33	22	30	33.820	21.983	6.0	20.7	0.058	30	34.226	22.247	6.5	21.2	0.057	33	37.648	24.471	6.5	21.2	0.065
	Point 34	22	29	32.692	21.250	6.0	20.7	0.056	29	33.085	21.505	6.5	21.2	0.055	32	36.074	23.448	6.0	20.7	0.061
	Point 35	22	30	33.820	21.983	6.0	20.7	0.058	30	33.820	21.983	6.0	20.7	0.055	29	32.692	21.250	6.0	20.7	0.055
	Point 36	22	29	32.692	21.250	6.0	20.7	0.056	30	33.820	21.983	6.0	20.7	0.055	30	33.820	21.983	6.0	20.7	0.057
	Point 36A	62	30	45.943	29.863	23.5	38.2	0.146	29	44.411	28.867	23.5	38.2	0.134	32	49.006	31.854	23.5	38.2	0.152
	Point 36B	41	30	40.510	26.332	15.0	29.7	0.100	31	41.861	27.209	15.0	29.7	0.098	30	40.168	26.109	14.5	29.2	0.095
Total Oxygen Injected Per Day (lb)			**19.738**						**19.770**						**18.258**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 23	57	32	48.034	31.222	22.0	36.7	0.147	27	40.252	26.164	21.5	36.2	0.115	29	43.233	28.102	21.5	36.2	0.127
	Point 29	34	34	42.708	27.760	11.0	25.7	0.091	31	38.940	25.311	11.0	25.7	0.079	29	36.428	23.678	11.0	25.7	0.076
	Point 37	22	33	38.526	25.042	7.5	22.2	0.071	30	33.820	21.983	6.0	20.7	0.055	30	35.024	22.765	7.5	22.2	0.063
	Point 37A	62	31	47.784	31.060	24.0	38.7	0.154	29	44.989	29.243	24.5	39.2	0.139	30	46.836	30.444	25.0	39.7	0.151
	Point 37B	41	32	43.211	28.087	15.0	29.7	0.107	29	39.160	25.454	15.0	29.7	0.092	29	39.160	25.454	15.0	29.7	0.094
	Point 38	22	30	34.226	22.247	6.5	21.2	0.060	29	32.295	20.992	5.5	20.2	0.051	26	29.311	19.052	6.0	20.7	0.049
	Point 61	17	30	33.820	21.983	6.0	20.7	0.058	30	33.409	21.716	5.5	20.2	0.053	29	32.295	20.992	5.5	20.2	0.053
	Point 63	13	10	10.715	6.965	4.0	18.7	0.017	20	21.714	14.114	4.5	19.2	0.033	30	32.571	21.171	4.5	19.2	0.051
Total Oxygen Injected Per Day (lb)			**22.594**						**19.755**						**21.265**					
System Total Per Day (lb)			**160.72**						**162.35**						**147.32**					

Appendix B. OU-1 Oxygen Injection System Operational Data
Table B-1. OU-1 South Second Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2021 743,750 lbs

Oxygen to OU-1 Union Boulevard

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-21	30	5,075
Month 2	May-21	29	3,955
Month 3	Jun-21	29	6,243
Total Operational Days in Q2 2021			88
Total Oxygen in Q2 2021 (lbs)			15,273.03
Running Total for Oxygen to OU-1 Union Boulevard after Reconfiguration Through Q2 2021 (lbs)			**759,022.54**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 8 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each Injection bank operates for 3 injection cycles per day
Each injection point injects oxygen for 39 min per day (13 min per cycle * 3 cycles)

Example
Bank 2 starts injection at 700AM
Bank 2 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 3 starts injection at 800AM
Bank 3 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 4 starts injection at 900AM
Bank 4 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 5 starts injection at 1000AM
Bank 5 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 6 starts injection at 1100AM
Bank 6 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 7 starts injection at 1200PM
Bank 7 finishes injection at 12113M
System is recharging from 1213PM to 100PM
Bank 8 starts injection at 100PM
Bank 8 finishes injection at 113PM
System is recharging from 113PM to 200PM
(Keep repeating cycle for course of day)

			4/19/2021						5/18/2021						6/19/2021					
		O_2%	92.6						91.3						91.0					
		R	10.73						10.73						10.73					
		Temp R (T)	621						643						618					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 51	15	30	30.377	19.745	2	16.7	0.046	21	21.264	13.822	2.0	16.7	0.031	30	29.453	19.145	1.0	15.7	0.041
	Point 52	25	29	34.981	22.738	9	23.7	0.075	20	24.125	15.681	9.0	23.7	0.049	30	36.188	23.522	9.0	23.7	0.077
	Point 53	15	29	29.364	19.087	2	16.7	0.044	19	19.239	12.505	2.0	16.7	0.028	29	28.472	18.507	1.0	15.7	0.040
	Point 54	25	29	34.610	22.497	8.5	23.2	0.073	22	26.538	17.249	9.0	23.7	0.054	30	35.416	23.020	8.0	22.7	0.072
	Point 55	15	29	31.073	20.197	4	18.7	0.052	19	20.358	13.233	4.0	18.7	0.033	29	31.073	20.197	4.0	18.7	0.052
	Point 56	25	29	34.981	22.738	9	23.7	0.075	25	30.156	19.602	9.0	23.7	0.061	35	42.219	27.442	9.0	23.7	0.089
	Point 57	15	22	23.573	15.322	4	18.7	0.040	11	11.786	7.661	4.0	18.7	0.019	29	28.472	18.507	1.0	15.7	0.040
	Point 58	25	29	35.348	22.977	9.5	24.2	0.077	21	25.597	16.638	9.5	24.2	0.053	29	34.981	22.738	9.0	23.7	0.074
Total Oxygen Injected Per Day (lb)			**15.424**						**10.493**						**15.496**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 47	52	30	43.152	28.049	19.0	33.7	0.131	22	31.645	20.569	19.0	33.7	0.092	36	51.008	33.155	18.0	32.7	0.149
	Point 45	52	30	42.831	27.840	18.5	33.2	0.128	25	35.960	23.374	19.0	33.7	0.104	36	51.782	33.659	19.0	33.7	0.156
	Point 48	52	30	42.507	27.630	18.0	32.7	0.126	27	37.667	24.483	17.0	31.7	0.103	36	50.222	32.645	17.0	31.7	0.142
	Point 44	52	29	41.090	26.709	18.0	32.7	0.121	27	38.256	24.867	18.0	32.7	0.108	32	45.341	29.471	18.0	32.7	0.132
	Point 46	52	29	42.022	27.314	19.5	34.2	0.130	27	39.124	25.431	19.5	34.2	0.115	34	48.906	31.789	19.0	33.7	0.147
	Point 14A	62	30	46.243	30.058	24.0	38.7	0.162	20	30.828	20.038	24.0	38.7	0.103	45	69.364	45.086	24.0	38.7	0.239
	Point 12A	62	31	47.163	30.656	23.0	37.7	0.161	25	38.034	24.722	23.0	37.7	0.123	41	62.376	40.545	23.0	37.7	0.210
	Point 16A	62	29	44.989	29.243	24.5	39.2	0.159	21	32.370	21.040	24.0	38.7	0.108	45	69.364	45.086	24.0	38.7	0.239
Total Oxygen Injected Per Day (lb)			**35.780**						**27.362**						**45.260**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 1	41	30	40.168	26.109	14.5	29.2	0.106	26	34.513	22.433	14.0	28.7	0.085	40	53.557	34.812	14.5	29.2	0.139
	Point 4	26	30	33.820	21.983	6.0	20.7	0.063	21	23.674	15.388	6.0	20.7	0.042	45	49.489	32.168	5.0	19.7	0.087
	Point 5	41	30	39.474	25.658	13.5	28.2	0.101	21	27.386	17.801	13.0	27.7	0.065	45	58.684	38.144	13.0	27.7	0.145
	Point 8	26	29	33.473	21.757	7.0	21.7	0.066	22	25.393	16.506	7.0	21.7	0.047	38	43.861	28.510	7.0	21.7	0.085
	Point 9	41	31	41.150	26.747	14.0	28.7	0.107	23	30.530	19.845	14.0	28.7	0.075	42	54.771	35.601	13.0	27.7	0.135
	Point 12	26	30	34.627	22.508	7.0	21.7	0.068	21	24.239	15.755	7.0	21.7	0.045	37	41.711	27.112	6.0	20.7	0.077
	Point 13	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 16	25	31	36.997	24.048	8.5	23.2	0.078	29	34.235	22.253	8.0	22.7	0.067	39	46.041	29.926	8.0	22.7	0.093
Total Oxygen Injected Per Day (lb)			**18.798**						**13.679**						**24.382**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 2	26	27	31.874	20.718	8.0	22.7	0.065	29	33.473	21.757	7.0	21.7	0.062	35	40.398	26.259	7.0	21.7	0.078
	Point 3	41	31	40.060	26.039	12.5	27.2	0.098	27	35.210	22.887	13.0	27.7	0.084	50	64.016	41.611	12.0	26.7	0.152
	Point 6	26	33	43.035	27.973	13.0	27.7	0.108	31	40.427	26.277	13.0	27.7	0.096	50	64.016	41.611	12.0	26.7	0.152
	Point 7	41	29	34.235	22.253	8.0	22.7	0.070	26	30.694	19.951	8.0	22.7	0.060	48	56.666	36.833	8.0	22.7	0.115
	Point 10	26	20	23.869	15.515	8.5	23.2	0.050	25	29.513	19.184	8.0	22.7	0.058	40	47.221	30.694	8.0	22.7	0.096
	Point 11	41	31	41.861	27.209	15.0	29.7	0.112	30	40.168	26.109	14.5	29.2	0.101	40	54.014	35.109	15.0	29.7	0.143
	Point 14	26	30	35.804	23.273	8.5	23.2	0.075	30	35.416	23.020	8.0	22.7	0.069	40	46.169	30.010	7.0	21.7	0.089
	Point 15	41	30	40.510	26.332	15.0	29.7	0.109	30	41.187	26.771	16.0	30.7	0.109	44	59.415	38.620	15.0	29.7	0.157
Total Oxygen Injected Per Day (lb)			**22.007**						**20.449**						**31.467**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 17	62	31	40.790	26.513	13.5	28.2	0.104	30	45.641	29.667	23.0	37.7	0.148	40	60.855	39.556	23.0	37.7	0.205
	Point 18	41	30	38.048	24.731	11.5	26.2	0.090	29	37.129	24.134	12.0	26.7	0.085	35	43.964	28.577	11.0	25.7	0.101
	Point 19	26	31	35.781	23.258	7.0	21.7	0.070	29	33.473	21.757	7.0	21.7	0.062	33	38.958	25.322	8.0	22.7	0.079
	Point 22	22	30	34.226	22.247	6.5	21.2	0.066	27	31.521	20.489	7.5	22.2	0.060	36	40.584	26.379	6.0	20.7	0.075
	Point 24	37	30	38.768	25.199	12.5	27.2	0.095	25	32.008	20.805	12.0	26.7	0.074	45	56.525	36.742	11.0	25.7	0.130
	Point 25	22	29	32.692	21.250	6.0	20.7	0.061	22	24.801	16.121	6.0	20.7	0.044	42	46.190	30.023	5.0	19.7	0.081
	Point 59	15	30	32.571	21.171	4.5	19.2	0.056	27	29.314	19.054	4.5	19.2	0.048	42	45.002	29.252	4.0	18.7	0.075
	Point 49	62	30	45.032	29.271	22.0	36.7	0.149	31	46.533	30.246	22.0	36.7	0.147	40	59.219	38.492	21.0	35.7	0.189
Total Oxygen Injected Per Day (lb)			**22.137**						**21.405**						**29.877**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 20	61	29	44.120	28.678	23.0	37.7	0.150	25	39.519	25.687	26.0	40.7	0.138	37	56.291	36.589	23.0	37.7	0.189
	Point 26	57	30	44.102	28.666	20.5	35.2	0.140	29	42.632	27.711	20.5	35.2	0.129	34	49.626	32.257	20.0	34.7	0.154
	Point 27	37	30	38.410	24.966	12.0	26.7	0.093	25	31.403	20.412	11.0	25.7	0.069	31	38.940	25.311	11.0	25.7	0.089
	Point 28	22	30	33.820	21.983	6.0	20.7	0.063	29	32.692	21.250	6.0	20.7	0.058	36	39.591	25.734	5.0	19.7	0.070
	Point 30	22	30	34.226	22.247	6.5	21.2	0.066	29	32.692	21.250	6.0	20.7	0.058	33	37.202	24.181	6.0	20.7	0.069
	Point 32	22	30	33.820	21.983	6.0	20.7	0.063	29	32.295	20.992	5.5	20.2	0.056	36	38.573	25.073	4.0	18.7	0.064
	Point 60	15	29	31.073	20.197	4.0	18.7	0.052	27	28.146	18.295	3.0	17.7	0.043	32	33.358	21.683	3.0	17.7	0.053
	Point 50	62	31	47.474	30.858	23.5	38.2	0.164	31	47.163	30.656	23.0	37.7	0.153	37	56.291	36.589	23.0	37.7	0.189
Total Oxygen Injected Per Day (lb)			**25.326**						**22.565**						**28.056**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 21	37	41	52.983	34.439	12.5	27.2	0.130	21	26.887	17.476	12.0	26.7	0.062	41	52.493	34.121	12.0	26.7	0.125
	Point 31	22	41	46.220	30.043	6.0	20.7	0.086	20	22.547	14.655	6.0	20.7	0.040	41	45.090	29.309	5.0	19.7	0.079
	Point 33	22	26	29.662	19.281	6.5	21.2	0.057	20	23.085	15.005	7.0	21.7	0.043	40	45.093	29.311	6.0	20.7	0.083
	Point 34	22	21	23.674	15.388	6.0	20.7	0.044	20	22.547	14.655	6.0	20.7	0.040	40	45.093	29.311	6.0	20.7	0.083
	Point 35	22	25	28.522	18.539	6.5	21.2	0.055	20	23.085	15.005	7.0	21.7	0.043	34	38.329	24.914	6.0	20.7	0.071
	Point 36	22	23	25.929	16.854	6.0	20.7	0.048	19	21.419	13.922	6.0	20.7	0.038	36	40.584	26.379	6.0	20.7	0.075
	Point 36A	62	21	32.370	21.040	24.0	38.7	0.113	12	18.497	12.023	24.0	38.7	0.062	46	70.905	46.088	24.0	38.7	0.245
	Point 36B	41	50	67.517	43.886	15.0	29.7	0.181	32	43.211	28.087	15.0	29.7	0.110	41	55.364	35.987	15.0	29.7	0.147
Total Oxygen Injected Per Day (lb)			**22.882**						**14.026**						**29.054**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 23	57	29	42.934	27.907	21.0	35.7	0.138	21	31.522	20.489	22.0	36.7	0.100	35	52.537	34.149	22.0	36.7	0.172
	Point 29	34	29	36.780	23.907	11.5	26.2	0.087	22	27.902	18.136	11.5	26.2	0.063	30	37.684	24.494	11.0	25.7	0.086
	Point 37	22	27	31.164	20.257	7.0	21.7	0.061	21	24.239	15.755	7.0	21.7	0.045	29	33.473	21.757	7.0	21.7	0.065
	Point 37A	62	35	47.262	30.720	15.0	29.7	0.127	20	31.224	20.296	25.0	39.7	0.107	45	66.621	43.304	21.0	35.7	0.212
	Point 37B	41	30	40.510	26.332	15.0	29.7	0.109	25	33.759	21.943	15.0	29.7	0.086	35	47.262	30.720	15.0	29.7	0.125
	Point 38	22	27	30.803	20.022	6.5	21.2	0.059	21	24.239	15.755	7.0	21.7	0.045	31	34.947	22.716	6.0	20.7	0.065
	Point 61	17	29	32.692	21.250	6.0	20.7	0.061	29	32.692	21.250	6.0	20.7	0.058	31	34.947	22.716	6.0	20.7	0.065
	Point 63	13	29	31.073	20.197	4.0	18.7	0.052	14	15.001	9.751	4.0	18.7	0.024	31	34.093	22.160	5.0	19.7	0.060
Total Oxygen Injected Per Day (lb)			**22.229**						**16.898**						**27.184**					
System Total Per Day (lb)			**169.16**						**136.39**						**215.28**					

Appendix B. OU-1 Oxygen Injection System Operational Data
Table B-2. OU-1 60/66 N. Clinton OU-3 Community Road Fourth Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Total Weight of Oxygen Injected through Q3 2020	991,003	lbs
Weight of Oxygen Injected through Q3 2020 (OU-1)	332,161	lbs
Weight of Oxygen Injected through Q3 2020 (OU-3)	658,842	lbs

Oxygen to OU-1 (60/66 N. Clinton)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	10/1/2020**	9	910
Month 2	Nov-20	25	3,543
Month 3	Dec-20	31	3,826
Total Operational Days In Q4 2020			65
Total Oxygen in OU-1 in Q4 2020 (lbs)			8,279.13
Running Total for Oxygen to OU-1 Through Q4 2020 (lbs)			**340,439.77**

Oxygen to OU-3 (Community Road)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	10/1/2020**	9	1,221
Month 2	Nov-20	25	4,426
Month 3	Dec-20	31	5,160
Total Operational Days In Q4 2020			65
Total Oxygen in OU-3 in Q4 2020 (lbs)			10,806.62
Running Total for Oxygen to OU-3 Through Q4 2020 (lbs)			**669,648.99**

Running Total for Oxygen System (OU-1 and OU-3) Through Q4 2020 (lbs)	**1,010,088.76**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (0.73)
NA* - System Not Operational
* - Point from the original OU-1 alignment.

System Operating Specs
* Injection point from the original system layout. Operation will be terminated upon approval from the NYSDEC. Once terminated, Injection point 8, 9, 12, and 15 will be connected to the manifold.

Total of 5 injection banks
Banks 1 & 2: Oxygen is injected for 8 minutes during each injection cycle
Each Injection bank operates for 9.6 injection cycles per day
Each injection point injects oxygen for 76.8 min per day (8 min per cycle * 9.6 cycles)
Banks 3, 4, & 5: Oxygen is injected for 10 minutes during each injection cycle
Each Injection bank operates for 9.6 injection cycles per day
Each injection point injects oxygen for 96 min per day (10 min per cycle * 9.6 cycles)
**9/20 Data - Did not perform monthly check for October due to downtime

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 708AM
System is recharging 708AM to 730AM
Bank 2 starts injection at 730AM
Bank 2 finishes injection at 738AM
System is recharging 738AM to 800AM
Bank 3 starts injection at 800AM
Bank 3 finishes injection at 810AM
System is recharging from 810AM to 830AM
Bank 4 starts injection at 830AM
Bank 4 Finishes injection at 840AM
System is recharging from 840AM to 900AM
Bank 5 starts injection at 900AM
Bank 5 finishes injection at 910AM
System is recharging from 910AM to 930AM
Bank 6 starts injection at 1000AM
Bank 6 finishes injection at 1010AM
System is recharging from 1010AM to 930AM
note: in injection bank 6, Point 10, 13, and 9 were changed to Point 12, 15, and 16 respectively for the June check.

	10/1/2020**	11/2/2020	12/9/2020
O_2%	71.8	72.6	83.9
R	10.73	10.73	10.73
Temp R (T)	658	614	627

Oxygen Going to OU-3 (Community Road)

		Depth	10/1/2020** SCFH (M)	10/1/2020** SCFH (C*)	10/1/2020** CF/D (V)	10/1/2020** PSI (M)	10/1/2020** PSIa (P)	10/1/2020** n=PV/RT lbs O2	11/2/2020 SCFH (M)	11/2/2020 SCFH (C*)	11/2/2020 CF/D (V)	11/2/2020 PSI (M)	11/2/2020 PSIa (P)	11/2/2020 n=PV/RT lbs O2	12/9/2020 SCFH (M)	12/9/2020 SCFH (C*)	12/9/2020 CF/D (V)	12/9/2020 PSI (M)	12/9/2020 PSIa (P)	12/9/2020 n=PV/RT lbs O2
Injection Bank 1	Point 1A*	25	32	36.508	46.730	6.5	21.2	0.101	41	47.324	60.574	7.0	21.7	0.145	26	30.010	38.413	7.0	21.7	0.104
	Point 1B*	35	31	38.940	49.843	11.0	25.7	0.130	35	44.390	56.819	11.5	26.2	0.164	25	31.707	40.585	11.5	26.2	0.133
	Point 2A*	25	33	38.526	49.313	7.5	22.2	0.111	40	47.221	60.443	8.0	22.7	0.151	26	30.694	39.288	8.0	22.7	0.111
	Point 2B*	35	34	43.531	55.720	12.0	26.7	0.151	40	51.690	66.164	12.5	27.2	0.198	25	32.306	41.352	12.5	27.2	0.140
	Point 3A*	25	33	37.202	47.618	6.0	20.7	0.100	37	41.711	53.390	6.0	20.7	0.122	27	30.803	39.428	6.5	21.2	0.104
	Point 3B*	35	29	37.129	47.526	12.0	26.7	0.129	31	40.427	51.746	13.0	27.7	0.158	28	36.183	46.315	12.5	27.2	0.157
	Point 4A*	25	31	36.597	46.844	8.0	22.7	0.108	40	47.739	61.105	8.5	23.2	0.156	27	32.223	41.246	8.5	23.2	0.119
	Point 4B*	35	30	38.768	49.623	12.5	27.2	0.137	39	50.859	65.100	13.0	27.7	0.199	24	31.014	39.698	12.5	27.2	0.135
	Point 5A*	25	30	35.804	45.829	8.5	23.2	0.108	37	44.631	57.128	9.0	23.7	0.149	29	34.981	44.776	9.0	23.7	0.132
	Point 5B*	35	31	40.060	51.277	12.5	27.2	0.142	33	43.035	55.084	13.0	27.7	0.168	25	32.306	41.352	12.5	27.2	0.140
Total Oxygen Injected Per Day (lb)			**38.985**						**51.533**						**40.832**					
Injection Bank 2	Point 1A	15	30	32.993	42.231	5.0	19.7	0.085	36	39.591	50.677	5.0	19.7	0.110	28	31.182	39.912	5.5	20.2	0.101
	Point 1B	25	33	38.526	49.313	7.5	22.2	0.111	40	47.221	60.443	8.0	22.7	0.151	30	35.416	45.332	8.0	22.7	0.128
	Point 2A	15	31	33.657	43.081	4.5	19.2	0.084	37	40.171	51.419	4.5	19.2	0.109	30	32.993	42.231	5.0	19.7	0.104
	Point 2B	25	30	35.416	45.332	8.0	22.7	0.105	39	46.545	59.578	8.5	23.2	0.152	29	34.610	44.301	8.5	23.2	0.128
	Point 3A	15	30	32.145	41.145	4.0	18.7	0.078	34	37.392	47.862	5.0	19.7	0.104	30	32.571	41.691	4.5	19.2	0.100
	Point 3B	25	30	36.567	46.806	9.5	24.2	0.115	32	39.005	49.927	9.5	24.2	0.133	28	34.480	44.135	10.0	24.7	0.136
	Point 4A	15	30	32.571	41.691	4.5	19.2	0.081	33	36.750	47.040	5.5	20.2	0.105	30	33.409	42.763	5.5	20.2	0.108
Total Oxygen Injected Per Day (lb)			**21.105**						**27.650**						**25.738**					
Injection Bank 6	Point 4B	25	27	32.911	52.657	9.5	24.2	0.130	41	49.975	79.961	9.5	24.2	0.213	27	33.249	53.198	10.0	24.7	0.164
	Point 5A	15	23	24.971	39.954	4.5	19.2	0.078	36	39.591	63.346	5.0	19.7	0.138	28	30.793	49.269	5.0	19.7	0.121
	Point 5B	25	24	28.950	46.320	9.0	23.7	0.112	32	38.600	61.760	9.0	23.7	0.161	28	33.775	54.040	9.0	23.7	0.160
	Point 6	25	24	28.950	46.320	9.0	23.7	0.112	33	40.224	64.359	9.5	24.2	0.172	24	29.254	46.806	9.5	24.2	0.141
	Point 7	25	27	32.569	52.110	9.0	23.7	0.126	33	40.224	64.359	9.5	24.2	0.172	27	32.911	52.657	9.5	24.2	0.159
	Point 12	15	34	37.392	59.827	5.0	19.7	0.120	50	55.681	89.090	5.5	20.2	0.198	42	46.772	74.836	5.5	20.2	0.189
	Point 11	25	36	43.425	69.480	9.0	23.7	0.167	50	60.946	97.513	9.5	24.2	0.260	41	49.975	79.961	9.5	24.2	0.241
	Point 15	25	37	44.631	71.410	9.0	23.7	0.172	49	59.727	95.563	9.5	24.2	0.255	41	49.975	79.961	9.5	24.2	0.241
	Point 14	15	43	46.074	73.718	4.0	18.7	0.140	51	55.371	88.594	4.5	19.2	0.187	43	46.686	74.697	4.5	19.2	0.179
	Point 16	16	36	39.591	63.346	5.0	19.7	0.127	50	55.681	89.090	5.5	20.2	0.198	42	46.190	73.904	5.0	19.7	0.182
Total Oxygen Injected Per Day (lb)			**41.056**						**62.536**						**56.844**					
OU-1 System Total Per Day (lb)			**101.15**						**141.72**						**123.41**					

		Depth	10/1/2020** SCFH (M)	10/1/2020** SCFH (C*)	10/1/2020** CF/D (V)	10/1/2020** PSI (M)	10/1/2020** PSIa (P)	10/1/2020** n=PV/RT lbs O2	11/2/2020 SCFH (M)	11/2/2020 SCFH (C*)	11/2/2020 CF/D (V)	11/2/2020 PSI (M)	11/2/2020 PSIa (P)	11/2/2020 n=PV/RT lbs O2	12/9/2020 SCFH (M)	12/9/2020 SCFH (C*)	12/9/2020 CF/D (V)	12/9/2020 PSI (M)	12/9/2020 PSIa (P)	12/9/2020 n=PV/RT lbs O2
Injection Bank 2	Point 16	21	30	31.273	40.030	3.0	17.7	0.072	39	43.432	55.592	5.5	20.2	0.124	31	31.390	40.179	2.0	16.7	0.084
	Point 17	21	28	33.417	42.774	8.5	23.2	0.101	40	48.250	61.760	9.0	23.7	0.161	29	34.981	44.776	9.0	23.7	0.132
	Point 29	21	28	32.689	41.842	7.5	22.2	0.094	42	49.582	63.465	8.0	22.7	0.159	28	33.055	42.310	8.0	22.7	0.120
Total Oxygen Injected Per Day (lb)			**8.558**						**14.202**						**10.745**					
Injection Bank 3	Point 18	21	32	37.777	60.443	8.0	22.7	0.140	33	39.384	63.015	8.5	23.2	0.161	38	44.860	71.776	8.0	22.7	0.203
	Point 19A	16	29	32.692	52.308	6.0	20.7	0.110	31	35.367	56.587	6.5	21.2	0.132	36	40.584	64.934	6.0	20.7	0.168
	Point 19B	27	31	37.786	60.458	9.5	24.2	0.149	31	38.175	61.079	10.0	24.7	0.166	35	43.100	68.961	10.0	24.7	0.212
	Point 25A	16	28	34.480	55.169	10.0	24.7	0.139	30	37.315	59.704	10.5	25.2	0.166	33	41.047	65.675	10.5	25.2	0.206
	Point 26A	16	32	36.074	57.719	6.0	20.7	0.122	31	35.367	56.587	6.5	21.2	0.132	30	34.226	54.761	6.5	21.2	0.145
	Point 26B	27	27	33.584	53.734	10.5	25.2	0.138	30	37.684	60.294	11.0	25.7	0.171	27	33.915	54.264	11.0	25.7	0.174
	Point 27A	16	32	36.074	57.719	6.0	20.7	0.122	31	34.947	55.915	6.0	20.7	0.128	32	36.074	57.719	6.0	20.7	0.149
	Point 27B	27	34	42.291	67.665	10.5	25.2	0.173	30	37.684	60.294	11.0	25.7	0.171	30	37.684	60.294	11.0	25.7	0.193
	Point 28A	16	32	36.074	57.719	6.0	20.7	0.122	32	36.074	57.719	6.0	20.7	0.132	35	39.930	63.888	6.5	21.2	0.169
	Point 28B	27	32	40.196	64.313	11.0	25.7	0.168	31	38.940	62.304	11.0	25.7	0.176	30	37.684	60.294	11.0	25.7	0.193
Total Oxygen Injected Per Day (lb)			**44.183**						**49.111**						**58.007**					
Injection Bank 4	Point 20A	16	30	34.627	55.403	7.0	21.7	0.122	33	38.526	61.642	7.5	22.2	0.151	28	32.319	51.710	7.0	21.7	0.140
	Point 21B	27	32	39.406	63.050	10.0	24.7	0.158	35	43.534	69.655	10.5	25.2	0.193	27	33.584	53.734	10.5	25.2	0.169
	Point 22A	16	31	35.367	56.587	6.5	21.2	0.122	32	36.936	59.097	7.0	21.7	0.141	27	31.164	49.863	7.0	21.7	0.135
	Point 22B	27	35	43.964	70.343	11.0	25.7	0.184	39	48.989	78.382	11.0	25.7	0.222	28	35.512	56.819	11.5	26.2	0.186
	Point 23A	16	32	35.636	57.018	5.5	20.2	0.117	35	39.456	63.130	6.0	20.7	0.144	29	32.692	52.308	6.0	20.7	0.135
	Point 23C	11	33	35.359	56.574	4.0	18.7	0.108	35	38.000	60.800	4.5	19.2	0.129	30	32.571	52.114	4.5	19.2	0.125
	Point 24B	27	30	37.684	60.294	11.0	25.7	0.158	39	48.989	78.382	11.0	25.7	0.222	27	33.915	54.264	11.0	25.7	0.174
	Point 31A	11	32	34.287	54.860	4.0	18.7	0.104	33	35.829	57.326	4.5	19.2	0.121	28	30.400	48.640	4.5	19.2	0.116
	Point 32B	21	34	40.138	64.221	8.0	22.7	0.148	39	46.545	74.472	8.5	23.2	0.190	27	32.223	51.558	8.5	23.2	0.149
	Point 33B	21	32	32.402	51.843	2.0	16.7	0.088	32	31.417	50.267	1.0	15.7	0.087	27	26.927	43.083	1.5	16.2	0.087
Total Oxygen Injected Per Day (lb)			**41.901**						**51.226**						**45.305**					
Injection Bank 5	Point 20B	27	32	39.803	63.685	10.5	25.2	0.163	41	51.501	82.402	11.0	25.7	0.233	29	36.428	58.284	11.0	25.7	0.187
	Point 21A	16	33	37.648	60.237	6.5	21.2	0.130	40	46.169	73.871	7.0	21.7	0.177	31	35.367	56.587	6.5	21.2	0.150
	Point 23B	27	31	37.786	60.458	9.5	24.2	0.149	43	52.413	83.861	9.5	24.2	0.224	31	37.786	60.458	9.5	24.2	0.182
	Point 24A	16	31	35.367	56.587	6.5	21.2	0.122	41	46.775	74.841	6.5	21.2	0.175	32	36.508	58.412	6.5	21.2	0.154
	Point 25B	27	33	37.202	59.523	6.0	20.7	0.125	40	45.634	73.015	6.5	21.2	0.171	34	38.789	62.063	6.5	21.2	0.164
	Point 31B	33	32	40.970	65.553	12.0	26.7	0.178	50	65.204	104.327	13.0	27.7	0.318	32	41.352	66.164	12.5	27.2	0.224
	Point 32A	11	27	28.930	46.288	4.0	18.7	0.088	41	44.514	71.223	4.5	19.2	0.151	33	35.829	57.326	4.5	19.2	0.137
	Point 32C	33	28	36.514	58.423	13.0	27.7	0.165	43	56.076	89.721	13.0	27.7	0.274	32	41.731	66.769	13.0	27.7	0.231
	Point 33A	11	26	27.103	43.366	3.0	17.7	0.078	40	40.503	64.804	2.0	16.7	0.119	33	33.415	53.463	2.0	16.7	0.111
	Point 33C	33	30	30.377	48.603	2.0	16.7	0.083	41	40.253	64.405	1.0	15.7	0.111	30	29.919	47.870	1.5	16.2	0.097
Total Oxygen Injected Per Day (lb)			**40.971**						**62.488**						**52.409**					
OU-3 System Total Per Day (lb)			**135.61**						**177.03**						**166.47**					

Appendix B. OU-1 Oxygen Injection System Operational Data
Table B-2. OU-1 60/66 N. Clinton OU-3 Community Road First Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Total Weight of Oxygen Injected through Q4 2020	1,010,089	lbs
Weight of Oxygen Injected through Q4 2020 (OU-1)	340,440	lbs
Weight of Oxygen Injected through Q4 2020 (OU-3)	669,649	lbs

Oxygen to OU-1 (60/66 N. Clinton)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-21	28	4,774
Month 2	Feb-21	28	3,781
Month 3	Mar-21	30	4,828
Total Operational Days In Q1 2021			86
Total Oxygen in OU-1 in Q1 2021 (lbs)			13,383.01
Running Total for Oxygen to OU-1 Through Q1 2021 (lbs)			**353,822.78**

Oxygen to OU-3 (Community Road)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-21	28	5,441
Month 2	Feb-21	28	4,931
Month 3	Mar-21	30	5,817
Total Operational Days In Q1 2021			86
Total Oxygen in OU-3 in Q1 2021 (lbs)			16,189.56
Running Total for Oxygen to OU-3 Through Q1 2021 (lbs)			**685,838.55**

Running Total for Oxygen System (OU-1 and OU-3) Through Q1 2021 (lbs)	**1,039,661.33**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (0.73)
NA* - System Not Operational
* - Point from the original OU-1 alignment.

System Operating Specs
* Injection point from the original system layout. Operation will be terminated upon approval from the NYSDEC. Once terminated, Injection point 8, 9, 12, and 15 will be connected to the manifold.

Total of 5 injection banks
Banks 1 & 2: Oxygen is injected for 8 minutes during each injection cycle
Each Injection bank operates for 9.6 injection cycles per day
Each injection point injects oxygen for 76.8 min per day (8 min per cycle * 9.6 cycles)
Banks 3, 4, & 5: Oxygen is injected for 10 minutes during each injection cycle
Each Injection bank operates for 9.6 injection cycles per day
Each injection point injects oxygen for 96 min per day (10 min per cycle * 9.6 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 708AM
System is recharging 708AM to 730AM
Bank 2 starts injection at 730AM
Bank 2 finishes injection at 738AM
System is recharging 738AM to 800AM
Bank 3 starts injection at 800AM
Bank 3 finishes injection at 810AM
System is recharging from 810AM to 830AM
Bank 4 starts injection at 830AM
Bank 4 Finishes injection at 840AM
System is recharging from 840AM to 900AM
Bank 5 starts injection at 900AM
Bank 5 finishes injection at 910AM
System is recharging from 910AM to 930AM
Bank 6 starts injection at 1000AM
Bank 6 finishes injection at 1010AM
System is recharging from 1010AM to 930AM
note: in injection bank 6, Point 10, 13, and 9 were changed to Point 12, 15, and 16 respectively for the June check.

		1/13/2021						2/24/2021						3/17/2021					
O_2%		92.3						94.0						94.2					
R		10.73						10.73						10.73					
Temp R (T)		609						638						605					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A*	25	39	45.015	57.619	7.0	21.7	0.177	28	32.319	41.368	7.0	21.7	0.123	32	36.936	47.278	7.0	21.7	0.149
	Point 1B*	35	50	62.806	80.392	11.0	25.7	0.292	29	36.428	46.627	11.0	25.7	0.165	40	50.731	64.936	11.5	26.2	0.247
	Point 2A*	25	37	43.680	55.910	8.0	22.7	0.179	27	31.874	40.799	8.0	22.7	0.127	31	36.597	46.844	8.0	22.7	0.154
	Point 2B*	35	42	54.275	69.472	12.5	27.2	0.267	28	35.512	45.455	11.5	26.2	0.164	35	45.229	57.893	12.5	27.2	0.229
	Point 3A*	25	22	25.099	32.127	6.5	21.2	0.096	27	30.803	39.428	6.5	21.2	0.115	31	35.367	45.269	6.5	21.2	0.139
	Point 3B*	35	45	58.152	74.434	12.5	27.2	0.286	29	36.780	47.079	11.5	26.2	0.169	40	51.690	66.164	12.5	27.2	0.261
	Point 4A*	25	35	41.771	53.467	8.5	23.2	0.175	28	33.417	42.774	8.5	23.2	0.136	30	35.804	45.829	8.5	23.2	0.154
	Point 4B*	35	40	51.690	66.164	12.5	27.2	0.254	28	35.512	45.455	11.5	26.2	0.164	36	46.947	60.092	13.0	27.7	0.242
	Point 5A*	25	37	45.100	57.728	9.5	24.2	0.197	29	34.981	44.776	9.0	23.7	0.146	31	37.394	47.864	9.0	23.7	0.165
	Point 5B*	35	40	51.690	66.164	12.5	27.2	0.254	30	38.048	48.702	11.5	26.2	0.175	35	45.643	58.423	13.0	27.7	0.235
Total Oxygen Injected Per Day (lb)			**69.687**						**47.468**						**63.175**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 1A	15	36	40.091	51.316	5.5	20.2	0.146	29	32.295	41.338	5.5	20.2	0.115	30	33.409	42.763	5.5	20.2	0.125
	Point 1B	25	33	38.958	49.866	8.0	22.7	0.160	31	36.997	47.357	8.5	23.2	0.151	31	36.597	46.844	8.0	22.7	0.154
	Point 2A	15	35	38.000	48.640	4.5	19.2	0.132	30	32.993	42.231	5.0	19.7	0.114	31	34.523	44.189	5.5	20.2	0.130
	Point 2B	25	35	41.771	53.467	8.5	23.2	0.175	28	33.417	42.774	8.5	23.2	0.136	30	35.804	45.829	8.5	23.2	0.154
	Point 3A	15	31	33.657	43.081	4.5	19.2	0.117	30	32.993	42.231	5.0	19.7	0.114	30	32.571	41.691	4.5	19.2	0.116
	Point 3B	25	31	37.786	48.366	9.5	24.2	0.165	29	35.712	45.711	10.0	24.7	0.155	30	36.943	47.287	10.0	24.7	0.169
	Point 4A	15	34	37.392	47.862	5.0	19.7	0.133	30	33.409	42.763	5.5	20.2	0.119	30	33.409	42.763	5.5	20.2	0.125
Total Oxygen Injected Per Day (lb)			**32.921**						**28.925**						**31.183**					
	Point 4B	25	30	36.567	58.508	9.5	24.2	0.200	24	29.555	47.287	10.0	24.7	0.160	29	35.348	56.558	9.5	24.2	0.199
	Point 5A	15	27	29.314	46.903	4.5	19.2	0.127	25	27.841	44.545	5.5	20.2	0.124	29	31.893	51.029	5.0	19.7	0.146
	Point 5B	25	30	36.188	57.900	9.0	23.7	0.194	25	30.473	48.757	9.5	24.2	0.162	29	34.981	55.970	9.0	23.7	0.192
	Point 6	25	30	36.188	57.900	9.0	23.7	0.194	24	29.254	46.806	9.5	24.2	0.156	27	32.911	52.657	9.5	24.2	0.185
	Point 7	25	27	32.569	52.110	9.0	23.7	0.174	26	31.692	50.707	9.5	24.2	0.168	27	32.911	52.657	9.5	24.2	0.185
	Point 12	15	42	46.772	74.836	5.5	20.2	0.214	38	42.838	68.542	6.0	20.7	0.195	41	45.659	73.054	5.5	20.2	0.214
	Point 11	25	45	54.281	86.850	9.0	23.7	0.291	39	47.538	76.060	9.5	24.2	0.253	41	49.975	79.961	9.5	24.2	0.281
	Point 15	25	45	54.281	86.850	9.0	23.7	0.291	39	47.538	76.060	9.5	24.2	0.253	40	48.757	78.010	9.5	24.2	0.274
	Point 14	15	42	45.600	72.960	4.5	19.2	0.198	38	41.257	66.011	4.5	19.2	0.174	40	43.429	69.486	4.5	19.2	0.194
	Point 16	16	49	53.888	86.221	5.0	19.7	0.240	38	42.318	67.709	5.5	20.2	0.188	42	46.190	73.904	5.0	19.7	0.211
Total Oxygen Injected Per Day (lb)			**67.906**						**58.628**						**66.577**					
OU-1 System Total Per Day (lb)			**170.51**						**135.02**						**160.94**					

Oxygen Going to OU-3 (Community Road)

		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 16	21	31	30.435	38.957	1.0	15.7	0.086	29	29.364	37.586	2.0	16.7	0.086	30	30.377	38.883	2.0	16.7	0.094
	Point 17	21	35	42.219	54.040	9.0	23.7	0.181	29	34.981	44.776	9.0	23.7	0.146	30	36.188	46.320	9.0	23.7	0.159
	Point 29	21	40	47.221	60.443	8.0	22.7	0.194	30	35.416	45.332	8.0	22.7	0.141	30	35.416	45.332	8.0	22.7	0.149
Total Oxygen Injected Per Day (lb)			**14.755**						**11.943**						**12.891**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 18	21	27	32.223	51.558	8.5	23.2	0.169	30	35.804	57.286	8.5	23.2	0.182	31	36.997	59.196	8.5	23.2	0.199
	Point 19A	16	30	34.226	54.761	6.5	21.2	0.164	30	34.226	54.761	6.5	21.2	0.159	31	35.367	56.587	6.5	21.2	0.174
	Point 19B	27	29	35.712	57.139	10.0	24.7	0.199	30	36.943	59.109	10.0	24.7	0.200	31	38.175	61.079	10.0	24.7	0.219
	Point 25A	16	31	38.175	61.079	10.0	24.7	0.213	28	34.828	55.724	10.5	25.2	0.193	32	39.803	63.685	10.5	25.2	0.233
	Point 26A	16	30	34.226	54.761	6.5	21.2	0.164	30	34.226	54.761	6.5	21.2	0.159	31	34.947	55.915	6.0	20.7	0.168
	Point 26B	27	30	37.684	60.294	11.0	25.7	0.219	30	37.684	60.294	11.0	25.7	0.213	35	43.964	70.343	11.0	25.7	0.262
	Point 27A	16	29	32.692	52.308	6.0	20.7	0.153	30	34.226	54.761	6.5	21.2	0.159	31	34.947	55.915	6.0	20.7	0.168
	Point 27B	27	31	38.940	62.304	11.0	25.7	0.226	30	37.684	60.294	11.0	25.7	0.213	30	37.315	59.704	10.5	25.2	0.218
	Point 28A	16	28	31.565	50.504	6.0	20.7	0.148	31	35.367	56.587	6.5	21.2	0.165	31	35.367	56.587	6.5	21.2	0.174
	Point 28B	27	31	38.940	62.304	11.0	25.7	0.226	29	36.780	58.848	11.5	26.2	0.212	31	39.317	62.907	11.5	26.2	0.239
Total Oxygen Injected Per Day (lb)			**60.198**						**59.392**						**65.759**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 20A	16	34	39.244	62.790	7.0	21.7	0.192	29	33.856	54.170	7.5	22.2	0.165	30	34.627	55.403	7.0	21.7	0.174
	Point 21B	27	33	40.638	65.020	10.0	24.7	0.227	29	36.071	57.714	10.5	25.2	0.200	30	37.315	59.704	10.5	25.2	0.218
	Point 22A	16	31	35.781	57.250	7.0	21.7	0.175	29	33.856	54.170	7.5	22.2	0.165	30	34.627	55.403	7.0	21.7	0.174
	Point 22B	27	31	38.940	62.304	11.0	25.7	0.226	30	38.048	60.878	11.5	26.2	0.219	30	37.684	60.294	11.0	25.7	0.225
	Point 23A	16	31	34.947	55.915	6.0	20.7	0.163	29	32.692	52.308	6.0	20.7	0.149	30	33.409	53.454	5.5	20.2	0.157
	Point 23C	11	30	32.145	51.431	4.0	18.7	0.136	30	32.993	52.788	5.0	19.7	0.143	29	31.486	50.377	4.5	19.2	0.140
	Point 24B	27	32	40.196	64.313	11.0	25.7	0.233	30	38.048	60.878	11.5	26.2	0.219	30	37.684	60.294	11.0	25.7	0.225
	Point 31A	11	31	33.216	53.146	4.0	18.7	0.140	30	32.571	52.114	4.5	19.2	0.137	30	32.145	51.431	4.0	18.7	0.140
	Point 32B	21	32	37.777	60.443	8.0	22.7	0.194	30	35.804	57.286	8.5	23.2	0.182	30	35.804	57.286	8.5	23.2	0.193
	Point 33B	21	34	33.381	53.409	1.0	15.7	0.118	30	29.919	47.870	1.5	16.2	0.106	30	28.981	46.369	0.5	15.2	0.102
Total Oxygen Injected Per Day (lb)			**57.804**						**53.946**						**55.958**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 20B	27	34	42.291	67.665	10.5	25.2	0.241	28	35.171	56.274	11.0	25.7	0.199	31	38.940	62.304	11.0	25.7	0.232
	Point 21A	16	34	38.789	62.063	6.5	21.2	0.186	29	33.473	53.557	7.0	21.7	0.160	30	34.627	55.403	7.0	21.7	0.174
	Point 23B	27	33	40.224	64.359	9.5	24.2	0.220	27	33.249	53.198	10.0	24.7	0.180	30	36.567	58.508	9.5	24.2	0.205
	Point 24A	16	34	38.789	62.063	6.5	21.2	0.186	26	30.010	48.016	7.0	21.7	0.143	30	34.226	54.761	6.5	21.2	0.168
	Point 25B	27	34	38.329	61.327	6.0	20.7	0.179	25	28.522	45.634	6.5	21.2	0.133	30	34.226	54.761	6.5	21.2	0.168
	Point 31B	33	40	46.698	74.717	7.5	22.2	0.234	27	35.210	56.336	13.0	27.7	0.214	31	40.060	64.096	12.5	27.2	0.253
	Point 32A	11	31	33.657	53.851	4.5	19.2	0.146	27	29.314	46.903	4.5	19.2	0.124	30	32.571	52.114	4.5	19.2	0.145
	Point 32C	33	37	48.685	77.895	13.5	28.2	0.310	29	38.158	61.053	13.5	28.2	0.236	32	42.106	67.369	13.5	28.2	0.276
	Point 33A	11	34	33.381	53.409	1.0	15.7	0.118	27	27.339	43.743	2.0	16.7	0.100	30	30.377	48.603	2.0	16.7	0.118
	Point 33C	33	31	29.947	47.915	0.5	15.2	0.103	28	27.924	44.679	1.5	16.2	0.099	30	29.919	47.870	1.5	16.2	0.113
Total Oxygen Injected Per Day (lb)			**61.561**						**50.833**						**59.308**					
OU-3 System Total Per Day (lb)			**194.32**						**176.11**						**193.92**					

Appendix B. OU-1 Oxygen Injection System Operational Data
Table B-2. OU-1 60/66 N. Clinton OU-3 Community Road Second Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Total Weight of Oxygen Injected through Q1 2021	1,039,661	lbs
Weight of Oxygen Injected through Q1 2021 (OU-1)	353,823	lbs
Weight of Oxygen Injected through Q1 2021 (OU-3)	685,839	lbs

Oxygen to OU-1 (60/66 N. Clinton)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-21	30	4,153
Month 2	Jan-00	20	2,768
Month 3	Jan-00	0	0
Total Operational Days In Q2 2021			50
Total Oxygen in OU-1 in Q2 2021 (lbs)			6,920.88
Running Total for Oxygen to OU-1 Through Q2 2021 (lbs)			**360,743.66**

Oxygen to OU-3 (Community Road)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-21	30	5,289
Month 2	Jan-00	20	0
Month 3	Jan-00	0	0
Total Operational Days In Q2 2021			50
Total Oxygen in OU-3 in Q2 2021 (lbs)			5,288.72
Running Total for Oxygen to OU-3 Through Q2 2021 (lbs)			**691,127.27**

Running Total for Oxygen System (OU-1 and OU-3) Through Q2 2021 (lbs)	**1,051,870.93**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (0.73)
NA* - System Not Operational
* - Point from the original OU-1 alignment.
* Injection point from the original system layout. Operation will be terminated upon approval from the NYSDEC. Once terminated, Injection point 8, 9, 12, and 15 will be connected to the manifold.

Total of 5 injection banks
Banks 1 & 2: Oxygen is injected for 8 minutes during each injection cycle
Each Injection bank operates for 9.6 injection cycles per day
Each injection point injects oxygen for 76.8 min per day (8 min per cycle * 9.6 cycles)
Banks 3, 4, & 5: Oxygen is injected for 10 minutes during each injection cycle
Each Injection bank operates for 9.6 injection cycles per day
Each injection point injects oxygen for 96 min per day (10 min per cycle * 9.6 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 708AM
System is recharging 708AM to 730AM
Bank 2 starts injection at 730AM
Bank 2 finishes injection at 738AM
System is recharging 738AM to 800AM
Bank 3 starts injection at 800AM
Bank 3 finishes injection at 810AM
System is recharging from 810AM to 830AM
Bank 4 starts injection at 830AM
Bank 4 Finishes injection at 840AM
System is recharging from 840AM to 900AM
Bank 5 starts injection at 900AM
Bank 5 finishes injection at 910AM
System is recharging from 910AM to 930AM
Bank 6 starts injection at 1000AM
Bank 6 finishes injection at 1010AM
System is recharging from 1010AM to 930AM
note: in injection bank 6, Point 10, 13, and 9 were changed to Point 12, 15, and 16 respectively for the June check.

System check not performed due to downtime | System check not performed due to downtime

		4/20/2021																			
O_2%		91.2																			
R		10.73						10.73						10.73							
Temp R (T)		607						614						627							
		Oxygen Going to OU-3 (Community Road)																			
	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2		
Injection Bank 1																					
Point 1A*	25	31	36.191	46.325	7.5	22.2	0.144														
Point 1B*	35	31	39.317	50.325	11.5	26.2	0.185														
Point 2A*	25	30	35.416	45.332	8.0	22.7	0.144														
Point 2B*	35	31	40.060	51.277	12.5	27.2	0.195														
Point 3A*	25	30	34.226	43.809	6.5	21.2	0.130														
Point 3B*	35	30	39.122	50.077	13.0	27.7	0.194														
Point 4A*	25	30	35.804	45.829	8.5	23.2	0.149														
Point 4B*	35	30	39.122	50.077	13.0	27.7	0.194														
Point 5A*	25	30	36.188	46.320	9.0	23.7	0.154														
Point 5B*	35	30	39.474	50.527	13.5	28.2	0.200														
Total Oxygen Injected Per Day (lb)		**54.037**																			
	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2		
Injection Bank 2																					
Point 1A	15	30	33.409	42.763	5.5	20.2	0.121														
Point 1B	25	30	35.416	45.332	8.0	22.7	0.144														
Point 2A	15	30	32.993	42.231	5.0	19.7	0.116														
Point 2B	25	30	35.804	45.829	8.5	23.2	0.149														
Point 3A	15	30	32.571	41.691	4.5	19.2	0.112														
Point 3B	25	30	36.943	47.287	10.0	24.7	0.164														
Point 4A	15	29	32.295	41.338	5.5	20.2	0.117														
Total Oxygen Injected Per Day (lb)		**29.535**																			
Injection Bank 6																					
Point 4B	25	21	25.597	40.955	9.5	24.2	0.139														
Point 5A	15	21	23.095	36.952	5.0	19.7	0.102														
Point 5B	25	21	25.597	40.955	9.5	24.2	0.139														
Point 6	25	21	25.597	40.955	9.5	24.2	0.139														
Point 7	25	21	25.860	41.376	10.0	24.7	0.143														
Point 12	15	35	38.977	62.363	5.5	20.2	0.176														
Point 11	25	35	43.100	68.961	10.0	24.7	0.239														
Point 15	25	40	48.757	78.010	9.5	24.2	0.264														
Point 14	15	40	43.429	69.486	4.5	19.2	0.187														
Point 16	16	37	41.204	65.927	5.5	20.2	0.186														
Total Oxygen Injected Per Day (lb)		**54.845**																			
OU-1 System Total Per Day (lb)		**138.42**																			
	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2		
Injection Bank 2																					
Point 16	21	29	30.655	39.238	3.5	18.2	0.100														
Point 17	21	29	35.348	45.246	9.5	24.2	0.153														
Point 29	21	29	34.610	44.301	8.5	23.2	0.144														
Total Oxygen Injected Per Day (lb)		**12.712**																			
	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2		
Injection Bank 3																					
Point 18	21	26	31.030	49.648	8.5	23.2	0.161														
Point 19A	16	29	33.085	52.936	6.5	21.2	0.157														
Point 19B	27	25	30.786	49.258	10.0	24.7	0.170														
Point 25A	16	25	31.096	49.754	10.5	25.2	0.176														
Point 26A	16	29	33.085	52.936	6.5	21.2	0.157														
Point 26B	27	27	33.915	54.264	11.0	25.7	0.195														
Point 27A	16	29	33.085	52.936	6.5	21.2	0.157														
Point 27B	27	27	33.915	54.264	11.0	25.7	0.195														
Point 28A	16	25	28.522	45.634	6.5	21.2	0.135														
Point 28B	27	29	36.780	58.848	11.5	26.2	0.216														
Total Oxygen Injected Per Day (lb)		**55.058**																			
	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2		
Injection Bank 4																					
Point 20A	16	30	35.024	56.038	7.5	22.2	0.174														
Point 21B	27	30	37.315	59.704	10.5	25.2	0.211														
Point 22A	16	29	33.473	53.557	7.0	21.7	0.163														
Point 22B	27	30	38.048	60.878	11.5	26.2	0.223														
Point 23A	16	29	32.692	52.308	6.0	20.7	0.152														
Point 23C	11	27	29.314	46.903	4.5	19.2	0.126														
Point 24B	27	30	38.048	60.878	11.5	26.2	0.223														
Point 31A	11	29	31.486	50.377	4.5	19.2	0.135														
Point 32B	21	30	35.804	57.286	8.5	23.2	0.186														
Point 33B	21	30	28.981	46.369	0.5	15.2	0.099														
Total Oxygen Injected Per Day (lb)		**54.151**																			
	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2		
Injection Bank 5																					
Point 20B	27	29	36.428	58.284	11.0	25.7	0.210														
Point 21A	16	30	34.627	55.403	7.0	21.7	0.168														
Point 23B	27	29	35.348	56.558	9.5	24.2	0.192														
Point 24A	16	26	29.662	47.460	6.5	21.2	0.141														
Point 25B	27	29	33.085	52.936	6.5	21.2	0.157														
Point 31B	33	30	39.122	62.596	13.0	27.7	0.243														
Point 32A	11	30	32.571	52.114	4.5	19.2	0.140														
Point 32C	33	30	39.474	63.158	13.5	28.2	0.249														
Point 33A	11	29	28.015	44.823	0.5	15.2	0.095														
Point 33C	33	30	29.453	47.126	1.0	15.7	0.104														
Total Oxygen Injected Per Day (lb)		**54.370**																			
OU-3 System Total Per Day (lb)		**176.29**																			

Appendix B. OU-1 Oxygen Injection System Operational Data
Table B-3. OU-1 North Fourth Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2020 272,157 lbs

Oxygen to OU-1 North

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-20	31	2,938
Month 2	Nov-20	30	3,171
Month 3	Dec-20	31	2,693
Total Operational Days in Q4 2020			92
Total Oxygen in Q4 2020 (lbs)			8,802.23
Running Total for Oxygen to OU-1 North Through Q4 2020 (lbs)			**280,959.46**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each Injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 12113M
System is recharging from 1213PM to 100PM
(Keep repeating cycle for course of day)

			10/22/2020						11/11/2020						12/28/2020					
		O_2%	89.4						87.6						80.1					
		R	10.73						10.73						10.73					
		Temp R (T)	656						620						627					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	10.5	31	30.916	26.794	1.5	16.2	0.055	26	26.327	22.816	2.0	16.7	0.050	21	21.264	18.429	2.0	16.7	0.037
	Point 1B	25.5	30	35.024	30.354	7.5	22.2	0.086	26	30.354	26.307	7.5	22.2	0.077	24	28.333	24.555	8.0	22.7	0.066
	Point 1C	40.5	30	40.168	34.812	14.5	29.2	0.129	32	42.846	37.133	14.5	29.2	0.143	30	40.510	35.109	15.0	29.7	0.124
	Point 1D	50.5	30	42.831	37.120	18.5	33.2	0.157	22	31.409	27.221	18.5	33.2	0.119	28	40.275	34.905	19.0	33.7	0.140
	Point 2A	10.5	5	4.909	4.254	1.0	15.7	0.008	0	0.000	0.000	1.0	15.7	0.000	5	4.986	4.322	1.5	16.2	0.008
	Point 2B	25.5	30	34.226	29.662	6.5	21.2	0.080	22	25.099	21.752	6.5	21.2	0.061	25	27.494	23.828	5.0	19.7	0.056
	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**16.470**						**14.386**						**13.806**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2C	40.5	31	41.507	35.972	14.5	29.2	0.133	28	37.490	32.491	14.5	29.2	0.125	22	29.707	25.746	15.0	29.7	0.091
	Point 2D	50.5	31	44.258	38.357	18.5	33.2	0.162	30	43.152	37.398	19.0	33.7	0.166	18	26.083	22.605	19.5	34.2	0.092
	Point 3A	10.5	13	12.350	10.703	0.0	14.7	0.020	0	0.000	0.000	0.0	14.7	0.000	5	4.750	4.117	0.0	14.7	0.007
	Point 3B	25.5	33	38.526	33.389	7.5	22.2	0.094	18	21.014	18.212	7.5	22.2	0.053	10	11.805	10.231	8.0	22.7	0.028
	Point 3C	40.5	32	42.477	36.814	14.0	28.7	0.134	26	34.513	29.911	14.0	28.7	0.113	21	28.117	24.368	14.5	29.2	0.085
	Point 3D	50.5	33	49.196	42.637	21.5	36.2	0.196	24	35.779	31.009	21.5	36.2	0.148	15	22.516	19.514	22.0	36.7	0.085
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**23.664**						**19.359**						**12.414**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 4A	10.5	24	26.057	22.583	4.5	19.2	0.055	28	30.400	26.347	4.5	19.2	0.067	30	32.571	28.229	4.5	19.2	0.065
	Point 4B	25.5	25	29.513	25.578	8.0	22.7	0.074	30	35.416	30.694	8.0	22.7	0.092	26	31.030	26.893	8.5	23.2	0.074
	Point 4C	40.5	15	20.084	17.406	14.5	29.2	0.065	0	0.000	0.000	14.5	29.2	0.000	40	53.557	46.416	14.5	29.2	0.161
	Point 4D	50.5	30	43.471	37.675	19.5	34.2	0.164	18	26.083	22.605	19.5	34.2	0.102	27	39.124	33.907	19.5	34.2	0.138
	Point 5A	10.5	0	0.000	0.000	1.0	15.7	0.000	26	24.700	21.407	0.0	14.7	0.041	5	4.986	4.322	1.5	16.2	0.008
	Point 5B	25.5	15	17.512	15.177	7.5	22.2	0.043	24	28.019	24.283	7.5	22.2	0.071	40	46.698	40.472	7.5	22.2	0.107
	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**12.794**						**11.922**						**17.714**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 5C	40.5	16	21.787	18.882	15.5	30.2	0.072	28	38.126	33.043	15.5	30.2	0.131	21	28.831	24.987	16.0	30.7	0.091
	Point 5D	50.5	16	23.014	19.946	19.0	33.7	0.085	32	46.029	39.892	19.0	33.7	0.177	25	35.960	31.165	19.0	33.7	0.125
	Point 6A	10.5	25	25.690	22.265	2.5	17.2	0.049	30	31.712	27.484	3.5	18.2	0.066	24	25.369	21.987	3.5	18.2	0.048
	Point 6B	25.5	20	23.349	20.236	7.5	22.2	0.057	30	35.024	30.354	7.5	22.2	0.089	22	25.684	22.260	7.5	22.2	0.059
	Point 6C	40.5	17	22.762	19.727	14.5	29.2	0.073	30	40.168	34.812	14.5	29.2	0.134	24	32.134	27.850	14.5	29.2	0.097
	Point 6D	50.5	15	21.090	18.278	17.5	32.2	0.075	32	44.993	38.994	17.5	32.2	0.165	23	32.589	28.244	18.0	32.7	0.110
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**13.165**						**24.391**						**16.948**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 7A	10.5	5	4.909	4.254	1.0	15.7	0.008	12	11.781	10.211	1.0	15.7	0.021	42	39.900	34.580	0.0	14.7	0.061
	Point 7B	25.5	22	25.684	22.260	7.5	22.2	0.063	30	35.024	30.354	7.5	22.2	0.089	23	27.152	23.532	8.0	22.7	0.064
	Point 7C	40.5	28	38.126	33.043	15.5	30.2	0.127	34	46.296	40.124	15.5	30.2	0.160	26	35.403	30.683	15.5	30.2	0.110
	Point 7D	50.5	24	34.006	29.471	18.0	32.7	0.122	34	48.175	41.751	18.0	32.7	0.180	24	34.265	29.696	18.5	33.2	0.117
	Point 8A	10.5	23	24.312	21.071	3.5	18.2	0.049	26	27.859	24.144	4.0	18.7	0.059	23	24.644	21.358	4.0	18.7	0.048
	Point 8B	25.5	26	30.010	26.009	7.0	21.7	0.072	30	34.627	30.010	7.0	21.7	0.086	24	28.019	24.283	7.5	22.2	0.064
	Point 8C	40.5	24	31.579	27.369	13.5	28.2	0.098	28	36.842	31.930	13.5	28.2	0.119	23	30.263	26.228	13.5	28.2	0.088
	Point 8D	50.5	23	32.837	28.459	18.5	33.2	0.120	34	48.541	42.069	18.5	33.2	0.184	27	38.837	33.659	19.0	33.7	0.135
Total Oxygen Injected Per Day (lb)			**21.082**						**28.699**						**21.973**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 9A	10.5	12	11.400	9.880	0.0	14.7	0.018	10	9.500	8.233	0.0	14.7	0.016	0	0.000	0.000	0.0	14.7	0.000
	Point 9B	25.5	32	37.359	32.378	7.5	22.2	0.091	28	32.689	28.330	7.5	22.2	0.083	17	19.847	17.201	7.5	22.2	0.045
	Point 9C	40.5	32	41.731	36.167	13.0	27.7	0.127	28	36.842	31.930	13.5	28.2	0.119	21	27.632	23.948	13.5	28.2	0.080
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Total Oxygen Injected Per Day (lb)			**7.583**						**6.954**						**4.028**					
System Total Per Day (lb)			**94.76**						**105.71**						**86.88**					

Appendix B. OU-1 Oxygen Injection System Operational Data
Table B-3. OU-1 North First Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q4 2020 280,959 lbs

Oxygen to OU-1 North

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-21	31	3,409
Month 2	Feb-21	28	3,452
Month 3	Mar-21	31	3,880
Total Operational Days in Q1 2021			90
Total Oxygen in Q1 2021 (lbs)			10,741.18
Running Total for Oxygen to OU-1 North Through Q1 2021 (lbs)			**291,700.64**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each Injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 12113M
System is recharging from 1213PM to 100PM
(Keep repeating cycle for course of day)

			1/21/2021						2/10/2021						3/29/2021					
		O_2%	82.5						89.2						88.3					
		R	10.73						10.73						10.73					
		Temp R (T)	625						623						622					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	10.5	20	21.430	18.572	4.0	18.7	0.043	21	21.264	18.429	2.0	16.7	0.041	20	20.552	17.812	2.5	17.2	0.041
	Point 1B	25.5	27	31.874	27.624	8.0	22.7	0.077	30	35.804	31.030	8.5	23.2	0.096	30	35.804	31.030	8.5	23.2	0.095
	Point 1C	40.5	29	38.829	33.652	14.5	29.2	0.121	30	40.168	34.812	14.5	29.2	0.136	30	40.168	34.812	14.5	29.2	0.134
	Point 1D	50.5	27	38.548	33.408	18.5	33.2	0.136	31	44.258	38.357	18.5	33.2	0.170	30	42.831	37.120	18.5	33.2	0.163
	Point 2A	10.5	10	9.500	8.233	0.0	14.7	0.015	10	9.660	8.372	0.5	15.2	0.017	15	14.490	12.558	0.5	15.2	0.025
	Point 2B	25.5	50	55.681	48.257	5.5	20.2	0.120	40	45.093	39.081	6.0	20.7	0.108	30	33.820	29.311	6.0	20.7	0.080
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**16.384**						**18.164**						**17.243**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2C	40.5	31	41.507	35.972	14.5	29.2	0.129	30	40.510	35.109	15.0	29.7	0.139	30	40.850	35.403	15.5	30.2	0.141
	Point 2D	50.5	36	51.782	44.878	19.0	33.7	0.186	39	56.098	48.618	19.0	33.7	0.219	29	41.714	36.152	19.0	33.7	0.161
	Point 3A	10.5	21	19.950	17.290	0.0	14.7	0.031	15	14.250	12.350	0.0	14.7	0.024	27	25.650	22.230	0.0	14.7	0.043
	Point 3B	25.5	49	57.205	49.578	7.5	22.2	0.135	35	41.319	35.809	8.0	22.7	0.108	29	34.235	29.671	8.0	22.7	0.089
	Point 3C	40.5	31	41.507	35.972	14.5	29.2	0.129	31	41.507	35.972	14.5	29.2	0.140	30	40.168	34.812	14.5	29.2	0.134
	Point 3D	50.5	39	58.141	50.389	21.5	36.2	0.224	36	53.669	46.513	21.5	36.2	0.225	29	43.233	37.469	21.5	36.2	0.179
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**26.738**						**27.370**						**23.966**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 4A	10.5	29	31.073	26.930	4.0	18.7	0.062	30	32.145	27.859	4.0	18.7	0.070	40	42.859	37.145	4.0	18.7	0.092
	Point 4B	25.5	29	34.610	29.996	8.5	23.2	0.086	30	35.804	31.030	8.5	23.2	0.096	42	50.125	43.442	8.5	23.2	0.133
	Point 4C	40.5	23	30.795	26.689	14.5	29.2	0.096	31	41.507	35.972	14.5	29.2	0.140	39	52.218	45.256	14.5	29.2	0.175
	Point 4D	50.5	31	45.247	39.214	20.0	34.7	0.167	31	44.920	38.931	19.5	34.2	0.178	40	58.383	50.599	20.0	34.7	0.232
	Point 5A	10.5	10	9.660	8.372	0.5	15.2	0.016	10	9.660	8.372	0.5	15.2	0.017	46	44.437	38.512	0.5	15.2	0.077
	Point 5B	25.5	23	26.240	22.741	6.5	21.2	0.059	32	37.359	32.378	7.5	22.2	0.096	49	57.205	49.578	7.5	22.2	0.146
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**15.545**						**19.081**						**27.374**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 5C	40.5	32	43.932	38.075	16.0	30.7	0.144	32	43.932	38.075	16.0	30.7	0.156	40	54.915	47.593	16.0	30.7	0.193
	Point 5D	50.5	39	56.098	48.618	19.0	33.7	0.202	31	44.590	38.645	19.0	33.7	0.174	21	30.206	26.179	19.0	33.7	0.117
	Point 6A	10.5	29	30.655	26.568	3.5	18.2	0.059	35	35.966	31.171	2.5	17.2	0.072	31	31.856	27.609	2.5	17.2	0.063
	Point 6B	25.5	30	35.024	30.354	7.5	22.2	0.083	31	36.191	31.366	7.5	22.2	0.093	30	35.024	30.354	7.5	22.2	0.089
	Point 6C	40.5	32	42.477	36.814	14.0	28.7	0.130	30	40.168	34.812	14.5	29.2	0.136	30	40.168	34.812	14.5	29.2	0.134
	Point 6D	50.5	40	56.676	49.119	18.0	32.7	0.198	30	42.181	36.557	17.5	32.2	0.157	30	42.181	36.557	17.5	32.2	0.156
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**26.090**						**25.182**						**24.072**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 7A	10.5	10	9.660	8.372	0.5	15.2	0.016	0	0.000	0.000	0.5	15.2	0.000	0	0.000	0.000	0.5	15.2	0.000
	Point 7B	25.5	22	25.684	22.260	7.5	22.2	0.061	26	30.694	26.601	8.0	22.7	0.081	27	31.874	27.624	8.0	22.7	0.083
	Point 7C	40.5	30	40.850	35.403	15.5	30.2	0.132	30	40.850	35.403	15.5	30.2	0.143	30	40.850	35.403	15.5	30.2	0.141
	Point 7D	50.5	29	41.090	35.611	18.0	32.7	0.143	30	42.831	37.120	18.5	33.2	0.164	30	42.831	37.120	18.5	33.2	0.163
	Point 8A	10.5	25	26.427	22.903	3.5	18.2	0.051	27	28.930	25.073	4.0	18.7	0.063	27	29.314	25.406	4.5	19.2	0.065
	Point 8B	25.5	21	24.239	21.007	7.0	21.7	0.056	30	35.024	30.354	7.5	22.2	0.090	0	0.000	0.000	7.5	22.2	0.000
	Point 8C	40.5	10	13.158	11.404	13.5	28.2	0.040	30	39.474	34.211	13.5	28.2	0.129	41	53.948	46.755	13.5	28.2	0.174
	Point 8D	50.5	30	42.831	37.120	18.5	33.2	0.152	30	43.152	37.398	19.0	33.7	0.168	40	57.536	49.865	19.0	33.7	0.222
Total Oxygen Injected Per Day (lb)			**20.792**						**26.786**						**27.161**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 9A	10.5	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000	10	9.500	8.233	0.0	14.7	0.016
	Point 9B	25.5	20	23.349	20.236	7.5	22.2	0.055	27	31.521	27.319	7.5	22.2	0.081	20	23.611	20.463	8.0	22.7	0.061
	Point 9C	40.5	21	27.632	23.948	13.5	28.2	0.083	30	39.474	34.211	13.5	28.2	0.129	21	27.632	23.948	13.5	28.2	0.089
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Total Oxygen Injected Per Day (lb)			**4.427**						**6.709**						**5.338**					
System Total Per Day (lb)			**109.98**						**123.29**						**125.15**					

Appendix B. OU-1 Oxygen Injection System Operational Data
Table B-3. OU-1 North Second Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2021 291,701 lbs

Oxygen to OU-1 North

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-21	30	3,660
Month 2	May-21	31	3,398
Month 3	Jun-21	30	3,209
Total Operational Days in Q2 2021			91
Total Oxygen in Q2 2021 (lbs)			10,266.20
Running Total for Oxygen to OU-1 North Through Q2 2021 (lbs)			**301,966.84**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each Injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 12113M
System is recharging from 1213PM to 100PM
(Keep repeating cycle for course of day)

			4/15/2021						5/19/2021						6/18/2021					
		O_2%	91.2						87.8						87.6					
		R	10.73						10.73						10.73					
		Temp R (T)	609						623						636					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	10.5	30	32.993	28.594	5.0	19.7	0.079	23	23.976	20.779	3.0	17.7	0.048	27	28.146	24.393	3.0	17.7	0.055
	Point 1B	25.5	27	31.874	27.624	8.0	22.7	0.088	25	29.513	25.578	8.0	22.7	0.076	22	25.972	22.509	8.0	22.7	0.066
	Point 1C	40.5	25	33.759	29.257	15.0	29.7	0.121	26	34.812	30.170	14.5	29.2	0.116	25	33.473	29.010	14.5	29.2	0.109
	Point 1D	50.5	25	35.692	30.933	18.5	33.2	0.143	25	35.692	30.933	18.5	33.2	0.135	25	35.422	30.699	18.0	32.7	0.129
	Point 2A	10.5	12	11.592	10.047	0.5	15.2	0.021	10	9.500	8.233	0.0	14.7	0.016	10	9.500	8.233	0.0	14.7	0.016
	Point 2B	25.5	29	33.085	28.674	6.5	21.2	0.085	25	29.186	25.295	7.5	22.2	0.074	21	24.517	21.248	7.5	22.2	0.061
	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**17.181**						**14.874**						**13.910**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2C	40.5	27	36.459	31.598	15.0	29.7	0.131	29	39.160	33.939	15.0	29.7	0.132	30	40.168	34.812	14.5	29.2	0.130
	Point 2D	50.5	27	38.837	33.659	19.0	33.7	0.158	30	43.152	37.398	19.0	33.7	0.166	30	43.152	37.398	19.0	33.7	0.162
	Point 3A	10.5	14	13.300	11.527	0.0	14.7	0.024	10	9.500	8.233	0.0	14.7	0.016	10	9.500	8.233	0.0	14.7	0.016
	Point 3B	25.5	30	35.416	30.694	8.0	22.7	0.097	30	35.804	31.030	8.5	23.2	0.095	29	34.610	29.996	8.5	23.2	0.089
	Point 3C	40.5	30	40.168	34.812	14.5	29.2	0.142	29	38.495	33.362	14.0	28.7	0.126	30	40.168	34.812	14.5	29.2	0.130
	Point 3D	50.5	30	44.724	38.761	21.5	36.2	0.196	29	43.531	37.727	22.0	36.7	0.182	27	40.529	35.125	22.0	36.7	0.165
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**23.932**						**22.912**						**22.179**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 4A	10.5	31	33.216	28.787	4.0	18.7	0.075	30	32.145	27.859	4.0	18.7	0.068	30	32.145	27.859	4.0	18.7	0.067
	Point 4B	25.5	30	35.804	31.030	8.5	23.2	0.100	30	35.416	30.694	8.0	22.7	0.092	27	31.874	27.624	8.0	22.7	0.080
	Point 4C	40.5	30	40.168	34.812	14.5	29.2	0.142	27	36.151	31.331	14.5	29.2	0.120	25	33.473	29.010	14.5	29.2	0.109
	Point 4D	50.5	30	43.471	37.675	19.5	34.2	0.180	30	43.471	37.675	19.5	34.2	0.169	30	43.471	37.675	19.5	34.2	0.165
	Point 5A	10.5	11	10.626	9.209	0.5	15.2	0.020	10	9.500	8.233	0.0	14.7	0.016	10	9.500	8.233	0.0	14.7	0.016
	Point 5B	25.5	30	35.024	30.354	7.5	22.2	0.094	29	33.856	29.342	7.5	22.2	0.086	27	31.521	27.319	7.5	22.2	0.078
	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**19.548**						**17.625**						**16.476**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 5C	40.5	20	27.458	23.797	16.0	30.7	0.102	30	40.850	35.403	15.5	30.2	0.140	30	40.850	35.403	15.5	30.2	0.137
	Point 5D	50.5	30	43.152	37.398	19.0	33.7	0.176	30	43.152	37.398	19.0	33.7	0.166	31	44.590	38.645	19.0	33.7	0.167
	Point 6A	10.5	30	32.145	27.859	4.0	18.7	0.073	30	32.571	28.229	4.5	19.2	0.071	27	28.146	24.393	3.0	17.7	0.055
	Point 6B	25.5	31	36.191	31.366	7.5	22.2	0.097	29	33.856	29.342	7.5	22.2	0.086	30	35.024	30.354	7.5	22.2	0.086
	Point 6C	40.5	30	40.168	34.812	14.5	29.2	0.142	30	40.168	34.812	14.5	29.2	0.134	32	42.846	37.133	14.5	29.2	0.139
	Point 6D	50.5	30	42.507	36.839	18.0	32.7	0.168	30	42.181	36.557	17.5	32.2	0.155	31	43.587	37.775	17.5	32.2	0.156
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**24.248**						**24.026**						**23.733**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 7A	10.5	0	0.000	0.000	0.5	15.2	0.000	0	0.000	0.000	0.5	15.2	0.000	0	0.000	0.000	0.0	14.7	0.000
	Point 7B	25.5	30	35.416	30.694	8.0	22.7	0.097	22	25.972	22.509	8.0	22.7	0.067	22	25.972	22.509	8.0	22.7	0.066
	Point 7C	40.5	30	40.850	35.403	15.5	30.2	0.149	30	40.850	35.403	15.5	30.2	0.140	25	34.041	29.503	15.5	30.2	0.114
	Point 7D	50.5	31	44.258	38.357	18.5	33.2	0.178	21	29.981	25.984	18.5	33.2	0.113	30	42.831	37.120	18.5	33.2	0.158
	Point 8A	10.5	30	32.145	27.859	4.0	18.7	0.073	30	32.145	27.859	4.0	18.7	0.068	30	30.828	26.718	2.5	17.2	0.059
	Point 8B	25.5	32	37.359	32.378	7.5	22.2	0.100	30	35.024	30.354	7.5	22.2	0.089	30	34.627	30.010	7.0	21.7	0.084
	Point 8C	40.5	27	35.527	30.790	13.5	28.2	0.121	29	38.158	33.070	13.5	28.2	0.122	27	35.527	30.790	13.5	28.2	0.111
	Point 8D	50.5	31	44.590	38.645	19.0	33.7	0.182	29	41.714	36.152	19.0	33.7	0.160	27	38.837	33.659	19.0	33.7	0.146
Total Oxygen Injected Per Day (lb)			**28.805**						**24.329**						**23.610**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 9A	10.5	10	9.500	8.233	0.0	14.7	0.017	20	19.000	16.467	0.0	14.7	0.032	2	1.900	1.647	0.0	14.7	0.003
	Point 9B	25.5	33	38.958	33.763	8.0	22.7	0.107	21	24.517	21.248	7.5	22.2	0.062	31	36.191	31.366	7.5	22.2	0.089
	Point 9C	40.5	30	39.474	34.211	13.5	28.2	0.135	21	27.632	23.948	13.5	28.2	0.089	31	40.790	35.351	13.5	28.2	0.128
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**8.272**						**5.838**						**7.055**					
System Total Per Day (lb)			**121.99**						**109.60**						**106.96**					

Appendix C. OU-2 Oxygen Injection System Operational Data
Table C-1. OU-2 Garner Lane Fourth Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2020: 1,269,362 lbs

Oxygen to OU-2 - Garner Lane

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-20	31	2,843
Month 2	Nov-20	17	1,701
Month 3	Dec-20	21	2,101
Total Operational Days in Q4 2020			69
Total Oxygen in Q4 2020			6,644.79
Running Total for Oxygen to Garner Lane Through Q4 2020 (lbs)			**1,276,006.75**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 16 minutes during each injection cycle
Each injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 64 min per day (16 min per cycle * 4 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 716AM
System is recharging 716AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 816AM
System is recharging 816AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 916AM
System is recharging from 916AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1016AM
System is recharging from 1016AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1116AM
System is recharging from 1116AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1216PM
System is recharging from 1216PM to 100PM
(Keep repeating cycle for course of day)

System check not performed in November due to downtime

			10/19/2020						-						12/11/2020					
		O_2%	55.9						-						76.9					
		R	10.73						10.73						10.73					
		Temp R (T)	646						646						639					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 1	Point 1	25	25	30.786	32.838	10.0	24.7	0.065	-	-	-	-	-	-	22	27.092	28.898	10.0	24.7	0.080
	Point 2	25	24	28.019	29.887	7.5	22.2	0.054	-	-	-	-	-	-	21	24.517	26.151	7.5	22.2	0.065
	Point 3	25	25	29.186	31.132	7.5	22.2	0.056	-	-	-	-	-	-	22	25.684	27.396	7.5	22.2	0.068
	Point 4	25	24	28.019	29.887	7.5	22.2	0.054	-	-	-	-	-	-	22	25.684	27.396	7.5	22.2	0.068
	Point 5	25	27	31.164	33.242	7.0	21.7	0.058	-	-	-	-	-	-	23	26.852	28.642	7.5	22.2	0.071
	Point 6	25	26	30.694	32.740	8.0	22.7	0.060	-	-	-	-	-	-	23	27.450	29.280	8.5	23.2	0.076
	Point 7	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 8	25	26	30.354	32.378	7.5	22.2	0.058	-	-	-	-	-	-	22	25.684	27.396	7.5	22.2	0.068
	Point 9	50	34	48.906	52.166	19.0	33.7	0.142	-	-	-	-	-	-	28	40.573	43.278	19.5	34.2	0.166
	Point 10	25	24	27.056	28.860	6.0	20.7	0.048	-	-	-	-	-	-	22	24.500	26.133	5.5	20.2	0.059
Total Oxygen Injected Per Day (lb)			**19.014**												**23.121**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 2	Point 11	25	30	35.416	37.777	8.0	22.7	0.069	-	-	-	-	-	-	25	29.513	31.481	8.0	22.7	0.080
	Point 12	50	47	67.605	72.112	19.0	33.7	0.196	-	-	-	-	-	-	37	53.221	56.769	19.0	33.7	0.215
	Point 13	25	30	35.024	37.359	7.5	22.2	0.067	-	-	-	-	-	-	24	28.019	29.887	7.5	22.2	0.074
	Point 14	68	67	106.559	113.662	26.5	41.2	0.378	-	-	-	-	-	-	33	51.843	55.299	25.5	40.2	0.249
	Point 15	25	31	36.597	39.036	8.0	22.7	0.071	-	-	-	-	-	-	25	29.513	31.481	8.0	22.7	0.080
	Point 16	50	46	66.166	70.578	19.0	33.7	0.192	-	-	-	-	-	-	33	47.467	50.632	19.0	33.7	0.191
	Point 17	25	28	33.055	35.259	8.0	22.7	0.065	-	-	-	-	-	-	24	28.333	30.222	8.0	22.7	0.077
	Point 18	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 19	25	28	32.319	34.473	7.0	21.7	0.060	-	-	-	-	-	-	23	26.852	28.642	7.5	22.2	0.071
	Point 20	50	43	61.851	65.975	19.0	33.7	0.179	-	-	-	-	-	-	32	46.029	49.097	19.0	33.7	0.186
Total Oxygen Injected Per Day (lb)			**40.868**												**39.162**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 3	Point 21	27	30	36.188	38.600	9.0	23.7	0.074	-	-	-	-	-	-	24	28.643	30.553	8.5	23.2	0.079
	Point 22	65.5	60	98.839	105.428	29.5	44.2	0.376	-	-	-	-	-	-	48	79.517	84.818	30.0	44.7	0.425
	Point 23	25	26	30.354	32.378	7.5	22.2	0.058	-	-	-	-	-	-	28	33.055	35.259	8.0	22.7	0.090
	Point 24	50	43	61.851	65.975	19.0	33.7	0.179	-	-	-	-	-	-	32	46.029	49.097	19.0	33.7	0.186
	Point 25	25	28	32.689	34.868	7.5	22.2	0.062	-	-	-	-	-	-	25	29.186	31.132	7.5	22.2	0.078
	Point 26	25	26	30.354	32.378	7.5	22.2	0.058	-	-	-	-	-	-	26	30.354	32.378	7.5	22.2	0.081
	Point 27	25	26	30.010	32.011	7.0	21.7	0.056	-	-	-	-	-	-	27	31.164	33.242	7.0	21.7	0.081
	Point 28	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 29	25	28	33.055	35.259	8.0	22.7	0.065	-	-	-	-	-	-	27	31.874	33.999	8.0	22.7	0.087
	Point 30	25	30	35.024	37.359	7.5	22.2	0.067	-	-	-	-	-	-	24	28.019	29.887	7.5	22.2	0.074
Total Oxygen Injected Per Day (lb)			**31.830**												**37.763**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 4	Point 1	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 2	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 2A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 4	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 5	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 6	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 7	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 8	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 9	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**0.000**												**0.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 5	Point 11	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 4A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 13	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 14	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 15	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 16	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 17	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 18	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 19	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 20	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**0.000**												**0.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 6	Point 6A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 23	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 24	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 26	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27A	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27B	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27C	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**0.000**												**0.000**					
System Total Per Day (lb)			**91.71**												**100.05**					

Appendix C. OU-2 Oxygen Injection System Operational Data
Table C-1. OU-2 Garner Lane First Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q4 2020: 1,276,007 lbs

Oxygen to OU-2 - Garner Lane

		Operational Days	Oxygen Injected Per Month (lbs)
Month 1	Jan-21	31	3,896
Month 2	Feb-21	28	3,144
Month 3	Mar-21	31	3,613
Total Operational Days in Q1 2021			90
Total Oxygen in Q1 2021			10,652.96
Running Total for Oxygen to Garner Lane Through Q1 2021 (lbs)			**1,286,659.71**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 16 minutes during each injection cycle
Each injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 64 min per day (16 min per cycle * 4 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 716AM
System is recharging 716AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 816AM
System is recharging 816AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 916AM
System is recharging from 916AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1016AM
System is recharging from 1016AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1116AM
System is recharging from 1116AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1216PM
System is recharging from 1216PM to 100PM
(Keep repeating cycle for course of day)

System Downtime
None.

			1/28/2021						2/15/2021						3/26/2021					
		O_2%	71.2						72.7						69.2					
		R	10.73						10.73						10.73					
		Temp R (T)	641						643						605					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 1	Point 1	25	29	35.712	38.093	10.0	24.7	0.097	31	38.175	40.720	10.0	24.7	0.106	28	34.480	36.779	10.0	24.7	0.097
	Point 2	25	29	33.856	36.113	7.5	22.2	0.083	30	35.024	37.359	7.5	22.2	0.087	27	31.521	33.623	7.5	22.2	0.080
	Point 3	25	27	31.521	33.623	7.5	22.2	0.077	30	35.024	37.359	7.5	22.2	0.087	30	35.024	37.359	7.5	22.2	0.088
	Point 4	25	30	35.024	37.359	7.5	22.2	0.086	30	35.024	37.359	7.5	22.2	0.087	30	35.024	37.359	7.5	22.2	0.088
	Point 5	25	30	35.024	37.359	7.5	22.2	0.086	31	35.781	38.167	7.0	21.7	0.087	26	30.010	32.011	7.0	21.7	0.074
	Point 6	25	31	36.997	39.464	8.5	23.2	0.095	31	36.597	39.036	8.0	22.7	0.093	26	30.694	32.740	8.0	22.7	0.079
	Point 7	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 8	25	27	31.521	33.623	7.5	22.2	0.077	31	36.191	38.604	7.5	22.2	0.090	28	32.689	34.868	7.5	22.2	0.083
	Point 9	50	41	59.410	63.371	19.5	34.2	0.224	57	82.595	88.101	19.5	34.2	0.317	62	89.181	95.126	19.0	33.7	0.342
	Point 10	25	30	34.226	36.508	6.5	21.2	0.080	31	35.781	38.167	7.0	21.7	0.087	30	35.024	37.359	7.5	22.2	0.088
Total Oxygen Injected Per Day (lb)			**28.989**						**33.404**						**32.613**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 2	Point 11	25	30	35.024	37.359	7.5	22.2	0.086	27	31.521	33.623	7.5	22.2	0.079	26	30.354	32.378	7.5	22.2	0.077
	Point 12	50	51	73.901	78.827	19.5	34.2	0.279	39	56.098	59.837	19.0	33.7	0.212	87	125.141	133.484	19.0	33.7	0.480
	Point 13	25	32	37.359	39.849	7.5	22.2	0.092	35	40.861	43.585	7.5	22.2	0.102	27	31.521	33.623	7.5	22.2	0.080
	Point 14	68	45	71.569	76.340	26.5	41.2	0.326	0	0.000	0.000	20.5	35.2	0.000	20	32.001	34.134	27.0	41.7	0.152
	Point 15	25	31	36.597	39.036	8.0	22.7	0.092	25	29.513	31.481	8.0	22.7	0.075	26	30.694	32.740	8.0	22.7	0.079
	Point 16	50	50	71.920	76.715	19.0	33.7	0.268	35	49.969	53.300	18.5	33.2	0.186	86	123.702	131.949	19.0	33.7	0.474
	Point 17	25	29	33.856	36.113	7.5	22.2	0.083	22	25.972	27.703	8.0	22.7	0.066	25	29.513	31.481	8.0	22.7	0.076
	Point 18	66	-	-	-	11.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 19	25	27	31.521	33.623	7.5	22.2	0.077	23	26.852	28.642	7.5	22.2	0.067	28	32.319	34.473	7.0	21.7	0.080
	Point 20	50	41	58.974	62.906	19.0	33.7	0.219	36	51.397	54.823	18.5	33.2	0.192	97	139.525	148.827	19.0	33.7	0.535
Total Oxygen Injected Per Day (lb)			**48.678**						**31.357**						**65.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 3	Point 21	27	27	32.223	34.372	8.5	23.2	0.083	31	36.997	39.464	8.5	23.2	0.096	22	25.393	27.086	7.0	21.7	0.063
	Point 22	65.5	91	149.905	159.899	29.5	44.2	0.732	70	115.962	123.693	30.0	44.7	0.583	16	18.468	19.699	7.0	21.7	0.046
	Point 23	25	24	28.019	29.887	7.5	22.2	0.069	30	35.024	37.359	7.5	22.2	0.087	22	25.684	27.396	7.5	22.2	0.065
	Point 24	50	39	56.098	59.837	19.0	33.7	0.209	50	71.920	76.715	19.0	33.7	0.272	32	37.777	40.296	8.0	22.7	0.098
	Point 25	25	29	33.856	36.113	7.5	22.2	0.083	29	33.856	36.113	7.5	22.2	0.084	21	24.517	26.151	7.5	22.2	0.062
	Point 26	25	30	35.024	37.359	7.5	22.2	0.086	31	36.191	38.604	7.5	22.2	0.090	21	24.239	25.855	7.0	21.7	0.060
	Point 27	25	30	34.627	36.936	7.0	21.7	0.083	31	36.191	38.604	7.5	22.2	0.090	24	27.702	29.548	7.0	21.7	0.068
	Point 28	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 29	25	27	31.874	33.999	8.0	22.7	0.080	30	35.416	37.777	8.0	22.7	0.090	21	24.239	25.855	7.0	21.7	0.060
	Point 30	25	27	31.521	33.623	7.5	22.2	0.077	31	36.191	38.604	7.5	22.2	0.090	26	29.662	31.640	6.5	21.2	0.072
Total Oxygen Injected Per Day (lb)			**48.019**						**47.509**						**18.941**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 4	Point 1	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 2	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 2A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 4	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 5	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 6	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 7	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 8	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 9	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**0.000**						**0.000**						**0.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 5	Point 11	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 4A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 13	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 14	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 15	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 16	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 17	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 18	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 19	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 20	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**0.000**						**0.000**						**0.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 6	Point 6A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 23	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 24	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 26	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27A	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27B	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27C	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**0.000**						**0.000**						**0.000**					
System Total Per Day (lb)			**125.69**						**112.27**						**116.55**					

Appendix C. OU-2 Oxygen Injection System Operational Data
Table C-1. OU-2 Garner Lane Second Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2021: 1,286,660 lbs

Oxygen to OU-2 - Garner Lane

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-21	30	2,774
Month 2	May-21	31	3,560
Month 3	Jun-21	30	2,500
Total Operational Days in Q2 2021			91
Total Oxygen in Q2 2021			8,834.27
Running Total for Oxygen to Garner Lane Through Q2 2021 (lbs)			**1,295,493.98**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 16 minutes during each injection cycle
Each injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 64 min per day (16 min per cycle * 4 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 716AM
System is recharging 716AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 816AM
System is recharging 816AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 916AM
System is recharging from 916AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1016AM
System is recharging from 1016AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1116AM
System is recharging from 1116AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1216PM
System is recharging from 1216PM to 100PM
(Keep repeating cycle for course of day)

			4/23/2021						5/21/2021						6/13/2021					
		O_2%	64.7						61.6						58.0					
		R	10.73						10.73						10.73					
		Temp R (T)	608						612						632					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 1	Point 1	25	22	27.092	28.898	10.0	24.7	0.071	30	36.567	39.005	9.5	24.2	0.089	24	29.555	31.525	10.0	24.7	0.067
	Point 2	25	25	29.186	31.132	7.5	22.2	0.069	27	31.521	33.623	7.5	22.2	0.070	24	28.019	29.887	7.5	22.2	0.057
	Point 3	25	22	25.684	27.396	7.5	22.2	0.060	30	35.024	37.359	7.5	22.2	0.078	26	30.354	32.378	7.5	22.2	0.061
	Point 4	25	23	26.852	28.642	7.5	22.2	0.063	27	31.521	33.623	7.5	22.2	0.070	25	29.186	31.132	7.5	22.2	0.059
	Point 5	25	25	29.186	31.132	7.5	22.2	0.069	25	29.186	31.132	7.5	22.2	0.065	25	28.856	30.780	7.0	21.7	0.057
	Point 6	25	24	28.643	30.553	8.5	23.2	0.070	25	29.513	31.481	8.0	22.7	0.067	25	29.513	31.481	8.0	22.7	0.061
	Point 7	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 8	25	22	25.684	27.396	7.5	22.2	0.060	29	33.856	36.113	7.5	22.2	0.075	25	29.186	31.132	7.5	22.2	0.059
	Point 9	50	24	34.777	37.095	19.5	34.2	0.126	61	89.674	95.652	20.5	35.2	0.316	35	50.716	54.097	19.5	34.2	0.158
	Point 10	25	29	32.692	34.872	6.0	20.7	0.072	25	28.856	30.780	7.0	21.7	0.063	25	27.841	29.697	5.5	20.2	0.051
	Total Oxygen Injected Per Day (lb)		**21.097**						**28.542**						**20.187**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 2	Point 11	25	27	31.874	33.999	8.0	22.7	0.077	25	29.186	31.132	7.5	22.2	0.065	24	28.333	30.222	8.0	22.7	0.059
	Point 12	50	39	56.512	60.280	19.5	34.2	0.204	35	50.716	54.097	19.5	34.2	0.174	34	49.267	52.552	19.5	34.2	0.154
	Point 13	25	27	31.521	33.623	7.5	22.2	0.074	29	33.856	36.113	7.5	22.2	0.075	22	25.393	27.086	7.0	21.7	0.050
	Point 14	68	31	49.303	52.590	26.5	41.2	0.215	50	80.002	85.336	27.0	41.7	0.334	46	73.602	78.509	27.0	41.7	0.280
	Point 15	25	27	32.223	34.372	8.5	23.2	0.079	30	35.416	37.777	8.0	22.7	0.080	22	25.972	27.703	8.0	22.7	0.054
	Point 16	50	40	57.536	61.372	19.0	33.7	0.205	70	100.688	107.401	19.0	33.7	0.340	35	50.344	53.700	19.0	33.7	0.155
	Point 17	25	30	35.416	37.777	8.0	22.7	0.085	30	35.416	37.777	8.0	22.7	0.080	23	27.152	28.962	8.0	22.7	0.056
	Point 18	66	-	-	-	-	-	-	-	-	-	-	-	-	38.0	-	-	27.0	-	-
	Point 19	25	27	31.521	33.623	7.5	22.2	0.074	30	35.024	37.359	7.5	22.2	0.078	23	26.547	28.317	7.0	21.7	0.053
	Point 20	50	36	51.782	55.235	19.0	33.7	0.185	75	107.880	115.072	19.0	33.7	0.364	37	53.221	56.769	19.0	33.7	0.164
	Total Oxygen Injected Per Day (lb)		**38.329**						**50.860**						**32.757**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 3	Point 21	27	22	26.538	28.307	9.0	23.7	0.067	31	36.997	39.464	8.5	23.2	0.086	23	27.450	29.280	8.5	23.2	0.058
	Point 22	65.5	57	92.829	99.017	28.5	43.2	0.424	53	87.308	93.128	29.5	44.2	0.386	58	95.002	101.336	29.0	43.7	0.379
	Point 23	25	21	24.791	26.444	8.0	22.7	0.060	27	31.521	33.623	7.5	22.2	0.070	24	28.333	30.222	8.0	22.7	0.059
	Point 24	50	34	49.267	52.552	19.5	34.2	0.178	50	72.452	77.282	19.5	34.2	0.248	34	49.626	52.934	20.0	34.7	0.157
	Point 25	25	21	24.517	26.151	7.5	22.2	0.058	24	28.019	29.887	7.5	22.2	0.062	25	29.513	31.481	8.0	22.7	0.061
	Point 26	25	22	25.684	27.396	7.5	22.2	0.060	24	27.702	29.548	7.0	21.7	0.060	24	28.019	29.887	7.5	22.2	0.057
	Point 27	25	22	25.684	27.396	7.5	22.2	0.060	29	33.473	35.704	7.0	21.7	0.073	28	32.319	34.473	7.0	21.7	0.064
	Point 28	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 29	25	23	27.152	28.962	8.0	22.7	0.065	25	28.522	30.423	6.5	21.2	0.061	23	27.152	28.962	8.0	22.7	0.056
	Point 30	25	22	25.684	27.396	7.5	22.2	0.060	24	28.019	29.887	7.5	22.2	0.062	25	29.186	31.132	7.5	22.2	0.059
	Total Oxygen Injected Per Day (lb)		**33.032**						**35.449**						**30.394**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 4	Point 1	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 2	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 2A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 4	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 5	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 6	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 7	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 8	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 9	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**0.000**						**0.000**						**0.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 5	Point 11	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 4A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 13	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 14	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 15	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 16	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 17	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 18	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 19	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 20	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**0.000**						**0.000**						**0.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 6	Point 6A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 23	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 24	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 26	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27A	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27B	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27C	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**0.000**						**0.000**						**0.000**					
	System Total Per Day (lb)		**92.46**						**114.85**						**83.34**					

Appendix C. OU-2 Oxygen Injection System Operational Data
Table C-2. 9 North Clinton Fourth Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2020: 592,409 lbs

Oxygen to OU-2 - 9 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Oct-20	31	2,375
Month 2	Nov-20	30	3,657
Month 3	Dec-20	31	3,779
Total Operational Days in Q4 2020			92
Total Oxygen in Q4 2020			9,810.95
Running Total for Oxygen to 9 North Clinton Through Q4 2020 (lbs)			**602,219.66**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 3.1 injection cycles per day
Each injection point injects oxygen for 40 min per day (13 min per cycle * 3.1 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
(Keep repeating cycle for course of day)

** Due to the request of the property owner, the system will not inject during the hours of 800AM and 830AM and 1100AM and 400PM.
The oxygen weights have been adjusted to incorporate this schedule.

Monthly Check Not Performed

			10/12/2020						11/21/2020											
		O_2%	84.6						82.9											
		R	10.73						10.73						10.73					
		Temp R (T)	637						644											
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	30	15	18.658	12.438	10.5	25.2	0.039	28	35.171	23.448	11.0	25.7	0.072		0.000	0.000		14.7	
	Point 7A	30	16	19.703	13.135	10.0	24.7	0.040	27	33.249	22.166	10.0	24.7	0.066		0.000	0.000		14.7	
	Point 7B	64	15	23.418	15.612	25.0	39.7	0.077	28	43.988	29.325	25.5	40.2	0.141		0.000	0.000		14.7	
	Point 13A	25	16	18.254	12.169	6.5	21.2	0.032	28	32.319	21.546	7.0	21.7	0.056		0.000	0.000		14.7	
	Point 13B	52	22	32.111	21.407	20.0	34.7	0.092	26	37.949	25.299	20.0	34.7	0.105		0.000	0.000		14.7	
	Point 19A	25	22	25.972	17.314	8.0	22.7	0.049	26	30.694	20.463	8.0	22.7	0.056		0.000	0.000		14.7	
	Point 19B	44	14	19.531	13.021	17.0	31.7	0.051	28	39.062	26.041	17.0	31.7	0.099		0.000	0.000		14.7	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**12.137**						**19.058**						**0.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	32	14	17.756	11.837	11.5	26.2	0.038	26	33.288	22.192	12.0	26.7	0.071		0.000	0.000		14.7	
	Point 8A	45	16	22.321	14.881	17.0	31.7	0.058	30	41.852	27.901	17.0	31.7	0.106		0.000	0.000		14.7	
	Point 8B	64	14	21.857	14.571	25.0	39.7	0.072	29	45.275	30.183	25.0	39.7	0.144		0.000	0.000		14.7	
	Point 8C	25	13	15.177	10.118	7.5	22.2	0.028	28	32.689	21.793	7.5	22.2	0.058		0.000	0.000		14.7	
	Point 14A	25	16	18.889	12.592	8.0	22.7	0.035	28	33.417	22.278	8.5	23.2	0.062		0.000	0.000		14.7	
	Point 14B	52	14	20.286	13.524	19.5	34.2	0.057	28	40.573	27.049	19.5	34.2	0.111		0.000	0.000		14.7	
	Point 20A	25	15	17.512	11.675	7.5	22.2	0.032	28	32.689	21.793	7.5	22.2	0.058		0.000	0.000		14.7	
	Point 20B	42	16	21.966	14.644	16.0	30.7	0.056	27	37.068	24.712	16.0	30.7	0.091		0.000	0.000		14.7	
Total Oxygen Injected Per Day (lb)			**12.049**						**22.433**						**0.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 3B	35	21	26.634	17.756	11.5	26.2	0.058	27	34.569	23.046	12.0	26.7	0.074		0.000	0.000		14.7	
	Point 9A	45	22	30.203	20.136	16.0	30.7	0.077	25	34.600	23.067	16.5	31.2	0.086		0.000	0.000		14.7	
	Point 9B	64	26	39.293	26.195	22.5	37.2	0.121	26	39.293	26.195	22.5	37.2	0.117		0.000	0.000		14.7	
	Point 9C	25	17	19.847	13.231	7.5	22.2	0.036	23	26.852	17.901	7.5	22.2	0.048		0.000	0.000		14.7	
	Point 15A	25	20	23.611	15.740	8.0	22.7	0.044	25	29.513	19.676	8.0	22.7	0.054		0.000	0.000		14.7	
	Point 15B	44	20	27.233	18.155	15.5	30.2	0.068	28	38.441	25.627	16.0	30.7	0.094		0.000	0.000		14.7	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**12.901**						**15.127**						**0.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	25	20	23.611	15.740	8.0	22.7	0.044	26	30.694	20.463	8.0	22.7	0.056		0.000	0.000		14.7	
	Point 4B	39	20	26.316	17.544	13.5	28.2	0.061	28	37.168	24.778	14.0	28.7	0.085		0.000	0.000		14.7	
	Point 10A	45	22	30.448	20.299	16.5	31.2	0.078	30	41.521	27.680	16.5	31.2	0.104		0.000	0.000		14.7	
	Point 10B	64	19	29.663	19.775	25.0	39.7	0.097	28	43.988	29.325	25.5	40.2	0.141		0.000	0.000		14.7	
	Point 10C	25	17	20.069	13.379	8.0	22.7	0.038	26	30.694	20.463	8.0	22.7	0.056		0.000	0.000		14.7	
	Point 16A	25	18	21.014	14.010	7.5	22.2	0.038	27	31.521	21.014	7.5	22.2	0.056		0.000	0.000		14.7	
	Point 16B	47	20	28.338	18.892	18.0	32.7	0.076	31	43.924	29.283	18.0	32.7	0.115		0.000	0.000		14.7	
Total Oxygen Injected Per Day (lb)			**13.874**						**19.605**						**0.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	25	18	21.014	14.010	7.5	22.2	0.038	36	42.029	28.019	7.5	22.2	0.075		0.000	0.000		14.7	
	Point 5B	42	20	26.779	17.852	14.5	29.2	0.065	32	42.846	28.564	14.5	29.2	0.100		0.000	0.000		14.7	
	Point 11A	45	21	29.064	19.376	16.5	31.2	0.075	33	46.037	30.691	17.0	31.7	0.117		0.000	0.000		14.7	
	Point 11B	64	21	32.160	21.440	23.5	38.2	0.101	33	50.537	33.691	23.5	38.2	0.154		0.000	0.000		14.7	
	Point 17A	25	19	22.182	14.788	7.5	22.2	0.041	34	40.138	26.759	8.0	22.7	0.073		0.000	0.000		14.7	
	Point 17B	45	22	30.933	20.622	17.5	32.2	0.082	44	61.865	41.243	17.5	32.2	0.159		0.000	0.000		14.7	
	Point 21A	25	17	20.069	13.379	8.0	22.7	0.038	32	38.191	25.461	8.5	23.2	0.071		0.000	0.000		14.7	
Total Oxygen Injected Per Day (lb)			**14.068**						**23.964**						**0.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 6A	30	17	20.069	13.379	8.0	22.7	0.038	31	36.597	24.398	8.0	22.7	0.066		0.000	0.000		14.7	
	Point 6B	52	14	20.286	13.524	19.5	34.2	0.057	32	46.369	30.913	19.5	34.2	0.127		0.000	0.000		14.7	
	Point 12A	25	16	18.468	12.312	7.0	21.7	0.033	29	33.856	22.571	7.5	22.2	0.060		0.000	0.000		14.7	
	Point 12B	54	18	27.019	18.013	22.0	36.7	0.082	34	50.687	33.791	21.5	36.2	0.147		0.000	0.000		14.7	
	Point 18A	25	18	21.250	14.166	8.0	22.7	0.040	28	33.055	22.037	8.0	22.7	0.060		0.000	0.000		14.7	
	Point 18B	45	15	20.926	13.951	17.0	31.7	0.055	32	44.642	29.761	17.0	31.7	0.113		0.000	0.000		14.7	
	Point 21B	42	17	23.148	15.432	15.5	30.2	0.058	32	43.573	29.049	15.5	30.2	0.105		0.000	0.000		14.7	
Total Oxygen Injected Per Day (lb)			**11.583**						**21.715**											
System Total Per Day (lb)			**76.61**						**121.90**											

Appendix C. OU-2 Oxygen Injection System Operational Data
Table C-2. 9 North Clinton First Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q4 2020: 602,220 lbs

Oxygen to OU-2 - 9 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Jan-21	31	3,860
Month 2	Feb-21	28	3,122
Month 3	Mar-21	31	2,863
Total Operational Days in Q1 2021			90
Total Oxygen in Q1 2021			9,845.65
Running Total for Oxygen to 9 North Clinton Through Q1 2021 (lbs)			**612,065.31**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 3.1 injection cycles per day
Each injection point injects oxygen for 40 min per day (13 min per cycle * 3.1 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
(Keep repeating cycle for course of day)

** Due to the request of the property owner, the system will not inject during the hours of 800AM and 830AM and 1100AM and 400PM.
The oxygen weights have been adjusted to incorporate this schedule.

System Downtime
02/14/21 - 0700-1400
Belt Broke on Compressor

			1/18/2021						2/16/2021						3/24/2021					
		O_2%	80.2						82.2						81.1					
		R	10.73						10.73						10.73					
		Temp R (T)	627						639						625					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	30	29	36.428	24.285	11.0	25.7	0.074	31	38.940	25.960	11.0	25.7	0.080	30	37.684	25.122	11.0	25.7	0.078
	Point 7A	30	25	31.096	20.731	10.5	25.2	0.062	35	43.534	29.023	10.5	25.2	0.088	27	33.249	22.166	10.0	24.7	0.066
	Point 7B	64	30	47.130	31.420	25.5	40.2	0.151	31	48.701	32.467	25.5	40.2	0.156	35	54.985	36.657	25.5	40.2	0.178
	Point 13A	25	22	25.684	17.123	7.5	22.2	0.045	31	35.781	23.854	7.0	21.7	0.062	25	28.522	19.014	6.5	21.2	0.049
	Point 13B	52	30	44.102	29.401	20.5	35.2	0.123	30	44.102	29.401	20.5	35.2	0.124	30	43.788	29.192	20.0	34.7	0.122
	Point 19A	25	29	34.981	23.321	9.0	23.7	0.066	30	35.804	23.869	8.5	23.2	0.066	27	32.223	21.482	8.5	23.2	0.060
	Point 19B	44	29	40.457	26.971	17.0	31.7	0.102	32	44.642	29.761	17.0	31.7	0.113	29	40.457	26.971	17.0	31.7	0.103
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**19.960**						**22.073**						**21.037**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	32	27	34.569	23.046	12.0	26.7	0.073	27	34.569	23.046	12.0	26.7	0.074	26	33.288	22.192	12.0	26.7	0.072
	Point 8A	45	30	41.852	27.901	17.0	31.7	0.105	29	40.775	27.183	17.5	32.2	0.105	30	41.852	27.901	17.0	31.7	0.107
	Point 8B	64	30	46.836	31.224	25.0	39.7	0.148	31	48.397	32.265	25.0	39.7	0.154	27	42.153	28.102	25.0	39.7	0.135
	Point 8C	25	29	34.235	22.824	8.0	22.7	0.062	25	29.186	19.458	7.5	22.2	0.052	26	30.354	20.236	7.5	22.2	0.054
	Point 14A	25	27	32.223	21.482	8.5	23.2	0.059	27	32.223	21.482	8.5	23.2	0.060	27	31.874	21.250	8.0	22.7	0.058
	Point 14B	52	31	44.920	29.947	19.5	34.2	0.122	29	42.022	28.015	19.5	34.2	0.115	28	40.573	27.049	19.5	34.2	0.112
	Point 20A	25	31	36.597	24.398	8.0	22.7	0.066	27	31.521	21.014	7.5	22.2	0.056	26	30.354	20.236	7.5	22.2	0.054
	Point 20B	42	31	42.559	28.373	16.0	30.7	0.104	30	41.187	27.458	16.0	30.7	0.101	28	38.441	25.627	16.0	30.7	0.095
Total Oxygen Injected Per Day (lb)			**23.670**						**22.901**						**22.001**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 3B	35	30	38.768	25.845	12.5	27.2	0.084	27	34.569	23.046	12.0	26.7	0.074	36	45.658	30.439	11.5	26.2	0.096
	Point 9A	45	27	37.369	24.912	16.5	31.2	0.093	25	34.600	23.067	16.5	31.2	0.086	36	49.825	33.216	16.5	31.2	0.125
	Point 9B	64	30	45.338	30.225	22.5	37.2	0.134	30	45.641	30.427	23.0	37.7	0.138	32	48.360	32.240	22.5	37.2	0.145
	Point 9C	25	21	24.517	16.344	7.5	22.2	0.043	27	31.521	21.014	7.5	22.2	0.056	38	44.363	29.576	7.5	22.2	0.079
	Point 15A	25	27	32.223	21.482	8.5	23.2	0.059	21	24.791	16.527	8.0	22.7	0.045	34	40.138	26.759	8.0	22.7	0.073
	Point 15B	44	31	42.559	28.373	16.0	30.7	0.104	35	48.051	32.034	16.0	30.7	0.118	35	47.658	31.772	15.5	30.2	0.116
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**16.544**						**16.524**						**20.342**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	25	31	36.597	24.398	8.0	22.7	0.066	23	27.152	18.101	8.0	22.7	0.049	31	36.597	24.398	8.0	22.7	0.067
	Point 4B	39	30	39.822	26.548	14.0	28.7	0.091	22	29.203	19.469	14.0	28.7	0.067	30	39.822	26.548	14.0	28.7	0.092
	Point 10A	45	31	42.905	28.603	16.5	31.2	0.106	26	35.695	23.797	16.0	30.7	0.088	30	41.521	27.680	16.5	31.2	0.104
	Point 10B	64	31	49.003	32.669	26.0	40.7	0.159	27	42.680	28.453	26.0	40.7	0.139	28	44.261	29.507	26.0	40.7	0.145
	Point 10C	25	32	37.777	25.185	8.0	22.7	0.068	22	25.684	17.123	7.5	22.2	0.046	31	36.597	24.398	8.0	22.7	0.067
	Point 16A	25	33	38.958	25.972	8.0	22.7	0.070	25	29.186	19.458	7.5	22.2	0.052	31	36.191	24.127	7.5	22.2	0.065
	Point 16B	47	33	46.758	31.172	18.0	32.7	0.122	27	38.256	25.504	18.0	32.7	0.100	32	45.341	30.227	18.0	32.7	0.120
Total Oxygen Injected Per Day (lb)			**21.814**						**17.280**						**21.122**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	25	30	35.024	23.349	7.5	22.2	0.062	25	29.186	19.458	7.5	22.2	0.052	31	36.191	24.127	7.5	22.2	0.065
	Point 5B	42	30	40.510	27.007	15.0	29.7	0.096	29	39.160	26.107	15.0	29.7	0.093	31	41.507	27.671	14.5	29.2	0.098
	Point 11A	45	30	41.852	27.901	17.0	31.7	0.105	27	37.667	25.111	17.0	31.7	0.095	31	43.247	28.831	17.0	31.7	0.111
	Point 11B	64	31	47.784	31.856	24.0	38.7	0.147	25	35.960	23.973	19.0	33.7	0.097	31	47.784	31.856	24.0	38.7	0.149
	Point 17A	25	31	36.597	24.398	8.0	22.7	0.066	25	29.513	19.676	8.0	22.7	0.054	33	38.526	25.684	7.5	22.2	0.069
	Point 17B	45	30	42.181	28.120	17.5	32.2	0.108	27	37.963	25.308	17.5	32.2	0.098	30	42.181	28.120	17.5	32.2	0.110
	Point 21A	25	30	35.804	23.869	8.5	23.2	0.066	24	28.643	19.095	8.5	23.2	0.053	31	36.997	24.665	8.5	23.2	0.069
Total Oxygen Injected Per Day (lb)			**20.793**						**17.324**						**21.432**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 6A	30	31	36.597	24.398	8.0	22.7	0.066	25	29.837	19.891	8.5	23.2	0.055	30	35.416	23.611	8.0	22.7	0.065
	Point 6B	52	34	49.267	32.845	19.5	34.2	0.134	22	31.879	21.252	19.5	34.2	0.087	30	43.471	28.981	19.5	34.2	0.120
	Point 12A	25	31	36.191	24.127	7.5	22.2	0.064	21	24.517	16.344	7.5	22.2	0.044	30	35.024	23.349	7.5	22.2	0.063
	Point 12B	54	32	47.706	31.804	21.5	36.2	0.137	22	32.798	21.865	21.5	36.2	0.095	29	42.934	28.622	21.0	35.7	0.124
	Point 18A	25	31	36.597	24.398	8.0	22.7	0.066	21	25.063	16.708	8.5	23.2	0.046	30	35.804	23.869	8.5	23.2	0.067
	Point 18B	45	30	41.852	27.901	17.0	31.7	0.105	23	32.339	21.559	17.5	32.2	0.083	29	40.457	26.971	17.0	31.7	0.103
	Point 21B	42	32	43.932	29.288	16.0	30.7	0.107	21	28.831	19.220	16.0	30.7	0.071	30	41.187	27.458	16.0	30.7	0.102
Total Oxygen Injected Per Day (lb)			**21.749**						**15.401**						**20.584**					
System Total Per Day (lb)			**124.53**						**111.50**						**126.52**					

Appendix C. OU-2 Oxygen Injection System Operational Data
Table C-2. 9 North Clinton Second Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2021: 612,065 lbs

Oxygen to OU-2 - 9 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Apr-21	30	3,525
Month 2	May-21	29	3,610
Month 3	Jul-21	30	3,154
Total Operational Days in Q2 2021			89
Total Oxygen in Q2 2021			10,289.21
Running Total for Oxygen to 9 North Clinton Through Q2 2021 (lbs)			**622,354.52**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 3.1 injection cycles per day
Each injection point injects oxygen for 40 min per day (13 min per cycle * 3.1 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
(Keep repeating cycle for course of day)

** Due to the request of the property owner, the system will not inject during the hours of 800AM and 830AM and 1100AM and 400PM.
The oxygen weights have been adjusted to incorporate this schedule.

System Downtime
4/21/21 - Power Outage
0228 - 0500
05/19/21-05/20/21 - Compressor overheated AC off
0912 - 1500
05/23/21-05/24/21 - Compressor overheated AC off
0645 - 0800
6/25/21 - Biannual Maintenance
0700-0900

			4/9/2021						5/26/2021						7/7/2021					
		O_2%	77.5						80.6						92.7					
		R	10.73						10.73						10.73					
		Temp R (T)	628						639						627					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	30	32	40.196	26.797	11.0	25.7	0.079	27	33.584	22.389	10.5	25.2	0.066	37	46.476	30.984	11.0	25.7	0.110
	Point 7A	30	32	39.803	26.535	10.5	25.2	0.077	29	35.712	23.808	10.0	24.7	0.069	31	38.175	25.450	10.0	24.7	0.087
	Point 7B	64	35	55.326	36.884	26.0	40.7	0.173	33	51.843	34.562	25.5	40.2	0.163	50	78.550	52.367	25.5	40.2	0.290
	Point 13A	25	32	36.936	24.624	7.0	21.7	0.061	25	28.522	19.014	6.5	21.2	0.047	32	36.936	24.624	7.0	21.7	0.074
	Point 13B	52	32	46.707	31.138	20.0	34.7	0.124	30	43.788	29.192	20.0	34.7	0.119	31	45.247	30.165	20.0	34.7	0.144
	Point 19A	25	30	35.804	23.869	8.5	23.2	0.064	29	34.235	22.824	8.0	22.7	0.061	31	36.597	24.398	8.0	22.7	0.076
	Point 19B	44	33	46.037	30.691	17.0	31.7	0.112	30	41.521	27.680	16.5	31.2	0.102	27	37.667	25.111	17.0	31.7	0.110
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**22.082**						**20.085**						**28.488**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	32	32	40.970	27.314	12.0	26.7	0.084	30	38.048	25.366	11.5	26.2	0.078	21	26.887	17.925	12.0	26.7	0.066
	Point 8A	45	31	43.587	29.058	17.5	32.2	0.108	30	41.852	27.901	17.0	31.7	0.104	25	34.877	23.251	17.0	31.7	0.102
	Point 8B	64	33	51.520	34.347	25.0	39.7	0.157	30	46.836	31.224	25.0	39.7	0.146	29	45.275	30.183	25.0	39.7	0.165
	Point 8C	25	32	37.359	24.906	7.5	22.2	0.064	32	36.936	24.624	7.0	21.7	0.063	21	24.517	16.344	7.5	22.2	0.050
	Point 14A	25	32	38.191	25.461	8.5	23.2	0.068	32	37.777	25.185	8.0	22.7	0.067	25	29.837	19.891	8.5	23.2	0.064
	Point 14B	52	32	46.707	31.138	20.0	34.7	0.124	30	42.831	28.554	18.5	33.2	0.111	29	42.022	28.015	19.5	34.2	0.132
	Point 20A	25	34	40.138	26.759	8.0	22.7	0.070	32	36.936	24.624	7.0	21.7	0.063	25	29.186	19.458	7.5	22.2	0.060
	Point 20B	42	33	45.673	30.448	16.5	31.2	0.109	31	42.559	28.373	16.0	30.7	0.102	31	42.559	28.373	16.0	30.7	0.120
Total Oxygen Injected Per Day (lb)			**25.063**						**23.503**						**24.248**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 3B	35	10	13.951	9.300	17.0	31.7	0.034	32	40.970	27.314	12.0	26.7	0.086	31	39.690	26.460	12.0	26.7	0.097
	Point 9A	45	16	22.144	14.763	16.5	31.2	0.053	31	42.905	28.603	16.5	31.2	0.105	30	41.521	27.680	16.5	31.2	0.119
	Point 9B	64	25	38.034	25.356	23.0	37.7	0.110	32	48.684	32.456	23.0	37.7	0.144	31	47.163	31.442	23.0	37.7	0.163
	Point 9C	25	10	11.805	7.870	8.0	22.7	0.021	36	42.029	28.019	7.5	22.2	0.073	55	64.210	42.807	7.5	22.2	0.131
	Point 15A	25	18	21.250	14.166	8.0	22.7	0.037	31	36.597	24.398	8.0	22.7	0.065	30	35.416	23.611	8.0	22.7	0.074
	Point 15B	44	14	19.220	12.814	16.0	30.7	0.045	37	50.381	33.588	15.5	30.2	0.119	30	40.850	27.233	15.5	30.2	0.113
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**9.587**						**18.942**						**22.329**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	25	28	33.055	22.037	8.0	22.7	0.058	32	37.777	25.185	8.0	22.7	0.067	25	29.186	19.458	7.5	22.2	0.060
	Point 4B	39	29	38.495	25.663	14.0	28.7	0.085	31	41.150	27.433	14.0	28.7	0.093	30	39.822	26.548	14.0	28.7	0.105
	Point 10A	45	29	40.137	26.758	16.5	31.2	0.096	30	41.521	27.680	16.5	31.2	0.102	29	42.022	28.015	19.5	34.2	0.132
	Point 10B	64	29	45.842	30.561	26.0	40.7	0.143	29	45.559	30.373	25.5	40.2	0.144	31	49.003	32.669	26.0	40.7	0.183
	Point 10C	25	27	31.874	21.250	8.0	22.7	0.055	32	37.777	25.185	8.0	22.7	0.067	26	30.694	20.463	8.0	22.7	0.064
	Point 16A	25	28	33.055	22.037	8.0	22.7	0.058	33	38.526	25.684	7.5	22.2	0.067	25	29.513	19.676	8.0	22.7	0.062
	Point 16B	47	28	39.673	26.449	18.0	32.7	0.099	33	46.758	31.172	18.0	32.7	0.120	25	35.422	23.615	18.0	32.7	0.106
Total Oxygen Injected Per Day (lb)			**19.001**						**21.084**						**22.773**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	25	32	37.359	24.906	7.5	22.2	0.064	29	33.856	22.571	7.5	22.2	0.059	26	30.354	20.236	7.5	22.2	0.062
	Point 5B	42	31	41.507	27.671	14.5	29.2	0.093	30	40.168	26.779	14.5	29.2	0.092	30	40.168	26.779	14.5	29.2	0.108
	Point 11A	45	32	44.642	29.761	17.0	31.7	0.109	29	40.137	26.758	16.5	31.2	0.098	31	42.905	28.603	16.5	31.2	0.123
	Point 11B	64	32	49.325	32.884	24.0	38.7	0.146	31	47.474	31.650	23.5	38.2	0.142	33	50.537	33.691	23.5	38.2	0.177
	Point 17A	25	35	41.319	27.546	8.0	22.7	0.072	30	35.416	23.611	8.0	22.7	0.063	29	34.235	22.824	8.0	22.7	0.071
	Point 17B	45	33	46.399	30.933	17.5	32.2	0.115	30	42.181	28.120	17.5	32.2	0.106	31	43.924	29.283	18.0	32.7	0.132
	Point 21A	25	33	39.384	26.256	8.5	23.2	0.070	30	35.804	23.869	8.5	23.2	0.065	27	31.874	21.250	8.0	22.7	0.066
Total Oxygen Injected Per Day (lb)			**21.373**						**20.020**						**23.671**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 6A	30	30	35.416	23.611	8.0	22.7	0.062	31	36.597	24.398	8.0	22.7	0.065	25	29.513	19.676	8.0	22.7	0.062
	Point 6B	52	32	46.707	31.138	20.0	34.7	0.124	31	44.920	29.947	19.5	34.2	0.120	31	44.920	29.947	19.5	34.2	0.141
	Point 12A	25	30	35.024	23.349	7.5	22.2	0.060	31	36.191	24.127	7.5	22.2	0.063	26	30.354	20.236	7.5	22.2	0.062
	Point 12B	54	30	45.032	30.021	22.0	36.7	0.127	31	45.895	30.596	21.0	35.7	0.128	29	43.233	28.822	21.5	36.2	0.144
	Point 18A	25	31	36.597	24.398	8.0	22.7	0.064	31	36.597	24.398	8.0	22.7	0.065	25	29.513	19.676	8.0	22.7	0.062
	Point 18B	45	30	42.181	28.120	17.5	32.2	0.104	30	41.852	27.901	17.0	31.7	0.104	29	40.457	26.971	17.0	31.7	0.118
	Point 21B	42	30	41.187	27.458	16.0	30.7	0.097	32	43.932	29.288	16.0	30.7	0.106	30	41.187	27.458	16.0	30.7	0.116
Total Oxygen Injected Per Day (lb)			**20.385**						**20.853**						**22.522**					
System Total Per Day (lb)			**117.49**						**124.49**						**144.03**					

Appendix C. OU-2 Oxygen Injection System Operational Data
Table C-3. OU-2 34 North Clinton Fourth Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2020: 776,060 lbs

Oxygen to OU-2 - 34 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Oct-20	31	5,013
Month 2	Nov-20	25	4,821
Month 3	Dec-20	31	4,451
Total Operational Days in Q4 2020			87
Total Oxygen in Q4 2020			14,285.19
Running Total for Oxygen to 34 North Clinton Through Q4 2020 (lbs)			**790,345.58**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
(Keep repeating cycle for course of day)

			10/20/2020						11/17/2020						12/9/2020					
	O_2%		83.4						90						89.6					
	R		10.73						10.73						10.73					
	Temp R (T)		634						632						607					
		Depth	SCFH (M)1	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	65	32	51.202	44.375	27.0	41.7	0.227	32	51.202	44.375	27.0	41.7	0.246	21	33.601	29.121	27.0	41.7	0.167
	Point 1B	45	25	34.877	30.226	17.0	31.7	0.117	39	54.835	47.524	17.5	32.2	0.203	20	28.120	24.371	17.5	32.2	0.108
	Point 2	30	38	49.106	42.558	12.5	27.2	0.142	38	49.555	42.948	13.0	27.7	0.158	20	26.082	22.604	13.0	27.7	0.086
	Point 13A	65	32	49.643	43.024	24.5	39.2	0.207	31	48.092	41.679	24.5	39.2	0.217	25	38.784	33.612	24.5	39.2	0.181
	Point 13B	45	28	38.441	33.315	16.0	30.7	0.125	32	43.932	38.075	16.0	30.7	0.155	22	30.203	26.176	16.0	30.7	0.111
	Point 14	30	30	36.943	32.017	10.0	24.7	0.097	34	41.869	36.286	10.0	24.7	0.119	21	25.860	22.412	10.0	24.7	0.076
	Point 25A	45	30	41.852	36.272	17.0	31.7	0.141	33	46.037	39.899	17.0	31.7	0.168	20	28.120	24.371	17.5	32.2	0.108
	Point 25B	30	32	39.406	34.152	10.0	24.7	0.103	34	42.291	36.652	10.5	25.2	0.123	20	24.877	21.560	10.5	25.2	0.075
Total Oxygen Injected Per Day (lb)			**37.111**						**44.413**						**29.178**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3A	65	30	46.836	40.591	25.0	39.7	0.198	13	20.296	17.590	25.0	39.7	0.093	10	15.612	13.530	25.5	40.2	0.075
	Point 3B	45	30	40.510	35.109	15.0	29.7	0.128	35	47.262	40.960	15.0	29.7	0.161	21	28.357	24.576	15.5	30.2	0.102
	Point 4	30	33	41.047	35.574	10.5	25.2	0.110	46	57.217	49.588	10.5	25.2	0.166	22	27.365	23.716	10.5	25.2	0.082
	Point 15A	65	30	45.943	39.817	23.5	38.2	0.186	30	46.243	40.077	24.0	38.7	0.206	23	35.223	30.526	23.5	38.2	0.160
	Point 15B	45	31	42.905	37.184	16.5	31.2	0.142	32	44.289	38.383	16.5	31.2	0.159	24	33.216	28.788	11.5	26.2	0.104
	Point 16	30	29	35.348	30.635	9.5	24.2	0.091	30	36.567	31.692	9.5	24.2	0.102	20	24.378	21.128	9.5	24.2	0.070
	Point 26A	45	28	38.753	33.586	16.5	31.2	0.128	30	41.521	35.985	16.5	31.2	0.149	25	34.600	29.987	17.0	31.7	0.131
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**31.467**						**33.137**						**23.182**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 5A	65	29	46.401	40.215	27.0	41.7	0.206	30	48.288	41.850	27.5	42.2	0.234	22	35.411	30.690	27.5	42.2	0.178
	Point 5B	45	29	40.137	34.785	16.5	31.2	0.133	32	44.289	38.383	16.5	31.2	0.159	19	26.506	22.972	17.0	31.7	0.100
	Point 6	30	30	35.804	31.030	8.5	23.2	0.088	29	34.610	29.996	8.5	23.2	0.092	20	23.869	20.687	8.5	23.2	0.066
	Point 17A	65	30	46.540	40.335	24.5	39.2	0.194	32	49.643	43.024	24.5	39.2	0.224	20	31.224	27.061	25.0	39.7	0.148
	Point 17B	45	29	40.137	34.785	16.5	31.2	0.133	32	44.289	38.383	16.5	31.2	0.159	21	29.064	25.189	16.5	31.2	0.108
	Point 18	30	29	35.712	30.950	10.0	24.7	0.094	29	35.712	30.950	10.0	24.7	0.101	26	32.340	28.028	10.5	25.2	0.097
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**27.120**						**31.037**						**22.318**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 7A	65	28	44.532	38.594	26.5	41.2	0.195	31	49.303	42.729	26.5	41.2	0.234	25	39.761	34.459	26.5	41.2	0.195
	Point 7B	45	28	39.062	33.854	17.0	31.7	0.132	30	41.852	36.272	17.0	31.7	0.153	22	30.691	26.599	17.0	31.7	0.116
	Point 8	30	29	36.071	31.262	10.5	25.2	0.097	28	35.171	30.482	11.0	25.7	0.104	30	37.684	32.659	11.0	25.7	0.115
	Point 19A	65	29	45.559	39.485	25.5	40.2	0.195	28	44.261	38.359	26.0	40.7	0.207	21	33.196	28.770	26.0	40.7	0.161
	Point 19B	45	30	41.852	36.272	17.0	31.7	0.141	30	41.852	36.272	17.0	31.7	0.153	22	30.691	26.599	17.0	31.7	0.116
	Point 20	30	32	39.803	34.496	10.5	25.2	0.107	30	37.315	32.340	10.5	25.2	0.108	30	37.315	32.340	10.5	25.2	0.112
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**27.687**						**30.661**						**26.111**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 9A	65	10	15.904	13.784	26.5	41.2	0.070	30	47.713	41.351	26.5	41.2	0.226	21	33.399	28.946	26.5	41.2	0.164
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	30	23	28.323	24.547	10.0	24.7	0.074	32	39.406	34.152	10.0	24.7	0.112	20	24.629	21.345	10.0	24.7	0.073
	Point 21A	65	10	15.612	13.530	25.0	39.7	0.066	24	37.704	32.677	25.5	40.2	0.174	21	32.991	28.592	25.5	40.2	0.158
	Point 21B	45	26	35.985	31.187	16.5	31.2	0.119	34	47.057	40.782	16.5	31.2	0.169	27	37.369	32.386	16.5	31.2	0.139
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**10.531**						**21.801**						**17.079**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 11A	65	30	47.130	40.846	25.5	40.2	0.201	30	47.422	41.099	26.0	40.7	0.222	23	36.357	31.510	26.0	40.7	0.176
	Point 11B	45	28	38.753	33.586	16.5	31.2	0.128	28	39.062	33.854	17.0	31.7	0.142	25	34.877	30.226	17.0	31.7	0.132
	Point 12	30	30	36.943	32.017	10.0	24.7	0.097	30	37.315	32.340	10.5	25.2	0.108	25	31.096	26.950	10.5	25.2	0.093
	Point 23	65	31	49.003	42.469	26.0	40.7	0.212	28	44.532	38.594	26.5	41.2	0.211	21	33.399	28.946	26.5	41.2	0.164
	Point 24A	55	25	37.270	32.301	21.5	36.2	0.143	32	47.706	41.345	21.5	36.2	0.199	22	32.798	28.425	21.5	36.2	0.142
	Point 24B	30	26	32.340	28.028	10.5	25.2	0.087	30	37.684	32.659	11.0	25.7	0.111	25	31.403	27.216	11.0	25.7	0.096
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**27.794**						**31.797**						**25.712**					
System Total Per Day (lb)			**161.71**						**192.85**						**143.58**					

Appendix C. OU-2 Oxygen Injection System Operational Data
Table C-3. OU-2 34 North Clinton First Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q4 2020: 790,346 lbs

Oxygen to OU-2 - 34 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Jan-21	31	6,551
Month 2	Feb-21	28	5,722
Month 3	Mar-21	31	5,259
Total Operational Days in Q1 2021			90
Total Oxygen in Q1 2021			17,532.00
Running Total for Oxygen to 34 North Clinton Through Q1 2021 (lbs)			**807,877.58**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
(Keep repeating cycle for course of day)

System Downtime
None

			1/20/2021						2/8/2021						3/19/2021					
		O_2%	88.7						85.7						84.3					
		R	10.73						10.73						10.73					
		Temp R (T)	616						627						631					
		Depth	SCFH (M)1	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	65	31	49.601	42.988	27.0	41.7	0.241	37	59.202	51.308	27.0	41.7	0.273	35	56.002	48.535	27.0	41.7	0.252
	Point 1B	45	37	52.023	45.087	17.5	32.2	0.195	31	43.587	37.775	17.5	32.2	0.155	27	37.963	32.901	17.5	32.2	0.132
	Point 2	30	35	46.053	39.913	13.5	28.2	0.151	36	46.947	40.687	13.0	27.7	0.144	30	38.768	33.599	12.5	27.2	0.114
	Point 13A	65	37	57.400	49.746	24.5	39.2	0.262	36	55.848	48.402	24.5	39.2	0.242	29	44.701	38.741	24.0	38.7	0.187
	Point 13B	45	31	42.559	36.885	16.0	30.7	0.152	32	43.932	38.075	16.0	30.7	0.149	29	39.814	34.505	16.0	30.7	0.132
	Point 14	30	31	38.175	33.085	10.0	24.7	0.110	31	38.175	33.085	10.0	24.7	0.104	29	35.712	30.950	10.0	24.7	0.095
	Point 25A	45	31	43.247	37.481	17.0	31.7	0.159	31	43.247	37.481	17.0	31.7	0.151	29	40.457	35.063	17.0	31.7	0.138
	Point 25B	30	31	38.559	33.418	10.5	25.2	0.113	32	39.803	34.496	10.5	25.2	0.111	29	36.071	31.262	10.5	25.2	0.098
Total Oxygen Injected Per Day (lb)			**44.231**						**42.490**						**36.733**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3A	65	50	78.060	67.652	25.0	39.7	0.360	32	49.959	43.297	25.0	39.7	0.219	21	32.785	28.414	25.0	39.7	0.140
	Point 3B	45	39	53.105	46.024	15.5	30.2	0.187	41	55.364	47.982	15.0	29.7	0.182	29	39.488	34.223	15.0	29.7	0.127
	Point 4	30	30	37.315	32.340	10.5	25.2	0.109	40	49.754	43.120	10.5	25.2	0.138	26	32.340	28.028	10.5	25.2	0.088
	Point 15A	65	37	57.032	49.428	24.0	38.7	0.257	30	45.943	39.817	23.5	38.2	0.194	30	46.243	40.077	23.5	38.2	0.191
	Point 15B	45	36	49.825	43.181	16.5	31.2	0.181	30	41.521	35.985	16.5	31.2	0.143	30	41.521	35.985	16.5	31.2	0.140
	Point 16	30	35	42.662	36.974	9.5	24.2	0.120	39	47.538	41.199	9.5	24.2	0.127	29	35.348	30.635	9.5	24.2	0.092
	Point 26A	45	35	48.827	42.317	17.0	31.7	0.180	35	48.827	42.317	17.0	31.7	0.171	29	40.457	35.063	17.0	31.7	0.138
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**44.605**						**37.554**						**29.313**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 5A	65	40	62.054	53.780	24.5	39.2	0.283	39	62.402	54.082	27.0	41.7	0.287	22	35.411	30.690	27.5	42.2	0.161
	Point 5B	45	37	51.209	44.381	16.5	31.2	0.186	40	55.361	47.979	16.5	31.2	0.191	29	40.137	34.785	16.5	31.2	0.135
	Point 6	30	32	38.191	33.099	8.5	23.2	0.103	36	42.965	37.236	8.5	23.2	0.110	29	34.610	29.996	8.5	23.2	0.087
	Point 17A	65	40	62.054	53.780	24.5	39.2	0.283	39	60.502	52.435	24.5	39.2	0.262	29	44.989	38.990	24.5	39.2	0.190
	Point 17B	45	37	51.209	44.381	16.5	31.2	0.186	37	51.209	44.381	16.5	31.2	0.176	29	40.137	34.785	16.5	31.2	0.135
	Point 18	30	30	36.943	32.017	10.0	24.7	0.106	31	38.175	33.085	10.0	24.7	0.104	30	36.943	32.017	10.0	24.7	0.098
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**36.692**						**36.170**						**25.821**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 7A	65	31	49.303	42.729	26.5	41.2	0.236	36	57.255	49.621	26.5	41.2	0.260	25	39.761	34.459	26.5	41.2	0.177
	Point 7B	45	29	40.457	35.063	17.0	31.7	0.149	31	43.247	37.481	17.0	31.7	0.151	30	41.852	36.272	17.0	31.7	0.143
	Point 8	30	26	32.659	28.305	11.0	25.7	0.098	40	49.754	43.120	10.5	25.2	0.138	27	33.915	29.393	11.0	25.7	0.094
	Point 19A	65	21	33.196	28.770	26.0	40.7	0.157	31	49.003	42.469	26.0	40.7	0.220	30	46.243	40.077	24.0	38.7	0.193
	Point 19B	45	29	40.457	35.063	17.0	31.7	0.149	37	51.617	44.735	17.0	31.7	0.181	29	40.457	35.063	17.0	31.7	0.138
	Point 20	30	27	33.584	29.106	10.5	25.2	0.098	32	39.803	34.496	10.5	25.2	0.111	27	33.584	29.106	10.5	25.2	0.091
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**28.408**						**33.976**						**26.778**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 9A	65	35	56.002	48.535	27.0	41.7	0.272	36	57.602	49.921	27.0	41.7	0.265	30	47.713	41.351	26.5	41.2	0.212
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	30	30	36.943	32.017	10.0	24.7	0.106	31	38.175	33.085	10.0	24.7	0.104	30	36.943	32.017	10.0	24.7	0.098
	Point 21A	65	30	47.130	40.846	25.5	40.2	0.220	30	46.836	40.591	25.0	39.7	0.205	30	47.130	40.846	25.5	40.2	0.204
	Point 21B	45	30	41.521	35.985	16.5	31.2	0.151	31	42.905	37.184	16.5	31.2	0.148	30	41.521	35.985	16.5	31.2	0.140
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**23.960**						**23.115**						**20.954**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 11A	65	30	47.422	41.099	26.0	40.7	0.224	32	50.584	43.839	26.0	40.7	0.227	31	49.003	42.469	26.0	40.7	0.215
	Point 11B	45	30	41.852	36.272	17.0	31.7	0.154	33	45.673	39.583	16.5	31.2	0.157	29	40.457	35.063	17.0	31.7	0.138
	Point 12	30	30	37.315	32.340	10.5	25.2	0.109	35	43.534	37.730	10.5	25.2	0.121	30	37.315	32.340	10.5	25.2	0.101
	Point 23	65	31	49.303	42.729	26.5	41.2	0.236	22	34.989	30.324	26.5	41.2	0.159	30	47.422	41.099	26.0	40.7	0.208
	Point 24A	55	33	49.196	42.637	21.5	36.2	0.207	31	46.215	40.053	21.5	36.2	0.185	30	44.724	38.761	21.5	36.2	0.175
	Point 24B	30	30	37.684	32.659	11.0	25.7	0.113	35	43.534	37.730	10.5	25.2	0.121	29	36.428	31.571	11.0	25.7	0.101
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**33.413**						**31.062**						**30.050**					
System Total Per Day (lb)			**211.31**						**204.37**						**169.65**					

Appendix C. OU-2 Oxygen Injection System Operational Data
Table C-3. OU-2 34 North Clinton Second Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2020: 807,878 lbs

Oxygen to OU-2 - 34 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Apr-21	30	5,316
Month 2	May-21	31	4,092
Month 3	Jun-21	30	6,031
Total Operational Days in Q2 2021			91
Total Oxygen in Q2 2021			15,439.32
Running Total for Oxygen to 34 North Clinton Through Q2 2021 (lbs)			**823,316.90**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
(Keep repeating cycle for course of day)

System Downtime
None

			4/16/2021						5/14/2021						6/11/2021					
		O_2%	89.9						79.9						96.9					
		R	10.73						10.73						10.73					
		Temp R (T)	613						627						622					
		Depth	SCFH (M)1	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	65	29	46.679	40.455	27.5	42.2	0.233	29	46.679	40.455	27.5	42.2	0.203	40	64.384	55.800	27.5	42.2	0.342
	Point 1B	45	27	37.963	32.901	17.5	32.2	0.145	22	30.933	26.808	17.5	32.2	0.103	29	40.775	35.338	17.5	32.2	0.165
	Point 2	30	29	38.158	33.070	13.5	28.2	0.127	23	29.722	25.759	12.5	27.2	0.083	27	34.891	30.239	12.5	27.2	0.119
	Point 13A	65	31	48.397	41.944	25.0	39.7	0.228	29	44.989	38.990	24.5	39.2	0.182	27	41.886	36.301	24.5	39.2	0.207
	Point 13B	45	29	40.137	34.785	16.5	31.2	0.148	29	40.137	34.785	16.5	31.2	0.129	28	38.753	33.586	16.5	31.2	0.152
	Point 14	30	29	36.071	31.262	10.5	25.2	0.108	22	27.092	23.479	10.0	24.7	0.069	25	30.786	26.681	10.0	24.7	0.096
	Point 25A	45	29	40.775	35.338	17.5	32.2	0.156	26	36.557	31.682	17.5	32.2	0.121	31	43.587	37.775	17.5	32.2	0.177
	Point 25B	30	27	33.915	29.393	11.0	25.7	0.103	25	31.096	26.950	10.5	25.2	0.081	22	27.365	23.716	10.5	25.2	0.087
Total Oxygen Injected Per Day (lb)			**39.935**						**31.027**						**43.018**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3A	65	27	42.153	36.532	25.0	39.7	0.198	25	39.030	33.826	25.0	39.7	0.159	29	45.275	39.238	25.0	39.7	0.226
	Point 3B	45	30	40.850	35.403	15.5	30.2	0.146	21	28.357	24.576	15.0	29.7	0.087	29	39.488	34.223	15.0	29.7	0.148
	Point 4	30	22	27.365	23.716	10.5	25.2	0.082	25	31.096	26.950	10.5	25.2	0.081	30	37.315	32.340	10.0	24.7	0.116
	Point 15A	65	29	44.701	38.741	24.0	38.7	0.205	25	38.535	33.397	24.0	38.7	0.153	27	41.618	36.069	24.5	39.2	0.205
	Point 15B	45	27	37.667	32.645	17.0	31.7	0.141	21	29.064	25.189	16.5	31.2	0.093	25	34.877	30.226	16.5	31.2	0.137
	Point 16	30	25	30.786	26.681	10.0	24.7	0.090	22	26.816	23.241	9.5	24.2	0.067	27	33.249	28.816	9.5	24.2	0.101
	Point 26A	45	29	40.775	35.338	17.5	32.2	0.156	23	32.087	27.808	17.0	31.7	0.105	25	35.151	30.464	17.0	31.7	0.140
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**32.576**						**23.845**						**34.348**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 5A	65	27	43.460	37.665	27.5	42.2	0.217	19	30.583	26.505	27.5	42.2	0.133	41	65.994	57.195	27.5	42.2	0.350
	Point 5B	45	21	29.064	25.189	16.5	31.2	0.107	25	34.877	30.226	17.0	31.7	0.114	30	41.852	36.272	17.0	31.7	0.167
	Point 6	30	27	32.223	27.927	8.5	23.2	0.089	20	23.869	20.687	8.5	23.2	0.057	27	31.874	27.624	8.0	22.7	0.091
	Point 17A	65	30	46.540	40.335	24.5	39.2	0.216	21	32.578	28.234	24.5	39.2	0.131	40	62.054	53.780	24.5	39.2	0.306
	Point 17B	45	25	34.600	29.987	16.5	31.2	0.128	22	30.448	26.389	16.5	31.2	0.098	29	39.814	34.505	16.0	30.7	0.154
	Point 18	30	29	35.712	30.950	10.0	24.7	0.104	25	30.786	26.681	10.0	24.7	0.078	29	35.348	30.635	9.5	24.2	0.108
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**27.574**						**19.556**						**37.630**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 7A	65	20	32.001	27.734	27.0	41.7	0.158	21	33.399	28.946	26.5	41.2	0.142	30	48.001	41.601	27.0	41.7	0.252
	Point 7B	45	29	40.775	35.338	17.5	32.2	0.156	23	32.339	28.027	17.5	32.2	0.107	30	42.181	36.557	17.5	32.2	0.171
	Point 8	30	21	26.634	23.083	11.5	26.2	0.083	20	25.122	21.773	11.0	25.7	0.066	27	33.915	29.393	11.0	25.7	0.110
	Point 19A	65	30	47.713	41.351	26.5	41.2	0.233	20	31.615	27.400	26.0	40.7	0.132	25	39.519	34.250	26.0	40.7	0.202
	Point 19B	45	27	37.963	32.901	17.5	32.2	0.145	21	29.527	25.590	17.5	32.2	0.098	30	42.181	36.557	17.5	32.2	0.171
	Point 20	30	21	26.121	22.638	10.5	25.2	0.078	22	27.365	23.716	10.5	25.2	0.071	27	33.249	28.816	10.0	24.7	0.103
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**27.260**						**19.729**						**32.291**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 9A	65	22	35.201	30.508	27.0	41.7	0.174	19	30.401	26.347	27.0	41.7	0.130	30	48.001	41.601	27.0	41.7	0.252
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	30	25	30.786	26.681	10.0	24.7	0.090	21	25.860	22.412	10.0	24.7	0.066	29	35.712	30.950	10.0	24.7	0.111
	Point 21A	65	20	31.809	27.567	26.5	41.2	0.155	20	31.420	27.231	25.5	40.2	0.130	31	48.701	42.208	25.5	40.2	0.246
	Point 21B	45	29	40.457	35.063	17.0	31.7	0.152	21	29.064	25.189	16.5	31.2	0.093	30	41.521	35.985	16.5	31.2	0.163
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**18.275**						**13.426**						**24.711**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 11A	65	29	46.122	39.973	26.5	41.2	0.225	22	34.776	30.140	26.0	40.7	0.146	21	33.196	28.770	26.0	40.7	0.170
	Point 11B	45	29	40.457	35.063	17.0	31.7	0.152	27	37.667	32.645	17.0	31.7	0.123	29	40.457	35.063	17.0	31.7	0.161
	Point 12	30	29	36.428	31.571	11.0	25.7	0.111	27	33.584	29.106	10.5	25.2	0.087	25	31.096	26.950	10.5	25.2	0.099
	Point 23	65	30	47.713	41.351	26.5	41.2	0.233	30	47.713	41.351	26.5	41.2	0.202	25	39.761	34.459	26.5	41.2	0.206
	Point 24A	55	25	37.270	32.301	21.5	36.2	0.160	22	32.798	28.425	21.5	36.2	0.122	25	37.270	32.301	21.5	36.2	0.170
	Point 24B	30	27	34.244	29.678	11.5	26.2	0.106	25	31.403	27.216	11.0	25.7	0.083	25	31.403	27.216	11.0	25.7	0.102
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**31.579**						**24.425**						**29.038**					
System Total Per Day (lb)			**177.20**						**132.01**						**201.04**					

Appendix C. OU-2 Oxygen Injection System Operational Data
Table C-4. OU-2 33 North Clinton Fourth Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2020: 819,966 lbs

Oxygen to OU-2 - 33 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Oct-20	29	0
Month 2	Nov-20	16	0
Month 3	Dec-20	9	7,062
Total Operational Days in Q4 2020			54
Total Oxygen in Q4 2020			7,062.34
Running Total for Oxygen to 33 North Clinton Through Q4 2020 (lbs)			**827,028.05**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)
* Readings for Sep 2020 taken from Aug 2020 because inspection was not able to be performed.

System Operating Specs
Total of 8 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 3 injection cycles per day
Each injection point injects oxygen for 39 min per day (13 min per cycle * 3 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
Bank 7 starts injection at 100PM
Bank 7 finishes injection at 113PM
System is recharging from 113PM to 200PM
Bank 8 starts injection at 200PM
Bank 8 finishes injection at 213PM
System is recharging from 213PM to 300PM
(Keep repeating cycle for course of day)

			Monthly Check Not Performed - System Down						Monthly Check Not Performed - System Down											
		O_2%	-						-						12/31/2020					
			-						-						62.7					
		R	10.73						10.73						10.73					
		Temp R (T)	627						627						627					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	62													20	30.427	19.778	23.0	37.7	0.069
	Point 1B	46													20	27.458	17.848	16.0	30.7	0.051
	Point 6A	65													17	26.373	17.142	24.5	39.2	0.063
	Point 6B	46													20	27.901	18.136	17.0	31.7	0.054
	Point 11	46													19	26.506	17.229	17.0	31.7	0.051
	Point 35	41													15	19.737	12.829	13.5	28.2	0.034
	Point 40	41													16	21.239	13.805	14.0	28.7	0.037
	Point 45	31													17	20.722	13.469	9.5	24.2	0.030
Total Oxygen Injected Per Day (lb)															**12.438**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	67													14	22.266	14.473	26.5	41.2	0.056
	Point 2B	46													13	18.136	11.788	17.0	31.7	0.035
	Point 7A	65													16	24.979	16.237	25.0	39.7	0.060
	Point 7B	41													13	18.278	11.881	17.5	32.2	0.036
	Point 12	46													13	18.136	11.788	17.0	31.7	0.035
	Point 36	36													15	18.842	12.247	11.0	25.7	0.029
	Point 41	41													14	18.745	12.184	14.5	29.2	0.033
	Point 46	46													13	16.488	10.717	11.5	26.2	0.026
Total Oxygen Injected Per Day (lb)															**9.908**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	65													10	9.500	6.175	0.0	14.7	0.008
	Point 3B	46													10	9.500	6.175	0.0	14.7	0.008
	Point 8A	71													10	9.500	6.175	0.0	14.7	0.008
	Point 8B	46													10	9.500	6.175	0.0	14.7	0.008
	Point 32A	63.5													10	9.500	6.175	0.0	14.7	0.008
	Point 32B	36													10	9.500	6.175	0.0	14.7	0.008
	Point 37	41													10	9.500	6.175	0.0	14.7	0.008
	Point 42	36													10	9.500	6.175	0.0	14.7	0.008
Total Oxygen Injected Per Day (lb)															**2.166**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	69													24	38.401	24.961	27.0	41.7	0.097
	Point 4B	46													28	39.062	25.390	17.0	31.7	0.075
	Point 9A	71													24	38.631	25.110	27.5	42.2	0.099
	Point 9B	46													28	39.062	25.390	17.0	31.7	0.075
	Point 33	42													30	39.822	25.885	14.0	28.7	0.069
	Point 38	36													30	38.410	24.966	12.0	26.7	0.062
	Point 43	31													30	36.567	23.769	9.5	24.2	0.054
	Point 48	55													40	58.803	38.222	20.5	35.2	0.125
Total Oxygen Injected Per Day (lb)															**20.996**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	67													28	43.988	28.592	25.5	40.2	0.107
	Point 5B	45													29	40.137	26.089	16.5	31.2	0.076
	Point 10	56													28	41.162	26.755	20.5	35.2	0.088
	Point 34	36													31	39.690	25.799	12.0	26.7	0.064
	Point 39	26													36	41.553	27.009	7.0	21.7	0.055
	Point 44	41													30	38.048	24.731	11.5	26.2	0.060
	Point 47	55													32	46.369	30.140	19.5	34.2	0.096
	Point 49	55													31	45.247	29.411	20.0	34.7	0.095
Total Oxygen Injected Per Day (lb)															**20.516**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 16	40													33	44.935	29.208	15.5	30.2	0.082
	Point 19	40													36	48.612	31.598	15.0	29.7	0.087
	Point 22	40													31	41.861	27.209	15.0	29.7	0.075
	Point 25A	60													28	42.880	27.872	23.5	38.2	0.099
	Point 25B	29													31	38.559	25.063	10.5	25.2	0.059
	Point 28	50													35	50.716	32.965	19.5	34.2	0.105
	Point 31A	69													30	48.288	31.387	27.5	42.2	0.123
	Point 31B	40													33	44.561	28.965	15.0	29.7	0.080
Total Oxygen Injected Per Day (lb)															**22.776**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 14	39													29	39.488	25.667	15.5	30.2	0.072
	Point 17	40													36	46.947	30.516	13.0	27.7	0.079
	Point 20	40													10	13.389	8.703	14.5	29.2	0.024
	Point 23	40													33	44.185	28.720	14.5	29.2	0.078
	Point 26A	60													38	58.194	37.826	23.5	38.2	0.135
	Point 26B	29													32	41.731	27.125	13.0	27.7	0.070
	Point 29A	66													10	15.807	10.275	26.0	40.7	0.039
	Point 29B	40													40	54.014	35.109	15.0	29.7	0.097
Total Oxygen Injected Per Day (lb)															**18.998**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 13	40													30	41.187	26.771	16.0	30.7	0.077
	Point 15	40													30	40.850	26.552	15.5	30.2	0.075
	Point 50	55													33	48.166	31.308	20.0	34.7	0.101
	Point 21	40													32	42.846	27.850	14.5	29.2	0.076
	Point 24	55													33	49.196	31.978	21.5	36.2	0.108
	Point 27A	65													32	50.584	32.880	26.0	40.7	0.125
	Point 27B	33													28	36.514	23.734	13.0	27.7	0.061
	Point 30	50													32	46.369	30.140	19.5	34.2	0.096
Total Oxygen Injected Per Day (lb)															**22.986**					
System Total Per Day (lb)															**130.78**					

Appendix C. OU-2 Oxygen Injection System Operational Data
Table C-4. OU-2 33 North Clinton First Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q4 2020 827,028 lbs

Oxygen to OU-2 - 33 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Jan-21	14	2,966
Month 2	Feb-21	25	6,444
Month 3	Apr-21	27	6,759
Total Operational Days in Q1 2021			66
Total Oxygen in Q1 2021			16,168.82
Running Total for Oxygen to 33 North Clinton Through Q1 2021 (lbs)			**843,196.87**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)
* Readings for Sep 2020 taken from Aug 2020 because inspection was not able to be performed.

System Operating Specs
Total of 8 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 3 injection cycles per day
Each injection point injects oxygen for 39 min per day (13 min per cycle * 3 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
Bank 7 starts injection at 100PM
Bank 7 finishes injection at 113PM
System is recharging from 113PM to 200PM
Bank 8 starts injection at 200PM
Bank 8 finishes injection at 213PM
System is recharging from 213PM to 300PM
(Keep repeating cycle for course of day)

System Downtime

01/08-01/22/21 - 1230-1300	14 days	**0.5 hours**
EQ valve failed - needs to be replaced		
01/28-02/03/21 - 1440-1100	5 days	**20.5 hours**
Dryer froze		
03/13-03/16/21 - 1730-1100	2 days	**17.5 hours**
Check valves leaking		

			1/27/2021						2/22/2021						4/1/2021					
		O_2%	87.9						97.5						93.0					
		R	10.73						10.73						10.73					
		Temp R (T)	625						625						634					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	62	29	44.120	28.678	23.0	37.7	0.142	27	41.077	26.700	23.0	37.7	0.146	30	45.641	29.667	23.0	37.7	0.153
	Point 1B	46	30	41.187	26.771	16.0	30.7	0.108	28	38.441	24.987	16.0	30.7	0.112	31	43.247	28.111	17.0	31.7	0.122
	Point 6A	65	30	46.540	30.251	24.5	39.2	0.155	25	38.784	25.209	24.5	39.2	0.144	28	43.714	28.414	25.0	39.7	0.154
	Point 6B	46	29	40.457	26.297	17.0	31.7	0.109	30	41.852	27.204	17.0	31.7	0.125	30	41.852	27.204	17.0	31.7	0.118
	Point 11	46	32	44.289	28.788	16.5	31.2	0.118	22	30.691	19.949	17.0	31.7	0.092	26	36.272	23.577	17.0	31.7	0.102
	Point 35	41	40	52.632	34.211	13.5	28.2	0.126	20	26.316	17.105	13.5	28.2	0.070	24	31.858	20.708	14.0	28.7	0.081
	Point 40	41	40	53.096	34.513	14.0	28.7	0.130	20	26.548	17.256	14.0	28.7	0.072	25	33.185	21.570	14.0	28.7	0.085
	Point 45	31	37	44.631	29.010	9.0	23.7	0.090	24	28.950	18.818	9.0	23.7	0.065	28	34.480	22.412	10.0	24.7	0.076
Total Oxygen Injected Per Day (lb)			**31.304**						**26.427**						**28.498**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	67	40	63.617	41.351	26.5	41.2	0.223	29	46.122	29.980	26.5	41.2	0.180	33	52.802	34.321	27.0	41.7	0.196
	Point 2B	46	37	51.209	33.286	16.5	31.2	0.136	30	41.521	26.988	16.5	31.2	0.122	28	38.753	25.189	16.5	31.2	0.107
	Point 7A	65	39	60.502	39.327	24.5	39.2	0.202	27	41.886	27.226	24.5	39.2	0.155	27	41.618	27.052	24.0	38.7	0.143
	Point 7B	41	40	56.241	36.557	17.5	32.2	0.154	29	40.775	26.504	17.5	32.2	0.124	30	42.181	27.417	17.5	32.2	0.121
	Point 12	46	37	51.209	33.286	16.5	31.2	0.136	30	41.521	26.988	16.5	31.2	0.122	34	47.057	30.587	16.5	31.2	0.130
	Point 36	36	30	37.684	24.494	11.0	25.7	0.083	30	37.684	24.494	11.0	25.7	0.092	33	41.853	27.205	11.5	26.2	0.097
	Point 41	41	39	51.769	33.650	14.0	28.7	0.127	30	40.168	26.109	14.5	29.2	0.111	35	46.862	30.461	14.5	29.2	0.122
	Point 46	46	36	45.658	29.678	11.5	26.2	0.102	30	38.048	24.731	11.5	26.2	0.094	34	43.122	28.029	11.5	26.2	0.100
Total Oxygen Injected Per Day (lb)			**37.213**						**32.007**						**32.537**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	65	25	39.519	25.687	26.0	40.7	0.137	25	39.519	25.687	26.0	40.7	0.152	27	42.153	27.399	25.0	39.7	0.149
	Point 3B	46	21	28.831	18.740	16.0	30.7	0.075	27	37.369	24.290	16.5	31.2	0.110	26	35.985	23.390	16.5	31.2	0.100
	Point 8A	71	29	47.772	31.052	29.5	44.2	0.180	29	47.501	30.876	29.0	43.7	0.196	24	39.311	25.552	29.0	43.7	0.153
	Point 8B	46	24	33.216	21.591	16.5	31.2	0.088	30	41.521	26.988	16.5	31.2	0.122	30	41.852	27.204	17.0	31.7	0.118
	Point 32A	63.5	22	33.911	22.042	24.0	38.7	0.112	30	46.243	30.058	24.0	38.7	0.169	28	43.714	28.414	25.0	39.7	0.154
	Point 32B	36	27	34.244	22.258	11.5	26.2	0.076	25	31.707	20.610	11.5	26.2	0.079	22	28.167	18.309	12.0	26.7	0.067
	Point 37	41	100	131.580	85.527	13.5	28.2	0.316	27	35.527	23.092	13.5	28.2	0.095	28	37.810	24.576	15.0	29.7	0.100
	Point 42	36	25	31.707	20.610	11.5	26.2	0.071	27	34.244	22.258	11.5	26.2	0.085	30	38.410	24.966	12.0	26.7	0.091
Total Oxygen Injected Per Day (lb)			**33.785**						**32.251**						**29.791**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	69	0	0.000	0.000	27.0	41.7	0.000	40	64.002	41.601	27.0	41.7	0.252	42	68.003	44.202	28.0	42.7	0.258
	Point 4B	46	29	40.457	26.297	17.0	31.7	0.109	30	41.852	27.204	17.0	31.7	0.125	31	43.924	28.551	18.0	32.7	0.128
	Point 9A	71	35	56.336	36.619	27.5	42.2	0.203	41	65.994	42.896	27.5	42.2	0.263	40	64.384	41.850	27.5	42.2	0.241
	Point 9B	46	31	42.905	27.888	16.5	31.2	0.114	32	44.289	28.788	16.5	31.2	0.131	35	48.441	31.486	16.5	31.2	0.134
	Point 33	42	30	39.822	25.885	14.0	28.7	0.097	27	35.840	23.296	14.0	28.7	0.097	29	38.495	25.022	14.0	28.7	0.098
	Point 38	36	29	36.780	23.907	11.5	26.2	0.082	25	31.707	20.610	11.5	26.2	0.079	30	38.410	24.966	12.0	26.7	0.091
	Point 43	31	29	35.348	22.977	9.5	24.2	0.073	30	36.567	23.769	9.5	24.2	0.084	30	36.567	23.769	9.5	24.2	0.079
	Point 48	55	21	30.430	19.779	19.5	34.2	0.089	30	43.471	28.256	19.5	34.2	0.140	29	42.022	27.314	19.5	34.2	0.128
Total Oxygen Injected Per Day (lb)			**24.540**						**37.478**						**37.025**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	67	20	31.420	20.423	25.5	40.2	0.108	31	48.701	31.656	25.5	40.2	0.185	30	47.130	30.635	25.5	40.2	0.168
	Point 5B	45	26	35.985	23.390	16.5	31.2	0.096	30	41.521	26.988	16.5	31.2	0.122	30	41.521	26.988	16.5	31.2	0.115
	Point 10	56	20	29.401	19.111	20.5	35.2	0.088	29	42.632	27.711	20.5	35.2	0.142	30	43.788	28.462	20.0	34.7	0.135
	Point 34	36	25	32.602	21.191	13.0	27.7	0.077	30	39.122	25.430	13.0	27.7	0.102	31	41.150	26.747	14.0	28.7	0.105
	Point 39	26	29	33.473	21.757	7.0	21.7	0.062	30	34.627	22.508	7.0	21.7	0.071	32	37.359	24.283	7.5	22.2	0.074
	Point 44	41	27	34.244	22.258	11.5	26.2	0.076	30	38.048	24.731	11.5	26.2	0.094	29	36.780	23.907	11.5	26.2	0.086
	Point 47	55	25	36.226	23.547	19.5	34.2	0.106	30	43.471	28.256	19.5	34.2	0.140	30	43.788	28.462	20.0	34.7	0.135
	Point 49	55	21	30.651	19.923	20.0	34.7	0.091	30	43.788	28.462	20.0	34.7	0.144	30	43.788	28.462	20.0	34.7	0.135
Total Oxygen Injected Per Day (lb)			**22.492**						**32.031**						**30.489**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 16	40	21	28.595	18.587	15.5	30.2	0.074	27	36.765	23.897	15.5	30.2	0.105	26	35.109	22.821	15.0	29.7	0.093
	Point 19	40	20	27.007	17.554	15.0	29.7	0.068	29	39.160	25.454	15.0	29.7	0.110	29	39.488	25.667	15.5	30.2	0.106
	Point 22	40	21	28.117	18.276	14.5	29.2	0.070	20	26.779	17.406	14.5	29.2	0.074	21	28.117	18.276	14.5	29.2	0.073
	Point 25A	60	20	30.629	19.909	23.5	38.2	0.100	30	45.943	29.863	23.5	38.2	0.166	33	50.867	33.063	24.0	38.7	0.175
	Point 25B	29	26	32.340	21.021	10.5	25.2	0.069	27	33.584	21.829	10.5	25.2	0.080	40	50.245	32.659	11.0	25.7	0.115
	Point 28	50	22	31.645	20.569	19.0	33.7	0.091	22	31.879	20.721	19.5	34.2	0.103	21	30.651	19.923	20.0	34.7	0.095
	Point 31A	69	20	32.192	20.925	27.5	42.2	0.116	25	40.240	26.156	27.5	42.2	0.160	25	40.240	26.156	27.5	42.2	0.151
	Point 31B	40	23	31.058	20.188	15.0	29.7	0.079	29	39.160	25.454	15.0	29.7	0.110	30	40.850	26.552	15.5	30.2	0.110
Total Oxygen Injected Per Day (lb)			**21.317**						**29.055**						**29.321**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 14	39	20	27.233	17.702	15.5	30.2	0.070	30	41.187	26.771	16.0	30.7	0.119	31	42.905	27.888	16.5	31.2	0.119
	Point 17	40	21	27.386	17.801	13.0	27.7	0.065	30	39.122	25.430	13.0	27.7	0.102	28	36.842	23.948	13.5	28.2	0.092
	Point 20	40	17	22.956	14.921	15.0	29.7	0.058	30	40.510	26.332	15.0	29.7	0.114	30	40.510	26.332	15.0	29.7	0.107
	Point 23	40	23	30.795	20.017	14.5	29.2	0.077	30	40.168	26.109	14.5	29.2	0.111	28	37.490	24.368	14.5	29.2	0.097
	Point 26A	60	10	15.214	9.889	23.0	37.7	0.049	30	45.943	29.863	23.5	38.2	0.166	28	43.160	28.054	24.0	38.7	0.148
	Point 26B	29	26	33.906	22.039	13.0	27.7	0.080	30	39.122	25.430	13.0	27.7	0.102	29	39.160	25.454	15.0	29.7	0.103
	Point 29A	66	15	23.711	15.412	26.0	40.7	0.082	30	47.422	30.825	26.0	40.7	0.182	30	47.713	31.013	26.5	41.2	0.175
	Point 29B	40	20	27.007	17.554	15.0	29.7	0.068	30	46.836	30.444	25.0	39.7	0.176	31	42.211	27.437	15.5	30.2	0.113
Total Oxygen Injected Per Day (lb)			**17.563**						**34.330**						**30.566**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 13	40	25	34.322	22.309	16.0	30.7	0.090	30	41.187	26.771	16.0	30.7	0.119	29	40.137	26.089	16.5	31.2	0.111
	Point 15	40	25	34.041	22.127	15.5	30.2	0.088	30	40.850	26.552	15.5	30.2	0.117	29	39.814	25.879	16.0	30.7	0.109
	Point 50	55	21	30.430	19.779	19.5	34.2	0.089	30	43.471	28.256	19.5	34.2	0.140	30	43.471	28.256	19.5	34.2	0.132
	Point 21	40	25	33.473	21.758	14.5	29.2	0.083	30	40.168	26.109	14.5	29.2	0.111	30	40.168	26.109	14.5	29.2	0.104
	Point 24	55	23	34.051	22.133	21.0	35.7	0.104	31	45.895	29.831	21.0	35.7	0.155	32	47.375	30.794	21.0	35.7	0.150
	Point 27A	65	17	26.707	17.360	25.5	40.2	0.091	30	47.422	30.825	26.0	40.7	0.182	30	47.422	30.825	26.0	40.7	0.172
	Point 27B	33	29	37.818	24.582	13.0	27.7	0.089	30	39.122	25.430	13.0	27.7	0.102	31	40.427	26.277	13.0	27.7	0.100
	Point 30	50	25	36.226	23.547	19.5	34.2	0.106	30	43.471	28.256	19.5	34.2	0.140	28	40.868	26.564	20.0	34.7	0.126
Total Oxygen Injected Per Day (lb)			**23.652**						**34.161**						**32.113**					
System Total Per Day (lb)			**211.86**						**257.74**						**250.34**					

Appendix C. OU-2 Oxygen Injection System Operational Data
Table C-4. OU-2 33 North Clinton Second Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2021: 843,197 lbs

Oxygen to OU-2 - 33 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Apr-21	29	6,085
Month 2	May-21	31	6,358
Month 3	June-21	30	6,993
Total Operational Days in Q2 2021			90
Total Oxygen in Q2 2021			19,436.42
Running Total for Oxygen to 33 North Clinton Through Q2 2021 (lbs)			**862,633.29**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)
* Readings for Sep 2020 taken from Aug 2020 because inspection was not able to be performed.

System Operating Specs
Total of 8 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 3 injection cycles per day
Each injection point injects oxygen for 39 min per day (13 min per cycle * 3 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
Bank 7 starts injection at 100PM
Bank 7 finishes injection at 113PM
System is recharging from 113PM to 200PM
Bank 8 starts injection at 200PM
Bank 8 finishes injection at 213PM
System is recharging from 213PM to 300PM
(Keep repeating cycle for course of day)

System Downtime

4/1/21-4/2/21 - Replaced check valve on Airsep and Compressor Shutdown
1040 - 1100
06/18/21 - Biannual Maintenance
0700-0900

			4/27/2021						5/14/2021						7/5/2021					
	O_2%		96.8						95.0						99.6					
	R		10.73						10.73						10.73					
	Temp R (T)		627						628						627					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	62	22	33.691	21.899	23.5	38.2	0.120	28	42.598	27.689	23.0	37.7	0.147	27	41.077	26.700	23.0	37.7	0.149
	Point 1B	46	21	28.831	18.740	16.0	30.7	0.083	25	34.322	22.309	16.0	30.7	0.097	29	39.814	25.879	16.0	30.7	0.118
	Point 6A	65	20	31.027	20.167	24.5	39.2	0.114	23	35.908	23.340	25.0	39.7	0.131	19	29.663	19.281	25.0	39.7	0.113
	Point 6B	46	26	36.272	23.577	17.0	31.7	0.108	28	39.062	25.390	17.0	31.7	0.113	25	34.877	22.670	17.0	31.7	0.106
	Point 11	46	21	29.296	19.043	17.0	31.7	0.087	24	33.482	21.763	17.0	31.7	0.097	29	40.457	26.297	17.0	31.7	0.123
	Point 35	41	20	26.316	17.105	13.5	28.2	0.069	23	29.994	19.496	13.0	27.7	0.076	30	39.822	25.885	14.0	28.7	0.110
	Point 40	41	22	29.203	18.982	14.0	28.7	0.078	24	31.579	20.526	13.5	28.2	0.082	31	41.150	26.747	14.0	28.7	0.114
	Point 45	31	26	31.692	20.600	9.5	24.2	0.072	23	27.744	18.034	9.0	23.7	0.060	30	36.943	24.013	10.0	24.7	0.088
Total Oxygen Injected Per Day (lb)			**23.386**						**25.699**						**29.478**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	67	40	63.617	41.351	26.5	41.2	0.245	27	42.942	27.912	26.5	41.2	0.162	24	38.170	24.811	26.5	41.2	0.151
	Point 2B	46	25	34.600	22.490	16.5	31.2	0.101	25	34.600	22.490	16.5	31.2	0.099	21	29.527	19.192	17.5	32.2	0.091
	Point 7A	65	22	34.130	22.184	24.5	39.2	0.125	24	37.232	24.201	24.5	39.2	0.134	25	38.784	25.209	24.5	39.2	0.146
	Point 7B	41	21	29.527	19.192	17.5	32.2	0.089	22	30.933	20.106	17.5	32.2	0.091	20	28.120	18.278	17.5	32.2	0.087
	Point 12	46	22	30.448	19.791	16.5	31.2	0.089	26	35.985	23.390	16.5	31.2	0.103	21	29.064	18.892	16.5	31.2	0.087
	Point 36	36	30	37.684	24.494	11.0	25.7	0.091	26	32.340	21.021	10.5	25.2	0.075	21	26.379	17.146	11.0	25.7	0.065
	Point 41	41	21	28.117	18.276	14.5	29.2	0.077	26	34.513	22.433	14.0	28.7	0.091	27	35.840	23.296	14.0	28.7	0.099
	Point 46	46	27	34.244	22.258	11.5	26.2	0.084	31	39.317	25.556	11.5	26.2	0.094	30	38.048	24.731	11.5	26.2	0.096
Total Oxygen Injected Per Day (lb)			**28.808**						**27.162**						**26.357**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	65	25	39.519	25.687	26.0	40.7	0.150	24	37.938	24.660	26.0	40.7	0.141	22	34.776	22.605	26.0	40.7	0.136
	Point 3B	46	22	30.448	19.791	16.5	31.2	0.089	27	37.369	24.290	16.5	31.2	0.107	29	39.814	25.879	16.0	30.7	0.118
	Point 8A	71	31	50.486	32.816	28.5	43.2	0.204	30	49.139	31.940	29.0	43.7	0.197	25	40.949	26.617	29.0	43.7	0.172
	Point 8B	46	25	34.600	22.490	16.5	31.2	0.101	22	30.448	19.791	16.5	31.2	0.087	25	34.322	22.309	16.0	30.7	0.101
	Point 32A	63.5	22	33.911	22.042	24.0	38.7	0.123	25	38.535	25.048	24.0	38.7	0.137	27	41.618	27.052	24.0	38.7	0.155
	Point 32B	36	20	25.366	16.488	11.5	26.2	0.062	19	23.866	15.513	11.0	25.7	0.056	21	26.634	17.312	11.5	26.2	0.067
	Point 37	41	20	26.316	17.105	13.5	28.2	0.069	21	27.632	17.961	13.5	28.2	0.071	29	38.158	24.803	13.5	28.2	0.104
	Point 42	36	20	25.366	16.488	11.5	26.2	0.062	19	24.097	15.663	11.5	26.2	0.058	19	24.097	15.663	11.5	26.2	0.061
Total Oxygen Injected Per Day (lb)			**27.541**						**27.338**						**29.243**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	69	31	49.601	32.241	27.0	41.7	0.193	26	41.601	27.041	27.0	41.7	0.159	29	46.401	30.161	27.0	41.7	0.186
	Point 4B	46	27	37.963	24.676	17.5	32.2	0.114	23	32.087	20.856	17.0	31.7	0.093	32	44.642	29.017	17.0	31.7	0.136
	Point 9A	71	32	51.508	33.480	27.5	42.2	0.203	27	43.460	28.249	27.5	42.2	0.168	21	33.802	21.971	27.5	42.2	0.137
	Point 9B	46	29	40.457	26.297	17.0	31.7	0.120	23	32.087	20.856	17.0	31.7	0.093	25	34.877	22.670	17.0	31.7	0.106
	Point 33	42	26	34.513	22.433	14.0	28.7	0.093	20	26.548	17.256	14.0	28.7	0.070	29	38.495	25.022	14.0	28.7	0.106
	Point 38	36	21	26.634	17.312	11.5	26.2	0.065	19	24.097	15.663	11.5	26.2	0.058	25	31.707	20.610	11.5	26.2	0.080
	Point 43	31	24	29.254	19.015	9.5	24.2	0.066	24	28.950	18.818	9.0	23.7	0.063	25	30.473	19.807	9.5	24.2	0.071
	Point 48	55	22	32.111	20.872	20.0	34.7	0.104	24	35.030	22.770	20.0	34.7	0.111	27	39.409	25.616	20.0	34.7	0.132
Total Oxygen Injected Per Day (lb)			**30.698**						**26.093**						**30.555**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	67	21	32.991	21.444	25.5	40.2	0.124	26	40.846	26.550	25.5	40.2	0.150	27	42.417	27.571	25.5	40.2	0.164
	Point 5B	45	23	31.832	20.691	16.5	31.2	0.093	24	33.216	21.591	16.5	31.2	0.095	25	34.600	22.490	16.5	31.2	0.104
	Point 10	56	23	34.051	22.133	21.0	35.7	0.114	24	35.282	22.933	20.5	35.2	0.114	29	42.934	27.907	21.0	35.7	0.147
	Point 34	36	21	27.386	17.801	13.0	27.7	0.071	18	23.473	15.258	13.0	27.7	0.060	22	31.172	20.262	18.0	32.7	0.098
	Point 39	26	20	23.085	15.005	7.0	21.7	0.047	23	26.240	17.056	6.5	21.2	0.051	25	28.522	18.539	6.5	21.2	0.058
	Point 44	41	25	31.707	20.610	11.5	26.2	0.078	23	29.170	18.961	11.5	26.2	0.070	29	36.780	23.907	11.5	26.2	0.093
	Point 47	55	22	31.879	20.721	19.5	34.2	0.102	22	31.879	20.721	19.5	34.2	0.100	28	40.573	26.372	19.5	34.2	0.134
	Point 49	55	29	42.328	27.513	20.0	34.7	0.137	21	30.651	19.923	20.0	34.7	0.097	25	36.490	23.718	20.0	34.7	0.122
Total Oxygen Injected Per Day (lb)			**24.494**						**23.591**						**29.435**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 16	40	21	28.595	18.587	15.5	30.2	0.081	17	23.148	15.046	15.5	30.2	0.064	20	27.233	17.702	15.5	30.2	0.079
	Point 19	40	29	39.160	25.454	15.0	29.7	0.109	23	31.058	20.188	15.0	29.7	0.085	22	29.957	19.472	15.5	30.2	0.087
	Point 22	40	20	26.779	17.406	14.5	29.2	0.073	16	21.423	13.925	14.5	29.2	0.057	20	26.779	17.406	14.5	29.2	0.075
	Point 25A	60	32	49.006	31.854	23.5	38.2	0.175	21	32.160	20.904	23.5	38.2	0.113	20	30.629	19.909	23.5	38.2	0.113
	Point 25B	29	16	19.901	12.936	10.5	25.2	0.047	16	19.703	12.807	10.0	24.7	0.045	21	25.860	16.809	10.0	24.7	0.061
	Point 28	50	21	30.206	19.634	19.0	33.7	0.095	20	28.768	18.699	19.0	33.7	0.089	20	28.768	18.699	19.0	33.7	0.093
	Point 31A	69	31	49.898	32.434	27.5	42.2	0.197	27	40.804	26.522	22.5	37.2	0.139	20	30.021	19.514	22.0	36.7	0.106
	Point 31B	40	14	18.905	12.288	15.0	29.7	0.053	18	24.101	15.665	14.5	29.2	0.064	20	26.779	17.406	14.5	29.2	0.075
Total Oxygen Injected Per Day (lb)			**26.537**						**20.977**						**22.082**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 14	39	21	28.831	18.740	16.0	30.7	0.083	23	31.576	20.525	16.0	30.7	0.089	21	28.831	18.740	16.0	30.7	0.085
	Point 17	40	20	26.316	17.105	13.5	28.2	0.069	24	31.298	20.344	13.0	27.7	0.079	20	26.082	16.953	13.0	27.7	0.070
	Point 20	40	19	25.656	16.677	15.0	29.7	0.071	20	27.007	17.554	15.0	29.7	0.074	19	25.656	16.677	15.0	29.7	0.073
	Point 23	40	20	26.779	17.406	14.5	29.2	0.073	22	29.456	19.147	14.5	29.2	0.079	20	26.779	17.406	14.5	29.2	0.075
	Point 26A	60	19	29.097	18.913	23.5	38.2	0.104	24	36.513	23.733	23.0	37.7	0.126	20	30.629	19.909	23.5	38.2	0.113
	Point 26B	29	20	26.082	16.953	13.0	27.7	0.068	23	29.994	19.496	13.0	27.7	0.076	20	26.316	17.105	13.5	28.2	0.071
	Point 29A	66	0	0.000	0.000	26.5	41.2	0.000	25	39.275	25.529	25.5	40.2	0.145	26	40.591	26.384	25.0	39.7	0.155
	Point 29B	40	25	33.759	21.943	15.0	29.7	0.094	26	35.109	22.821	15.0	29.7	0.096	25	33.759	21.943	15.0	29.7	0.096
Total Oxygen Injected Per Day (lb)			**17.980**						**24.420**						**23.642**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 13	40	27	37.369	24.290	16.5	31.2	0.109	28	38.441	24.987	16.0	30.7	0.108	29	39.814	25.879	16.0	30.7	0.118
	Point 15	40	30	40.510	26.332	15.0	29.7	0.113	28	37.810	24.576	15.0	29.7	0.103	45	60.765	39.497	15.0	29.7	0.174
	Point 50	55	30	43.471	28.256	19.5	34.2	0.139	28	40.573	26.372	19.5	34.2	0.127	29	42.022	27.314	19.5	34.2	0.138
	Point 21	40	22	29.456	19.147	14.5	29.2	0.080	26	34.513	22.433	14.0	28.7	0.091	25	33.185	21.570	14.0	28.7	0.092
	Point 24	55	29	43.531	28.295	22.0	36.7	0.149	24	35.531	23.095	21.0	35.7	0.116	51	75.504	49.078	21.0	35.7	0.259
	Point 27A	65	29	45.842	29.797	26.0	40.7	0.174	33	51.843	33.698	25.5	40.2	0.191	50	78.550	51.058	25.5	40.2	0.304
	Point 27B	33	20	25.845	16.799	12.5	27.2	0.066	25	32.306	20.999	12.5	27.2	0.081	29	37.475	24.359	12.5	27.2	0.098
	Point 30	50	25	36.490	23.718	20.0	34.7	0.118	26	37.398	24.309	19.0	33.7	0.115	30	43.152	28.049	19.0	33.7	0.140
Total Oxygen Injected Per Day (lb)			**30.372**						**29.831**						**42.320**					
System Total Per Day (lb)			**209.81**						**205.11**						**233.11**					

Appendix D. OU-3 Oxygen Injection System Operational Data
Table D-1. OU-3 87 Community Fourth Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2020: 356,264 lbs

Oxygen to OU-3 - 87 Community

	Operational Days		Injected Per Month (lbs)
Month 1	Oct-20	31	3,925
Month 2	Nov-20	29	3,142
Month 3	Dec-20	18	2,661
Total Operational Days in Q4 2020			78
Total Oxygen in Q4 2020 (lbs)			9,727.43
Running Total for Oxygen to 87 Community Rd Through Q4 2020 (lbs)			**365,991.80**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)
* Oxygen percentage readings for Feb/Mar 2019 taken from January due to water being found in the line and therefore unable to take an accurate reading

System Operating Specs
Total of 7 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 3.4 injection cycles per day
Each injection point injects oxygen for 44.2 min per day (13 min per cycle * 3.4 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
Bank 7 starts injection at 100PM
Bank 7 finishes injection at 113pm
(Keep repeating cycle for course of day)

System Downtime
11/1/20-11/2/20 - Power outage, phase coverter tripped 2100-0900
11/20/20 - Biannual Maintenance 1300-1600
11/23/20 - Power outage tripped phase converter 0820-1615
11/30/20-Power outage tripped phase converter 0750-1400
12/19/20-01/07/21 - Electrical component burned out on compressor 1250-1200

			10/21/2020						11/10/2020						12/8/2020					
		O_2%	78.2						84.9						87.1					
		R	10.73						10.73						10.73					
		Temp R (T)	627						625						607					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	11	34	35.940	26.476	3.5	18.2	0.056	26	27.859	20.522	4.0	18.7	0.049	30	32.145	23.680	4.0	18.7	0.059
	Point 1B	21	29	34.235	25.220	8.0	22.7	0.067	26	30.694	22.611	8.0	22.7	0.065	39	47.044	34.656	9.0	23.7	0.110
	Point 1C	31	33	42.251	31.125	12.0	26.7	0.097	26	33.599	24.751	12.5	27.2	0.085	30	38.768	28.559	12.5	27.2	0.104
	Point 2A	11	27	28.541	21.025	3.5	18.2	0.044	24	25.716	18.944	4.0	18.7	0.045	40	42.859	31.573	4.0	18.7	0.079
	Point 2B	21	36	44.332	32.658	10.0	24.7	0.094	26	32.017	23.586	10.0	24.7	0.074	30	37.315	27.489	10.5	25.2	0.093
	Point 2C	31	35	44.390	32.701	11.5	26.2	0.100	26	32.975	24.292	11.5	26.2	0.081	29	37.129	27.352	12.0	26.7	0.098
	Point 3A	11	30	32.145	23.680	4.0	18.7	0.051	30	32.145	23.680	4.0	18.7	0.056	29	31.486	23.194	4.5	19.2	0.060
	Point 3B	21	33	38.958	28.699	8.0	22.7	0.076	28	33.055	24.350	8.0	22.7	0.070	30	35.804	26.376	8.5	23.2	0.082
Total Oxygen Injected Per Day (lb)			**18.693**						**16.768**						**21.875**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3C	31	28	36.514	26.899	13.0	27.7	0.087	24	31.298	23.056	13.0	27.7	0.081	29	38.158	28.110	13.5	28.2	0.106
	Point 4A	11	31	33.657	24.794	4.5	19.2	0.055	26	28.229	20.795	4.5	19.2	0.051	30	32.993	24.305	5.0	19.7	0.064
	Point 4B	21	36	42.029	30.961	7.5	22.2	0.080	28	32.689	24.081	7.5	22.2	0.068	22	26.256	19.342	8.5	23.2	0.060
	Point 4C	31	34	43.937	32.367	12.5	27.2	0.102	28	36.183	26.655	12.5	27.2	0.092	31	40.427	29.781	13.0	27.7	0.110
	Point 5A	11	27	28.541	21.025	3.5	18.2	0.044	26	27.484	20.246	3.5	18.2	0.047	30	32.145	23.680	4.0	18.7	0.059
	Point 5B	21	30	35.024	25.801	7.5	22.2	0.067	26	30.694	22.611	8.0	22.7	0.065	51	60.207	44.353	8.0	22.7	0.135
	Point 5C	31	29	37.475	27.607	12.5	27.2	0.087	26	33.288	24.523	12.0	26.7	0.083	29	38.158	28.110	13.5	28.2	0.106
	Point 6A	11	31	33.216	24.469	4.0	18.7	0.053	26	28.229	20.795	4.5	19.2	0.051	30	32.571	23.994	4.5	19.2	0.062
Total Oxygen Injected Per Day (lb)			**18.422**						**17.150**						**22.459**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 6B	21	33	38.090	28.059	7.0	21.7	0.071	22	25.393	18.706	7.0	21.7	0.051	32	36.936	27.209	7.0	21.7	0.079
	Point 6C	31	26	33.599	24.751	12.5	27.2	0.078	22	28.430	20.943	12.5	27.2	0.072	29	37.475	27.607	12.5	27.2	0.100
	Point 7A	11	28	30.400	22.395	4.5	19.2	0.050	22	23.886	17.596	4.5	19.2	0.043	30	32.993	24.305	5.0	19.7	0.064
	Point 7B	21	32	37.359	27.521	7.5	22.2	0.071	26	30.694	22.611	8.0	22.7	0.065	30	35.416	26.090	8.0	22.7	0.079
	Point 7C	31	29	37.818	27.860	13.0	27.7	0.090	24	31.298	23.056	13.0	27.7	0.081	32	41.731	30.742	13.0	27.7	0.114
	Point 8A	16	29	32.295	23.791	5.5	20.2	0.056	22	24.500	18.048	5.5	20.2	0.046	31	34.947	25.744	6.0	20.7	0.071
	Point 8B	26	28	34.480	25.401	10.0	24.7	0.073	20	24.629	18.143	10.0	24.7	0.057	27	33.249	24.493	10.0	24.7	0.081
	Point 8C	36	32	42.477	31.292	14.0	28.7	0.104	24	31.858	23.469	14.0	28.7	0.085	10	13.274	9.779	14.0	28.7	0.038
Total Oxygen Injected Per Day (lb)			**18.973**						**16.009**						**20.038**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 9A	16	27	29.694	21.874	5.0	19.7	0.050	22	24.195	17.823	5.0	19.7	0.044	29	31.893	23.495	5.0	19.7	0.062
	Point 9B	26	32	37.777	27.829	8.0	22.7	0.073	26	30.694	22.611	8.0	22.7	0.065	30	35.804	26.376	8.5	23.2	0.082
	Point 9C	36	30	39.122	28.820	13.0	27.7	0.093	24	31.579	23.263	13.5	28.2	0.083	30	39.474	29.079	13.5	28.2	0.110
	Point 10A	16	30	31.712	23.361	3.5	18.2	0.049	24	25.369	18.689	3.5	18.2	0.043	30	31.712	23.361	3.5	18.2	0.057
	Point 10B	26	33	40.224	29.632	9.5	24.2	0.083	26	31.692	23.346	9.5	24.2	0.072	27	33.249	24.493	10.0	24.7	0.081
	Point 10C	36	25	32.895	24.233	13.5	28.2	0.079	22	28.948	21.325	13.5	28.2	0.076	32	42.477	31.292	14.0	28.7	0.120
	Point 11A	16	33	36.292	26.735	5.0	19.7	0.061	24	26.394	19.444	5.0	19.7	0.048	27	29.993	22.095	5.4	20.1	0.059
	Point 11B	26	31	37.394	27.547	9.0	23.7	0.076	26	31.363	23.104	9.0	23.7	0.069	29	35.348	26.040	9.5	24.2	0.084
Total Oxygen Injected Per Day (lb)			**18.100**						**16.032**						**20.957**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 11C	36	13	17.256	12.712	14.0	28.7	0.042	18	23.893	17.601	14.0	28.7	0.064	30	39.822	29.336	14.0	28.7	0.113
	Point 12A	16	31	34.093	25.115	5.0	19.7	0.058	22	24.195	17.823	5.0	19.7	0.044	30	32.993	24.305	5.0	19.7	0.064
	Point 12B	26	36	42.029	30.961	7.5	22.2	0.080	22	25.684	18.921	7.5	22.2	0.053	29	33.856	24.941	7.5	22.2	0.074
	Point 12C	36	26	33.906	24.978	13.0	27.7	0.080	24	31.298	23.056	13.0	27.7	0.081	30	39.474	29.079	13.5	28.2	0.110
	Point 15A	15	35	38.492	28.355	5	19.7	0.065	24	26.727	19.689	5.5	20.2	0.050	31	34.523	25.432	5.5	20.2	0.069
	Point 15B	30	31	38.940	28.686	11	25.7	0.086	22	27.635	20.358	11	25.7	0.066	30	37.315	27.489	10.5	25.2	0.093
	Point 16A	15	34	39.244	28.910	7	21.7	0.073	20	23.349	17.201	7.5	22.2	0.048	26	30.354	22.361	7.5	22.2	0.066
	Point 16B	30	40	51.213	37.727	12	26.7	0.117	22	28.167	20.750	12	26.7	0.070	31	39.690	29.238	12	26.7	0.104
Total Oxygen Injected Per Day (lb)			**19.227**						**15.280**						**22.158**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 13A	16	29	32.295	23.791	5.5	20.2	0.056	20	22.273	16.407	5.5	20.2	0.042	30	33.820	24.914	6.0	20.7	0.069
	Point 13B	26	34	41.443	30.530	9.5	24.2	0.086	22	26.816	19.755	9.5	24.2	0.061	30	36.943	27.215	10.0	24.7	0.090
	Point 13C	36	29	38.495	28.358	14.0	28.7	0.095	20	26.548	19.557	14.0	28.7	0.071	30	40.168	29.590	14.5	29.2	0.116
	Point 14A	16	33	36.750	27.072	5.5	20.2	0.064	22	24.500	18.048	5.5	20.2	0.046	31	35.367	26.053	6.5	21.2	0.074
	Point 14B	26	32	39.406	29.029	10.0	24.7	0.083	22	27.092	19.958	10.0	24.7	0.062	29	36.071	26.573	10.5	25.2	0.090
	Point 14C	36	27	36.151	26.631	14.5	29.2	0.090	20	26.779	19.727	14.5	29.2	0.073	30	40.168	29.590	14.5	29.2	0.116
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**15.156**						**11.361**						**17.708**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 17A	15	32	35.192	25.925	5.0	19.7	0.059	26	28.594	21.064	5.0	19.7	0.053	31	34.093	25.115	5.0	19.7	0.066
	Point 17B	30	26	32.017	23.586	10.0	24.7	0.068	16	19.703	14.515	10.0	24.7	0.045	32	39.406	29.029	10.0	24.7	0.096
	Point 18A	15	30	33.409	24.611	5.5	20.2	0.058	24	26.727	19.689	5.5	20.2	0.050	29	32.295	23.791	5.5	20.2	0.064
	Point 18B	30	31	38.940	28.686	11.0	25.7	0.086	22	28.167	20.750	12.0	26.7	0.070	30	38.048	28.029	11.5	26.2	0.098
	Point 19A	15	44	47.145	34.730	4.0	18.7	0.075	46	49.943	36.791	4.5	19.2	0.089	29	31.486	23.194	4.5	19.2	0.060
	Point 19B	30	28	34.828	25.656	10.5	25.2	0.075	22	27.365	20.159	10.5	25.2	0.064	40	49.754	36.652	10.5	25.2	0.124
	Point 20A	15	32	36.074	26.575	6	20.7	0.064	22	24.801	18.270	6	20.7	0.048	31	34.947	25.744	6	20.7	0.071
	Point 20B	30	26	33.599	24.751	12.5	27.2	0.078	22	28.430	20.943	12.5	27.2	0.072	37	47.814	35.223	12.5	27.2	0.128
Total Oxygen Injected Per Day (lb)			**18.029**						**15.749**						**22.624**					
System Total Per Day (lb)			**126.60**						**108.35**						**147.82**					

Appendix D. OU-3 Oxygen Injection System Operational Data
Table D-1. OU-3 87 Community First Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q4 2020 365,992 lbs

Oxygen to OU-3 - 87 Community

	Operational Days		Injected Per Month (lbs)
Month 1	Jan-21	25	3,425
Month 2	Feb-21	28	4,105
Month 3	Mar-21	31	3,776
Total Operational Days in Q1 2021			84
Total Oxygen in Q1 2021 (lbs)			11,306.94
Running Total for Oxygen to 87 Community Rd Through Q1 2021 (lbs)			**377,298.74**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 7 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 3.4 injection cycles per day
Each injection point injects oxygen for 44.2 min per day (13 min per cycle * 3.4 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
Bank 7 starts injection at 100PM
Bank 7 finishes injection at 113pm
(Keep repeating cycle for course of day)

System Downtime
12/19/20-01/07/21 - 1251-1200 6 days 12 hours
Electrical component burned out on compressor
03/24/21 - 0300-0800 5 hours
Power outage

			1/25/2021						2/11/2021						3/22/2021					
	O_2%		84.3						87.6						79.6					
	R		10.73						10.73						10.73					
	Temp R (T)		607						614						627					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	11	29	31.073	22.890	4.0	18.7	0.055	27	28.930	21.312	4.0	18.7	0.053	27	28.930	21.312	4.0	18.7	0.047
	Point 1B	21	30	35.804	26.376	8.5	23.2	0.079	22	26.256	19.342	8.5	23.2	0.060	29	34.610	25.496	8.5	23.2	0.070
	Point 1C	31	30	38.768	28.559	12.5	27.2	0.101	31	40.060	29.511	12.5	27.2	0.107	28	36.183	26.655	12.5	27.2	0.086
	Point 2A	11	21	22.501	16.576	4.0	18.7	0.040	80	85.719	63.146	4.0	18.7	0.157	22	23.573	17.365	4.0	18.7	0.038
	Point 2B	21	30	37.315	27.489	10.5	25.2	0.090	30	37.315	27.489	10.5	25.2	0.092	30	37.315	27.489	10.5	25.2	0.082
	Point 2C	31	30	38.048	28.029	11.5	26.2	0.095	27	34.244	25.226	11.5	26.2	0.088	30	38.410	28.295	12.0	26.7	0.089
	Point 3A	11	29	31.486	23.194	4.5	19.2	0.058	29	31.486	23.194	4.5	19.2	0.059	28	30.002	22.101	4.0	18.7	0.049
	Point 3B	21	30	35.804	26.376	8.5	23.2	0.079	27	32.223	23.738	8.5	23.2	0.073	28	33.417	24.617	8.5	23.2	0.068
Total Oxygen Injected Per Day (lb)			**19.098**						**22.042**						**16.933**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3C	31	30	39.122	28.820	13.0	27.7	0.103	29	37.818	27.860	13.0	27.7	0.103	32	41.731	30.742	13.0	27.7	0.101
	Point 4A	11	33	36.292	26.735	5.0	19.7	0.068	30	32.571	23.994	4.5	19.2	0.061	33	35.829	26.394	4.5	19.2	0.060
	Point 4B	21	30	35.416	26.090	8.0	22.7	0.077	30	35.416	26.090	8.0	22.7	0.079	32	37.777	27.829	8.0	22.7	0.075
	Point 4C	31	30	39.122	28.820	13.0	27.7	0.103	29	37.818	27.860	13.0	27.7	0.103	32	41.731	30.742	13.0	27.7	0.101
	Point 5A	11	27	28.930	21.312	4.0	18.7	0.052	30	32.145	23.680	4.0	18.7	0.059	31	33.216	24.469	4.0	18.7	0.054
	Point 5B	21	29	34.235	25.220	8.0	22.7	0.074	30	35.804	26.376	8.5	23.2	0.081	31	36.597	26.959	8.0	22.7	0.072
	Point 5C	31	29	37.818	27.860	13.0	27.7	0.100	30	39.122	28.820	13.0	27.7	0.106	32	41.731	30.742	13.0	27.7	0.101
	Point 6A	11	29	31.486	23.194	4.5	19.2	0.058	29	31.486	23.194	4.5	19.2	0.059	29	31.486	23.194	4.5	19.2	0.053
Total Oxygen Injected Per Day (lb)			**20.310**						**20.826**						**19.718**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 6B	21	31	35.781	26.359	7.0	21.7	0.074	30	34.627	25.509	7.0	21.7	0.074	31	35.781	26.359	7.0	21.7	0.068
	Point 6C	31	29	37.475	27.607	12.5	27.2	0.097	30	38.768	28.559	12.5	27.2	0.103	30	38.768	28.559	12.5	27.2	0.092
	Point 7A	11	29	31.893	23.495	5.0	19.7	0.060	30	32.993	24.305	5.0	19.7	0.064	30	32.993	24.305	5.0	19.7	0.057
	Point 7B	21	30	35.416	26.090	8.0	22.7	0.077	30	35.416	26.090	8.0	22.7	0.079	28	33.055	24.350	8.0	22.7	0.065
	Point 7C	31	30	39.122	28.820	13.0	27.7	0.103	30	39.122	28.820	13.0	27.7	0.106	28	36.514	26.899	13.0	27.7	0.088
	Point 8A	16	30	33.409	24.611	5.5	20.2	0.064	30	33.409	24.611	5.5	20.2	0.066	29	32.295	23.791	5.5	20.2	0.057
	Point 8B	26	29	35.712	26.308	10.0	24.7	0.084	29	35.712	26.308	10.0	24.7	0.086	27	33.584	24.740	10.5	25.2	0.074
	Point 8C	36	31	41.150	30.314	14.0	28.7	0.113	30	39.822	29.336	14.0	28.7	0.112	32	42.477	31.292	14.0	28.7	0.106
Total Oxygen Injected Per Day (lb)			**21.509**						**22.077**						**19.414**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 9A	16	24	26.394	19.444	5.0	19.7	0.050	27	29.694	21.874	5.0	19.7	0.057	25	27.494	20.254	5.0	19.7	0.047
	Point 9B	26	31	36.997	27.255	8.5	23.2	0.082	31	36.597	26.959	8.0	22.7	0.081	30	34.627	25.509	7.0	21.7	0.065
	Point 9C	36	35	46.053	33.926	13.5	28.2	0.124	30	39.474	29.079	13.5	28.2	0.109	30	39.474	29.079	13.5	28.2	0.097
	Point 10A	16	27	28.541	21.025	3.5	18.2	0.050	30	31.712	23.361	3.5	18.2	0.057	27	28.541	21.025	3.5	18.2	0.045
	Point 10B	26	30	37.315	27.489	10.5	25.2	0.090	30	36.943	27.215	10.0	24.7	0.089	28	34.480	25.401	10.0	24.7	0.074
	Point 10C	36	30	39.822	29.336	14.0	28.7	0.109	30	39.822	29.336	14.0	28.7	0.112	30	39.822	29.336	14.0	28.7	0.100
	Point 11A	16	22	24.195	17.823	5.0	19.7	0.045	31	34.093	25.115	5.0	19.7	0.066	28	30.793	22.684	5.0	19.7	0.053
	Point 11B	26	29	35.348	26.040	9.5	24.2	0.082	30	36.188	26.658	9.0	23.7	0.084	31	37.786	27.836	9.5	24.2	0.080
Total Oxygen Injected Per Day (lb)			**20.173**						**20.971**						**17.965**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 11C	36	60	79.645	58.672	14.0	28.7	0.218	30	39.822	29.336	14.0	28.7	0.112	30	39.822	29.336	14.0	28.7	0.100
	Point 12A	16	22	24.195	17.823	5.0	19.7	0.045	27	29.694	21.874	5.0	19.7	0.057	25	27.494	20.254	5.0	19.7	0.047
	Point 12B	26	22	25.684	18.921	7.5	22.2	0.054	32	37.359	27.521	7.5	22.2	0.081	31	36.191	26.661	7.5	22.2	0.070
	Point 12C	36	21	27.386	20.174	13.0	27.7	0.072	30	39.474	29.079	13.5	28.2	0.109	27	35.527	26.171	13.5	28.2	0.087
	Point 15A	15	25	27.841	20.509	5.5	20.2	0.054	32	35.636	26.252	5.5	20.2	0.071	29	31.893	23.495	5	19.7	0.055
	Point 15B	30	25	31.707	23.358	11.5	26.2	0.079	31	39.317	28.963	11.5	26.2	0.101	27	34.244	25.226	11.5	26.2	0.078
	Point 16A	15	27	31.521	23.221	7.5	22.2	0.067	30	35.024	25.801	7.5	22.2	0.076	27	31.521	23.221	7.5	22.2	0.061
	Point 16B	30	40	51.213	37.727	12	26.7	0.130	33	42.645	31.415	12.5	27.2	0.114	30	38.410	28.295	12	26.7	0.089
Total Oxygen Injected Per Day (lb)			**23.041**						**23.062**						**18.800**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 13A	16	30	33.409	24.611	5.5	20.2	0.064	29	32.295	23.791	5.5	20.2	0.064	26	28.954	21.330	5.5	20.2	0.051
	Point 13B	26	29	35.712	26.308	10.0	24.7	0.084	30	37.315	27.489	10.5	25.2	0.092	27	33.249	24.493	10.0	24.7	0.072
	Point 13C	36	30	39.822	29.336	14.0	28.7	0.109	30	39.822	29.336	14.0	28.7	0.112	26	34.812	25.645	14.5	29.2	0.089
	Point 14A	16	31	34.947	25.744	6.0	20.7	0.069	30	33.820	24.914	6.0	20.7	0.069	27	30.438	22.423	6.0	20.7	0.055
	Point 14B	26	29	36.071	26.573	10.5	25.2	0.087	30	36.943	27.215	10.0	24.7	0.089	28	34.828	25.656	10.5	25.2	0.076
	Point 14C	36	30	40.168	29.590	14.5	29.2	0.112	29	38.829	28.604	14.5	29.2	0.111	25	33.473	24.659	14.5	29.2	0.085
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**16.797**						**17.183**						**13.688**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 17A	15	30	32.993	24.305	5.0	19.7	0.062	30	32.993	24.305	5.0	19.7	0.064	23	25.294	18.634	5.0	19.7	0.043
	Point 17B	30	27	33.249	24.493	10.0	24.7	0.078	30	36.943	27.215	10.0	24.7	0.089	25	30.786	22.679	10.0	24.7	0.066
	Point 18A	15	26	28.954	21.330	5.5	20.2	0.056	30	33.820	24.914	6.0	20.7	0.069	27	30.438	22.423	6.0	20.7	0.055
	Point 18B	30	30	38.048	28.029	11.5	26.2	0.095	30	38.048	28.029	11.5	26.2	0.098	26	32.975	24.292	11.5	26.2	0.075
	Point 19A	15	30	32.145	23.680	4.0	18.7	0.057	30	32.145	23.680	4.0	18.7	0.059	30	32.145	23.680	4.0	18.7	0.052
	Point 19B	30	29	36.071	26.573	10.5	25.2	0.087	29	36.071	26.573	10.5	25.2	0.089	24	29.852	21.991	10.5	25.2	0.066
	Point 20A	15	29	32.692	24.083	6	20.7	0.065	30	33.820	24.914	6.0	20.7	0.069	23	25.929	19.101	6.0	20.7	0.047
	Point 20B	30	27	34.891	25.703	12.5	27.2	0.090	30	38.768	28.559	12.5	27.2	0.103	24	31.014	22.847	12.5	27.2	0.074
Total Oxygen Injected Per Day (lb)			**18.883**						**20.449**						**15.302**					
System Total Per Day (lb)			**139.81**						**146.61**						**121.82**					

Appendix D. OU-3 Oxygen Injection System Operational Data
Table D-1. OU-3 87 Community Second Quarter 2021
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2021: 377,299 lbs

Oxygen to OU-3 - 87 Community

	Operational Days		Injected Per Month (lbs)
Month 1	Apr-21	30	4,235
Month 2	May-21	31	3,935
Month 3	Jun-21	30	4,400
Total Operational Days in Q2 2021			91
Total Oxygen in Q2 2021 (lbs)			12,569.69
Running Total for Oxygen to 87 Community Rd Through Q2 2021 (lbs)			**389,868.43**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)

System Operating Specs
Total of 7 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 3.4 injection cycles per day
Each injection point injects oxygen for 44.2 min per day (13 min per cycle * 3.4 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
Bank 7 starts injection at 100PM
Bank 7 finishes injection at 113pm
(Keep repeating cycle for course of day)

System Downtime
4/21/21 - Power Outage
0337 - 0400
6/15/21 - Biannual Maintenance
1400 - 1600

			4/21/2021						5/17/2021						6/16/2021					
	O_2%		85.6						81.1						82.3					
	R		10.73						10.73						10.73					
	Temp R (T)		616						631						600					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	11	29	31.073	22.890	4.0	18.7	0.055	30	32.145	23.680	4.0	18.7	0.053	29	31.073	22.890	4.0	18.7	0.055
	Point 1B	21	30	35.804	26.376	8.5	23.2	0.079	30	35.416	26.090	8.0	22.7	0.071	30	35.416	26.090	8.0	22.7	0.076
	Point 1C	31	30	38.768	28.559	12.5	27.2	0.101	30	38.768	28.559	12.5	27.2	0.093	30	38.768	28.559	12.5	27.2	0.099
	Point 2A	11	30	32.571	23.994	4.5	19.2	0.060	29	31.073	22.890	4.0	18.7	0.051	32	34.287	25.258	4.0	18.7	0.060
	Point 2B	21	31	38.559	28.405	10.5	25.2	0.093	30	36.943	27.215	10.0	24.7	0.081	30	37.315	27.489	10.5	25.2	0.089
	Point 2C	31	30	38.410	28.295	12.0	26.7	0.098	30	38.048	28.029	11.5	26.2	0.088	30	38.410	28.295	12.0	26.7	0.097
	Point 3A	11	30	32.571	23.994	4.5	19.2	0.060	30	32.571	23.994	4.5	19.2	0.055	30	32.571	23.994	4.5	19.2	0.059
	Point 3B	21	30	36.188	26.658	9.0	23.7	0.082	30	35.804	26.376	8.5	23.2	0.073	30	35.804	26.376	8.5	23.2	0.078
Total Oxygen Injected Per Day (lb)			**20.063**						**18.088**						**19.595**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3C	31	30	39.474	29.079	13.5	28.2	0.106	27	35.527	26.171	13.5	28.2	0.088	30	39.474	29.079	13.5	28.2	0.105
	Point 4A	11	30	32.993	24.305	5.0	19.7	0.062	25	27.143	19.995	4.5	19.2	0.046	30	32.571	23.994	4.5	19.2	0.059
	Point 4B	21	29	34.610	25.496	8.5	23.2	0.077	33	38.958	28.699	8.0	22.7	0.078	30	35.416	26.090	8.0	22.7	0.076
	Point 4C	31	30	39.474	29.079	13.5	28.2	0.106	31	40.427	29.781	13.0	27.7	0.099	29	38.158	28.110	13.5	28.2	0.101
	Point 5A	11	27	28.930	21.312	4.0	18.7	0.052	27	28.930	21.312	4.0	18.7	0.048	31	33.216	24.469	4.0	18.7	0.058
	Point 5B	21	30	35.416	26.090	8.0	22.7	0.077	28	33.417	24.617	8.5	23.2	0.068	29	34.235	25.220	8.0	22.7	0.073
	Point 5C	31	29	38.158	28.110	13.5	28.2	0.103	27	35.210	25.938	13.0	27.7	0.086	32	41.731	30.742	13.0	27.7	0.109
	Point 6A	11	30	32.571	23.994	4.5	19.2	0.060	30	32.571	23.994	4.5	19.2	0.055	31	33.657	24.794	4.5	19.2	0.061
Total Oxygen Injected Per Day (lb)			**20.533**						**18.196**						**20.549**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 6B	21	29	33.473	24.658	7.0	21.7	0.069	31	35.781	26.359	7.0	21.7	0.069	29	33.473	24.658	7.0	21.7	0.068
	Point 6C	31	30	38.768	28.559	12.5	27.2	0.101	30	38.768	28.559	12.5	27.2	0.093	29	37.475	27.607	12.5	27.2	0.096
	Point 7A	11	29	32.295	23.791	5.5	20.2	0.062	30	32.993	24.305	5.0	19.7	0.057	30	32.571	23.994	4.5	19.2	0.059
	Point 7B	21	30	35.416	26.090	8.0	22.7	0.077	30	35.804	26.376	8.5	23.2	0.073	27	31.874	23.481	8.0	22.7	0.068
	Point 7C	31	30	39.122	28.820	13.0	27.7	0.103	30	39.474	29.079	13.5	28.2	0.098	30	39.122	28.820	13.0	27.7	0.102
	Point 8A	16	30	33.409	24.611	5.5	20.2	0.064	31	34.523	25.432	5.5	20.2	0.062	30	33.409	24.611	5.5	20.2	0.064
	Point 8B	26	29	35.712	26.308	10.0	24.7	0.084	29	35.712	26.308	10.0	24.7	0.078	81	98.732	72.733	9.5	24.2	0.225
	Point 8C	36	31	41.150	30.314	14.0	28.7	0.113	31	41.150	30.314	14.0	28.7	0.104	29	38.495	28.358	14.0	28.7	0.104
Total Oxygen Injected Per Day (lb)			**21.550**						**20.288**						**25.154**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 9A	16	27	30.068	22.150	5.5	20.2	0.058	27	29.694	21.874	5.0	19.7	0.052	22	24.195	17.823	5.0	19.7	0.045
	Point 9B	26	31	36.997	27.255	8.5	23.2	0.082	31	36.997	27.255	8.5	23.2	0.076	30	35.416	26.090	8.0	22.7	0.076
	Point 9C	36	29	38.158	28.110	13.5	28.2	0.103	31	40.790	30.048	13.5	28.2	0.101	31	40.790	30.048	13.5	28.2	0.108
	Point 10A	16	29	30.655	22.582	3.5	18.2	0.053	30	31.712	23.361	3.5	18.2	0.051	30	31.273	23.038	3.0	17.7	0.052
	Point 10B	26	30	36.943	27.215	10.0	24.7	0.087	30	36.943	27.215	10.0	24.7	0.081	30	36.943	27.215	10.0	24.7	0.086
	Point 10C	36	30	39.822	29.336	14.0	28.7	0.109	29	38.495	28.358	14.0	28.7	0.097	29	38.495	28.358	14.0	28.7	0.104
	Point 11A	16	29	32.295	23.791	5.5	20.2	0.062	30	33.409	24.611	5.5	20.2	0.060	30	33.409	24.611	5.5	20.2	0.064
	Point 11B	26	31	37.786	27.836	9.5	24.2	0.087	31	37.786	27.836	9.5	24.2	0.081	30	36.567	26.938	9.5	24.2	0.083
Total Oxygen Injected Per Day (lb)			**20.521**						**19.137**						**19.773**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 11C	36	30	40.168	29.590	14.5	29.2	0.112	31	41.150	30.314	14.0	28.7	0.104	30	39.822	29.336	14.0	28.7	0.108
	Point 12A	16	27	29.694	21.874	5.0	19.7	0.056	29	32.295	23.791	5.5	20.2	0.058	29	31.893	23.495	5.0	19.7	0.059
	Point 12B	26	30	35.416	26.090	8.0	22.7	0.077	30	35.804	26.376	8.5	23.2	0.073	27	31.521	23.221	7.5	22.2	0.066
	Point 12C	36	25	32.895	24.233	13.5	28.2	0.088	29	38.829	28.604	14.5	29.2	0.100	51	66.508	48.994	13.0	27.7	0.173
	Point 15A	15	30	33.409	24.611	5.5	20.2	0.064	29	32.295	23.791	5.5	20.2	0.058	100	111.363	82.037	5.5	20.2	0.212
	Point 15B	30	29	36.780	27.095	11.5	26.2	0.092	29	36.780	27.095	11.5	26.2	0.085	27	33.915	24.984	11	25.7	0.082
	Point 16A	15	30	35.024	25.801	7.5	22.2	0.074	30	35.024	25.801	7.5	22.2	0.069	21	24.517	18.061	7.5	22.2	0.051
	Point 16B	30	30	38.768	28.559	12.5	27.2	0.101	30	38.410	28.295	12	26.7	0.090	25	32.008	23.579	12	26.7	0.080
Total Oxygen Injected Per Day (lb)			**21.248**						**20.378**						**26.619**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 13A	16	30	33.820	24.914	6.0	20.7	0.067	23	25.613	18.869	5.5	20.2	0.046	29	32.692	24.083	6.0	20.7	0.064
	Point 13B	26	30	37.315	27.489	10.5	25.2	0.090	21	25.860	19.050	10.0	24.7	0.056	31	37.786	27.836	9.5	24.2	0.086
	Point 13C	36	30	39.822	29.336	14.0	28.7	0.109	25	33.473	24.659	14.5	29.2	0.086	27	36.151	26.631	14.5	29.2	0.099
	Point 14A	16	30	34.226	25.213	6.5	21.2	0.069	26	28.954	21.330	5.5	20.2	0.052	30	34.627	25.509	7.0	21.7	0.071
	Point 14B	26	30	37.315	27.489	10.5	25.2	0.090	30	37.315	27.489	10.5	25.2	0.083	27	33.249	24.493	10.0	24.7	0.077
	Point 14C	36	30	40.168	29.590	14.5	29.2	0.112	25	33.473	24.659	14.5	29.2	0.086	31	41.507	30.577	14.5	29.2	0.114
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**17.164**						**13.091**						**16.368**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 17A	15	30	33.409	24.611	5.5	20.2	0.064	27	29.694	21.874	5.0	19.7	0.052	25	27.841	20.509	5.5	20.2	0.053
	Point 17B	30	30	37.315	27.489	10.5	25.2	0.090	28	34.828	25.656	10.5	25.2	0.077	27	33.249	24.493	10.0	24.7	0.077
	Point 18A	15	29	32.692	24.083	6.0	20.7	0.065	29	32.692	24.083	6.0	20.7	0.060	30	33.820	24.914	6.0	20.7	0.066
	Point 18B	30	30	38.048	28.029	11.5	26.2	0.095	29	36.780	27.095	11.5	26.2	0.085	29	36.780	27.095	11.5	26.2	0.091
	Point 19A	15	26	28.229	20.795	4.5	19.2	0.052	25	26.787	19.733	4.0	18.7	0.044	30	32.571	23.994	4.5	19.2	0.059
	Point 19B	30	30	37.315	27.489	10.5	25.2	0.090	29	36.071	26.573	10.5	25.2	0.080	27	33.584	24.740	10.5	25.2	0.080
	Point 20A	15	30	34.226	25.213	6.5	21.2	0.069	30	34.226	25.213	6.5	21.2	0.064	26	29.311	21.592	6.0	20.7	0.057
	Point 20B	30	30	39.122	28.820	13	27.7	0.103	29	37.818	27.860	13	27.7	0.092	29	37.818	27.860	13	27.7	0.099
Total Oxygen Injected Per Day (lb)			**20.089**						**17.750**						**18.603**					
System Total Per Day (lb)			**141.17**						**126.93**						**146.66**					

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2008												2009												2010					
		Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Jul-06	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10
pH (SU)																															
OU2MW-57S	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I2	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	OU-1 Union Boulevard	6.23	--	--	--	--	6.35	--	--	6.14	--	--	6.39	--	--	5.86	--	--	6.41	--	--	6.57	--	6.56	--	6.37	6.26	5.49	6.31	5.78	6.42
OZMW-16I	OU-1 Union Boulevard	--	--	--	--	--	5.54	--	--	5.86	--	--	6.14	--	--	5.74	--	--	5.44	--	--	6.08	--	6.46	--	6.31	6.46	6.90	6.93	6.58	6.10
OZMW-16I2	OU-1 Union Boulevard	5.25	--	--	--	--	5.08	--	--	5.37	--	--	5.46	--	--	5.06	--	--	5.86	--	--	5.68	--	5.69	--	5.66	5.34	5.16	5.51	5.94	6.27
OZMW-16D	OU-1 Union Boulevard	--	5.65	--	--	--	5.04	--	--	4.99	--	--	5.04	--	--	4.62	--	--	4.98	--	--	5.12	--	5.21	--	5.10	5.22	5.22	5.36	4.71	4.30
OZMW-17S	OU-1 Union Boulevard	6.42	--	6.60	6.59	6.54	6.61	--	6.58	6.48	6.99	6.44	6.92	6.62	6.49	6.38	6.65	6.62	7.26	6.61	6.62	6.40	6.93	6.16	6.53	6.60	6.56	5.52	6.56	6.54	6.42
OZMW-17I	OU-1 Union Boulevard	6.69	--	6.97	6.71	6.67	6.75	--	6.73	6.68	6.78	6.10	6.98	6.82	6.57	6.19	6.31	6.33	6.70	6.36	6.48	6.14	6.83	6.33	5.76	6.59	6.77	5.59	6.68	7.00	6.65
OZMW-17I2	OU-1 Union Boulevard	6.09	--	6.65	6.06	6.03	5.96	--	5.92	0.19	6.00	5.77	6.34	5.92	5.80	5.62	5.81	5.90	5.92	5.93	6.10	5.66	6.41	5.04	5.22	5.80	6.26	5.41	6.61	6.60	6.33
OZMW-17D	OU-1 Union Boulevard	--	5.31	5.73	5.44	5.36	5.28	--	5.35	5.28	6.07	6.00	5.77	5.40	5.33	5.12	5.44	5.19	5.78	5.33	5.50	5.03	5.56	5.98	6.06	4.98	5.22	5.06	4.98	5.24	5.13
OZMW-18S	OU-1 Union Boulevard	6.34	--	--	--	--	6.25	--	--	5.78	--	--	6.38	--	--	5.86	--	--	5.80	--	--	6.23	--	6.18	--	5.90	5.92	4.88	6.49	6.18	6.62
OZMW-18I	OU-1 Union Boulevard	6.55	--	--	--	--	6.37	--	--	5.84	--	--	6.50	--	--	6.05	--	--	6.66	--	--	6.73	--	7.20	--	6.77	6.36	5.60	6.95	6.42	6.14
OZMW-18I2	OU-1 Union Boulevard	6.35	--	--	--	--	6.46	--	--	7.76	--	--	6.43	--	--	6.07	--	--	6.64	--	--	6.89	--	6.54	--	6.31	5.26	4.88	6.27	5.64	6.00
OZMW-18D	OU-1 Union Boulevard	--	5.83	--	--	--	6.14	--	--	5.71	--	--	5.91	--	--	5.27	--	--	6.52	--	--	5.83	--	6.55	--	5.50	5.64	4.78	5.88	5.24	4.92
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity (mS/cm)																															
OU2MW-57S	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I2	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	OU-1 Union Boulevard	0.440	--	--	--	--	0.822	--	--	0.968	--	--	0.551	--	--	0.710	--	--	0.450	--	--	0.569	--	0.487	--	0.809	0.822	0.775	0.459	0.410	0.490
OZMW-16I	OU-1 Union Boulevard	--	--	--	--	--	0.725	--	--	0.938	--	--	0.630	--	--	0.780	--	--	0.504	--	--	0.479	--	0.618	--	0.576	0.638	0.870	0.626	0.570	0.659
OZMW-16I2	OU-1 Union Boulevard	0.296	--	--	--	--	0.509	--	--	0.812	--	--	0.999	--	--	0.750	--	--	0.603	--	--	0.579	--	0.541	--	0.620	0.408	0.506	0.383	0.412	0.618
OZMW-16D	OU-1 Union Boulevard	--	1.890	--	--	--	2.220	--	--	2.010	--	--	6.690	--	--	2.100	--	--	1.130	--	--	0.386	--	0.445	--	2.840	0.381	0.458	0.415	0.298	0.228
OZMW-17S	OU-1 Union Boulevard	0.587	--	0.742	0.720	0.693	0.999	--	0.532	0.560	0.871	1.000	1.130	1.210	1.100	1.320	0.098	0.092	0.809	0.727	0.625	0.750	0.669	0.662	0.760	0.999	0.766	0.999	0.715	0.686	0.492
OZMW-17I	OU-1 Union Boulevard	0.689	--	0.504	0.618	0.628	0.999	--	0.493	0.370	0.505	0.568	0.785	0.672	0.717	0.607	0.690	0.688	0.489	0.481	0.487	0.656	0.566	0.565	0.499	0.541	0.589	0.815	0.755	0.619	0.496
OZMW-17I2	OU-1 Union Boulevard	0.237	--	0.147	0.180	0.174	0.345	--	0.184	0.192	0.319	0.357	0.900	0.366	0.350	0.392	0.857	0.558	0.360	0.346	0.373	0.502	0.405	0.358	0.392	0.497	0.435	0.678	0.491	0.479	0.386
OZMW-17D	OU-1 Union Boulevard	--	0.994	1.210	0.878	0.826	1.460	--	0.810	0.588	0.876	0.858	1.270	0.720	0.805	0.849	0.959	0.940	1.160	0.744	0.784	1.570	1.100	1.090	1.040	1.070	0.999	1.140	1.140	0.910	0.692
OZMW-18S	OU-1 Union Boulevard	0.405	--	--	--	--	0.826	--	--	0.678	--	--	0.675	--	--	1.300	--	--	0.567	--	--	0.403	--	0.466	--	0.453	1.870	0.676	0.479	0.468	0.572
OZMW-18I	OU-1 Union Boulevard	0.496	--	--	--	--	0.595	--	--	0.531	--	--	0.496	--	--	0.626	--	--	0.580	--	--	0.639	--	0.629	--	0.557	0.872	0.856	0.580	0.561	0.689
OZMW-18I2	OU-1 Union Boulevard	0.482	--	--	--	--	0.790	--	--	0.949	--	--	0.879	--	--	0.686	--	--	0.571	--	--	0.518	--	0.509	--	0.502	0.425	0.502	0.335	0.291	0.445
OZMW-18D	OU-1 Union Boulevard	--	1.760	--	--	--	1.580	--	--	1.790	--	--	4.100	--	--	2.020	--	--	1.590	--	--	1.610	--	1.480	--	1.260	1.500	1.330	1.220	0.970	1.050
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (mg/L)																															
OU2MW-57S	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I2	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	OU-1 Union Boulevard	0.0	--	--	--	--	20.0	--	--	20.0	--	--	20.0	--	--	32.0	--	--	16.9	--	--	20.0	--	25.0	--	20.0	16.4	26.0	32.0	26.0	29.0
OZMW-16I	OU-1 Union Boulevard	--	--	--	--	--	20.0	--	--	20.0	--	--	20.0	--	--	44.0	--	--	19.6	--	--	20.0	--	32.0	--	32.0	40.0	36.0	30.0	28.0	30.0
OZMW-16I2	OU-1 Union Boulevard	0.0	--	--	--	--	1.4	--	--	0.0	--	--	0.0	--	--	1.9	--	--	0.0	--	--	0.0	--	0.0	--	2.7	3.1	0.0	0.0	0.0	0.0
OZMW-16D	OU-1 Union Boulevard	--	0.0	--	--	--	0.0	--	--	0.0	--	--	0.0	--	--	0.0	--	--	0.0	--	--	0.0	--	0.0	--	0.0	0.0	1.7	0.0	0.0	0.0
OZMW-17S	OU-1 Union Boulevard	0.0	--	14.0	22.0	21.0	20.0	--	19.0	8.0	3.0	6.0	3.0	1.0	18.0	20.0	17.0	15.0	3.0	12.0	13.0	15.0	12.4	15.0	20.0	17.2	17.0	18.0	19.0	19.0	20.0
OZMW-17I	OU-1 Union Boulevard	0.0	--	6.0	35.0	21.0	20.0	--	19.0	24.0	25.0	28.0	1.7	0.0	1.8	26.0	14.0	13.0	9.4	16.0	15.0	20.0	15.0	15.0	18.0	28.0	28.0	28.0	32.0	24.0	28.0
OZMW-17I2	OU-1 Union Boulevard	0.0	--	0.0	5.0	5.0	7.4	--	7.0	5.0	3.0	3.0	2.0	0.0	0.0	2.2	0.0	0.0	2.0	2.0	6.0	4.0	1.0	2.0	7.0	7.5	8.0	13.0	12.0	15.0	5.0
OZMW-17D	OU-1 Union Boulevard	--	0.0	0.0	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
OZMW-18S	OU-1 Union Boulevard	0.0	--	--	--	--	17.4	--	--	20.0	--	--	9.4	--	--	31.0	--	--	19.8	--	--	16.8	--	16.0	--	28.0	28.0	28.0	32.0	18.5	28.0
OZMW-18I	OU-1 Union Boulevard	0.0	--	--	--	--	0.0	--	--	4.6	--	--	0.8	--	--	1.5	--	--	0.0	--	--	7.3	--	3.6	--	14.0	20.0	20.0	21.0	23.0	26.0
OZMW-18I2	OU-1 Union Boulevard	0.0	--	--	--	--	0.0	--	--	8.8	--	--	0.0	--	--	0.0	--	--	0.0	--	--	0.0	--	0.0	--	3.0	9.0	8.2	10.0	1.7	8.3
OZMW-18D	OU-1 Union Boulevard	--	0.0	--	--	--	0.0	--	--	0.0	--	--	0.0	--	--	0.0	--	--	0.0	--	--	0.0	--	0.0	--	0.0	0.0	0.0	0.0	0.0	0.0
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature (degrees Celcius)																															
OU2MW-57S	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I2	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	OU-1 Union Boulevard	11.0	--	--	--	--	18.4	--	--	18.9	--	--	14.3	--	--	10.6	--	--	15.0	--	--	18.4	--	15.1	--	11.3	10.5	10.7	12.7	12.4	15.0
OZMW-16I	OU-1 Union Boulevard	--	--	--	--	--	15.7	--	--	16.2	--	--	14.2	--	--	12.5	--	--	14.3	--	--	15.6	--	14.5	--	12.4	12.4	12.7	14.2	13.9	14.4
OZMW-16I2	OU-1 Union Boulevard	12.7	--	--	--	--	15.5	--	--	16.1	--	--	13.3	--	--	12.8	--	--	14.8	--	--	16.6	--	14.0	--	10.2	11.8	12.8	14.3	12.8	14.5
OZMW-16D	OU-1 Union Boulevard	--	12.6	--	--	--	13.6	--	--	15.6	--	--	13.3	--	--	12.4	--	--	14.3	--	--	15.3	--	13.8	--	11.7	11.1	12.9	14.3	13.7	14.8
OZMW-17S	OU-1 Union Boulevard	10.9	--	12.6	14.6	18.1	19.0	--	19.8	19.4	17.9	15.6	12.6	10.8	11.2	10.9	12.2	14.1	16.7	18.7	18.9	18.7	16.4	15.1	13.7	10.9	10.4	10.4	13.0	4.7	3.9
OZMW-17I	OU-1 Union Boulevard	13.0	--	13.7	15.7	16.3	17.5	--	17.2	16.4	15.9	14.7	13.9	12.5	13.7	13.0	13.0	13.6	15.1	16.7	17.0	16.4	14.9	14.7	12.6	12.7	11.8	11.9	13.7	14.8	3.5
OZMW-17I2	OU-1 Union Boulevard	12.9	--	13.7	15.5	17.3	15.4	--	17.3	15.3	15.2	14.5	13.1	12.4	13.0	12.3	13.5	13.8	15.5	18.1	17.2	17.0	14.5	14.3	12.8	12.1	11.0	12.5	14.4	5.2	4.0
OZMW-17D	OU-1 Union Boulevard	--	11.9	14.1	15.7	17.0	15.6	--	16.9	15.7	14.2	13.3	12.1	12.3	13.1	12.5	13.4	13.8	15.0	18.5	16.8	15.4	14.1	13.7	10.1	11.9	10.9	12.3	14.1	17.0	3.5
OZMW-18S	OU-1 Union Boulevard	9.4	--	--	--	--	18.0	--	--	20.6	--	--	13.9	--	--	10.6	--	--	14.5	--	--	18.4	--	15.8	--	9.6	9.5	10.3	11.9	11.9	14.3
OZMW-18I	OU-1 Union Boulevard	11.9	--	--	--	--	16.6	--	--	17.6	--	--	14.8	--	--	12.5	--	--	13.9	--	--	15.5	--	15.1	--	12.6	12.5	12.6	13.3	13.2	14.3
OZMW-18I2	OU-1 Union Boulevard	12.5	--	--	--	--	15.7	--	--	23.5	--	--	14.1	--	--	12.9	--	--	14.5	--	--	16.1	--	13.9	--	12.5	12.2	12.9	14.1	12.8	14.7
OZMW-18D	OU-1 Union Boulevard	--	11.7	--	--	--	14.7	--	--	17.1	--	--	13.9	--	--	13.0	--	--	14.2	--	--	16.1	--	13.7	--	12.2	12.1	12.6	14.1	13.9	14.8
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2008												2009												2010					
		Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Jul-06	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10
pH (SU)																															
Oxidation Reduction Potential (mV)																															
OU2MW-57S	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I2	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	OU-1 Union Boulevard	-108	--	--	--	--	138	--	--	76	--	--	139	--	--	109	--	--	123	--	--	74	--	244	--	161	152	131	108	191	171
OZMW-16I	OU-1 Union Boulevard	--	--	--	--	--	224	--	--	113	--	--	180	--	--	121	--	--	207	--	--	94	--	202	--	351	192	16	90	193	220
OZMW-16I2	OU-1 Union Boulevard	86	--	--	--	--	189	--	--	109	--	--	84	--	--	31	--	--	86	--	--	20	--	59	--	60	121	61	32	57	-33
OZMW-16D	OU-1 Union Boulevard	--	-48	--	--	--	73	--	--	43	--	--	83	--	--	67	--	--	127	--	--	54	--	92	--	97	106	115	-37	85	97
OZMW-17S	OU-1 Union Boulevard	-137	--	144	58	76	42	--	49	-34	12	-28	-61	-23	46	70	78	62	-11	73	51	60	29	77	70	63	77	68	65	50	46
OZMW-17I	OU-1 Union Boulevard	-144	--	35	89	77	58	--	62	16	104	47	-23	-85	-17	87	57	52	30	213	60	111	41	70	297	172	139	115	120	110	187
OZMW-17I2	OU-1 Union Boulevard	110	--	106	127	122	179	--	144	114	149	51	107	-10	53	94	157	104	120	189	-16	138	-73	140	157	190	144	137	50	146	114
OZMW-17D	OU-1 Union Boulevard	--	13	36	17	-34	26	--	21	35	-38	-76	69	7	24	79	55	61	80	103	-102	98	-42	70	136	103	89	52	78	90	39
OZMW-18S	OU-1 Union Boulevard	-112	--	--	--	--	-40	--	--	0	--	--	31	--	--	64	--	--	168	--	--	58	--	121	--	172	150	104	107	155	107
OZMW-18I	OU-1 Union Boulevard	-168	--	--	--	--	-61	--	--	-46	--	--	-66	--	--	-75	--	--	-42	--	--	-27	--	0	--	54	93	139	79	100	102
OZMW-18I2	OU-1 Union Boulevard	-54	--	--	--	--	-52	--	--	-25	--	--	-92	--	--	-132	--	--	-77	--	--	-152	--	-121	--	-21	206	75	69	180	139
OZMW-18D	OU-1 Union Boulevard	--	-93	--	--	--	-109	--	--	-114	--	--	-64	--	--	-46	--	--	-32	--	--	-49	--	10	--	17	-11	-9	-48	-17	-31
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2010						2011											2012										
		Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
pH (SU)																														
OU2MW-57S	66 North Clinton	--	--	6.29	6.16	--	--	--	6.11	--	--	5.75	--	--	5.60	--	5.75	--	--	--	--	6.30	--	--	6.46	--	5.91	--	--	6.09	--
OU2MW-57I	66 North Clinton	--	--	5.72	5.78	--	--	--	5.93	--	--	5.35	--	--	5.92	--	5.62	--	--	--	--	6.09	--	--	6.04	--	5.69	--	--	5.92	--
OU2MW-57I2	66 North Clinton	--	--	5.83	5.73	--	--	--	6.02	--	--	5.50	--	--	5.70	--	5.40	--	--	--	--	5.43	--	--	6.02	--	5.79	--	--	6	--
OZMW-16S	OU-1 Union Boulevard	--	7.01	--	6.41	--	--	7.12	--	--	--	6.03	--	--	6.59	--	--	--	6.00	--	--	6.80	5.77	--	--	--	7.03	--	--	--	6.75
OZMW-16I	OU-1 Union Boulevard	--	5.65	--	6.88	--	--	6.64	--	--	--	6.84	--	--	6.75	--	--	--	6.15	--	--	6.32	5.76	--	--	--	6.84	--	--	--	6.81
OZMW-16I2	OU-1 Union Boulevard	--	5.43	--	6.69	--	--	7.20	--	--	--	5.70	--	--	7.30	--	--	--	5.34	--	--	6.24	6.45	--	--	--	5.7	--	--	--	6.52
OZMW-16D	OU-1 Union Boulevard	--	5.39	--	5.05	--	--	4.69	--	--	--	5.95	--	--	5.15	--	--	--	4.55	--	--	4.37	5.39	--	--	--	4.77	--	--	--	5
OZMW-17S	OU-1 Union Boulevard	6.61	6.98	6.34	7.06	7.11	6.13	6.57	7.29	ER	6.26	12.22	6.74	6.65	7.14	6.25	6.17	6.11	6.25	6.74	7.00	6.76	6.67	6.86	6.55	6.34	6.76	6.71	6.51	6.52	6.62
OZMW-17I	OU-1 Union Boulevard	6.95	6.76	6.58	7.05	5.87	6.51	6.73	7.86	6.46	5.97	7.09	6.61	6.97	7.57	6.44	6.52	6.18	6.50	7.08	7.30	7.17	6.84	7.24	6.39	7.27	7.31	7.02	6.85	6.79	6.81
OZMW-17I2	OU-1 Union Boulevard	6.05	6.89	5.98	5.88	6.69	5.55	6.31	6.77	ER	5.91	7.18	6.10	6.35	6.51	5.45	5.31	4.97	5.44	5.72	5.96	5.75	5.71	5.83	5.87	5.73	5.71	5.97	5.51	5.68	5.56
OZMW-17D	OU-1 Union Boulevard	5.14	5.79	5.02	5.80	4.36	6.08	5.23	5.53	5.04	5.07	11.06	5.55	5.45	5.25	6.21	4.64	4.69	4.80	5.62	5.50	5.29	5.60	5.34	5.97	5.28	5.2	5.48	--	5.29	5.47
OZMW-18S	OU-1 Union Boulevard	--	5.52	--	6.77	--	--	7.18	--	--	--	6.47	--	--	6.86	--	--	--	6.44	--	--	6.90	5.93	--	--	--	7.1	--	--	--	6.68
OZMW-18I	OU-1 Union Boulevard	--	7.69	--	6.64	--	--	6.79	--	--	--	6.17	--	--	6.94	--	--	--	6.63	--	--	6.39	6.86	--	--	--	6.97	--	--	--	6.95
OZMW-18I2	OU-1 Union Boulevard	--	5.03	--	5.87	--	--	6.78	--	--	--	6.95	--	--	6.42	--	--	--	5.85	--	--	6.61	6.00	--	--	--	6.51	--	--	--	6.39
OZMW-18D	OU-1 Union Boulevard	--	5.98	--	5.02	--	--	5.73	--	--	--	5.26	--	--	7.77	--	--	--	5.37	--	--	5.37	5.9	--	--	--	5.94	--	--	--	6.68
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	ER	--	5.87	--	--	5.83	--	5.72	--	--	--	--	5.65	--	6.31	--	--	--	--	--	6.28	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	ER	--	5.49	--	--	6.00	--	5.84	--	--	--	--	5.35	--	5.80	--	--	--	--	--	5.68	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	ER	--	4.85	--	--	5.10	--	3.50	--	--	--	--	5.50	--	5.41	--	--	--	--	--	5.31	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	ER	--	5.35	--	--	5.46	--	7.00	--	--	--	--	5.72	--	5.35	--	--	--	--	--	5.36	--
Conductivity (mS/cm)																														
OU2MW-57S	66 North Clinton	--	--	0.179	0.535	--	--	--	0.896	--	--	0.385	--	--	0.453	--	0.662	--	--	--	--	0.469	--	--	0.368	--	0.326	--	--	0.311	--
OU2MW-57I	66 North Clinton	--	--	0.378	0.324	--	--	--	0.417	--	--	0.240	--	--	0.412	--	0.807	--	--	--	--	0.510	--	--	0.356	--	0.300	--	--	0.432	--
OU2MW-57I2	66 North Clinton	--	--	0.372	0.345	--	--	--	0.432	--	--	0.538	--	--	1.040	--	0.837	--	--	--	--	0.582	--	--	0.537	--	0.426	--	--	0.412	--
OZMW-16S	OU-1 Union Boulevard	--	0.372	--	0.277	--	--	0.348	--	--	--	0.600	--	--	0.497	--	--	--	0.394	--	--	0.435	0.427	--	--	--	0.338	--	--	--	0.379
OZMW-16I	OU-1 Union Boulevard	--	1.020	--	0.583	--	--	0.740	--	--	--	0.673	--	--	0.717	--	--	--	0.763	--	--	0.788	0.659	--	--	--	0.621	--	--	--	0.701
OZMW-16I2	OU-1 Union Boulevard	--	1.050	--	0.527	--	--	0.459	--	--	--	0.558	--	--	0.482	--	--	--	0.299	--	--	0.487	0.950	--	--	--	0.320	--	--	--	0.505
OZMW-16D	OU-1 Union Boulevard	--	0.197	--	0.152	--	--	0.209	--	--	--	0.229	--	--	0.579	--	--	--	0.299	--	--	0.280	0.207	--	--	--	0.157	--	--	--	0.216
OZMW-17S	OU-1 Union Boulevard	0.398	0.375	0.431	0.379	0.341	0.479	0.690	0.680	1.320	0.877	1.505	0.565	0.580	0.478	0.593	0.703	0.589	0.495	0.457	0.499	0.465	0.473	0.476	0.608	0.709	0.358	0.448	0.372	0.480	0.405
OZMW-17I	OU-1 Union Boulevard	0.413	0.422	0.493	0.399	0.406	0.396	0.628	0.556	0.944	0.730	0.629	0.602	0.659	0.510	0.729	0.837	0.698	0.700	0.580	0.635	0.630	0.645	0.638	0.773	0.695	0.499	0.637	0.522	0.715	0.607
OZMW-17I2	OU-1 Union Boulevard	0.333	0.355	0.344	0.284	0.245	0.324	0.428	0.359	0.787	0.528	0.430	0.377	0.307	0.396	0.490	0.635	0.526	0.496	0.405	0.422	0.396	0.378	0.403	0.510	0.506	0.394	0.518	0.412	0.568	0.484
OZMW-17D	OU-1 Union Boulevard	0.532	0.623	0.518	0.415	0.374	0.337	0.465	0.322	0.555	0.451	0.872	0.363	0.522	0.221	0.315	0.323	0.280	0.269	0.225	0.284	0.328	0.352	0.312	0.297	0.269	0.158	0.210	--	0.242	0.204
OZMW-18S	OU-1 Union Boulevard	--	0.742	--	0.358	--	--	0.497	--	--	--	0.467	--	--	0.613	--	--	--	0.602	--	--	0.462	0.518	--	--	--	0.420	--	--	--	0.369
OZMW-18I	OU-1 Union Boulevard	--	0.685	--	0.590	--	--	0.696	--	--	--	0.718	--	--	0.676	--	--	--	0.674	--	--	0.750	1.20	--	--	--	0.525	--	--	--	0.578
OZMW-18I2	OU-1 Union Boulevard	--	0.660	--	0.384	--	--	0.332	--	--	--	0.400	--	--	0.548	--	--	--	0.570	--	--	0.430	0.544	--	--	--	0.521	--	--	--	0.520
OZMW-18D	OU-1 Union Boulevard	--	0.968	--	0.731	--	--	0.743	--	--	--	0.878	--	--	0.547	--	--	--	0.593	--	--	0.745	1.28	--	--	--	0.469	--	--	--	0.511
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	0.275	--	0.204	--	--	0.215	--	0.260	--	--	--	--	0.424	--	0.377	--	--	0.182	--	--	0.167	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	0.390	--	0.595	--	--	0.555	--	0.717	--	--	--	--	0.540	--	0.400	--	--	0.456	--	--	0.405	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	0.334	--	0.204	--	--	0.525	--	0.468	--	--	--	--	0.301	--	0.298	--	--	0.250	--	--	0.376	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	0.510	--	0.500	--	--	0.386	--	0.363	--	--	--	--	0.422	--	0.465	--	--	0.310	--	--	0.358	--
Dissolved Oxygen (mg/L)																														
OU2MW-57S	66 North Clinton	--	--	0.0	0.0	--	--	--	0.0	--	--	0.4	--	--	1.9	--	1.6	--	--	--	--	6.3	--	--	0.0	--	0.0	--	--	0.0	--
OU2MW-57I	66 North Clinton	--	--	3.2	5.0	--	--	--	9.1	--	--	2.8	--	--	0.0	--	6.9	--	--	--	--	5.8	--	--	0.0	--	0.0	--	--	6.2	--
OU2MW-57I2	66 North Clinton	--	--	0.0	0.0	--	--	--	1.8	--	--	0.4	--	--	3.1	--	2.7	--	--	--	--	2.1	--	--	0.0	--	0.0	--	--	0.0	--
OZMW-16S	OU-1 Union Boulevard	--	30.0	--	27.0	--	--	26.0	--	--	--	25.0	--	--	26.0	--	--	--	25.0	--	--	39.0	22.0	--	--	--	32.0	--	--	--	32.0
OZMW-16I	OU-1 Union Boulevard	--	28.8	--	25.0	--	--	29.0	--	--	--	24.0	--	--	37.0	--	--	--	34.0	--	--	36.0	25.0	--	--	--	36.0	--	--	--	37.0
OZMW-16I2	OU-1 Union Boulevard	--	0.0	--	0.0	--	--	0.0	--	--	--	0.6	--	--	0.0	--	--	--	1.6	--	--	0.8	0.0	--	--	--	1.6	--	--	--	3.5
OZMW-16D	OU-1 Union Boulevard	--	0.1	--	0.0	--	--	0.0	--	--	--	0.0	--	--	0.0	--	--	--	5.0	--	--	1.8	0.0	--	--	--	0.0	--	--	--	0.7
OZMW-17S	OU-1 Union Boulevard	14.0	15.0	13.0	15.0	15.0	16.0	17.0	23.0	11.0	13.0	38.9	19.0	22.0	20.0	23.0	18.0	18.0	17.0	21.0	20.0	26.0	21.0	23.0	29.0	4.0	32.0	25.0	23.0	22.0	23.0
OZMW-17I	OU-1 Union Boulevard	27.0	25.0	28.0	29.0	26.0	27.0	22.0	32.0	28.0	47.0	24.0	22.0	31.0	24.0	32.0	26.0	22.0	24.0	24.0	30.0	27.0	23.0	26.0	34.0	27.0	36.0	35.0	33.0	35.0	27.0
OZMW-17I2	OU-1 Union Boulevard	7.0	6.0	5.0	4.0	3.0	0.0	7.0	7.0	5.0	14.0	5.0	5.0	12.0	9.0	6.0	8.0	7.0	7.0	5.0	2.0	2.0	2.0	5.0	4.0	8.0	27.0	5.0	4.0	6.0	3.0
OZMW-17D	OU-1 Union Boulevard	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	6.8	1.0	1.0	0.0	1.0	2.0	3.0	2.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.6
OZMW-18S	OU-1 Union Boulevard	--	17.3	--	23.0	--	--	22.0	--	--	--	27.0	--	--	30.0	--	--	--	30.0	--	--	36.0	23.0	--	--	--	19.2	--	--	--	38.0
OZMW-18I	OU-1 Union Boulevard	--	20.0	--	14.7	--	--	24.0	--	--	--	15.8	--	--	19.0	--	--	--	17.8	--	--	23.0	18.9	--	--	--	19.5	--	--	--	16.3
OZMW-18I2	OU-1 Union Boulevard	--	6.3	--	5.8	--	--	5.0	--	--	--	11.2	--	--	9.8	--	--	--	7.2	--	--	11.4	12.3	--	--	--	3.5	--	--	--	3.8
OZMW-18D	OU-1 Union Boulevard	--	0.1	--	0.0	--	--	0.0	--	--	--	11.0	--	--	0.0	--	--	--	1.4	--	--	3.8	0.0	--	--	--	0.0	--	--	--	0.2
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	0.7	--	0.0	--	--	17.6	--	38.0	--	--	--	--	29.0	--	23.0	--	--	23.0	--	--	18.6	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	0.0	--	0.4	--	--	0.0	--	2.6	--	--	--	--	1.9	--	2.5	--	--	0.0	--	--	0.0	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	3.6	--	6.6	--	--	0.0	--	0.0	--	--	--	--	0.6	--	0.0	--	--	0.1	--	--	0.9	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	0.1	--	0.4	--	--	1.7	--	0.0	--	--	--	--	7.5	--	3.2	--	--	0.0	--	--	0.0	--
Temperature (degrees Celcius)																														
OU2MW-57S	66 North Clinton	--	--	20.3	20.2	--	--	--	11.2	--	--	12.5	--	--	22.7	--	20.3	--	--	--	--	12.7	--	--	18.6	--	22.5	--	--	15.2	--
OU2MW-57I	66 North Clinton	--	--	17.1	18.0	--	--	--	13.0	--	--	13.6	--	--	16.6	--	17.2	--	--	--	--	13.6	--	--	16.2	--	18.3	--	--	14.6	--
OU2MW-57I2	66 North Clinton	--	--	19.4	18.0	--	--	--	13.6	--	--	13.5	--	--	16.1	--	16.4	--	--	--	--	13.3	--	--	16.3	--	18.0	--	--	13.6	--
OZMW-16S	OU-1 Union Boulevard	--	18.1	--	16.8	--	--	12.1	--	--	--	13.4	--	--	17.9	--	--	--	14.6	--	--	11.6	13.1	--	--	--	20.5	--	--	--	13.4
OZMW-16I	OU-1 Union Boulevard	--	17.3	--	15.0	--	--	13.2	--	--	--	14.3	--	--	18.0	--	--	--	14.3	--	--	12.3	13.3	--	--	--	18.5	--	--	--	13.3
OZMW-16I2	OU-1 Union Boulevard	--	17.1	--	14.8	--	--	12.1	--	--	--	13.7	--	--	15.1	--	--	--	13.5	--	--	12.5	13.9	--	--	--	17.3	--	--	--	13.5
OZMW-16D	OU-1 Union Boulevard	--	17.2	--	14.4	--	--	11.9	--	--	--	16.3	--	--	15.1	--	--	--	12.9	--	--	11.9	12.6	--	--	--	17.3	--	--	--	12.0
OZMW-17S	OU-1 Union Boulevard	19.3	19.2	20.2	17.8	16.2	14.3	10.2	9.7	10.9	13.5	27.6	16.6	17.6	20.0	18.5	17.9	15.7	14.6	12.3	12.3	12.6	13.8	17.1	20.0	21.7	20.0	18.7	18.1	14.4	13.0
OZMW-17I	OU-1 Union Boulevard	17.5	17.0	17.9	15.9	15.7	13.5	12.6	12.1	13.0	12.0	15.5	15.3	16.1	16.4	15.4	15.4	14.7	14.3	13.2	13.7	13.8	14.5	17	18.8	18.0	17.5	15.9	16.2	13.9	14.3
OZMW-17I2	OU-1 Union Boulevard	18.9	18.7	17.3	15.2	14.4	13.0	12.0	12.0	12.7	14.3	15.4	15.4	15.1	16.3	10.4	14.5	14.2	12.3	13.0	13.3	13.4	14.1	17.1	17.9	16.1	17.3	15.4	15.6	13.8	12.8
OZMW-17D	OU-1 Union Boulevard	19.1	20.4	17.1	14.7	14.4	11.6	11.9	11.6	12.7	13.6	29.6	16.2	14.0	16.4	16.0	14.2	14.1	12.8	12.3	12.9	13.1	13.5	17.4	17.0	17.1	17.3	14.1	--	12.7	12.9
OZMW-18S	OU-1 Union Boulevard	--	21.2	--	18.2	--	--	12.1	--	--	--	14.5	--	--	18.6	--	--	--	15.5	--	--	12.0	13.6	--	--	--	19.1	--	--	--	13.8
OZMW-18I	OU-1 Union Boulevard	--	17.3	--	16.6	--	--	13.8	--	--	--	14.8	--	--	22.1	--	--	--	14.9	--	--	12.7	14.4	--	--	--	17.5	--	--	--	14.2
OZMW-18I2	OU-1 Union Boulevard	--	17.0	--	15.7	--	--	13.2	--	--	--	15.0	--	--	17.3	--	--	--	14.1	--	--	13.5	14.0	--	--	--	16.9	--	--	--	13.7
OZMW-18D	OU-1 Union Boulevard	--	16.6	--	15.1	--	--	13.4	--	--	--	16.8	--	--	17.4	--	--	--	13.6	--	--	12.6	14.5	--	--	--	17.1	--	--	--	12.6
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	8.9	--	11.9	--	--	21.6	--	17.7	--	--	--	--	13.5	--	20.2	--	--	--	--	--	14.0	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	11.7	--	13.2	--	--	19.1	--	16.5	--	--	--	--	15.5	--	17.7	--	--	--	--	--	14.3	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	12.7	--	13.5	--	--	15.6	--	15.0	--	--	--	--	16.2	--	17.7	--	--	--	--	--	11.8	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	11.6	--	12.7	--	--	ER	--	14.3	--	--	--	--	15.4	--	20.8	--	--	--	--	--	13.0	--

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2010						2011												2012											
		Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12
pH (SU)																															
Oxidation Reduction Potential (mV)																															
OU2MW-57S	66 North Clinton	--	--	-118	-101	--	--	--	-86	--	--	-79	--	--	-45	--	-69	--	--	--	--	-20	--	--	-45	--	-58	--	--	-21	--
OU2MW-57I	66 North Clinton	--	--	64	54	--	--	--	129	--	--	179	--	--	110	--	90	--	--	--	--	167	--	--	173	--	143	--	--	148	--
OU2MW-57I2	66 North Clinton	--	--	69	63	--	--	--	143	--	--	156	--	--	103	--	177	--	--	--	--	229	--	--	201	--	164	--	--	149	--
OZMW-16S	OU-1 Union Boulevard	--	151	--	189	--	--	167	--	--	--	187	--	--	-38	--	--	--	191	--	--	128	260	--	--	--	138	--	--	--	176
OZMW-16I	OU-1 Union Boulevard	--	124	--	278	--	--	140	--	--	--	183	--	--	68	--	--	--	181	--	--	258	255	--	--	--	163	--	--	--	185
OZMW-16I2	OU-1 Union Boulevard	--	-69	--	-74	--	--	-18	--	--	--	-60	--	--	-100	--	--	--	30	--	--	-15	-9	--	--	--	22	--	--	--	-44
OZMW-16D	OU-1 Union Boulevard	--	131	--	107	--	--	135	--	--	--	137	--	--	70	--	--	--	152	--	--	134	130	--	--	--	100	--	--	--	126
OZMW-17S	OU-1 Union Boulevard	63	78	63	83	121	58	219	116	91	180	177	85	33	107	25	59	140	170	138	118	134	169	180	146	94	133	87	104	419	167
OZMW-17I	OU-1 Union Boulevard	123	183	176	123	142	143	141	157	93	200	125	158	124	121	136	97	206	152	187	140	99	237	203	155	198	146	137	162	407	139
OZMW-17I2	OU-1 Union Boulevard	73	134	157	160	185	130	257	144	88	212	178	154	118	90	130	101	120	122	214	103	104	215	177	125	215	189	163	196	383	245
OZMW-17D	OU-1 Union Boulevard	71	80	126	58	122	108	51	74	58	52	123	68	25	56	52	46	87	107	56	78	70	79	45	69	59	58	38	--	90	40
OZMW-18S	OU-1 Union Boulevard	--	127	--	141	--	--	110	--	--	--	208	--	--	86	--	--	--	185	--	--	146	250	--	--	--	196	--	--	--	149
OZMW-18I	OU-1 Union Boulevard	--	120	--	133	--	--	88	--	--	--	108	--	--	143	--	--	--	245	--	--	135	111	--	--	--	225	--	--	--	145
OZMW-18I2	OU-1 Union Boulevard	--	128	--	117	--	--	69	--	--	--	180	--	--	155	--	--	--	66	--	--	154	215	--	--	--	61	--	--	--	108
OZMW-18D	OU-1 Union Boulevard	--	-10	--	59	--	--	-2	--	--	--	-33	--	--	-31	--	--	--	-5	--	--	-58	-49	--	--	--	-59	--	--	--	-60
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	-85	--	-66	--	--	93	--	123	--	--	--	--	292	--	167	--	--	--	--	--	169	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	97	--	155	--	--	60	--	41	--	--	--	--	120	--	170	--	--	--	--	--	68	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	39	--	108	--	--	190	--	142	--	--	--	--	98	--	164	--	--	--	--	--	125	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	-77	--	-15	--	--	-31	--	-57	--	--	--	--	48	--	41	--	--	--	--	--	41	--

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Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2013												2014												2015						
		Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15
pH (SU)																																
OU2MW-57S	66 North Clinton	--	5.57	--	--	6.19	--	5.87	--	--	--	--	5.82	--	5.06	--	6.31	--	--	--	5.66	--	5.42	--	--	5.75	--	--	5.72	--	--	5.8
OU2MW-57I	66 North Clinton	--	5.28	--	--	5.89	--	5.70	--	--	--	--	5.49	--	5.21	--	5.91	--	--	--	5.42	--	5.25	--	--	5.66	--	--	5.48	--	--	5.5
OU2MW-57I2	66 North Clinton	--	5.80	--	--	6.08	--	5.91	--	--	--	--	5.67	--	5.53	--	6.00	--	--	--	5.87	--	5.18	--	--	5.65	--	--	5.52	--	--	5.4
OZMW-16S	OU-1 Union Boulevard	--	6.71	--	--	6.91	--	6.76	--	--	--	--	6.34	--	6.50	--	--	7.13	--	--	6.33	--	5.98	--	--	6.56	--	--	6.68	--	--	6.3
OZMW-16I	OU-1 Union Boulevard	--	6.74	--	--	6.98	--	7.04	--	--	--	--	6.55	--	6.73	--	--	7.00	--	--	6.43	--	6.11	--	--	6.54	--	--	6.68	--	--	6.3
OZMW-16I2	OU-1 Union Boulevard	--	6.04	--	--	5.98	--	6.07	--	--	--	--	6.36	--	6.20	--	--	5.80	--	--	5.95	--	5.09	--	--	5.73	--	--	5.74	--	--	5.9
OZMW-16D	OU-1 Union Boulevard	--	4.95	--	--	4.98	--	4.96	--	--	--	--	4.53	--	4.75	--	--	5.08	--	--	4.05	--	4.27	--	--	4.21	--	--	4.77	--	--	4.5
OZMW-17S	OU-1 Union Boulevard	6.34	6.51	6.71	--	6.70	--	6.55	6.45	6.55	6.42	6.29	6.53	6.15	7.88	6.17	6.54	6.58	6.45	--	6.66	6.24	6.03	6.68	6.62	6.22	6.24	6.19	6.28	6.15	6.29	6.04
OZMW-17I	OU-1 Union Boulevard	6.57	6.81	6.80	--	6.86	--	6.90	6.90	6.92	6.82	6.65	6.75	6.64	6.94	6.81	6.84	6.70	6.49	--	6.98	6.60	5.99	7.14	7.01	6.70	6.49	6.73	6.55	6.62	6.67	6.53
OZMW-17I2	OU-1 Union Boulevard	5.48	6.14	5.66	--	5.61	--	5.83	5.49	5.51	5.49	5.19	5.21	5.38	5.75	5.84	6.00	6.05	5.85	--	6.32	5.84	5.60	6.45	6.33	6.01	5.50	5.40	5.47	5.53	5.54	5.33
OZMW-17D	OU-1 Union Boulevard	5.11	6.36	5.21	--	5.44	--	5.47	5.22	5.37	5.31	4.94	4.89	5.01	7.20	5.38	5.34	5.26	5.18	--	5.42	5.12	4.53	5.66	5.41	5.29	5.03	5.22	5.11	5.07	5.14	5.18
OZMW-18S	OU-1 Union Boulevard	--	6.78	--	--	6.75	--	7.16	--	--	--	6.56	--	--	--	7.07	--	--	6.88	--	6.45	--	6.54	--	--	6.71	--	--	6.62	--	--	6.6
OZMW-18I	OU-1 Union Boulevard	--	6.98	--	--	6.83	--	7.05	--	--	--	6.76	--	--	--	7.22	--	--	6.89	--	7.04	--	6.12	--	--	7.09	--	--	6.96	--	--	6.9
OZMW-18I2	OU-1 Union Boulevard	--	6.29	--	--	6.37	--	6.14	--	--	--	6.12	5.96	6.06	6.51	6.31	6.67	6.10	6.03	--	6.37	6.10	6.09	6.05	5.68	6.16	6.01	5.47	6.25	6.17	6.39	6.05
OZMW-18D	OU-1 Union Boulevard	--	5.90	--	--	5.96	--	6.15	--	--	--	5.59	5.27	4.95	6.45	5.30	5.54	5.25	5.18	--	5.25	5.22	4.74	5.28	4.40	4.81	4.72	4.52	5.22	4.95	5.27	5.03
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	5.61	--	--	6.04	--	5.96	--	--	--	5.81	--	5.20	--	--	--	6.15	--	--	5.85	--	5.49	--	--	5.03	--	--	5.10	--	--	5.0
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	5.19	--	--	5.63	--	5.30	--	--	--	5.77	--	5.30	--	--	--	5.66	--	--	5.43	--	5.51	--	--	6.02	--	--	5.70	--	--	5.5
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	5.04	--	--	5.12	--	5.14	--	--	--	4.80	--	4.73	--	--	--	5.51	--	--	4.95	--	4.79	--	--	4.83	--	--	4.83	--	--	4.8
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	5.45	--	--	5.50	--	5.14	--	--	--	5.14	--	5.01	--	--	--	5.89	--	--	5.28	--	4.83	--	--	5.45	--	--	5.12	--	--	5.0
Conductivity (mS/cm)																																
OU2MW-57S	66 North Clinton	--	0.600	--	--	0.301	--	0.398	--	--	--	--	0.881	--	0.408	--	0.280	--	--	--	0.472	--	0.556	--	--	0.366	--	--	0.501	--	--	0.4
OU2MW-57I	66 North Clinton	--	0.843	--	--	0.323	--	0.350	--	--	--	--	0.593	--	0.481	--	0.411	--	--	--	0.335	--	0.966	--	--	0.340	--	--	0.525	--	--	0.4
OU2MW-57I2	66 North Clinton	--	0.300	--	--	0.406	--	0.458	--	--	--	--	0.697	--	0.435	--	0.438	--	--	--	0.491	--	1.320	--	--	0.462	--	--	0.382	--	--	0.4
OZMW-16S	OU-1 Union Boulevard	--	0.950	--	--	0.559	--	0.405	--	--	--	--	0.649	--	0.570	--	--	0.576	--	--	0.441	--	0.421	--	--	0.441	--	--	0.453	--	--	0.4
OZMW-16I	OU-1 Union Boulevard	--	0.820	--	--	0.81	--	0.740	--	--	--	--	1.090	--	0.784	--	--	0.722	--	--	0.689	--	0.688	--	--	0.757	--	--	0.705	--	--	0.7
OZMW-16I2	OU-1 Union Boulevard	--	0.524	--	--	0.415	--	0.363	--	--	--	--	1.040	--	0.330	--	--	0.330	--	--	0.563	--	0.630	--	--	0.469	--	--	0.343	--	--	0.5
OZMW-16D	OU-1 Union Boulevard	--	0.270	--	--	0.233	--	0.217	--	--	--	--	0.315	--	0.233	--	--	0.205	--	--	0.185	--	0.197	--	--	0.228	--	--	0.209	--	--	0.2
OZMW-17S	OU-1 Union Boulevard	0.462	0.621	0.457	--	0.593	--	0.485	0.546	0.385	0.424	0.667	0.680	0.591	1.270	0.587	0.630	0.562	0.560	--	0.482	0.396	0.425	0.389	0.370	0.460	0.530	2.280	0.448	0.550	0.491	0.545
OZMW-17I	OU-1 Union Boulevard	0.694	0.790	1.050	--	0.735	--	0.694	0.687	0.688	0.682	1.060	1.070	0.739	0.724	0.698	0.779	0.799	0.676	--	0.644	0.572	0.695	0.658	0.673	0.707	0.710	0.680	0.698	0.680	0.658	0.631
OZMW-17I2	OU-1 Union Boulevard	0.566	0.527	0.780	--	0.48	--	0.478	0.542	0.559	0.524	0.930	0.913	0.614	0.604	0.570	0.638	0.583	0.563	--	0.587	0.525	0.553	0.614	0.624	0.575	1.030	0.672	0.597	0.563	0.499	0.510
OZMW-17D	OU-1 Union Boulevard	0.214	0.203	0.313	--	0.265	--	0.204	0.211	0.217	0.206	0.370	0.329	0.234	0.253	0.250	0.273	0.279	0.238	--	0.229	0.324	0.394	0.352	0.380	0.454	0.709	0.453	0.446	0.348	0.276	0.277
OZMW-18S	OU-1 Union Boulevard	--	0.928	--	--	0.44	--	0.379	--	--	--	0.691	--	--	--	0.832	--	--	0.492	--	0.552	--	0.488	--	--	0.503	--	--	0.533	--	--	0.7
OZMW-18I	OU-1 Union Boulevard	--	0.665	--	--	0.667	--	0.648	--	--	--	1.010	--	--	--	0.584	--	--	0.611	--	0.568	--	0.718	--	--	0.666	--	--	0.615	--	--	0.6
OZMW-18I2	OU-1 Union Boulevard	--	0.694	--	--	0.605	--	0.661	--	--	--	0.957	0.967	0.660	0.620	0.585	0.603	0.642	0.575	--	0.602	0.595	0.620	0.608	0.679	0.632	0.613	0.634	0.551	0.614	0.596	0.541
OZMW-18D	OU-1 Union Boulevard	--	0.689	--	--	0.526	--	0.564	--	--	--	0.873	0.889	0.663	0.698	0.659	0.642	0.638	0.612	--	0.557	0.561	0.717	0.558	0.622	0.613	0.823	0.653	0.552	0.535	0.495	0.488
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	0.589	--	--	0.427	--	0.299	--	--	--	0.202	--	0.178	--	--	--	0.245	--	--	0.244	--	0.251	--	--	0.292	--	--	0.200	--	--	0.2
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	0.808	--	--	0.388	--	0.418	--	--	--	0.805	--	0.532	--	--	--	0.427	--	--	0.116	--	0.291	--	--	0.430	--	--	0.518	--	--	0.3
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	0.430	--	--	0.535	--	0.497	--	--	--	0.748	--	0.508	--	--	--	0.45	--	--	0.404	--	0.472	--	--	0.474	--	--	0.480	--	--	0.4
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	0.300	--	--	0.289	--	0.270	--	--	--	0.424	--	0.264	--	--	--	0.20	--	--	0.236	--	0.233	--	--	0.196	--	--	0.17	--	--	0.2
Dissolved Oxygen (mg/L)																																
OU2MW-57S	66 North Clinton	--	7.1	--	--	6.4	--	3.0	--	--	--	--	3.4	--	7.8	--	1.53	--	--	--	1.90	--	1.09	--	--	5.15	--	--	9.74	--	--	4.9
OU2MW-57I	66 North Clinton	--	1.9	--	--	0.6	--	1.3	--	--	--	--	2.8	--	1.2	--	1.28	--	--	--	0.70	--	0.74	--	--	0.48	--	--	0.47	--	--	2.4
OU2MW-57I2	66 North Clinton	--	0.5	--	--	0.3	--	0.5	--	--	--	--	0.3	--	0.5	--	6.60	--	--	--	0.60	--	0.45	--	--	1.21	--	--	0.47	--	--	1.1
OZMW-16S	OU-1 Union Boulevard	--	27.0	--	--	28.0	--	32.0	--	--	--	--	28.0	--	30.0	--	--	17.0	--	--	32.63	--	29.36	--	--	45.6	--	--	39.61	--	--	21.7
OZMW-16I	OU-1 Union Boulevard	--	32.0	--	--	46.0	--	29.0	--	--	--	--	40.0	--	35.0	--	--	20.0	--	--	37.90	--	34.00	--	--	50.0	--	--	50.0	--	--	27.6
OZMW-16I2	OU-1 Union Boulevard	--	2.5	--	--	0.5	--	2.4	--	--	--	--	32.0	--	30.0	--	--	16.6	--	--	25.20	--	27.67	--	--	41.3	--	--	39.00	--	--	24.9
OZMW-16D	OU-1 Union Boulevard	--	0.6	--	--	0.5	--	0.4	--	--	--	--	0.4	--	0.4	--	--	11.1	--	--	1.60	--	1.10	--	--	1.0	--	--	0.48	--	--	1.6
OZMW-17S	OU-1 Union Boulevard	11.0	12.0	21.0	--	14.0	--	16.3	17.0	30.0	21.0	15.0	23.0	16.0	15.0	17.0	14.70	18.0	22.0	--	25.0	17.0	17.6	19.0	19.0	17.0	14.8	22.7	26.0	20.0	16.0	17.1
OZMW-17I	OU-1 Union Boulevard	15.0	26.0	39.0	--	28.0	--	21.0	28.0	35.0	32.0	17.0	28.0	23.0	17.0	21.0	15.0	31.0	27.0	--	30.0	30.0	25.7	21.0	23.0	39.3	14.2	34.8	26.0	26.0	24.0	21.8
OZMW-17I2	OU-1 Union Boulevard	7.0	5.0	8.9	--	3.3	--	6.1	7.0	10.0	6.0	3.0	8.0	5.0	4.0	5.0	13.2	9.0	7.0	--	12.0	13.0	10.4	9.0	12.0	11.3	8.5	11.3	6.0	6.0	6.0	6.4
OZMW-17D	OU-1 Union Boulevard	1.0	0.0	0.5	--	0.3	--	0.5	1.0	2.0	0.0	1.0	2.0	1.0	1.9	1.0	0.0	2.7	1.0	--	0.0	0.2	1.0	0.2	0.2	0.36	0.54	0.67	1.80	0.40	0.40	3.66
OZMW-18S	OU-1 Union Boulevard	--	22.0	--	--	29.0	--	31.0	--	--	--	21.0	--	--	--	17.0	--	--	18.0	--	26.2	--	27.60	--	--	25.35	--	--	29.04	--	--	21.2
OZMW-18I	OU-1 Union Boulevard	--	15.3	--	--	24.0	--	18.4	--	--	--	10.0	--	--	--	9.0	--	--	11.9	--	14.2	--	14.74	--	--	14.05	--	--	15.48	--	--	9.4
OZMW-18I2	OU-1 Union Boulevard	--	4.9	--	--	7.6	--	9.4	--	--	--	20.0	21.0	22.0	20.0	20.0	15.5	38.0	24.0	--	32.0	26.0	27.1	35.0	26.0	31.03	13.0	25.3	23.0	26.0	23.0	28.0
OZMW-18D	OU-1 Union Boulevard	--	0.6	--	--	0.4	--	0.9	--	--	--	2.0	5.0	20.0	35.0	21.0	19.0	26.0	22.0	--	30.0	25.0	23.6	26.0	25.0	19.64	0.42	13.1	26.0	26.0	27.0	27.0
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	36.0	--	--	34.0	--	22.0	--	--	--	25.0	--	22.0	--	--	--	22.00	--	--	34.50	--	40.45	--	--	41.5	--	--	34.9	--	--	23.5
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	0.6	--	--	0.7	--	3.7	--	--	--	0.7	--	0.5	--	--	--	27.00	--	--	29.97	--	40.40	--	--	50.0	--	--	44.8	--	--	44.7
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	0.6	--	--	0.6	--	0.7	--	--	--	0.4	--	0.4	--	--	--	1.51	--	--	18.04	--	50.00	--	--	47.9	--	--	12.0	--	--	9.0
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	1.4	--	--	1.0	--	1.0	--	--	--	0.4	--	0.4	--	--	--	1.20	--	--	0.47	--	1.10	--	--	0.95	--	--	0.4	--	--	1.3
Temperature (degrees Celcius)																																
OU2MW-57S	66 North Clinton	--	11.0	--	--	14.5	--	20.3	--	--	--	--	16.0	--	10.3	--	11.2	--	--	--	19.91	--	20.14	--	--	11.37	--	--	10.69	--	--	16.9
OU2MW-57I	66 North Clinton	--	11.7	--	--	15.6	--	16.4	--	--	--	--	15.8	--	11.4	--	13.1	--	--	--	16.18	--	16.15	--	--	12.92	--	--	12.39	--	--	13.7
OU2MW-57I2	66 North Clinton	--	13.2	--	--	14.7	--	16.8	--	--	--	--	14.7	--	11.9	--	13.5	--	--	--	17.12	--	15.42	--	--	12.56	--	--	11.88	--	--	15.2
OZMW-16S	OU-1 Union Boulevard	--	10.7	--	--	15.8	--	18.9	--	--	--	--	13.9	--	11.2	--	--	11.9	--	--	17.25	--	17.13	--	--	10.75	--	--	11.16	--	--	15.5
OZMW-16I	OU-1 Union Boulevard	--	12.4	--	--	16.4	--	16.9	--	--	--	--	13.7	--	12.8	--	--	13.1	--	--	15.83	--	14.18	--	--	11.44	--	--	12.37	--	--	14.2
OZMW-16I2	OU-1 Union Boulevard	--	12.4	--	--	16.8	--	16.0	--	--	--	--	13.1	--	12.9	--	--	13.9	--	--	20.00	--	14.93	--	--	11.66	--	--	12.72	--	--	14.9
OZMW-16D	OU-1 Union Boulevard	--	11.1	--	--	15.4	--	17.9	--	--	--	--	12.6	--	12.8	--	--	13.9	--	--	19.80	--	14.06	--	--	9.99	--	--	12.80	--	--	15.0
OZMW-17S	OU-1 Union Boulevard	11.6	10.2	12.1	--	15.6	--	18.1	19.0	18.2	17.1	16.5	13.5	10.6	9.8	9.3	12.1	13.7	14.8	--	18.37	17.5	16.9	14.4	13.56	10.83	8.54	8.30	9.94	12.95	15.67	16.70
OZMW-17I	OU-1 Union Boulevard	13.0	12.7	13.4	--	16.1	--	17.4	16.5	16.0	15.5	15.4	14.3	12.6	12.0	11.8	13.2	13.8	13.7	--	16.4	14.8	14.5	13.6	12.87	10.78	11.07	10.84	11.57	12.69	14.20	15.05
OZMW-17I2	OU-1 Union Boulevard	12.1	13.1	13.4	--	15.3	--	17.7	16.2	16.2	15.3	13.9	13.4	12.2	12.5	11.9	13.6	14.1	14.0	--	16.5	14.1	13.3	13.0	12.52	11.12	10.70	10.54	12.01	13.47	14.34	15.02
OZMW-17D	OU-1 Union Boulevard	11.5	13.0	13.2	--	14.9	--	18.8	14.8	14.6	15.0	13.6	12.4	12.3	12.3	11.9	13.6	16.9	13.9	--	17.7	13.9	13.4	12.6	12.25	10.05	10.01	10.48	12.51	13.84	14.46	15.17
OZMW-18S	OU-1 Union Boulevard	--	11.2	--	--	14.8	--	18.6	--	--	--	16.3	--	--	--	9.2	--	--	14.0	--	17.34	--	17.06	--	--	10.40	--	--	11.07	--	--	16.1
OZMW-18I	OU-1 Union Boulevard	--	12.7	--	--	15.7	--	17.5	--	--	--	15.4	--	--	--	11.6	--	--	14.5	--	19.70	--	15.15	--	--	11.26	--	--	11.77	--	--	14.7
OZMW-18I2	OU-1 Union Boulevard	--	12.7	--	--	16.2	--	16.8	--	--	--	14.5	14.3	12.9	11.8	11.0	13.3	16.8	14.6	--	18.4	14.9	14.4	13.7	12.78	11.51	12.27	12.25	12.64	12.22	14.18	15.19
OZMW-18D	OU-1 Union Boulevard	--	12.2	--	--	15.8	--	18.3	--	--	--	14.1	13.8	12.8	12.4	11.0	13.2	17.0	15.5	--	17.9	14.1	14.0	12.6	12.39	10.82	11.37	11.51	12.82	14.32	14.40	15.77
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	10.1	--	--	13.2	--	19.6	--	--	--	15.3	--	6.0	--	--	--	12.11	--	--	16.90	--	16.33	--	--	7.42	--	--	12.63	--	--	16.5
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	12.0	--	--	14.8	--	17.5	--	--	--	14.2	--	12.7	--	--	--	13.6	--	--	14.60	--	13.25	--	--	9.80	--	--	14.23	--	--	14.3
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	12.4	--	--	14.7	--	17.5	--	--	--	13.7	--	12.0	--	--	--	13.7	--	--	18.79	--	13.38	--	--	8.50	--	--	13.04	--	--	14.8
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	9.3	--	--	14.2	--	18.4	--	--	--	14.2	--	12.2	--	--	--	13.6	--	--	13.64	--	13.78	--	--	9.30	--	--	13.33	--	--	16.3

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2013												2014												2015						
		Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15
pH (SU)																																
Oxidation Reduction Potential (mV)																																
OU2MW-57S	66 North Clinton	--	1	--	--	9	--	-52	--	--	--	--	-61	--	88	--	-46	--	--	--	-16	--	-53	--	--	36	--	--	115	--	--	17.0
OU2MW-57I	66 North Clinton	--	117	--	--	172	--	120	--	--	--	--	80	--	110	--	165	--	--	--	159	--	126	--	--	54	--	--	90	--	--	191.0
OU2MW-57I2	66 North Clinton	--	190	--	--	200	--	102	--	--	--	--	89	--	119	--	211	--	--	--	139	--	158	--	--	68	--	--	107	--	--	150.0
OZMW-16S	OU-1 Union Boulevard	--	244	--	--	179	--	48	--	--	--	--	186	--	166	--	--	212	--	--	278	--	127	--	--	254	--	--	164	--	--	221.0
OZMW-16I	OU-1 Union Boulevard	--	248	--	--	166	--	100	--	--	--	--	187	--	171	--	--	190	--	--	271	--	164	--	--	251	--	--	185	--	--	229.0
OZMW-16I2	OU-1 Union Boulevard	--	77	--	--	34	--	-65	--	--	--	--	141	--	182	--	--	188	--	--	125	--	149	--	--	255	--	--	242	--	--	236.0
OZMW-16D	OU-1 Union Boulevard	--	153	--	--	119	--	83	--	--	--	--	92	--	106	--	--	102	--	--	146	--	173	--	--	192	--	--	231	--	--	157.0
OZMW-17S	OU-1 Union Boulevard	142	205	160	--	154	--	18	107	-6	102	120	148	161	77	271	146	195	180	--	86	177	196	220	182	222	154	119	255	247	363	215
OZMW-17I	OU-1 Union Boulevard	142	242	107	--	151	--	68	101	90	64	156	142	165	132	242	132	213	173	--	92	154	71	208	145	235	159	140	256	248	190	212
OZMW-17I2	OU-1 Union Boulevard	194	192	135	--	170	--	157	148	143	92	211	120	211	159	265	106	202	152	--	82	132	199	218	108	220	264	222	269	272	272	277
OZMW-17D	OU-1 Union Boulevard	49	30	63	--	-19	--	24	15	4	83	16	23	10	-1	43	-7	-12	66	--	-29	73	-2	65	50	58	87	91	69	80	43	48
OZMW-18S	OU-1 Union Boulevard	--	188	--	--	158	--	122	--	--	--	128	--	--	--	169	--	--	135	--	162	--	185	--	--	-31	--	--	148	--	--	196.0
OZMW-18I	OU-1 Union Boulevard	--	207	--	--	154	--	91	--	--	--	124	--	--	--	139	--	--	109	--	75	--	40	--	--	97	--	--	128	--	--	192.0
OZMW-18I2	OU-1 Union Boulevard	--	84	--	--	80	--	-8	--	--	--	87	159	161	245	170	246	197	176	--	74	173	207	196	204	194	202	263	247	160	184	245
OZMW-18D	OU-1 Union Boulevard	--	-28	--	--	-122	--	-62	--	--	--	-74	-11	107	98	121	79	54	142	--	44	119	53	176	183	192	162	173	182	200	119	116
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	189	--	--	210	--	117	--	--	--	174	--	234	--	--	--	233	--	--	207	--	173	--	--	207	--	--	268	--	--	341.0
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	194	--	--	95	--	124	--	--	--	75	--	157	--	--	--	209	--	--	242	--	203	--	--	219	--	--	250	--	--	385.0
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	258	--	--	222	--	156	--	--	--	135	--	174	--	--	--	212	--	--	271	--	215	--	--	247	--	--	268	--	--	340.0
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	15	--	--	-17	--	-8	--	--	--	24	--	23	--	--	--	8	--	--	97	--	109	--	--	66	--	--	127	--	--	81.0

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2015					2016												2017										
		Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
pH (SU)																													
OU2MW-57S	66 North Clinton	--	--	4.8	--	--	5.56	--	--	--	6.29	--	5.81	--	--	--	6.01	--	5.61	--	--	5.99	--	--	6.07	--	--	5.89	--	--
OU2MW-57I	66 North Clinton	--	--	5.0	--	--	5.39	--	--	--	6.23	--	5.79	--	--	--	5.96	--	5.41	--	--	5.39	--	--	5.88	--	--	5.77	--	--
OU2MW-57I2	66 North Clinton	--	--	5.0	--	--	5.39	--	--	--	6.04	--	5.58	--	--	--	5.88	--	5.50	--	--	5.71	--	--	5.73	--	--	5.67	--	--
OZMW-16S	OU-1 Union Boulevard	--	--	6.1	--	--	4.85	--	--	--	6.37	--	6.94	--	--	6.79	--	--	6.87	--	--	6.97	--	--	6.86	--	--	7.73	--	--
OZMW-16I	OU-1 Union Boulevard	--	--	5.4	--	--	5.24	--	--	--	6.10	--	6.74	--	--	6.57	--	--	6.84	--	--	6.74	--	--	6.85	--	--	7.56	--	--
OZMW-16I2	OU-1 Union Boulevard	--	--	5.9	--	--	4.23	--	--	--	4.83	--	5.86	--	--	6.32	--	--	6.09	--	--	6.15	--	--	5.88	--	--	6.09	--	--
OZMW-16D	OU-1 Union Boulevard	--	--	4.3	--	--	3.27	--	--	--	4.04	--	4.97	--	--	4.81	--	--	4.95	--	--	5.06	--	--	5.02	--	--	4.88	--	--
OZMW-17S	OU-1 Union Boulevard	6.10	4.88	5.78	4.95	5.19	5.74	4.13	6.28	3.58	4.29	6.70	6.76	6.57	--	--	6.73	--	--	7.16	--	7.01	--	--	--	6.67	--	6.55	--	--
OZMW-17I	OU-1 Union Boulevard	6.61	5.25	5.25	5.40	5.85	6.23	5.17	6.66	4.27	4.63	6.94	7.10	6.94	--	--	6.97	--	--	7.37	--	7.20	--	--	--	6.84	--	6.83	--	--
OZMW-17I2	OU-1 Union Boulevard	5.59	4.80	4.89	5.06	5.18	5.68	4.38	5.55	3.07	3.07	5.71	6.07	6.17	--	--	6.26	--	--	6.57	--	6.41	--	--	--	6.33	--	6.06	--	--
OZMW-17D	OU-1 Union Boulevard	5.01	4.30	3.94	4.11	4.40	4.65	2.65	4.34	2.02	2.16	4.70	4.85	4.32	--	--	4.84	--	--	5.02	--	4.99	--	--	--	4.59	--	4.48	--	--
OZMW-18S	OU-1 Union Boulevard	--	--	6.1	--	--	6.76	--	--	--	6.55	--	7.19	--	--	--	7.18	--	--	7.31	--	7.27	--	--	--	6.97	--	7.02	--	--
OZMW-18I	OU-1 Union Boulevard	--	--	5.5	--	--	7.00	--	--	--	6.77	--	7.35	--	--	--	7.42	--	--	7.57	--	7.56	--	--	--	7.16	--	7.04	--	--
OZMW-18I2	OU-1 Union Boulevard	5.98	4.73	5.49	4.81	4.83	5.55	4.42	6.00	3.58	3.79	6.38	6.62	6.21	--	--	6.17	--	6.29	--	--	6.45	--	--	--	5.93	--	6.15	--	--
OZMW-18D	OU-1 Union Boulevard	5.18	4.35	4.56	4.32	4.44	5.05	3.23	5.13	2.72	2.74	5.43	5.50	5.21	--	--	5.32	--	5.67	--	--	5.79	--	--	--	5.43	--	5.42	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	4.2	--	--	3.40	--	--	--	4.89	--	4.81	--	--	--	4.60	--	4.75	--	--	6.24	--	--	5.37	--	--	5.61	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	4.9	--	--	4.44	--	--	--	6.05	--	5.80	--	--	--	5.89	--	5.82	--	--	5.89	--	--	5.70	--	--	6.53	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	4.2	--	--	3.68	--	--	--	5.44	--	5.20	--	--	--	5.14	--	5.15	--	--	5.20	--	--	5.09	--	--	5.93	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	4.2	--	--	3.99	--	--	--	5.79	--	5.49	--	--	--	5.37	--	5.31	--	--	5.52	--	--	5.52	--	--	6.07	--	--
Conductivity (mS/cm)																													
OU2MW-57S	66 North Clinton	--	--	0.5	--	--	0.333	--	--	--	0.393	--	0.672	--	--	--	0.508	--	0.401	--	--	0.442	--	--	0.242	--	--	0.461	--	--
OU2MW-57I	66 North Clinton	--	--	0.7	--	--	0.381	--	--	--	0.399	--	0.559	--	--	--	0.335	--	0.331	--	--	0.394	--	--	0.385	--	--	0.523	--	--
OU2MW-57I2	66 North Clinton	--	--	0.9	--	--	0.375	--	--	--	0.438	--	0.748	--	--	--	0.476	--	0.412	--	--	0.521	--	--	0.221	--	--	0.367	--	--
OZMW-16S	OU-1 Union Boulevard	--	--	0.3	--	--	0.508	--	--	--	0.543	--	6.410	--	--	0.269	--	--	0.355	--	--	0.583	--	--	0.599	--	--	0.357	--	--
OZMW-16I	OU-1 Union Boulevard	--	--	0.5	--	--	0.491	--	--	--	0.703	--	0.775	--	--	0.665	--	--	0.713	--	--	0.952	--	--	0.480	--	--	0.718	--	--
OZMW-16I2	OU-1 Union Boulevard	--	--	0.5	--	--	0.302	--	--	--	0.359	--	0.481	--	--	0.688	--	--	0.606	--	--	0.678	--	--	0.645	--	--	0.712	--	--
OZMW-16D	OU-1 Union Boulevard	--	--	0.2	--	--	0.164	--	--	--	0.200	--	0.229	--	--	0.216	--	--	0.251	--	--	0.326	--	--	0.141	--	--	0.227	--	--
OZMW-17S	OU-1 Union Boulevard	0.483	0.474	0.437	0.400	0.522	0.487	0.664	0.443	0.377	0.398	0.509	0.588	0.599	--	--	0.380	--	--	0.546	--	0.379	--	--	--	0.619	--	0.429	--	--
OZMW-17I	OU-1 Union Boulevard	0.529	0.589	0.533	0.585	0.666	0.675	0.494	0.653	0.504	0.543	0.659	0.715	0.692	--	--	0.721	--	--	0.648	--	0.479	--	--	--	0.769	--	0.664	--	--
OZMW-17I2	OU-1 Union Boulevard	0.443	0.507	0.439	0.432	0.464	0.493	0.354	0.427	0.326	0.336	0.457	0.523	0.606	--	--	0.630	--	--	0.540	--	0.347	--	--	--	0.615	--	0.550	--	--
OZMW-17D	OU-1 Union Boulevard	0.254	0.288	0.234	0.295	0.324	0.344	0.271	0.400	0.294	0.251	0.262	0.288	0.317	--	--	0.366	--	--	0.414	--	0.304	--	--	--	0.465	--	0.355	--	--
OZMW-18S	OU-1 Union Boulevard	--	--	0.4	--	--	0.489	--	--	--	0.523	--	0.331	--	--	--	0.597	--	--	0.603	--	0.434	--	--	--	0.559	--	0.640	--	--
OZMW-18I	OU-1 Union Boulevard	--	--	0.5	--	--	0.624	--	--	--	0.698	--	0.499	--	--	--	0.634	--	--	0.608	--	0.468	--	--	--	0.735	--	0.680	--	--
OZMW-18I2	OU-1 Union Boulevard	0.501	0.576	0.463	0.514	0.535	0.585	0.412	0.539	0.415	0.434	0.601	0.673	1.01	--	--	0.719	--	0.515	--	--	0.395	--	--	--	1.530	--	0.619	--	--
OZMW-18D	OU-1 Union Boulevard	0.404	0.472	0.421	0.419	0.452	0.517	0.391	0.366	0.334	0.326	0.443	0.448	0.492	--	--	0.528	--	0.504	--	--	0.333	--	--	--	0.613	--	0.625	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	0.1	--	--	0.163	--	--	--	0.240	--	0.102	--	--	--	0.117	--	0.147	--	--	0.399	--	--	0.115	--	--	0.126	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	0.5	--	--	0.307	--	--	--	0.512	--	0.329	--	--	--	0.519	--	0.438	--	--	0.751	--	--	0.537	--	--	0.538	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	0.4	--	--	0.319	--	--	--	0.482	--	0.277	--	--	--	0.408	--	0.409	--	--	0.673	--	--	0.409	--	--	0.431	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	0.2	--	--	0.115	--	--	--	0.171	--	0.117	--	--	--	0.188	--	0.188	--	--	0.236	--	--	0.109	--	--	0.167	--	--
Dissolved Oxygen (mg/L)																													
OU2MW-57S	66 North Clinton	--	--	7.6	--	--	7.81	--	--	--	6.1	--	5.83	--	--	--	4.85	--	3.00	--	--	2.37	--	--	0.90	--	--	4.82	--	--
OU2MW-57I	66 North Clinton	--	--	0.4	--	--	1.11	--	--	--	2.7	--	3.75	--	--	--	0.70	--	0.68	--	--	3.00	--	--	0.64	--	--	3.34	--	--
OU2MW-57I2	66 North Clinton	--	--	0.5	--	--	0.95	--	--	--	2.7	--	4.16	--	--	--	0.54	--	0.80	--	--	0.67	--	--	1.06	--	--	1.09	--	--
OZMW-16S	OU-1 Union Boulevard	--	--	33.0	--	--	30.14	--	--	--	35.0	--	25.75	--	--	29.60	--	--	36.80	--	--	20.31	--	--	29.49	--	--	31.81	--	--
OZMW-16I	OU-1 Union Boulevard	--	--	40.4	--	--	34.34	--	--	--	40.0	--	27.56	--	--	33.60	--	--	41.50	--	--	28.69	--	--	34.96	--	--	37.55	--	--
OZMW-16I2	OU-1 Union Boulevard	--	--	39.3	--	--	25.93	--	--	--	40.0	--	24.29	--	--	35.00	--	--	26.40	--	--	33.42	--	--	26.97	--	--	30.31	--	--
OZMW-16D	OU-1 Union Boulevard	--	--	15.2	--	--	0.18	--	--	--	0.52	--	3.18	--	--	2.70	--	--	2.00	--	--	0.36	--	--	0.38	--	--	0.87	--	--
OZMW-17S	OU-1 Union Boulevard	19.9	14.1	17.1	17.0	27.2	17.00	16.00	21.00	25.00	23.00	19.00	21.00	15.00	--	--	17.22	--	--	20.00	--	10.00	--	--	--	19.00	--	20	--	--
OZMW-17I	OU-1 Union Boulevard	24.3	20.1	37.3	18.0	40.9	16.00	17.00	25.00	23.00	24.00	21.00	22.00	34.00	--	--	18.89	--	--	24.00	--	23.00	--	--	--	22.00	--	28	--	--
OZMW-17I2	OU-1 Union Boulevard	14.1	15.1	21.0	19.0	46.5	15.00	16.00	20.00	23.00	20.00	24.00	22.00	33.00	--	--	20.43	--	--	26.00	--	22.00	--	--	--	23.00	--	28	--	--
OZMW-17D	OU-1 Union Boulevard	1.20	5.45	26.00	19.00	43.32	21.00	21.00	24.00	25.00	23.00	24.00	24.00	33.00	--	--	20.04	--	--	20.00	--	35.28	--	--	--	24.00	--	27	--	--
OZMW-18S	OU-1 Union Boulevard	--	--	27.0	--	--	38.10	--	--	--	32.0	--	25.08	--	--	--	30.95	--	--	17.00	--	23.21	--	--	--	25.67	--	27	--	--
OZMW-18I	OU-1 Union Boulevard	--	--	27.4	--	--	18.50	--	--	--	14.9	--	14.80	--	--	--	18.32	--	--	16.00	--	13.99	--	--	--	10.39	--	19	--	--
OZMW-18I2	OU-1 Union Boulevard	23.6	16.2	27.0	17.0	34.0	15.00	15.00	28.00	21.00	23.00	22.00	22.00	21.00	--	--	14.75	--	5.00	--	--	21.00	--	--	--	50.00	--	31	--	--
OZMW-18D	OU-1 Union Boulevard	21.0	18.0	25.0	19.0	32.0	17.00	18.00	23.00	19.00	23.00	17.00	17.00	18.00	--	--	15.12	--	21.00	--	--	14.00	--	--	--	19.01	--	19	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	40.3	--	--	33.88	--	--	--	18.0	--	23.69	--	--	--	23.20	--	23.00	--	--	39.00	--	--	31.33	--	--	33.73	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	48.0	--	--	41.50	--	--	--	20.0	--	25.10	--	--	--	28.80	--	21.20	--	--	41.72	--	--	33.46	--	--	33.12	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	47.8	--	--	36.03	--	--	--	6.9	--	17.11	--	--	--	18.00	--	18.10	--	--	0.68	--	--	1.52	--	--	3.69	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	1.2	--	--	3.34	--	--	--	2.2	--	3.34	--	--	--	2.10	--	1.90	--	--	0.37	--	--	0.44	--	--	0.64	--	--
Temperature (degrees Celcius)																													
OU2MW-57S	66 North Clinton	--	--	20.6	--	--	14.62	--	--	--	13.70	--	19.71	--	--	--	16.16	--	11.65	--	--	12.61	--	--	19.68	--	--	20.40	--	--
OU2MW-57I	66 North Clinton	--	--	15.0	--	--	15.17	--	--	--	13.59	--	16.86	--	--	--	14.92	--	13.74	--	--	13.43	--	--	16.44	--	--	17.29	--	--
OU2MW-57I2	66 North Clinton	--	--	14.9	--	--	14.22	--	--	--	14.10	--	17.02	--	--	--	14.02	--	13.44	--	--	14.86	--	--	16.44	--	--	17.10	--	--
OZMW-16S	OU-1 Union Boulevard	--	--	15.8	--	--	12.68	--	--	--	11.39	--	15.81	--	--	17.80	--	--	11.20	--	--	15.94	--	--	16.78	--	--	17.74	--	--
OZMW-16I	OU-1 Union Boulevard	--	--	14.7	--	--	14.28	--	--	--	11.68	--	15.75	--	--	15.58	--	--	12.01	--	--	16.81	--	--	17.06	--	--	16.00	--	--
OZMW-16I2	OU-1 Union Boulevard	--	--	13.2	--	--	13.91	--	--	--	11.75	--	15.67	--	--	16.11	--	--	11.19	--	--	14.66	--	--	17.91	--	--	15.12	--	--
OZMW-16D	OU-1 Union Boulevard	--	--	14.6	--	--	14.07	--	--	--	11.45	--	15.72	--	--	14.79	--	--	10.96	--	--	17.35	--	--	18.12	--	--	13.91	--	--
OZMW-17S	OU-1 Union Boulevard	17.52	18.57	17.08	15.07	14.48	13.17	12.42	11.20	13.65	16.39	21.51	16.97	19.95	--	--	16.71	--	--	11.72	--	12.00	--	--	--	19.42	--	16.97	--	--
OZMW-17I	OU-1 Union Boulevard	16.47	15.54	15.31	14.76	14.25	13.52	14.69	12.80	14.95	16.27	20.82	15.85	16.92	--	--	15.55	--	--	13.46	--	12.87	--	--	--	16.62	--	15.18	--	--
OZMW-17I2	OU-1 Union Boulevard	16.58	15.61	14.95	14.00	13.45	12.65	13.97	12.70	15.23	16.35	19.56	15.27	18.32	--	--	14.04	--	--	12.44	--	13.11	--	--	--	17.01	--	14.18	--	--
OZMW-17D	OU-1 Union Boulevard	16.05	15.05	13.48	13.68	13.14	12.18	13.91	12.30	15.09	16.62	18.34	14.88	20.02	--	--	13.69	--	--	12.15	--	13.08	--	--	--	16.92	--	13.91	--	--
OZMW-18S	OU-1 Union Boulevard	--	--	17.2	--	--	11.40	--	--	--	11.28	--	17.81	--	--	--	15.27	--	--	13.13	--	13.54	--	--	--	18.14	--	17.23	--	--
OZMW-18I	OU-1 Union Boulevard	--	--	15.9	--	--	12.30	--	--	--	11.79	--	15.75	--	--	--	14.45	--	--	13.52	--	14.54	--	--	--	17.69	--	15.86	--	--
OZMW-18I2	OU-1 Union Boulevard	15.49	15.28	14.72	14.30	14.32	13.55	14.73	12.70	15.26	15.98	17.65	15.60	17.54	--	--	14.60	--	14.02	--	--	14.59	--	--	--	15.55	--	15.25	--	--
OZMW-18D	OU-1 Union Boulevard	18.15	14.98	15.15	13.89	13.68	12.71	14.55	9.70	15.34	15.97	16.14	15.54	17.27	--	--	14.34	--	13.92	--	--	14.88	--	--	--	14.19	--	14.56	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	15.7	--	--	13.26	--	--	--	13.67	--	20.21	--	--	--	16.18	--	11.41	--	--	12.85	--	--	19.80	--	--	19.06	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	12.6	--	--	14.68	--	--	--	15.09	--	18.64	--	--	--	13.27	--	12.32	--	--	15.24	--	--	17.02	--	--	17.03	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	14.6	--	--	13.61	--	--	--	14.52	--	17.97	--	--	--	13.59	--	11.44	--	--	15.24	--	--	17.52	--	--	16.22	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	14.2	--	--	13.55	--	--	--	14.8	--	17.68	--	--	--	13.82	--	11.28	--	--	14.34	--	--	18.51	--	--	15.86	--	--

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2015					2016												2017											
		Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17
pH (SU)																														
Oxidation Reduction Potential (mV)																														
OU2MW-57S	66 North Clinton	--	--	27.0	--	--	69	--	--	--	-38	--	-45.00	--	--	--	-71	--	-13	--	--	2	--	--	-41	--	--	-33	--	--
OU2MW-57I	66 North Clinton	--	--	170.0	--	--	91	--	--	--	108	--	145.00	--	--	--	101	--	136	--	--	217	--	--	185	--	--	184	--	--
OU2MW-57I2	66 North Clinton	--	--	168.0	--	--	81	--	--	--	227	--	185.00	--	--	--	125	--	224	--	--	152	--	--	222	--	--	222	--	--
OZMW-16S	OU-1 Union Boulevard	--	--	118.0	--	--	286	--	--	--	154	--	136.00	--	--	185	--	--	172	--	--	147	--	--	207	--	--	114	--	--
OZMW-16I	OU-1 Union Boulevard	--	--	89.0	--	--	294	--	--	--	156	--	201.00	--	--	237	--	--	153	--	--	252	--	--	155	--	--	189	--	--
OZMW-16I2	OU-1 Union Boulevard	--	--	145.0	--	--	328	--	--	--	200	--	222.00	--	--	239	--	--	160	--	--	141	--	--	233	--	--	191	--	--
OZMW-16D	OU-1 Union Boulevard	--	--	139.0	--	--	239	--	--	--	143	--	144.00	--	--	113	--	--	115	--	--	133	--	--	131	--	--	93	--	--
OZMW-17S	OU-1 Union Boulevard	255	213	77	275	233	184	276	146	295	172	141	212.00	154.00	--	--	112	--	--	185	--	157	--	--		149	--	177	--	--
OZMW-17I	OU-1 Union Boulevard	230	211	204	258	227	185	271	120	255	195	149	240.00	202.00	--	--	134	--	--	203	--	166	--	--		165	--	150	--	--
OZMW-17I2	OU-1 Union Boulevard	278	253	224	282	264	215	317	160	338	290	210	266.00	227.00	--	--	174	--	--	243	--	225	--	--		197	--	189	--	--
OZMW-17D	OU-1 Union Boulevard	56	109	166	260	286	217	247	168	226	204	187	179.00	242.00	--	--	149	--	--	129	--	219	--	--		183	--	199	--	--
OZMW-18S	OU-1 Union Boulevard	--	--	126.0	--	--	176	--	--	--	147	--	185.00	--	--	--	103	--	--	94	--	258	--	--		148	--	118	--	--
OZMW-18I	OU-1 Union Boulevard	--	--	195.0	--	--	170	--	--	--	126	--	145.00	--	--	--	97	--	--	88	--	230	--	--		143	--	168	--	--
OZMW-18I2	OU-1 Union Boulevard	187	165	168	239	182	175	283	125	261	225	156	165.00	229.00	--	--	120	--	162	--	--	282	--	--		187	--	203	--	--
OZMW-18D	OU-1 Union Boulevard	105	108	104	185	175	135	169	176	132	115	64	68.00	68.00	--	--	78	--	102	--	--	130	--	--		57	--	34	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	280.0	--	--	443	--	--	--	397	--	340.00	--	--	--	305	--	274	--	--	289	--	--	258	--	--	294	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	184.0	--	--	252	--	--	--	311	--	279.00	--	--	--	225	--	183	--	--	214	--	--	253	--	--	216	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	218.0	--	--	397	--	--	--	300	--	267.00	--	--	--	230	--	190	--	--	190	--	--	196	--	--	209	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	133.0	--	--	119	--	--	--	44	--	12.00	--	--	--	11	--	11	--	--	39	--	--	36	--	--	42	--	--

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2018								2019				2020			2021		Baseline Average	Historical Average	Q4 2020 - Q2 2021 Average
		Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q3	Q4	Q1	Q2			
pH (SU)																					
OU2MW-57S	66 North Clinton	5.76	--	--	5.49	--	--	6.14	6.09	5.85	5.74	6.36	6.49	6.39	5.95	5.99	6.32	5.55	**NS**	**5.89**	**5.95**
OU2MW-57I	66 North Clinton	5.47	--	--	5.77	--	--	6.16	6.03	6.03	6.46	6.38	5.74	6.07	6.15	5.95	6.27	5.68	**NS**	**5.74**	**5.97**
OU2MW-57I2	66 North Clinton	5.41	--	--	5.45	--	--	5.52	5.60	5.34	5.68	5.27	5.18	5.52	5.39	5.49	5.61	4.79	**NS**	**5.63**	**5.30**
OZMW-16S	OU-1 Union Boulevard	6.47	--	--	7.02	--	--	7.03	7.22	6.43	7.41	7.28	7.57	6.90	6.85	6.92	6.98	6.99	**6.32**	**6.65**	**6.96**
OZMW-16I	OU-1 Union Boulevard	6.75	--	--	7.29	--	--	7.04	6.20	6.78	7.25	7.70	7.86	7.41	7.12	7.13	7.13	7.13	**5.95**	**6.65**	**7.13**
OZMW-16I2	OU-1 Union Boulevard	5.60	--	--	6.21	--	--	6.25	6.46	5.3	5.56	5.98	6.44	5.73	5.48	6.35	6.31	6.67	**5.46**	**5.96**	**6.44**
OZMW-16D	OU-1 Union Boulevard	4.61	--	--	4.90	--	--	4.89	5.34	4.22	5.15	5.21	4.98	4.70	4.92	5.10	6.80	6.48	**5.08**	**4.77**	**6.13**
OZMW-17S	OU-1 Union Boulevard	6.36	--	--	--	6.01	--	6.78	6.82	6.29	7.07	7.33	6.93	7.21	6.70	6.78	6.80	6.63	**6.61**	**6.48**	**6.74**
OZMW-17I	OU-1 Union Boulevard	6.73	--	--	--	7.22	--	7.06	6.99	6.68	7.40	7.69	7.01	7.68	7.11	7.09	7.27	7.09	**6.54**	**6.70**	**7.15**
OZMW-17I2	OU-1 Union Boulevard	5.76	--	--	--	6.35	--	6.36	6.65	5.69	6.18	6.30	6.72	6.70	5.83	5.93	6.03	5.64	**5.66**	**5.80**	**5.87**
OZMW-17D	OU-1 Union Boulevard	4.70	--	--	--	4.95	--	5.02	5.20	4.54	5.40	5.51	5.12	5.54	5.16	5.08	5.23	4.99	**5.49**	**5.13**	**5.10**
OZMW-18S	OU-1 Union Boulevard	--	6.66	--	--	7.23	--	7.02	7.14	7.12	7.26	7.70	7.07	7.25	7.05	7.37	7.35	6.80	**6.08**	**6.82**	**7.17**
OZMW-18I	OU-1 Union Boulevard	--	7.02	--	--	7.45	--	7.39	7.42	6.37	7.19	7.92	8.09	7.49	7.35	7.56	7.46	7.04	**6.52**	**6.98**	**7.35**
OZMW-18I2	OU-1 Union Boulevard	--	5.98	--	--	6.36	--	6.66	6.53	5.35	6.25	6.89	6.08	6.21	5.94	6.08	6.59	5.52	**6.61**	**5.99**	**6.06**
OZMW-18D	OU-1 Union Boulevard	--	5.35	--	--	5.51	--	5.21	5.09	5.23	5.73	5.87	6.07	5.53	5.55	5.55	5.87	4.96	**5.92**	**5.25**	**5.46**
OU2MW-50S	OU-1 Union Boulevard (Ext.)	4.93	--	--	5.14	--	--	5.61	5.80	5.67	5.65	5.63	5.94	5.11	5.63	5.55	6.04	6.43	**5.87**	**5.44**	**6.01**
OU2MW-50I	OU-1 Union Boulevard (Ext.)	5.38	--	--	5.99	--	--	5.98	5.78	6.6	6.96	7.12	7.17	6.49	7.12	6.09	6.62	6.93	**5.49**	**5.82**	**6.55**
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	4.82	--	--	5.37	--	--	5.31	5.33	5.49	5.10	5.74	5.15	5.45	5.25	5.05	5.47	5.54	**4.85**	**5.06**	**5.35**
OU2MW-50D	OU-1 Union Boulevard (Ext.)	5.15	--	--	5.32	--	--	5.48	5.73	5.52	5.51	5.98	5.36	5.51	5.49	4.38	5.08	5.74	**5.35**	**5.40**	**5.07**
Conductivity (mS/cm)																					
OU2MW-57S	66 North Clinton	0.411	--	--	0.191	--	--	0.215	0.307	0.214	0.210	0.248	0.450	0.233	0.295	0.237	0.195	0.175	**NS**	**0.413**	**0.20**
OU2MW-57I	66 North Clinton	0.546	--	--	0.245	--	--	0.408	0.356	0.448	0.490	0.466	0.542	0.508	0.394	0.310	0.378	0.320	**NS**	**0.455**	**0.34**
OU2MW-57I2	66 North Clinton	0.358	--	--	0.177	--	--	0.161	0.265	0.309	0.398	0.230	0.257	0.365	0.315	0.376	0.335	0.278	**NS**	**0.469**	**0.33**
OZMW-16S	OU-1 Union Boulevard	0.540	--	--	0.350	--	--	0.233	0.220	0.241	0.339	0.201	0.178	0.277	0.190	0.211	0.002	0.420	**0.645**	**0.570**	**0.21**
OZMW-16I	OU-1 Union Boulevard	0.898	--	--	0.479	--	--	0.486	0.369	0.572	0.824	0.549	0.371	0.623	0.533	0.438	0.004	0.593	**0.656**	**0.688**	**0.35**
OZMW-16I2	OU-1 Union Boulevard	0.725	--	--	0.360	--	--	0.363	0.387	0.303	0.469	0.279	0.337	0.299	0.327	0.403	0.001	0.305	**0.634**	**0.503**	**0.24**
OZMW-16D	OU-1 Union Boulevard	0.253	--	--	0.164	--	--	0.141	0.151	0.198	0.204	0.140	0.157	0.178	0.162	0.085	0.000	0.022	**2.190**	**0.221**	**0.04**
OZMW-17S	OU-1 Union Boulevard	0.813	--	--	--	0.387	--	0.325	0.386	0.444	0.679	0.402	0.355	0.455	0.298	0.333	0.811	0.424	**0.768**	**0.555**	**0.52**
OZMW-17I	OU-1 Union Boulevard	0.865	--	--	--	0.583	--	0.532	0.480	0.555	0.665	0.455	0.390	0.564	0.480	0.503	0.506	0.420	**0.601**	**0.646**	**0.48**
OZMW-17I2	OU-1 Union Boulevard	0.792	--	--	--	0.332	--	0.303	0.437	0.393	0.521	0.368	0.385	0.489	0.345	0.351	0.518	0.286	**0.382**	**0.502**	**0.39**
OZMW-17D	OU-1 Union Boulevard	0.359	--	--	--	0.178	--	0.200	0.220	0.18	0.230	0.198	0.175	0.278	0.265	0.252	0.250	0.193	**0.983**	**0.334**	**0.23**
OZMW-18S	OU-1 Union Boulevard	--	0.237	--	--	0.327	--	0.292	0.371	0.384	0.482	0.309	0.267	0.479	0.343	0.441	0.420	0.361	**0.641**	**0.496**	**0.41**
OZMW-18I	OU-1 Union Boulevard	--	0.754	--	--	0.370	--	0.454	0.467	0.496	0.699	0.502	0.494	0.549	0.463	0.518	0.447	0.380	**0.572**	**0.632**	**0.45**
OZMW-18I2	OU-1 Union Boulevard	--	0.757	--	--	0.359	--	0.369	0.446	0.469	0.567	0.452	0.318	0.492	0.429	0.480	0.389	0.337	**0.654**	**0.577**	**0.40**
OZMW-18D	OU-1 Union Boulevard	--	0.686	--	--	0.327	--	0.283	0.456	0.457	0.484	0.321	0.433	0.498	0.387	0.441	0.348	0.323	**1.910**	**0.583**	**0.37**
OU2MW-50S	OU-1 Union Boulevard (Ext.)	0.207	--	--	0.143	--	--	0.119	0.157	0.14	0.224	0.138	0.097	0.158	0.098	0.141	0.150	0.196	**0.240**	**0.220**	**0.16**
OU2MW-50I	OU-1 Union Boulevard (Ext.)	0.524	--	--	0.342	--	--	0.293	0.395	0.502	0.652	0.519	0.599	0.645	0.194	0.508	0.526	0.568	**0.493**	**0.486**	**0.53**
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	0.582	--	--	0.302	--	--	0.294	0.393	0.234	0.407	0.292	0.257	0.495	0.290	0.388	0.368	0.358	**0.269**	**0.411**	**0.37**
OU2MW-50D	OU-1 Union Boulevard (Ext.)	0.182	--	--	0.101	--	--	0.088	0.149	0.105	0.188	0.133	0.104	0.160	0.111	0.150	0.138	0.127	**0.505**	**0.236**	**0.14**
Dissolved Oxygen (mg/L)																					
OU2MW-57S	66 North Clinton	0.85	--	--	1.97	--	--	0.64	2.55	0	0.00	1.76	4.84	0.00	3.35	2.06	0.35	7.42	**NS**	**3.02**	**3.28**
OU2MW-57I	66 North Clinton	1.74	--	--	1.45	--	--	0.00	0.00	1.96	0.00	3.82	0.85	3.22	0.64	2.65	0.34	9.75	**NS**	**2.11**	**4.25**
OU2MW-57I2	66 North Clinton	1.76	--	--	1.61	--	--	1.29	0.00	0	0.00	1.45	0.82	0.58	0.18	1.04	0.00	5.35	**NS**	**1.10**	**2.13**
OZMW-16S	OU-1 Union Boulevard	22.46	--	--	17.96	--	--	34.14	33.54	35.72	29.11	26.88	40.54	37.82	28.01	25.31	20.82	30.40	**19.3**	**29.76**	**25.51**
OZMW-16I	OU-1 Union Boulevard	24.40	--	--	19.00	--	--	37.62	22.95	47.59	28.18	29.43	50.00	31.23	33.47	31.76	23.25	42.46	**26.0**	**33.67**	**32.49**
OZMW-16I2	OU-1 Union Boulevard	5.57	--	--	10.22	--	--	28.39	30.08	25.98	19.42	17.81	43.97	27.60	31.50	26.60	15.99	12.02	**0.7**	**18.07**	**18.20**
OZMW-16D	OU-1 Union Boulevard	0.67	--	--	0.00	--	--	0.00	0.00	0	0.00	0.00	0.00	0.17	0.04	2.14	8.22	1.42	**0.0**	**1.29**	**3.93**
OZMW-17S	OU-1 Union Boulevard	10.00	--	--	--	16.00	--	26.00	13.00	16.46	21.00	19.00	17.00	28.00	24.00	20.00	24.29	4.00	**12.8**	**19.02**	**16.10**
OZMW-17I	OU-1 Union Boulevard	11.00	--	--	--	20.00	--	26.00	7.00	25.52	25.00	29.00	27.00	26.00	25.00	27.00	17.86	2.00	**16.1**	**25.96**	**15.62**
OZMW-17I2	OU-1 Union Boulevard	16.00	--	--	--	19.00	--	27.00	18.00	25	22.00	27.00	33.00	22.00	26.00	25.00	17.18	10.00	**3.1**	**12.03**	**17.39**
OZMW-17D	OU-1 Union Boulevard	11.00	--	--	--	17.00	--	14.88	31.00	22	23.00	21.00	32.00	21.00	24.00	29.00	19.18	3.00	**0.1**	**7.52**	**17.06**
OZMW-18S	OU-1 Union Boulevard	--	19.21	--	--	19.19	--	15.49	24.00	11	29.87	28.56	21.38	37.33	24.67	24.92	23.81	16.90	**17.6**	**25.16**	**21.88**
OZMW-18I	OU-1 Union Boulevard	--	12.68	--	--	10.45	--	9.55	16.00	16	24.92	11.58	13.89	17.90	14.05	12.71	25.33	9.39	**3.5**	**16.60**	**15.81**
OZMW-18I2	OU-1 Union Boulevard	--	19.00	--	--	27.00	--	9.83	19.00	16	18.00	23.00	19.00	21.00	26.00	19.00	10.00	5.00	**1.3**	**19.07**	**11.33**
OZMW-18D	OU-1 Union Boulevard	--	1.00	--	--	14.00	--	11.43	21.00	20	17.00	16.00	23.00	17.00	20.00	21.00	25.97	4.00	**0.0**	**15.04**	**16.99**
OU2MW-50S	OU-1 Union Boulevard (Ext.)	22.52	--	--	17.70	--	--	18.75	30.15	29.52	35.16	28.85	36.51	45.41	22.08	30.49	39.18	25.55	**0.3**	**27.47**	**31.74**
OU2MW-50I	OU-1 Union Boulevard (Ext.)	36.64	--	--	24.38	--	--	21.51	50.00	42.54	50.00	32.66	46.77	47.86	28.24	38.20	22.00	30.19	**0.2**	**24.21**	**30.13**
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	1.59	--	--	10.53	--	--	9.92	15.90	4.17	0.23	0.00	0.25	24.16	6.75	1.97	13.51	14.20	**5.1**	**9.99**	**9.89**
OU2MW-50D	OU-1 Union Boulevard (Ext.)	0.55	--	--	0.45	--	--	0.00	0.33	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.3**	**1.07**	**0.00**
Temperature (degrees Celcius)																					
OU2MW-57S	66 North Clinton	12.28	--	--	13.98	--	--	21.80	17.31	11.54	14.17	20.96	20.07	11.27	20.36	18.71	13.35	12.39	**NS**	**16.2**	**14.82**
OU2MW-57I	66 North Clinton	14.44	--	--	16.22	--	--	18.04	14.07	11.09	13.56	14.91	16.07	14.71	16.16	16.44	15.24	13.22	**NS**	**15.0**	**14.97**
OU2MW-57I2	66 North Clinton	14.45	--	--	16.42	--	--	20.16	15.25	12.86	14.39	15.70	15.23	13.61	15.44	15.34	14.55	13.76	**NS**	**15.1**	**14.55**
OZMW-16S	OU-1 Union Boulevard	11.12	--	--	14.85	--	--	19.25	17.64	11.26	11.95	16.64	17.06	11.96	18.14	15.82	11.70	11.99	**14.8**	**14.6**	**13.17**
OZMW-16I	OU-1 Union Boulevard	12.14	--	--	16.27	--	--	18.59	17.11	12.08	13.40	15.90	15.02	12.14	16.79	14.29	12.07	17.76	**14.4**	**14.6**	**14.71**
OZMW-16I2	OU-1 Union Boulevard	12.18	--	--	16.60	--	--	18.69	13.01	11.94	13.75	20.26	14.86	11.28	17.09	13.62	10.37	12.91	**14.0**	**14.4**	**12.30**
OZMW-16D	OU-1 Union Boulevard	11.36	--	--	16.76	--	--	19.11	14.95	11.57	13.95	20.19	14.96	11.81	17.27	13.72	14.28	13.07	**13.6**	**14.4**	**13.69**
OZMW-17S	OU-1 Union Boulevard	11.01	--	--	--	15.61	--	20.20	16.05	16.46	12.48	16.75	18.43	12.59	17.88	16.53	12.99	12.62	**15.2**	**15.1**	**14.05**
OZMW-17I	OU-1 Union Boulevard	12.74	--	--	--	17.25	--	24.67	14.45	12.85	13.72	17.00	15.99	13.75	15.86	15.24	13.96	14.80	**14.8**	**14.7**	**14.67**
OZMW-17I2	OU-1 Union Boulevard	12.10	--	--	--	18.04	--	24.10	13.57	11.39	15.47	17.06	16.11	12.36	15.64	14.26	11.49	14.05	**14.6**	**14.3**	**13.27**
OZMW-17D	OU-1 Union Boulevard	11.15	--	--	--	18.39	--	21.21	13.55	11.53	14.10	18.70	16.08	11.60	15.47	13.68	13.10	13.59	**14.2**	**14.4**	**13.46**
OZMW-18S	OU-1 Union Boulevard	--	11.77	--	--	15.46	--	21.51	16.34	8.23	12.07	17.30	18.52	12.88	18.66	16.06	13.33	12.35	**14.5**	**14.9**	**13.91**
OZMW-18I	OU-1 Union Boulevard	--	12.63	--	--	16.81	--	19.61	14.70	12.35	13.55	16.15	17.05	13.79	16.14	15.43	13.95	13.14	**14.5**	**15.0**	**14.17**
OZMW-18I2	OU-1 Union Boulevard	--	12.52	--	--	17.45	--	19.14	13.77	12.15	13.38	16.22	16.67	11.73	17.83	14.72	12.47	13.74	**15.1**	**14.5**	**13.64**
OZMW-18D	OU-1 Union Boulevard	--	12.17	--	--	17.45	--	21.45	13.05	11.77	13.21	18.68	17.07	12.30	17.52	14.78	13.01	13.85	**14.1**	**14.5**	**13.88**
OU2MW-50S	OU-1 Union Boulevard (Ext.)	14.00	--	--	12.85	--	--	21.43	17.47	12.34	13.79	17.76	18.47	12.08	25.88	14.51	12.31	13.10	**10.4**	**14.9**	**13.31**
OU2MW-50I	OU-1 Union Boulevard (Ext.)	13.11	--	--	15.81	--	--	22.49	13.88	12.33	15.09	17.64	16.48	13.37	23.81	14.72	12.90	14.56	**12.4**	**14.9**	**14.06**
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	11.92	--	--	16.10	--	--	21.41	13.79	13.22	15.38	19.91	16.70	12.28	25.01	13.99	12.71	14.20	**13.1**	**14.7**	**13.63**
OU2MW-50D	OU-1 Union Boulevard (Ext.)	11.93	--	--	15.68	--	--	21.88	14.14	12.97	15.49	17.80	16.72	12.21	25.59	12.44	12.73	13.80	**12.1**	**14.5**	**12.99**

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2018								2019				2020			2021		Baseline Average	Historical Average	Q4 2020 - Q2 2021 Average
		Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q3	Q4	Q1	Q2			
pH (SU)																					
Oxidation Reduction Potential (mV)																					
OU2MW-57S	66 North Clinton	-78	--	--	167	--	--	-4	11	12	12	-17	-70	291	-22	54	-28	73	**NS**	**-11**	**33**
OU2MW-57I	66 North Clinton	95	--	--	203	--	--	194	210	250	112	164	218	118	133	146	134	140	**NS**	**142**	**140**
OU2MW-57I2	66 North Clinton	148	--	--	257	--	--	299	281	178	137	271	307	177	228	264	243	38	**NS**	**170**	**182**
OZMW-16S	OU-1 Union Boulevard	-84	--	--	307	--	--	227	214	209	203	243	197	139	287	267	149	208	**106**	**175**	**208**
OZMW-16I	OU-1 Union Boulevard	103	--	--	277	--	--	229	200	225	264	229	201	435	283	268	187	164	**187**	**202**	**206**
OZMW-16I2	OU-1 Union Boulevard	125	--	--	287	--	--	247	275	254	289	252	190	485	276	283	186	207	**80**	**134**	**225**
OZMW-16D	OU-1 Union Boulevard	89	--	--	234	--	--	157	167	166	139	127	99	113	123	197	72	138	**65**	**134**	**136**
OZMW-17S	OU-1 Union Boulevard	83	--	--	--	349	--	148	107	142	216	133	134	133	175	213	177	191	**33**	**153**	**194**
OZMW-17I	OU-1 Union Boulevard	82	--	--	--	288	--	213	208	187	194	241	385	135	304	265	191	208	**61**	**173**	**221**
OZMW-17I2	OU-1 Union Boulevard	150	--	--	--	317	--	277	194	240	327	269	218	440	336	302	239	259	**107**	**197**	**267**
OZMW-17D	OU-1 Union Boulevard	128	--	--	--	280	--	199	182	171	153	108	166	460	146	201	139	130	**32**	**98**	**157**
OZMW-18S	OU-1 Union Boulevard	--	117	--	--	208	--	249	223	212	206	148	266	156	160	175	133	86	**51**	**160**	**131**
OZMW-18I	OU-1 Union Boulevard	--	102	--	--	175	--	115	177	172	160	229	117	147	181	155	145	99	**-48**	**141**	**133**
OZMW-18I2	OU-1 Union Boulevard	--	102	--	--	200	--	189	145	152	94	145	181	431	207	136	171	163	**-81**	**172**	**157**
OZMW-18D	OU-1 Union Boulevard	--	0	--	--	191	--	142	152	100	55	65	36	449	76	69	60	72	**-53**	**79**	**67**
OU2MW-50S	OU-1 Union Boulevard (Ext.)	221	--	--	371	--	--	298	238	275	248	268	229	242	278	171	237	244	**-76**	**231**	**217**
OU2MW-50I	OU-1 Union Boulevard (Ext.)	-210	--	--	363	--	--	286	270	224	202	229	215	206	281	222	205	207	**126**	**188**	**211**
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	190	--	--	332	--	--	327	277	229	273	210	265	461	264	247	255	280	**74**	**226**	**261**
OU2MW-50D	OU-1 Union Boulevard (Ext.)	-18	--	--	156	--	--	63	61	67	36	43	39	254	23	73	77	96	**-46**	**45**	**82**

Appendix E - Table E-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2004			2005							2006												2007			
		Apr-04	Aug-04	Dec-04	Mar-05	Jun-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07
pH (SU)																											
OU2MW-30S	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	Montauk Highway	--	--	--	--	--	6.88	--	--	--	--	--	6.97	6.62	--	--	6.81	--	--	6.72	--	7.15	--	--	--	6.26	--
OU2MW-02I	Montauk Highway	--	--	--	--	--	6.12	--	--	--	--	--	6.23	--	--	--	6.22	--	--	6.26	--	6.61	--	--	--	5.48	--
OU2MW-02I2	Montauk Highway	--	--	--	--	--	6.14	--	--	--	--	--	6.33	--	--	--	5.83	--	--	6.11	--	6.43	--	--	--	6.20	--
OU2MW-02D	Montauk Highway	--	--	--	--	--	5.74	--	--	--	--	--	5.69	--	--	--	4.97	--	--	5.27	--	--	--	--	--	5.40	--
Conductivity (mS/cm)																											
OU2MW-30S	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	Montauk Highway	--	--	--	--	--	0.405	--	--	--	--	--	0.565	0.885	--	--	0.514	--	--	0.406	--	0.444	--	--	--	0.432	--
OU2MW-02I	Montauk Highway	--	--	--	--	--	0.178	--	--	--	--	--	0.263	--	--	--	0.199	--	--	0.201	--	0.230	--	--	--	0.271	--
OU2MW-02I2	Montauk Highway	--	--	--	--	--	0.122	--	--	--	--	--	0.100	--	--	--	0.067	--	--	0.064	--	0.068	--	--	--	0.087	--
OU2MW-02D	Montauk Highway	--	--	--	--	--	0.037	--	--	--	--	--	0.049	--	--	--	0.036	--	--	0.036	--	--	--	--	--	0.050	--
Dissolved Oxygen (mg/L)																											
OU2MW-30S	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	Montauk Highway	--	--	--	--	--	1.8	--	--	--	--	--	0.0	0.0	--	--	1.1	--	--	0.0	--	0.0	--	--	--	20.0	--
OU2MW-02I	Montauk Highway	--	--	--	--	--	0.4	--	--	--	--	--	0.0	--	--	--	1.6	--	--	0.0	--	0.0	--	--	--	0.0	--
OU2MW-02I2	Montauk Highway	--	--	--	--	--	0.5	--	--	--	--	--	0.0	--	--	--	1.5	--	--	0.0	--	0.0	--	--	--	0.0	--
OU2MW-02D	Montauk Highway	--	--	--	--	--	0.9	--	--	--	--	--	0.0	--	--	--	1.6	--	--	0.0	--	--	--	--	--	0.0	--
Temperature (degrees Celcius)																											
OU2MW-30S	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	Montauk Highway	--	--	--	--	--	16.7	--	--	--	--	--	11.8	13.5	--	--	16.3	--	--	17.8	--	17.2	--	--	--	11.5	--

Appendix E - Table E-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2004			2005							2006												2007			
		Apr-04	Aug-04	Dec-04	Mar-05	Jun-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07
OU2MW-02I	Montauk Highway	--	--	--	--	--	18.0	--	--	--	--	--	12.4	--	--	--	16.1	--	--	16.6	--	14.0	--	--	--	11.1	--
OU2MW-02I2	Montauk Highway	--	--	--	--	--	16.0	--	--	--	--	--	11.7	--	--	--	15.2	--	--	17.9	--	15.1	--	--	--	13.0	--
OU2MW-02D	Montauk Highway	--	--	--	--	--	17.2	--	--	--	--	--	11.6	--	--	--	14.4	--	--	19.9	--	--	--	--	--	11.2	--
Oxidation Reduction Potential (mV)																											
OU2MW-30S	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	Montauk Highway	--	--	--	--	--	-183	--	--	--	--	--	-155	-115	--	--	-176	--	--	-145	--	-131	--	--	--	57	--
OU2MW-02I	Montauk Highway	--	--	--	--	--	101	--	--	--	--	--	51	--	--	--	69	--	--	118.2	--	40	--	--	--	52	--
OU2MW-02I2	Montauk Highway	--	--	--	--	--	-6	--	--	--	--	--	-33	--	--	--	-15	--	--	-25	--	-3	--	--	--	-25	--
OU2MW-02D	Montauk Highway	--	--	--	--	--	69	--	--	--	--	--	26	--	--	--	105	--	--	85	--	--	--	--	--	65	--

Appendix E - Table E-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2007								2008												2009								
		May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Baseline Jan-09	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09
pH (SU)																														
OU2MW-30S	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.24	--	--	6.58	--	--	6.01	5.90	6.39	5.97	5.68	6.34	5.99
OU2MW-30I	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.63	--	--	7.03	--	--	6.27	6.16	6.30	6.05	5.95	6.12	5.97
OU2MW-30I2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.53	--	--	6.95	--	--	6.15	6.04	6.37	5.80	5.78	6.21	5.90
OU2MW-30I3	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.09	--	--	6.50	--	--	5.72	5.72	6.14	6.10	5.01	6.00	5.70
OU2MW-30D	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.00	--	--	6.34	--	--	5.64	5.59	6.10	6.04	4.72	5.93	5.63
OU2MW-30D2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.21	--	--	6.49	--	--	5.76	5.67	5.82	5.66	4.85	5.86	5.88
OU2MW-39S	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.67	6.03	5.57	5.68	6.09	5.85
OU2MW-39I	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.49	6.39	5.71	5.74	5.94	5.83
OU2MW-39I2	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.60	4.95	5.81	4.76	4.92	4.78
OU2MW-39D	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.97	5.38	4.95	5.11	5.30	5.14
OU2MW-47S	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.33	6.09	5.78	5.44	5.90	5.55	5.40	4.34	5.28
OU2MW-47I	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.55	6.25	6.18	5.84	6.38	6.41	5.98	4.70	6.02
OU2MW-47I2	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.28	6.16	6.16	5.91	6.26	6.09	6.13	4.86	5.97
OU2MW-47D	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.55	5.42	5.35	5.19	5.63	5.80	5.67	4.65	5.52
OU2MW-19I	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.48
OU2MW-19I2	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.87
OU2MW-02S	Montauk Highway	6.49	--	--	--	6.63	--	6.29	--	--	6.40	--	--	6.32	--	--	--	6.12	--	6.27	--	--	--	5.92	--	--	6.35	--	--	--
OU2MW-02I	Montauk Highway	6.06	--	--	--	6.61	--	6.16	--	--	5.98	--	--	5.74	--	--	--	6.19	--	6.31	--	--	--	6.01	--	--	6.34	--	--	--
OU2MW-02I2	Montauk Highway	5.99	--	--	--	6.46	--	6.16	--	--	6.01	--	--	6.30	--	--	--	5.98	--	6.16	--	--	--	5.96	--	--	5.87	--	--	--
OU2MW-02D	Montauk Highway	5.64	--	--	--	5.64	--	5.34	--	--	5.50	--	--	5.07	--	--	--	5.33	--	5.80	--	--	--	5.36	--	--	5.52	--	--	--
Conductivity (mS/cm)																														
OU2MW-30S	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.627	--	--	0.434	--	--	0.393	0.420	0.391	0.412	0.278	0.297	0.322
OU2MW-30I	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.905	--	--	0.522	--	--	0.511	0.535	0.596	0.718	0.530	0.633	0.702
OU2MW-30I2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.379	--	--	0.463	--	--	0.431	0.457	0.429	0.538	0.565	0.595	0.710
OU2MW-30I3	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.904	--	--	0.589	--	--	0.689	0.730	0.595	0.474	0.616	0.507	0.587
OU2MW-30D	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.343	--	--	0.582	--	--	0.638	0.661	0.590	0.477	0.748	0.536	0.609
OU2MW-30D2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.642	--	--	0.482	--	--	0.560	0.607	0.451	0.388	0.525	0.433	0.444
OU2MW-39S	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.211	0.242	0.235	0.382	0.387	0.342
OU2MW-39I	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.408	0.649	0.491	0.691	0.612	0.692
OU2MW-39I2	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.233	0.342	0.351	0.327	0.383	0.573
OU2MW-39D	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.133	0.138	0.018	0.429	0.600	0.615
OU2MW-47S	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.303	0.350	0.265	0.320	0.256	0.177	0.263	0.268	0.222
OU2MW-47I	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.640	0.960	0.662	1.020	0.722	0.502	0.674	0.565	0.359
OU2MW-47I2	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.490	0.719	0.446	0.530	0.513	0.462	0.399	0.575	0.547
OU2MW-47D	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.341	0.503	0.386	0.434	0.376	0.276	0.279	0.460	0.434
OU2MW-19I	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.708
OU2MW-19I2	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.270
OU2MW-02S	Montauk Highway	0.654	--	--	--	0.390	--	0.448	--	--	0.453	--	--	0.467	--	--	--	0.913	--	0.596	--	--	--	0.479	--	--	0.412	--	--	--
OU2MW-02I	Montauk Highway	0.301	--	--	--	0.186	--	0.237	--	--	0.230	--	--	0.201	--	--	--	0.460	--	0.271	--	--	--	0.279	--	--	0.279	--	--	--
OU2MW-02I2	Montauk Highway	0.093	--	--	--	0.072	--	0.071	--	--	0.080	--	--	0.064	--	--	--	0.152	--	0.930	--	--	--	0.104	--	--	0.070	--	--	--
OU2MW-02D	Montauk Highway	0.042	--	--	--	0.038	--	0.035	--	--	0.039	--	--	0.046	--	--	--	0.078	--	0.057	--	--	--	0.063	--	--	0.042	--	--	--
Dissolved Oxygen (mg/L)																														
OU2MW-30S	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--	0.0	0.0	22.0	21.0	13.7	11.6	23.0
OU2MW-30I	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--	0.0	1.0	25.0	18.1	10.6	16.2	27.0
OU2MW-30I2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	--	--	0.0	--	--	0.0	2.1	42.0	45.0	23.0	19.8	25.0
OU2MW-30I3	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--	0.0	15.8	37.0	29.0	20.0	20.0	25.0
OU2MW-30D	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.6	--	--	0.0	--	--	0.0	2.1	32.0	20.0	27.0	19.5	29.0
OU2MW-30D2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--	0.0	0.0	29.0	17.6	9.1	3.0	0.0
OU2MW-39S	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.8	1.9	14.7	22.0	19.6	24.0
OU2MW-39I	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.2	2.7	17.0	20.0	38.0	32.0
OU2MW-39I2	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	7.6	0.0	2.8
OU2MW-39D	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	7.6	0.0	3.0
OU2MW-47S	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	9.9	20.0	22.0	18.4	36.0	28.0	32.0
OU2MW-47I	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	24.0	20.0	26.0	26.0	31.0	36.0	38.0
OU2MW-47I2	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	6.8	36.0	20.0	22.0	31.0	32.0	40.0	40.0
OU2MW-47D	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	11.2	30.0	20.0	23.0	16.6	32.0	27.0	18.6
OU2MW-19I	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
OU2MW-19I2	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
OU2MW-02S	Montauk Highway	0.0	--	--	--	0.1	--	10.5	--	--	3.7	--	--	0.0	--	--	--	4.5	--	3.5	--	--	--	12.1	--	--	5.8	--	--	--
OU2MW-02I	Montauk Highway	0.0	--	--	--	0.0	--	2.1	--	--	1.0	--	--	0.0	--	--	--	0.0	--	0.0	--	--	--	0.0	--	--	5.4	--	--	--
OU2MW-02I2	Montauk Highway	0.0	--	--	--	0.0	--	0.0	--	--	0.0	--	--	0.0	--	--	--	0.0	--	0.0	--	--	--	0.0	--	--	5.2	--	--	--
OU2MW-02D	Montauk Highway	0.0	--	--	--	0.0	--	0.0	--	--	0.0	--	--	0.0	--	--	--	0.0	--	0.0	--	--	--	0.0	--	--	5.2	--	--	--
Temperature (degrees Celcius)																														
OU2MW-30S	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.6	--	--	13.5	--	--	10.9	10.3	11.6	14.9	16.2	18.2	19.9
OU2MW-30I	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.6	--	--	13.8	--	--	12.6	12.1	13.4	15.3	15.5	16.5	18.3
OU2MW-30I2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.6	--	--	13.8	--	--	13.1	11.7	12.6	16.4	15.4	15.9	18.3
OU2MW-30I3	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.3	--	--	13.1	--	--	12.4	12.1	12.2	15.8	14.4	16.9	17.3
OU2MW-30D	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.3	--	--	13.3	--	--	12.3	11.9	12.5	15.2	16.0	16.0	17.5
OU2MW-30D2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.5	--	--	13.3	--	--	11.9	11.9	12.8	15.1	14.5	15.5	18.7
OU2MW-39S	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.2	8.9	12.9	13.7	15.8	18.5
OU2MW-39I	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.9	11.6	12.7	13.1	14.3	16.1
OU2MW-39I2	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.0	12.0	13.5	13.9	14.9	15.5
OU2MW-39D	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.9	11.2	13.5	13.2	14.8	16.2
OU2MW-47S	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.6	10.8	10.5	10.9	12.2	14.4	14.1	17.1	19.0
OU2MW-47I	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.8	13.0	12.5	12.3	12.9	13.0	13.6	16.2	17.0
OU2MW-47I2	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.1	12.1	12.6	12.9	14.0	14.1	15.8	16.5	16.8
OU2MW-47D	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.4	12.6	12.0	12.3	14.4	14.0	14.7	16.1	16.7
OU2MW-19I	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.2
OU2MW-19I2	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15.7
OU2MW-02S	Montauk Highway	13.2	--	--	--	21.1	--	11.2	--	--	7.6	--	--	13.5	--	--	--	21.2	--	12.8	--	--	--	10.9	--	--	18.0	--	--	--

Appendix E - Table E-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2007								2008												2009								
		May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Baseline Jan-09	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09
OU2MW-02I	Montauk Highway	13.6	--	--	--	19.8	--	11.4	--	--	8.5	--	--	13.6	--	--	--	19.6	--	11.7	--	--	--	11.0	--	--	17.9	--	--	--
OU2MW-02I2	Montauk Highway	12.4	--	--	--	18.8	--	11.6	--	--	9.7	--	--	12.2	--	--	--	15.9	--	12.2	--	--	--	10.2	--	--	20.4	--	--	--
OU2MW-02D	Montauk Highway	12.3	--	--	--	16.6	--	10.7	--	--	9.3	--	--	11.7	--	--	--	15.5	--	11.4	--	--	--	10.4	--	--	20.0	--	--	--
Oxidation Reduction Potential (mV)																														
OU2MW-30S	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1	--	--	12	--	--	22	38	169	324	224	177	355
OU2MW-30I	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-141	--	--	-113	--	--	-102	-74	41	251	102	105	214
OU2MW-30I2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-47	--	--	-64	--	--	-48	-21	160	320	202	197	276
OU2MW-30I3	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	31	--	--	-32	--	--	57	77	188	131	243	161	297
OU2MW-30D	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	113	--	--	73	--	--	76	85	191	170	348	202	352
OU2MW-30D2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-101	--	--	-146	--	--	-41	-35	109	147	204	65	82
OU2MW-39S	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	147	184	226	331	282	258
OU2MW-39I	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17	-20	87	325	306	245
OU2MW-39I2	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	128	135	211	170	168	106
OU2MW-39D	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	60	129	78	87	-58
OU2MW-47S	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-62	-104	21	84	189	206	340	343	314
OU2MW-47I	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-104	-114	15	44	91	138	330	288	210
OU2MW-47I2	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	75	144	134	116	178	199	225	324	306
OU2MW-47D	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	79	151	161	120	157	128	156	240	167
OU2MW-19I	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-71
OU2MW-19I2	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-122
OU2MW-02S	Montauk Highway	-84	--	--	--	-40	--	65	--	--	75	--	--	-61	--	--	--	-38	--	2	--	--	--	47	--	--	0	--	--	--
OU2MW-02I	Montauk Highway	59	--	--	--	32	--	73	--	--	22	--	--	-17	--	--	--	-40	--	-34	--	--	--	-35	--	--	-46	--	--	--
OU2MW-02I2	Montauk Highway	1	--	--	--	-15	--	18	--	--	-11	--	--	3	--	--	--	-17	--	8	--	--	--	-9	--	--	23	--	--	--
OU2MW-02D	Montauk Highway	98	--	--	--	102	--	112	--	--	78	--	--	99	--	--	--	74	--	63	--	--	--	73	--	--	151	--	--	--

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OU-2 Oxygen Injection System
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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2009				2010												2011											
		Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
pH (SU)																													
OU2MW-30S	9 North Clinton	5.77	5.81	5.81	4.97	6.20	6.30	6.15	5.96	6.12	5.92	5.75	5.62	5.65	6.04	4.56	5.21	6.55	5.99	6.39	5.60	5.21	5.60	5.35	5.70	5.54	6.02	5.70	5.49
OU2MW-30I	9 North Clinton	6.28	5.88	6.40	4.54	6.19	6.18	6.10	6.01	6.10	5.74	6.07	5.85	5.75	6.17	4.91	5.58	6.40	5.61	5.73	5.55	5.38	5.44	5.33	5.93	5.87	6.27	5.95	5.75
OU2MW-30I2	9 North Clinton	6.00	5.98	5.91	4.93	6.29	6.25	6.16	6.00	6.06	5.62	6.08	5.99	5.94	6.20	5.71	5.78	6.71	5.59	5.91	5.44	5.32	5.29	5.17	5.86	5.71	6.12	5.98	5.69
OU2MW-30I3	9 North Clinton	5.56	7.38	5.66	5.09	5.98	6.11	6.06	4.71	5.96	4.91	5.75	6.01	5.74	5.90	4.00	5.48	6.75	5.89	6.40	5.53	6.19	5.27	5.95	5.45	5.85	2.85	5.86	4.91
OU2MW-30D	9 North Clinton	5.57	7.44	6.14	4.80	5.85	6.01	5.83	4.66	5.61	4.48	5.51	5.66	5.60	5.87	5.44	5.60	6.46	5.66	5.54	5.16	5.52	5.06	5.85	5.43	5.67	5.49	5.64	4.60
OU2MW-30D2	9 North Clinton	5.52	7.94	6.31	4.53	6.01	5.99	5.74	4.80	5.71	4.63	5.60	5.92	5.63	5.99	5.43	6.27	6.78	5.95	5.94	5.49	5.71	5.50	5.92	5.32	5.50	5.09	5.00	4.78
OU2MW-39S	33 North Clinton	5.79	5.55	5.99	5.80	6.07	5.59	5.88	5.70	5.75	4.87	5.58	6.13	5.96	5.68	5.29	5.53	5.75	4.43	5.41	5.38	5.00	5.80	6.05	5.60	5.43	5.48	5.94	5.80
OU2MW-39I	33 North Clinton	5.89	5.74	6.16	6.04	6.15	5.70	6.07	5.93	5.55	4.82	5.99	6.55	6.30	6.19	5.89	6.05	6.16	6.68	ER	6.14	5.80	6.36	6.60	6.48	5.50	6.22	6.26	6.29
OU2MW-39I2	33 North Clinton	4.57	4.43	6.08	4.48	4.69	4.17	4.77	4.67	4.57	3.78	4.77	5.13	4.93	4.92	5.26	4.91	5.09	3.68	4.54	4.57	4.21	4.74	4.87	4.64	4.91	4.93	6.20	4.64
OU2MW-39D	33 North Clinton	4.97	4.79	6.58	5.16	5.20	4.80	5.18	5.15	4.90	4.29	4.99	5.26	5.03	4.95	5.41	6.06	5.41	5.93	5.84	4.92	4.56	5.16	5.22	4.86	4.75	4.69	4.76	4.53
OU2MW-47S	34 North Clinton	5.89	5.86	6.05	5.86	6.00	5.88	5.35	5.68	5.19	5.36	5.74	5.37	5.98	5.82	5.11	--	5.66	5.60	6.01	5.14	5.80	5.32	5.40	5.71	5.37	6.29	5.59	5.62
OU2MW-47I	34 North Clinton	6.32	6.24	6.03	5.81	6.15	6.21	6.13	6.29	5.80	6.20	6.41	6.49	6.16	5.91	5.21	--	5.90	5.75	6.39	5.85	6.53	6.03	6.18	6.49	5.97	6.93	5.99	6.50
OU2MW-47I2	34 North Clinton	6.13	6.15	5.85	6.25	6.28	6.25	6.29	6.06	5.85	5.74	6.13	6.21	6.11	6.12	5.57	--	6.75	6.08	6.61	5.62	6.43	5.80	6.04	6.47	5.90	6.83	5.82	6.36
OU2MW-47D	34 North Clinton	5.45	5.47	5.19	6.01	5.52	5.55	5.57	5.41	5.90	4.87	5.68	5.77	5.41	5.48	5.42	--	5.83	5.60	6.20	5.32	6.15	5.83	5.92	6.20	5.65	6.32	5.58	5.87
OU2MW-19I	Cooper Lane	--	--	8.53	--	6.44	6.31	6.21	5.72	6.28	--	5.60	--	--	--	--	7.32	--	6.25	--	6.60	--	--	--	6.27	--	--	--	5.96
OU2MW-19I2	Cooper Lane	5.84	--	6.04	--	5.85	6.00	5.96	5.63	5.52	--	5.41	--	--	--	--	5.44	--	4.65	--	5.99	--	--	--	6.31	--	--	--	6.23
OU2MW-19D	Cooper Lane	--	--	8.30	--	6.11	6.07	5.96	5.75	5.89	--	5.32	--	--	--	--	5.35	--	5.86	--	5.73	--	--	--	5.39	--	--	--	5.26
OU2MW-02S	Montauk Highway	6.55	--	6.28	--	--	5.80	--	6.19	--	--	--	--	5.64	4.85	--	--	--	6.70	--	5.57	--	--	--	--	5.28	--	5.88	--
OU2MW-02I	Montauk Highway	6.22	--	7.79	--	--	6.29	--	6.18	--	--	--	--	5.79	5.89	--	--	--	6.25	--	6.19	--	--	--	--	7.00	--	6.12	--
OU2MW-02I2	Montauk Highway	5.80	--	7.05	--	--	5.34	--	5.81	--	--	--	--	5.83	5.03	--	--	--	5.85	--	5.87	--	--	--	--	6.55	--	5.34	--
OU2MW-02D	Montauk Highway	5.49	--	5.98	--	--	4.76	--	5.30	--	--	--	--	5.17	4.68	--	--	--	3.12	--	5.34	--	--	--	--	4.84	--	5.60	--
Conductivity (mS/cm)																													
OU2MW-30S	9 North Clinton	0.359	0.306	0.281	0.325	0.268	0.241	0.249	0.361	0.271	0.241	0.201	0.214	0.247	0.312	0.435	0.198	0.431	0.431	0.442	0.545	0.587	0.418	0.386	0.369	0.430	0.467	0.582	0.558
OU2MW-30I	9 North Clinton	0.709	0.619	0.691	0.442	0.730	0.569	0.955	0.771	0.498	0.430	0.365	0.351	0.374	0.406	0.488	0.343	0.323	0.340	0.512	0.419	0.686	0.584	0.628	0.635	0.695	0.664	0.665	0.580
OU2MW-30I2	9 North Clinton	0.661	0.599	0.569	0.471	0.487	0.698	0.707	0.689	0.371	0.406	0.399	0.301	0.323	0.316	0.252	0.285	0.279	0.318	0.491	0.586	0.554	0.465	0.538	0.602	0.623	0.640	0.612	0.552
OU2MW-30I3	9 North Clinton	0.609	0.640	0.498	0.558	0.469	0.492	0.470	0.680	0.498	0.432	0.343	0.403	0.383	0.423	0.567	0.231	0.411	0.411	0.392	0.485	0.390	0.330	0.362	0.297	0.302	0.325	0.429	0.990
OU2MW-30D	9 North Clinton	0.681	0.743	0.656	0.541	0.708	0.453	0.601	0.608	0.395	0.399	0.315	0.286	0.342	0.339	0.313	0.370	0.368	0.323	0.471	0.354	0.468	0.252	0.260	0.265	0.260	0.270	0.334	0.347
OU2MW-30D2	9 North Clinton	0.432	0.429	0.394	0.317	0.486	0.334	0.332	0.523	0.400	0.397	0.325	0.376	0.369	0.393	0.353	0.197	0.323	0.319	0.472	0.385	0.470	0.318	0.320	0.291	0.280	0.009	0.333	0.352
OU2MW-39S	33 North Clinton	0.315	0.339	0.311	0.316	0.366	0.305	0.255	0.218	0.297	0.293	0.225	0.238	0.227	0.184	0.243	0.509	0.610	0.410	0.529	0.202	0.271	0.287	0.392	0.305	0.385	0.475	0.322	0.439
OU2MW-39I	33 North Clinton	1.110	0.899	0.616	0.578	0.666	0.590	0.643	0.459	0.542	0.602	0.629	0.811	0.861	0.570	0.490	0.595	0.612	0.584	0.493	0.379	0.570	0.520	0.536	0.788	0.643	0.842	0.714	0.808
OU2MW-39I2	33 North Clinton	0.487	0.427	0.419	0.353	0.414	0.447	0.440	0.494	0.538	0.558	0.391	0.312	0.223	0.193	0.183	0.152	0.198	0.272	0.615	0.271	0.449	0.343	0.360	0.387	0.410	0.461	0.307	0.383
OU2MW-39D	33 North Clinton	0.827	0.770	0.723	0.545	0.673	0.835	0.910	0.789	0.899	0.706	0.525	0.866	0.764	0.612	0.478	0.186	0.196	0.400	0.369	0.286	0.267	0.180	0.223	0.231	0.242	0.263	0.217	0.228
OU2MW-47S	34 North Clinton	0.303	0.327	0.439	0.390	0.414	0.250	0.229	0.203	0.300	0.363	0.413	0.364	0.444	0.376	0.434	--	0.338	0.393	0.252	0.292	0.222	0.271	0.730	0.361	0.556	0.374	0.405	0.310
OU2MW-47I	34 North Clinton	0.390	0.366	0.455	0.291	0.941	0.758	0.689	0.656	0.820	0.915	0.920	0.674	0.586	0.450	0.523	--	0.768	0.747	0.662	0.870	0.686	0.605	1.300	0.699	0.899	0.741	0.908	0.940
OU2MW-47I2	34 North Clinton	0.622	0.534	0.494	0.499	0.448	0.611	0.407	0.775	0.709	0.621	0.547	0.383	0.328	0.318	0.361	--	0.367	0.425	0.419	0.784	0.662	0.775	1.130	0.956	1.230	0.826	0.905	0.930
OU2MW-47D	34 North Clinton	0.621	0.575	0.514	0.420	0.479	0.673	0.450	0.517	0.285	0.322	0.355	0.312	0.264	0.247	0.341	--	0.664	0.660	0.472	0.661	0.565	0.414	0.411	0.366	0.752	0.899	1.240	1.210
OU2MW-19I	Cooper Lane	--	--	0.554	--	0.834	0.705	0.595	0.587	0.940	--	0.660	--	--	--	--	0.340	--	0.571	--	0.755	--	--	--	0.675	--	--	--	0.804
OU2MW-19I2	Cooper Lane	0.561	--	0.545	--	0.599	0.445	1.200	0.567	0.497	--	0.481	--	--	--	--	0.241	--	0.443	--	0.357	--	--	--	1.130	--	--	--	0.684
OU2MW-19D	Cooper Lane	--	--	1.350	--	1.370	1.420	1.200	1.170	1.380	--	1.520	--	--	--	--	0.764	--	0.574	--	0.342	--	--	--	0.435	--	--	--	0.413
OU2MW-02S	Montauk Highway	0.674	--	0.522	--	--	0.602	--	1.350	--	--	--	--	0.439	0.519	--	--	--	0.537	--	0.381	--	--	--	--	0.658	--	0.688	--
OU2MW-02I	Montauk Highway	0.297	--	0.612	--	--	0.336	--	0.286	--	--	--	--	0.218	0.279	--	--	--	0.271	--	0.166	--	--	--	--	0.310	--	0.412	--
OU2MW-02I2	Montauk Highway	0.078	--	0.088	--	--	0.103	--	0.110	--	--	--	--	0.065	0.070	--	--	--	0.084	--	0.056	--	--	--	--	0.177	--	0.095	--
OU2MW-02D	Montauk Highway	0.050	--	0.058	--	--	0.051	--	0.067	--	--	--	--	0.039	0.045	--	--	--	0.053	--	0.036	--	--	--	--	0.051	--	0.056	--
Dissolved Oxygen (mg/L)																													
OU2MW-30S	9 North Clinton	28.0	26.0	25.0	0.9	23.0	28.0	28.0	26.0	11.4	27.0	24.0	29.0	27.0	26.0	24.0	24.0	23.0	23.0	22.0	30.0	28.0	26.0	27.0	31.0	23.0	28.0	18.0	22.0
OU2MW-30I	9 North Clinton	34.0	27.0	8.9	51.0	22.0	37.0	33.0	28.0	14.6	27.0	26.0	25.0	36.0	40.0	24.0	30.0	24.0	31.0	21.0	41.2	34.1	29.0	35.0	37.0	33.0	34.0	23.0	26.0
OU2MW-30I2	9 North Clinton	29.0	42.0	34.0	44.0	17.0	48.0	44.0	36.0	23.0	28.0	23.0	24.0	42.0	20.0	23.0	28.0	25.0	28.0	24.0	29.0	32.0	31.0	31.0	40.0	32.0	42.0	26.0	28.0
OU2MW-30I3	9 North Clinton	35.0	36.0	18.7	0.8	52.0	48.0	35.0	34.0	24.0	36.0	27.0	36.0	34.0	39.0	23.0	27.0	20.0	33.0	26.0	29.0	28.0	29.0	30.0	32.0	29.0	20.0	29.0	38.0
OU2MW-30D	9 North Clinton	40.0	39.0	28.0	35.0	38.0	49.0	43.0	29.0	31.0	31.0	27.0	20.0	33.0	18.0	46.0	30.0	27.0	29.0	29.0	37.0	35.0	32.0	32.0	40.0	30.0	39.0	30.0	31.0
OU2MW-30D2	9 North Clinton	2.5	14.6	18.0	55.0	30.0	32.0	19.2	9.3	0.0	10.0	22.0	30.0	23.0	27.0	22.0	23.0	6.0	5.0	1.0	20.0	4.0	18.0	19.0	39.0	15.0	15.0	13.0	26.0
OU2MW-39S	33 North Clinton	21.0	28.0	31.0	18.2	16.0	37.0	30.0	14.4	18.0	28.0	26.0	27.0	20.0	24.0	19.0	15.0	16.0	19.6	19.0	17.0	32.0	30.0	20.0	23.0	20.0	23.0	20.0	13.0
OU2MW-39I	33 North Clinton	19.0	28.0	49.0	32.0	31.0	41.0	43.0	29.0	10.0	25.0	30.0	38.0	29.0	27.0	21.0	12.0	25.0	24.0	12.0	30.0	29.0	28.0	32.0	27.0	26.0	33.0	42.0	30.0
OU2MW-39I2	33 North Clinton	0.0	0.0	0.0	1.1	0.0	0.0	0.9	0.0	0.0	0.0	2.0	0.9	0.0	0.0	1.0	0.0	1.0	0.0	1.0	2.0	1.0	1.0	2.0	2.0	3.0	2.0	1.0	2.0
OU2MW-39D	33 North Clinton	0.0	0.0	0.0	0.3	0.0	0.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	1.0
OU2MW-47S	34 North Clinton	33.0	31.0	33.0	33.0	30.0	33.0	26.0	26.0	12.0	25.0	33.0	29.0	25.0	26.0	38.0	--	20.0	21.0	22.0	26.0	24.0	26.0	29.0	22.0	38.0	24.0	22.0	21.0
OU2MW-47I	34 North Clinton	43.0	28.0	38.0	40.0	39.0	40.0	28.0	26.0	20.0	30.0	24.0	26.0	27.0	24.0	25.0	--	21.0	22.0	22.0	40.0	21.0	23.0	31.0	25.0	38.0	25.0	27.0	22.0
OU2MW-47I2	34 North Clinton	46.0	25.0	43.0	35.0	34.0	40.0	30.0	25.0	16.0	29.0	39.0	36.0	21.0	25.0	28.0	--	18.0	26.0	21.0	33.0	25.0	25.0	27.0	24.0	41.0	27.0	26.0	20.0
OU2MW-47D	34 North Clinton	26.0	23.0	25.0	16.0	26.0	32.0	25.0	24.0	12.0	27.0	28.0	26.0	21.0	24.0	28.0	--	29.0	26.0	25.0	27.0	27.0	28.0	29.0	33.0	31.0	27.0	36.0	20.0
OU2MW-19I	Cooper Lane	--	--	0.0	--	0.0	2.7	6.0	4.2	0.0	--	2.7	--	--	--	--	10.0	--	13.2	--	21.0	--	--	--	29.0	--	--	--	26.0
OU2MW-19I2	Cooper Lane	0.0	--	0.1	--	26.0	34.0	2.5	36.0	32.0	--	27.0	--	--	--	--	26.0	--	22.0	--	27.0	--	--	--	33.0	--	--	--	35.0
OU2MW-19D	Cooper Lane	--	--	0.0	--	0.0	0.0	2.5	9.2	18.0	--	20.0	--	--	--	--	20.0	--	2.0	--	1.7	--	--	--	10.3	--	--	--	17.0
OU2MW-02S	Montauk Highway	0.0	--	4.1	--	--	7.2	--	0.0	--	--	--	--	14.5	12.6	--	--	--	9.2	--	28.0	--	--	--	--	30.0	--	10.9	--
OU2MW-02I	Montauk Highway	0.0	--	0.7	--	--	0.0	--	1.0	--	--	--	--	0.0	0.0	--	--	--	9.1	--	3.3	--	--	--	--	0.0	--	4.5	--
OU2MW-02I2	Montauk Highway	0.0	--	0.0	--	--	0.0	--	0.0	--	--	--	--	0.1	0.0	--	--	--	0.7	--	0.5	--	--	--	--	0.0	--	2.1	--
OU2MW-02D	Montauk Highway	0.0	--	0.0	--	--	0.0	--	1.0	--	--	--	--	0.2	0.0	--	--	--	1.0	--	0.5	--	--	--	--	2.1	--	3.0	--
Temperature (degrees Celcius)																													
OU2MW-30S	9 North Clinton	19.6	17.3	16.9	14.5	12.8	11.5	11.0	12.9	14.5	18.8	20.7	20.8	20.5	19.8	17.3	13.5	10.8	11.7	10.9	19.7	14.9	18.6	19.6	20.3	19.5	17.8	17.0	15.8
OU2MW-30I	9 North Clinton	15.6	15.0	15.5	13.0	12.6	12.6	13.3	14.1	14.5	18.1	19.4	16.5	16.8	16.7	15.4	13.4	9.0	11.6	13.6	15.7	15.2	16.1	17.8	17.2	15.8	14.6	15.0	14.2
OU2MW-30I2	9 North Clinton	16.1	15.0	15.0	12.6	13.4	13.3	13.2	13.9	14.0	17.9	18.7	15.8	17.9	16.3	15.6	12.6	9.4	12.7	12.9	15.5	15.8	16.4	17.5	17.0	15.9	14.1	14.7	13.7
OU2MW-30I3	9 North Clinton	18.1	15.7	14.9	14.5	12.8	12.7	13.2	13.7	14.7	17.1	18.3	19.1	17.0	16.2	15.0	12.7	8.0	11.6	12.5	14.0	15.2	16.0	15.1	16.3	15.8	14.2	16.2	13.6
OU2MW-30D	9 North Clinton	15.6	15.4	15.4	13.5	11.8	12.3	13.0	13.2	14.7	17.3	17.8	16.5	17.1	16.0	15.2	12.6	8.8	10.9	13.4	14.5	15.6	16.2	15.4	17.5	10.3	14.5	14.3	12.8
OU2MW-30D2	9 North Clinton	15.2	15.2	15.1	13.6	13.0	12.4	12.9	13.6	14.4	17.9	17.8	18.7	17.0	16.5	15.3	13.2	11.9	11.6	13.7	15.5	15.6	16.0	14.7	16.0	15.7	13.3	14.8	13.2
OU2MW-39S	33 North Clinton	17.3	15.8	14.8	13.5	11.7	9.5	9.4	10.8	12.0	16.0	16.9	18.9	16.9	16.6	16.0	11.9	10.3	11.6	9.9	10.7	13.8	14.5	17.0	16.7	18.0	16.5	15.7	13.6
OU2MW-39I	33 North Clinton	15.2	14.3	14.3	14.1	13.9	11.2	12.6	13.1	12.6	14.9	15.4	16.9	14.7	15.3	15.4	12.5	11.8	13.0	12.6	13.2	14.7	14.2	15.5	15.4	15.2	14.9	14.9	14.0
OU2MW-39I2	33 North Clinton	14.8	13.5	14.3	11.2	12.3	10.6	12.7	13.1	14.6	15.4	16.3	17.9	15.3	14.3	14.2	12.1	12.1	12.6	12.4	13.8	15.1	13.7	15.3	14.6	14.7	13.8	13.6	13.3
OU2MW-39D	33 North Clinton	14.6	13.4	13.9	11.8	11.9	10.8	12.1	12.7	14.8	14.9	15.5	18.2	15.3	13.8	14.0	11.8	11.9	12.1	12.0	12.8	14.0	13.7	16.7	14.2	14.6	14.2	13.7	13.0
OU2MW-47S	34 North Clinton	17.6	17.2	16.3	14.6	11.6	11.2	11.3	12.5	14.1	16.6	19.5	19.3	17.8	16.8	16.3	--	9.6	11.0	10.8	12.6	13.1	15.2	17.0	19.1	17.8	17.3	15.9	14.7
OU2MW-47I	34 North Clinton	16.0	15.2	15.4	13.5	12.9	12.5	13.7	13.3	13.5	15.3	20.0	16.5	15.0	15.6	15.0	--	12.1	11.7	12.5	16.7	13.8	13.9	14.5	16.6	15.6	15.1	14.9	14.2
OU2MW-47I2	34 North Clinton	15.4	14.7	14.3	14.2	12.9	13.6	13.9	13.9	14.6	16.0	19.4	18.1	15.9	14.8	14.7	--	11.6	12.5	12.8	14.1	14.7	15.2	17.0	17.1	15.1	14.5	14.2	13.6
OU2MW-47D	34 North Clinton	15.5	14.8	14.1	12.3	12.9	12.5	12.9	13.6	14.2	16.2	17.6	16.2	16.3	15.6	14.5	--	11.7	12.2	12.5	16.3	14.6	14.8	16.4	17.2	15.1	14.5	14.3	13.6
OU2MW-19I	Cooper Lane	--	--	16.2	--	12.5	12.7	12.2	13.0	13.2	--	16.0	--	--	--	--	15.4	--	11.7	--	12.1	--	--	--	16.2	--	--	--	15.5
OU2MW-19I2	Cooper Lane	15.6	--	15.0	--	13.4	13.2	11.7	14.6	14.3	--	16.7	--	--	--	--	13.9	--	11.5	--	13.2	--	--	--	16.1	--	--	--	14.3
OU2MW-19D	Cooper Lane	--	--	14.8	--	12.1	12.5	11.7	14.4	14.3	--	17.3	--	--	--	--	14.0	--	11.8	--	12.9	--	--	--	15.7	--	--	--	13.7
OU2MW-02S	Montauk Highway	21.6	--	13.3	--	--	5.1	--	15.7	--	--	--	--	28.2	17.7	--	--	--	10.1	--	12.2	--	--	--	--	17.5	--	15.0	--

Appendix E - Table E-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
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Well ID	Oxygen Injection System	2009				2010												2011											
		Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11
OU2MW-02I	Montauk Highway	20.4	--	14.3	--	--	11.3	--	18.0	--	--	--	--	23.0	14.6	--	--	--	13.4	--	12.7	--	--	--	--	17.5	--	13.8	--
OU2MW-02I2	Montauk Highway	17.2	--	14.4	--	--	6.5	--	15.8	--	--	--	--	24.6	17.5	--	--	--	11.9	--	12.5	--	--	--	--	16.9	--	13.8	--
OU2MW-02D	Montauk Highway	21.2	--	13.1	--	--	8.6	--	16.3	--	--	--	--	24.3	17.7	--	--	--	11.3	--	13.6	--	--	--	--	17.2	--	13.5	--
Oxidation Reduction Potential (mV)																													
OU2MW-30S	9 North Clinton	196	237	213	198	294	220	195	189	176	186	240	209	275	161	196	192	217	224	187	219	158	178	184	189	176	209	260	269
OU2MW-30I	9 North Clinton	107	223	-18	365	141	190	183	194	170	175	205	180	249	138	173	236	213	235	206	246	168	194	168	174	160	186	260	247
OU2MW-30I2	9 North Clinton	123	222	187	379	312	158	160	184	176	209	239	183	228	172	240	230	208	246	194	296	166	208	201	187	173	202	266	245
OU2MW-30I3	9 North Clinton	132	6	174	169	324	164	187	180	164	184	237	178	271	172	224	178	208	217	182	229	230	216	184	136	193	193	268	252
OU2MW-30D	9 North Clinton	210	6	47	209	185	190	223	201	200	224	200	206	272	189	246	251	200	236	212	260	206	213	200	143	194	208	280	260
OU2MW-30D2	9 North Clinton	61	-39	-5	379	114	105	145	104	59	104	101	125	216	54	165	131	175	174	161	180	153	172	180	123	202	178	261	245
OU2MW-39S	33 North Clinton	198	197	278	420	157	207	226	195	216	157	277	202	186	228	236	139	177	225	157	257	197	171	170	140	130	149	140	180
OU2MW-39I	33 North Clinton	198	209	248	405	166	195	175	184	216	140	199	170	158	210	200	87	164	191	105	135	155	133	120	130	140	129	203	175
OU2MW-39I2	33 North Clinton	208	211	78	288	161	293	210	167	171	181	206	197	177	182	194	179	211	246	175	203	182	130	199	166	140	100	117	135
OU2MW-39D	33 North Clinton	120	93	-15	113	76	195	79	61	83	101	60	83	99	107	72	100	100	76	30	129	94	50	54	54	86	73	86	108
OU2MW-47S	34 North Clinton	206	244	58	256	183	209	268	201	251	220	221	294	149	284	242	--	266	273	216	284	196	193	215	205	137	213	244	188
OU2MW-47I	34 North Clinton	171	229	56	356	190	205	229	182	216	195	182	233	172	307	230	--	424	261	205	236	171	164	160	183	114	205	222	176
OU2MW-47I2	34 North Clinton	184	232	305	360	304	172	226	209	206	209	204	254	290	295	210	--	223	239	195	256	188	164	220	206	73	218	256	187
OU2MW-47D	34 North Clinton	100	144	167	263	204	120	144	166	170	194	203	166	187	195	200	--	379	262	189	240	183	152	208	188	153	217	241	179
OU2MW-19I	Cooper Lane	--	--	-132	--	-95	-109	-39	-61	-103	--	-68	--	--	--	--	-2	--	73	--	95	--	--	--	106	--	--	--	263
OU2MW-19I2	Cooper Lane	70	--	38	--	155	255	14	178	192	--	167	--	--	--	--	236	--	184	--	271	--	--	--	123	--	--	--	279
OU2MW-19D	Cooper Lane	--	--	-113	--	-122	155	14	20	42	--	29	--	--	--	--	86	--	40	--	114	--	--	--	110	--	--	--	223
OU2MW-02S	Montauk Highway	-134	--	33	--	--	91	--	-78	--	--	--	--	93	171	--	--	--	163	--	206	--	--	--	--	211	--	169	--
OU2MW-02I	Montauk Highway	-59	--	-46	--	--	-17	--	-71	--	--	--	--	-38	-17	--	--	--	-87	--	-55	--	--	--	--	-76	--	-32	--
OU2MW-02I2	Montauk Highway	32	--	-6	--	--	45	--	40	--	--	--	--	6	59	--	--	--	-17	--	16	--	--	--	--	-10	--	13	--
OU2MW-02D	Montauk Highway	74	--	83	--	--	228	--	82	--	--	--	--	116	138	--	--	--	54	--	84	--	--	--	--	80	--	114	--

Appendix E - Table E-2
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OU-2 Oxygen Injection System
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Well ID	Oxygen Injection System	2012												2013												2014		
		Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
pH (SU)																												
OU2MW-30S	9 North Clinton	5.35	--	5.39	6.20	6.07	7.80	6.1	6.24	6.28	6.16	6.04	6.00	6.00	5.89	5.95	6.19	6.26	5.90	6.14	6.01	5.97	5.87	5.80	5.58	5.72	5.93	5.90
OU2MW-30I	9 North Clinton	5.60	--	5.65	6.28	6.25	5.77	6.43	6.41	6.44	6.30	6.25	6.06	5.92	5.95	6.02	5.47	6.22	6.09	6.23	6.30	6.02	5.95	5.88	5.76	5.98	6.14	6.02
OU2MW-30I2	9 North Clinton	5.65	--	5.55	6.58	6.28	5.59	6.3	6.37	6.48	6.39	6.41	6.21	6.11	5.73	6.07	6.38	6.33	6.01	6.20	6.09	6.04	6.03	5.91	5.60	5.80	5.81	6.00
OU2MW-30I3	9 North Clinton	5.31	--	5.22	6.11	5.92	7.20	5.94	5.44	6.06	5.96	5.84	5.78	5.83	5.63	5.55	5.89	5.75	5.49	5.70	5.55	5.61	5.51	5.38	5.11	5.24	5.40	5.42
OU2MW-30D	9 North Clinton	5.23	--	5.20	6.20	5.94	5.05	5.87	5.58	5.75	5.85	5.74	5.72	5.71	5.65	5.51	5.87	5.70	5.41	5.55	5.74	5.63	5.59	5.48	5.22	5.34	5.42	5.45
OU2MW-30D2	9 North Clinton	5.24	--	5.02	5.82	5.84	7.71	5.82	5.72	5.83	5.89	5.77	6.19	5.65	5.44	5.36	5.68	5.56	5.50	5.59	5.59	5.70	5.94	5.29	4.70	4.91	5.16	5.12
OU2MW-39S	33 North Clinton	6.23	5.40	5.99	5.71	5.80	6.23	5.94	6.23	6.13	6.14	6.01	6.09	5.55	5.63	5.93	5.93	5.81	5.68	6.04	5.83	6.12	6.01	5.40	5.75	5.76	5.65	5.85
OU2MW-39I	33 North Clinton	6.98	4.52	6.68	6.89	6.79	6.80	6.76	6.85	6.81	6.84	6.69	6.79	6.56	6.48	6.69	6.51	6.75	6.76	6.88	6.66	6.86	6.77	6.31	6.51	6.49	6.58	6.64
OU2MW-39I2	33 North Clinton	4.71	--	4.36	4.90	5.06	5.04	5.00	4.93	5.26	5.48	5.30	5.51	5.48	5.87	6.35	6.07	5.85	6.12	6.34	6.31	5.98	6.36	6.07	6.21	6.08	5.57	6.34
OU2MW-39D	33 North Clinton	4.66	4.46	4.52	5.71	5.04	5.52	5.84	4.98	5.32	5.39	5.01	5.09	4.90	4.80	5.38	4.67	4.97	5.05	5.11	5.14	4.92	5.14	4.70	4.85	4.62	4.31	5.41
OU2MW-47S	34 North Clinton	5.50	5.10	5.55	5.9	5.74	5.75	5.72	5.84	--	5.58	5.64	5.44	5.63	4.05	5.98	5.65	5.64	5.78	5.83	5.72	5.68	5.68	5.50	5.82	5.48	5.63	5.43
OU2MW-47I	34 North Clinton	6.21	5.52	5.45	6.27	6.20	5.90	5.97	6.23	--	5.97	6.03	6.09	6.27	4.91	5.70	--	6.16	6.17	6.13	6.06	5.99	6.03	5.76	6.16	5.77	5.88	5.52
OU2MW-47I2	34 North Clinton	6.14	5.70	6.17	6.51	6.28	6.17	6.11	6.37	--	6.13	6.36	6.35	6.40	4.97	5.81	--	6.20	6.14	6.29	6.32	6.12	6.11	5.90	6.02	5.63	5.95	5.53
OU2MW-47D	34 North Clinton	5.85	5.40	5.39	6.08	6.00	6.24	5.65	6.27	--	5.98	6.06	6.17	6.17	4.71	--	--	6.09	--	6.10	6.22	6.04	6.03	5.89	6.17	6.05	6.07	5.75
OU2MW-19I	Cooper Lane	--	--	6.44	--	--	6.54	--	6.49	--	--	6.66	--	5.79	--	--	6.57	--	--	6.41	--	--	6.30	--	--	6.13	--	--
OU2MW-19I2	Cooper Lane	--	--	5.95	--	--	6.69	--	6.77	--	--	6.55	--	6.30	--	--	6.11	--	--	6.15	--	--	6.46	--	--	6.09	--	--
OU2MW-19D	Cooper Lane	--	--	5.13	--	--	5.70	--	5.69	--	--	5.58	--	5.80	--	--	5.64	--	--	5.57	--	--	5.41	--	--	5.01	--	--
OU2MW-02S	Montauk Highway	--	--	--	--	5.77	--	--	--	5.67	--	5.69	--	--	5.70	--	--	5.81	--	--	--	6.08	--	5.68	--	--	7.22	--
OU2MW-02I	Montauk Highway	--	6.71	--	--	7.50	--	--	--	6.46	--	6.32	--	--	5.76	--	--	6.07	--	--	--	5.86	--	5.55	--	--	6.16	--
OU2MW-02I2	Montauk Highway	--	6.18	--	--	6.83	--	--	--	6.25	--	6.03	--	--	5.79	--	--	5.80	--	--	--	5.79	--	5.37	--	--	7.14	--
OU2MW-02D	Montauk Highway	--	5.54	--	--	6.04	--	--	--	5.71	--	5.60	--	--	4.94	--	--	5.32	--	--	--	5.41	--	4.85	--	--	4.68	--
Conductivity (mS/cm)																												
OU2MW-30S	9 North Clinton	0.324	--	0.581	0.469	0.405	0.486	0.476	0.399	0.383	0.410	0.293	0.429	0.410	0.464	0.852	0.661	0.541	0.484	0.383	0.352	0.418	0.455	0.570	0.718	0.520	0.495	0.507
OU2MW-30I	9 North Clinton	0.487	--	0.610	0.555	0.636	0.91	0.779	0.628	0.745	0.859	0.591	0.899	0.990	0.880	0.908	0.354	0.597	0.591	0.517	0.720	0.839	0.944	1.090	0.821	0.546	0.521	0.186
OU2MW-30I2	9 North Clinton	0.442	--	0.519	0.355	0.424	0.559	0.688	0.616	0.646	0.732	0.597	0.865	0.916	0.584	1.090	0.700	0.648	0.597	0.519	0.579	0.624	0.688	0.879	0.856	0.570	0.564	0.499
OU2MW-30I3	9 North Clinton	0.385	--	0.496	0.321	0.396	0.496	0.381	0.358	0.395	0.462	0.299	0.417	0.478	0.481	0.708	0.480	0.463	0.405	0.390	0.400	0.420	0.482	0.623	0.602	0.398	0.383	0.328
OU2MW-30D	9 North Clinton	0.279	--	0.366	0.251	0.291	0.416	0.349	0.350	0.394	0.462	0.310	0.467	0.486	0.521	0.684	0.435	0.429	0.438	0.336	0.408	0.421	0.456	0.590	0.610	0.411	0.426	0.364
OU2MW-30D2	9 North Clinton	0.300	--	0.373	0.272	0.341	0.463	0.312	0.235	0.243	0.282	0.202	0.375	0.451	0.635	0.934	0.677	0.721	0.813	0.706	0.840	0.883	0.984	1.410	1.430	1.080	1.090	1.080
OU2MW-39S	33 North Clinton	0.266	0.260	0.231	0.414	0.400	0.260	0.505	0.281	0.276	0.258	0.266	0.269	0.202	0.260	0.376	0.265	0.267	0.307	0.250	0.268	0.294	0.327	0.530	0.599	0.409	0.318	0.279
OU2MW-39I	33 North Clinton	0.552	0.302	0.630	0.974	0.978	0.663	0.900	0.643	0.685	0.651	0.617	0.631	0.566	0.682	1.030	0.767	0.728	0.718	0.673	0.749	0.785	0.785	1.210	1.200	0.866	0.734	0.696
OU2MW-39I2	33 North Clinton	0.352	--	0.424	0.376	0.38	0.392	0.408	0.378	0.460	0.439	0.462	0.478	0.454	0.505	0.418	0.471	0.441	0.468	0.459	0.483	0.533	0.590	0.811	0.781	0.473	0.521	0.556
OU2MW-39D	33 North Clinton	0.211	0.213	0.221	0.184	0.28	0.203	0.500	0.177	0.213	0.201	0.192	0.188	0.180	0.207	0.193	0.223	0.191	0.208	0.199	0.212	0.223	0.233	0.362	0.355	0.240	0.209	0.215
OU2MW-47S	34 North Clinton	0.353	0.347	0.370	0.358	0.362	0.348	0.304	0.361	--	0.372	0.457	0.522	0.433	1.090	0.417	0.374	0.344	0.377	0.306	0.354	0.447	0.475	0.508	0.452	0.446	0.499	0.360
OU2MW-47I	34 North Clinton	0.599	0.675	0.657	0.431	0.411	0.676	0.616	0.696	--	0.464	0.589	0.627	0.531	1.160	0.524	--	0.500	0.533	0.509	0.471	0.437	0.431	0.447	0.474	0.554	0.685	0.523
OU2MW-47I2	34 North Clinton	0.513	0.537	0.540	0.478	0.607	0.988	0.810	0.841	--	0.550	0.537	0.492	0.394	0.879	0.300	--	0.339	0.358	0.341	0.355	0.387	0.413	0.451	0.446	0.492	0.559	0.439
OU2MW-47D	34 North Clinton	0.729	0.62	0.639	0.523	0.624	0.400	0.352	0.377	--	0.488	0.567	0.865	0.649	1.430	--	--	0.552	--	0.462	0.444	0.416	0.404	0.360	0.287	0.253	0.279	0.202
OU2MW-19I	Cooper Lane	--	--	0.900	--	--	0.807	--	0.910	--	--	0.736	--	0.377	--	--	0.554	--	--	0.843	--	--	0.974	--	--	0.841	--	--
OU2MW-19I2	Cooper Lane	--	--	0.729	--	--	0.590	--	0.511	--	--	0.470	--	0.384	--	--	0.426	--	--	0.523	--	--	0.963	--	--	0.569	--	--
OU2MW-19D	Cooper Lane	--	--	0.568	--	--	0.620	--	0.555	--	--	0.606	--	0.214	--	--	0.541	--	--	0.478	--	--	0.473	--	--	0.576	--	--
OU2MW-02S	Montauk Highway	--	--	--	--	0.747	--	--	--	0.559	--	0.580	--	--	0.443	--	--	0.504	--	--	--	0.613	--	0.829	--	--	0.609	--
OU2MW-02I	Montauk Highway	--	0.462	--	--	0.430	--	--	--	0.492	--	0.581	--	--	0.735	--	--	0.731	--	--	--	0.862	--	1.250	--	--	0.795	--
OU2MW-02I2	Montauk Highway	--	0.095	--	--	0.118	--	--	--	0.109	--	0.136	--	--	0.133	--	--	0.162	--	--	--	0.318	--	0.672	--	--	0.650	--
OU2MW-02D	Montauk Highway	--	0.052	--	--	0.054	--	--	--	0.046	--	0.048	--	--	0.051	--	--	0.056	--	--	--	0.058	--	0.088	--	--	0.060	--
Dissolved Oxygen (mg/L)																												
OU2MW-30S	9 North Clinton	24.0	--	31.0	27.0	29.0	30.0	26.0	26.0	31.0	28.0	26.0	23.0	36.0	24.0	32.0	23.0	35.0	25.0	31.0	22.0	31.0	31.0	32.0	25.0	27.0	30.0	20.0
OU2MW-30I	9 North Clinton	37.0	--	40.0	33.0	38.0	34.0	29.0	32.0	37.0	25.0	22.0	23.0	41.0	28.0	35.0	36.0	28.0	39.0	43.0	27.0	30.0	45.0	31.0	32.0	37.0	37.0	25.0
OU2MW-30I2	9 North Clinton	37.0	--	36.0	20.0	21.0	21.0	36.0	35.0	32.0	61.0	38.0	19.0	47.0	23.0	35.0	35.0	41.0	41.0	47.0	27.0	42.0	43.0	35.0	35.0	42.0	37.0	40.0
OU2MW-30I3	9 North Clinton	36.0	--	34.0	20.0	39.0	37.0	31.0	31.0	26.0	25.0	29.0	21.0	47.0	28.0	31.0	30.0	35.0	36.0	46.0	28.0	30.0	48.0	40.0	39.0	35.0	33.0	19.0
OU2MW-30D	9 North Clinton	41.0	--	39.0	24.0	24.0	29.0	29.0	36.0	40.0	62.0	20.0	20.0	52.0	29.0	21.0	35.0	37.0	32.0	47.0	29.0	42.0	48.0	31.0	43.0	40.0	40.0	44.0
OU2MW-30D2	9 North Clinton	30.0	--	14.0	18.9	19.0	21.0	7.0	0.0	9.0	4.4	11.0	17.0	28.0	22.0	26.0	25.0	27.0	29.0	28.0	7.0	1.0	3.0	12.0	13.0	22.0	17.0	12.0
OU2MW-39S	33 North Clinton	21.0	22.0	22.0	20.0	29.0	20.0	14.0	19.0	26.0	23.0	20.0	29.0	20.0	18.0	21.0	28.0	27.0	26.0	27.0	29.0	28.0	28.0	15.0	35.0	27.0	10.0	15.0
OU2MW-39I	33 North Clinton	26.0	2.0	34.0	16.0	25.0	24.0	27.0	18.0	32.0	28.0	32.0	37.0	39.0	38.0	34.0	42.0	38.0	32.0	27.0	24.0	33.0	35.0	31.0	30.0	43.0	25.0	25.0
OU2MW-39I2	33 North Clinton	1.0	--	2.0	1.0	2.0	1.0	0.0	2.0	2.0	2.0	2.0	2.0	0.0	15.0	2.0	0.0	1.0	1.0	0.0	4.9	2.0	9.0	12.0	20.0	24.0	18.0	17.0
OU2MW-39D	33 North Clinton	1.0	1.0	1.0	0.0	2.0	1.0	8.0	1.0	1.0	1.0	1.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	3.4	1.0	5.0	1.0	1.0	0.0	1.0	2.0
OU2MW-47S	34 North Clinton	24.0	20.0	30.0	24.0	26.0	21.0	20.0	31.0	--	25.0	24.0	28.0	28.0	22.0	41.0	39.0	29.0	39.0	35.0	22.0	23.0	36.0	29.0	34.0	35.0	12.0	25.0
OU2MW-47I	34 North Clinton	22.0	30.0	32.0	24.0	27.0	25.0	44.0	16.0	--	24.0	36.0	26.0	43.0	24.0	48.0	--	42.0	42.0	43.0	36.0	36.0	43.0	37.0	45.0	46.0	42.0	30.0
OU2MW-47I2	34 North Clinton	25.0	42.0	34.0	41.0	24.0	36.0	15.0	15.0	--	31.0	30.0	35.0	42.0	27.0	49.0	--	44.0	42.0	47.0	27.0	35.0	48.0	39.0	39.0	45.0	47.0	31.0
OU2MW-47D	34 North Clinton	22.0	33.0	33.0	25.0	28.0	36.0	24.0	37.0	--	22.0	29.0	45.0	41.0	17.0	--	--	32.0	--	41.0	21.0	30.0	43.0	41.0	47.0	54.0	47.0	29.0
OU2MW-19I	Cooper Lane	--	--	24.0	--	--	32.0	--	34.0	--	--	0.0	--	40.0	--	--	21.0	--	--	14.0	--	--	18.2	--	--	25.0	--	--
OU2MW-19I2	Cooper Lane	--	--	36.0	--	--	29.0	--	23.8	--	--	0.0	--	1.7	--	--	25.0	--	--	21.0	--	--	37.6	--	--	37.0	--	--
OU2MW-19D	Cooper Lane	--	--	15.8	--	--	11.9	--	11.3	--	--	5.1	--	0.4	--	--	4.7	--	--	4.4	--	--	2.8	--	--	8.6	--	--
OU2MW-02S	Montauk Highway	--	--	--	--	20.0	--	--	--	13.0	--	14.8	--	--	20.0	--	--	22.0	--	--	--	25.0	--	30.0	--	--	38.0	--
OU2MW-02I	Montauk Highway	--	1.6	--	--	0.0	--	--	--	0.0	--	3.6	--	--	14.2	--	--	12.0	--	--	--	30.0	--	32.0	--	--	30.0	--
OU2MW-02I2	Montauk Highway	--	0.0	--	--	0.0	--	--	--	1.1	--	3.9	--	--	0.7	--	--	0.7	--	--	--	3.4	--	0.8	--	--	1.0	--
OU2MW-02D	Montauk Highway	--	2.0	--	--	0.0	--	--	--	2.2	--	0.4	--	--	0.7	--	--	0.5	--	--	--	2.9	--	0.3	--	--	0.7	--
Temperature (degrees Celcius)																												
OU2MW-30S	9 North Clinton	13.6	--	14.4	13.9	17.7	20.3	22.2	22.9	21.0	19.7	18.7	11.8	12.6	12.0	11.5	12.0	14.2	19.2	20.9	19.6	19.9	19.0	18.9	15.0	13.3	11.3	10.4
OU2MW-30I	9 North Clinton	13.9	--	15.2	14.4	16.6	16.6	19.2	20.4	19.0	15.8	16.8	12.5	13.4	14.0	13.4	13.9	14.6	17.2	22.4	16.7	16.3	16.4	16.1	14.9	14.5	13.3	6.0
OU2MW-30I2	9 North Clinton	13.8	--	15.1	15.2	17.7	17.0	19.6	19.9	18.3	15.4	16.8	12.6	13.1	12.5	14.0	12.8	14.4	17.2	20.4	19.2	17.2	16.6	16.3	13.7	13.2	13.1	13.5
OU2MW-30I3	9 North Clinton	13.2	--	14.5	15.1	18.4	18.3	21.5	18.2	17.8	15.8	16.0	12.5	12.8	13.1	13.4	13.3	14.9	17.5	18.5	17.5	19.2	16.8	15.6	14.4	13.9	12.9	12.7
OU2MW-30D	9 North Clinton	12.6	--	14.7	15.0	18.2	16.9	21.5	17.0	17.0	15.7	16.0	11.9	12.4	12.9	13.1	13.0	14.2	17.9	25.8	16.5	17.6	17.2	15.9	13.5	13.7	12.9	13.2
OU2MW-30D2	9 North Clinton	13.0	--	14.5	15.5	17.9	17.3	19.8	16.9	18.3	14.8	16.6	12.1	12.9	13.7	13.2	13.4	14.5	16.8	23.7	16.3	17.1	17.3	15.1	14.5	14.4	13.2	12.1
OU2MW-39S	33 North Clinton	12.6	10.5	11.9	12.4	13.6	15.6	22.3	19.0	17.3	16.8	14.1	12.1	11.2	9.8	9.4	11.7	11.5	15.2	17.4	16.8	16.6	16.3	13.9	14.5	11.8	8.9	8.2
OU2MW-39I	33 North Clinton	14.0	12.1	13.7	14.3	14.4	15.1	21.0	16.6	15.3	14.8	13.9	12.6	13.3	12.7	12.0	13.0	13.0	15.5	17.0	15.5	14.1	15.0	13.7	14.4	12.7	11.6	10.9
OU2MW-39I2	33 North Clinton	12.6	--	13.4	12.7	13.9	15.1	23.6	17.2	14.3	14.0	12.2	12.4	12.3	12.4	12.0	13.6	13.2	14.6	17.2	15.7	14.9	14.3	13.3	13.3	12.5	11.5	10.6
OU2MW-39D	33 North Clinton	12.2	11.9	12.9	13.0	14.5	15.1	21.9	15.9	14.6	13.6	11.8	11.7	11.9	11.5	11.9	12.9	14.7	15.5	15.6	16.8	14.9	14.1	13.2	13.0	12.3	12.1	10.5
OU2MW-47S	34 North Clinton	13.0	12.3	12.6	16.1	17	18.8	19.0	19.1	--	18.4	16.0	13.3	12.8	12.2	12.0	13.5	15.3	16.9	22.4	17.2	18.0	18.9	16.3	14.6	15.0	11.3	9.7
OU2MW-47I	34 North Clinton	13.5	13.7	12.8	15.9	16.9	19.7	17.3	12.6	--	16.4	14.8	13.9	13.9	13.8	13.9	--	15.2	15.3	18.4	15.7	16.4	18.9	15.7	15.1	17.9	13.1	12.6
OU2MW-47I2	34 North Clinton	13.3	13.4	14.0	16.3	17	18.9	17.8	16.8	--	16.4	14.5	13.6	13.0	13.5	13.7	--	14.9	17.2	20.0	15.6	16.2	16.5	15.2	14.3	15.4	13.6	12.8
OU2MW-47D	34 North Clinton	13.4	12.6	13.4	16.2	17.1	17.5	17.7	17.3	--	16.0	13.9	13.7	12.8	13.1	--	--	14.8	--	18.8	16.0	16.1	16.0	15.2	14.3	17.8	13.3	12.8
OU2MW-19I	Cooper Lane	--	--	12.4	--	--	16.3	--	18.2	--	--	16.1	--	13.0	--	--	13.2	--	--	17.2	--	--	17.5	--	--	13.4	--	--
OU2MW-19I2	Cooper Lane	--	--	12.2	--	--	17.8	--	17.4	--	--	14.2	--	13.9	--	--	14.2	--	--	16.9	--	--	16.1	--	--	13.4	--	--
OU2MW-19D	Cooper Lane	--	--	12.4	--	--	16.0	--	18.4	--	--	14.9	--	13.7	--	--	13.9	--	--	16.1	--	--	16.3	--	--	13.0	--	--
OU2MW-02S	Montauk Highway	--	--	--	--	18.7	--	--	--	22.7	--	15.2	--	--	12.5	--	--	16.6	--	--	--	19.4	--	14.7	--	--	9.8	--

Appendix E - Table E-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
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Well ID	Oxygen Injection System	2012												2013												2014		
		Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
OU2MW-02I	Montauk Highway	--	10.2	--	--	17.9	--	--	--	20.9	--	12.8	--	--	11.0	--	--	16.6	--	--	--	17.3	--	13.3	--	--	9.6	--
OU2MW-02I2	Montauk Highway	--	9.1	--	--	18.6	--	--	--	20.6	--	13.7	--	--	10.5	--	--	15.6	--	--	--	16.1	--	13.7	--	--	10.2	--
OU2MW-02D	Montauk Highway	--	9.6	--	--	17.6	--	--	--	21.1	--	13.8	--	--	10.0	--	--	15.5	--	--	--	16.7	--	13.3	--	--	9.4	--
Oxidation Reduction Potential (mV)																												
OU2MW-30S	9 North Clinton	220	--	285	224	229	265	210	236	290	203	224	221	277	309	236	251	239	185	141	139	194	207	224	249	273	253	257
OU2MW-30I	9 North Clinton	2	--	261	208	233	261	218	220	285	199	221	245	272	304	228	271	197	168	130	229	198	234	245	252	268	239	118
OU2MW-30I2	9 North Clinton	155	--	275	196	211	261	229	221	284	194	121	239	264	177	225	238	183	164	124	99	215	236	237	224	252	222	186
OU2MW-30I3	9 North Clinton	218	--	309	226	228	281	235	252	239	233	245	255	290	303	263	252	205	213	168	190	222	261	271	282	306	289	283
OU2MW-30D	9 North Clinton	203	--	325	208	222	265	224	266	242	231	248	270	269	304	252	246	174	196	208	270	240	253	247	261	285	260	244
OU2MW-30D2	9 North Clinton	215	--	301	217	223	256	216	145	216	216	215	224	284	322	271	269	210	216	204	249	167	191	240	260	304	276	277
OU2MW-39S	33 North Clinton	177	187	160	205	230	179	281	258	172	215	219	197	185	212	172	152	190	167	219	123	154	202	232	176	183	205	231
OU2MW-39I	33 North Clinton	164	182	120	170	196	159	192	222	155	156	197	181	139	180	155	121	152	114	166	54	86	166	213	163	151	195	184
OU2MW-39I2	33 North Clinton	145	--	157	180	186	146	174	125	104	93	60	34	56	68	1	1	28	-24	16	-20	-33	-22	145	157	101	151	116
OU2MW-39D	33 North Clinton	111	103	113	103	105	78	92	54	92	65	105	90	142	120	87	82	83	77	129	91	68	90	86	82	142	55	105
OU2MW-47S	34 North Clinton	261	266	203	243	239	223	202	257	--	228	266	425	281	300	263	230	245	184	135	192	195	242	232	230	223	253	130
OU2MW-47I	34 North Clinton	231	238	333	237	257	239	192	228	--	229	231	397	258	289	214	--	213	167	133	161	185	224	227	223	213	237	171
OU2MW-47I2	34 North Clinton	241	235	168	171	224	232	187	226	--	207	229	388	246	296	226	--	172	170	159	227	191	235	217	226	220	220	193
OU2MW-47D	34 North Clinton	240	248	347	252	289	211	202	248	--	228	230	391	254	307	--	--	158	--	131	218	192	237	210	240	215	233	194
OU2MW-19I	Cooper Lane	--	--	233	--	--	197	--	263	--	--	200	--	248	--	--	156	--	--	199	--	--	161	--	--	227	--	--
OU2MW-19I2	Cooper Lane	--	--	289	--	--	169	--	241	--	--	184	--	141	--	--	221	--	--	189	--	--	155	--	--	231	--	--
OU2MW-19D	Cooper Lane	--	--	269	--	--	157	--	140	--	--	170	--	204	--	--	108	--	--	133	--	--	120	--	--	187	--	--
OU2MW-02S	Montauk Highway	--	--	--	--	191	--	--	--	224	--	255	--	--	210	--	--	168	--	--	--	189	--	230	--	--	158	--
OU2MW-02I	Montauk Highway	--	-74	--	--	-102	--	--	--	-72	--	-60	--	--	12	--	--	15	--	--	--	160	--	210	--	--	203	--
OU2MW-02I2	Montauk Highway	--	9	--	--	-20	--	--	--	-50	--	-31	--	--	-20	--	--	-21	--	--	--	-17	--	-32	--	--	-100	--
OU2MW-02D	Montauk Highway	--	78	--	--	78	--	--	--	50	--	105	--	--	133	--	--	108	--	--	--	71	--	71	--	--	137	--

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OU-2 Oxygen Injection System
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Well ID	Oxygen Injection System	2014									2015												2016							
		Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	July-16	Aug-16
pH (SU)																														
OU2MW-30S	9 North Clinton	5.66	5.85	5.74	5.57	5.84	5.51	5.78	5.56	5.85	5.74	5.62	5.22	5.85	5.79	5.71	6.06	5.59	5.24	4.64	5.10	--	5.60	3.68	5.37	5.58	5.78	6.16	6.31	5.94
OU2MW-30I	9 North Clinton	5.97	6.22	6.04	5.68	6.11	6.39	6.08	6.11	6.27	6.19	6.04	6.37	6.27	6.60	6.06	6.39	5.90	5.32	4.85	5.38	--	5.72	4.27	5.57	5.74	6.02	6.37	6.49	6.14
OU2MW-30I2	9 North Clinton	6.32	5.91	5.83	5.36	5.79	5.93	5.78	5.69	5.92	6.05	5.78	6.14	6.14	6.48	6.04	6.37	5.89	5.10	4.83	5.52	--	5.81	4.34	5.58	5.70	5.96	6.29	6.47	6.26
OU2MW-30I3	9 North Clinton	5.04	5.18	5.07	4.83	5.38	5.12	5.17	4.91	4.86	4.91	4.97	4.81	5.20	4.95	4.99	5.38	5.02	4.99	4.52	5.07	--	5.01	3.53	4.88	5.10	5.15	5.58	5.79	5.35
OU2MW-30D	9 North Clinton	5.76	5.36	5.23	4.82	5.48	5.64	5.35	5.09	4.88	5.27	5.14	5.65	5.46	5.81	5.25	5.61	5.11	4.93	4.59	5.09	--	--	3.59	4.98	5.18	5.17	5.53	5.70	5.35
OU2MW-30D2	9 North Clinton	5.28	5.28	5.34	4.94	5.32	5.47	5.42	5.31	5.08	5.29	5.17	5.28	5.51	5.25	5.19	5.63	5.18	5.03	4.53	5.21	--	--	3.64	5.23	5.51	5.38	5.73	5.94	5.63
OU2MW-39S	33 North Clinton	5.71	5.74	5.29	5.58	5.84	5.09	5.34	6.16	5.96	5.87	5.57	6.71	5.36	5.55	5.59	5.50	5.60	4.80	5.35	5.23	4.68	5.77	5.93	5.42	5.48	2.49	5.81	6.02	5.92
OU2MW-39I	33 North Clinton	6.91	6.97	6.28	6.08	6.77	6.27	6.19	6.23	6.28	6.34	6.40	6.55	6.36	6.72	6.55	6.46	6.51	5.33	6.29	5.85	5.18	6.56	6.69	6.33	6.39	3.93	6.74	6.82	6.73
OU2MW-39I2	33 North Clinton	6.12	6.31	6.29	5.75	5.98	5.31	4.24	6.50	6.31	6.17	5.76	5.80	5.96	5.98	5.73	5.70	6.03	5.35	4.83	5.74	5.14	6.12	6.18	5.76	5.71	3.34	5.92	6.13	6.13
OU2MW-39D	33 North Clinton	4.84	5.23	4.85	4.80	5.02	4.80	4.48	4.52	4.48	4.48	4.78	4.35	4.83	4.95	4.77	4.60	4.80	4.57	4.17	4.84	4.39	4.71	4.75	4.39	4.39	2.14	4.97	5.09	5.99
OU2MW-47S	34 North Clinton	5.91	5.60	5.13	5.74	5.74	5.67	5.02	5.71	5.73	5.70	5.75	5.73	5.79	5.86	5.40	5.19	5.31	5.13	5.10	5.10	5.46	5.45	5.05	5.19	5.18	5.37	5.86	5.30	5.40
OU2MW-47I	34 North Clinton	6.20	5.93	5.59	6.16	6.02	6.08	5.40	5.99	5.95	6.08	6.11	5.98	6.10	6.12	5.62	5.71	5.78	5.48	5.37	5.50	5.75	5.67	5.22	5.37	5.31	5.25	6.02	5.61	5.64
OU2MW-47I2	34 North Clinton	6.09	5.83	5.27	5.92	5.95	6.05	5.44	5.81	5.87	6.01	5.97	5.91	6.02	6.12	5.57	5.39	5.42	5.12	5.26	5.34	5.67	5.63	5.24	5.38	5.31	5.52	6.02	5.47	5.52
OU2MW-47D	34 North Clinton	6.31	6.06	6.09	6.08	6.13	5.98	5.64	6.18	5.94	6.11	6.12	6.04	5.96	6.24	5.69	5.52	5.62	5.31	5.41	5.43	5.59	5.49	5.08	5.37	5.23	5.28	5.98	5.44	5.47
OU2MW-19I	Cooper Lane	--	6.70	--	--	--	6.57	5.63	--	--	5.80	--	--	--	5.99	--	6.02	--	--	5.24	--	--	--	--	5.97	--	6.15	--	6.28	--
OU2MW-19I2	Cooper Lane	--	6.32	--	--	--	6.17	5.77	--	--	6.03	--	--	--	5.79	--	6.14	--	--	6.00	--	--	--	--	6.03	--	5.91	--	6.39	--
OU2MW-19D	Cooper Lane	--	5.46	--	--	--	5.16	4.72	--	--	4.75	--	--	--	4.88	--	5.27	--	--	4.59	--	--	--	--	4.74	--	4.76	--	5.38	--
OU2MW-02S	Montauk Highway	--	6.06	--	--	--	5.72	5.64	--	--	--	--	5.83	--	--	5.79	--	5.91	--	--	5.17	--	--	--	5.57	--	5.33	--	6.04	--
OU2MW-02I	Montauk Highway	--	5.97	--	--	--	5.66	5.29	--	--	--	--	5.47	--	--	5.56	--	5.37	--	--	5.05	--	--	--	5.26	--	4.75	--	5.66	--
OU2MW-02I2	Montauk Highway	--	5.81	--	--	--	5.64	5.31	--	--	--	--	5.48	--	--	5.50	--	5.21	--	--	5.45	--	--	--	5.24	--	5.39	--	5.57	--
OU2MW-02D	Montauk Highway	--	5.47	--	--	--	5.17	4.83	--	--	--	--	4.76	--	--	5.06	--	4.74	--	--	4.96	--	--	--	4.64	--	4.54	--	5.44	--
Conductivity (mS/cm)																														
OU2MW-30S	9 North Clinton	0.514	0.613	0.646	0.382	0.407	0.371	0.302	0.391	0.376	0.303	0.438	0.422	0.465	0.373	0.249	0.264	0.252	0.413	0.479	0.481	--	0.550	0.407	0.519	0.472	0.481	0.321	0.334	0.330
OU2MW-30I	9 North Clinton	0.493	0.566	0.817	0.649	0.632	0.614	0.566	0.617	0.527	0.495	0.672	0.595	0.609	0.537	0.459	0.552	0.479	0.492	0.501	0.481	--	0.504	0.386	0.573	0.511	0.541	0.483	0.551	0.522
OU2MW-30I2	9 North Clinton	0.536	0.515	0.723	0.556	0.556	0.582	0.543	0.610	0.577	0.500	0.681	0.530	0.590	0.538	0.436	0.499	0.480	0.538	0.661	0.637	--	0.516	0.390	0.522	0.448	0.475	0.557	0.780	0.763
OU2MW-30I3	9 North Clinton	0.350	0.407	0.567	0.441	0.455	0.427	0.421	0.480	0.522	0.464	0.577	0.492	0.494	0.459	0.375	0.383	0.377	0.323	0.394	0.446	--	0.428	0.379	0.585	0.571	0.541	0.469	0.513	0.438
OU2MW-30D	9 North Clinton	0.393	0.417	0.586	0.483	0.457	0.458	0.439	0.509	0.559	0.544	0.676	0.516	0.579	0.530	0.482	0.457	0.420	0.357	0.959	0.406	--	--	0.671	0.485	0.435	0.470	0.400	0.461	0.430
OU2MW-30D2	9 North Clinton	1.140	1.100	1.600	1.23	1.20	1.19	1.13	1.23	1.28	1.200	1.400	1.160	1.240	1.180	0.906	0.933	0.906	0.777	0.415	0.967	--	--	0.311	1.040	0.985	0.980	0.889	1.030	0.965
OU2MW-39S	33 North Clinton	0.240	0.262	0.298	0.365	0.312	0.400	0.464	0.353	0.354	0.321	0.269	0.673	0.251	0.253	0.294	0.314	0.279	0.264	0.312	0.464	0.487	0.374	0.311	0.338	0.297	0.244	0.287	0.365	0.454
OU2MW-39I	33 North Clinton	0.600	0.673	0.673	0.796	0.756	0.747	0.734	0.757	0.777	0.721	0.872	0.667	0.654	0.613	0.606	0.646	0.698	0.745	0.637	0.643	0.683	0.629	0.585	0.628	0.594	0.485	0.589	0.740	0.770
OU2MW-39I2	33 North Clinton	0.529	0.601	0.618	0.460	0.396	0.327	0.002	0.416	0.358	0.455	0.464	0.447	0.524	0.503	0.490	0.506	0.523	0.588	0.559	0.500	0.538	0.427	0.351	0.478	0.484	0.389	0.485	0.613	0.598
OU2MW-39D	33 North Clinton	0.182	0.190	0.222	0.220	0.227	0.207	0.217	0.214	0.224	0.225	0.274	0.221	0.215	0.197	0.194	0.203	0.196	0.201	0.189	0.192	0.195	0.204	0.205	0.225	0.211	0.164	0.186	0.230	0.232
OU2MW-47S	34 North Clinton	0.330	0.311	0.317	0.313	0.492	0.468	0.488	0.401	0.471	0.438	0.384	0.323	0.290	0.275	0.363	0.393	0.313	0.283	0.441	0.501	0.454	0.462	0.495	0.483	0.374	0.374	0.304	0.284	0.341
OU2MW-47I	34 North Clinton	0.557	0.558	0.484	0.431	0.424	0.506	0.691	0.603	0.645	0.592	0.597	0.797	0.687	0.565	0.682	0.584	0.429	0.314	0.509	0.607	0.491	0.415	0.436	0.557	0.499	0.356	0.361	0.407	0.389
OU2MW-47I2	34 North Clinton	0.477	0.490	0.430	0.570	0.604	0.481	0.532	0.475	0.481	0.466	0.419	0.384	0.380	0.338	0.368	0.335	0.399	0.336	0.393	0.440	0.421	0.441	0.465	0.588	0.528	0.491	0.485	0.434	0.732
OU2MW-47D	34 North Clinton	0.209	0.202	0.195	0.163	0.176	0.168	0.204	0.174	0.190	0.199	0.209	0.205	0.196	0.190	0.206	0.179	0.132	0.106	0.156	0.340	0.467	0.584	0.743	0.791	0.658	0.507	0.565	0.366	0.335
OU2MW-19I	Cooper Lane	--	0.602	--	--	--	1.25	1.55	--	--	1.260	--	--	--	0.677	--	0.85	--	--	0.794	--	--	--	--	1.030	--	0.839	--	1.08	--
OU2MW-19I2	Cooper Lane	--	0.497	--	--	--	1.16	1.28	--	--	0.565	--	--	--	0.572	--	0.93	--	--	1.320	--	--	--	--	0.622	--	0.679	--	0.62	--
OU2MW-19D	Cooper Lane	--	0.614	--	--	--	0.699	0.755	--	--	0.753	--	--	--	0.724	--	0.64	--	--	0.597	--	--	--	--	0.537	--	0.563	--	0.34	--
OU2MW-02S	Montauk Highway	--	0.554	--	--	--	0.494	0.431	--	--	--	--	0.524	--	--	0.461	--	0.425	--	--	0.365	--	--	--	0.609	--	0.479	--	0.40	--
OU2MW-02I	Montauk Highway	--	0.638	--	--	--	0.648	0.726	--	--	--	--	0.748	--	--	0.595	--	0.343	--	--	0.397	--	--	--	0.503	--	0.388	--	0.40	--
OU2MW-02I2	Montauk Highway	--	0.563	--	--	--	0.655	0.810	--	--	--	--	0.758	--	--	0.443	--	0.401	--	--	0.979	--	--	--	1.120	--	1.020	--	1.16	--
OU2MW-02D	Montauk Highway	--	0.053	--	--	--	0.052	0.053	--	--	--	--	0.060	--	--	0.052	--	0.038	--	--	0.054	--	--	--	0.059	--	0.056	--	0.04	--
Dissolved Oxygen (mg/L)																														
OU2MW-30S	9 North Clinton	17.0	33.0	19.0	27.0	32.0	31.0	24.0	33.0	32.0	38.7	29.8	41.5	25.0	32.0	29.0	29.0	28.0	19.0	23.0	18.0	--	18.0	17.0	23.0	28.0	24.0	29.0	29.0	32.0
OU2MW-30I	9 North Clinton	20.0	27.0	26.0	28.0	34.0	27.0	25.0	25.0	30.0	50.0	50.0	50.0	26.0	29.0	31.0	36.0	26.0	18.0	21.0	17.0	--	19.0	17.0	25.0	25.0	23.0	36.0	34.0	39.0
OU2MW-30I2	9 North Clinton	31.0	25.0	44.0	30.0	32.0	28.0	30.0	37.0	27.0	50.0	50.0	46.7	26.0	31.0	29.0	22.0	31.0	21.0	24.0	17.0	--	19.0	16.0	21.0	24.0	16.0	42.0	45.0	36.0
OU2MW-30I3	9 North Clinton	44.0	32.0	44.0	32.0	34.0	34.0	26.0	28.0	25.0	39.5	50.0	43.6	25.0	36.0	29.0	31.0	32.0	31.0	21.0	20.0	--	21.0	17.0	25.0	24.0	18.0	36.0	30.0	39.0
OU2MW-30D	9 North Clinton	32.0	21.0	42.0	26.0	34.0	24.0	26.0	29.0	23.0	50.0	50.0	18.9	22.0	33.0	26.0	28.0	33.0	30.0	25.0	19.0	--	--	18.0	25.0	24.0	24.0	36.0	43.0	37.0
OU2MW-30D2	9 North Clinton	18.0	20.0	14.0	15.0	12.0	26.0	21.0	26.0	21.0	19.9	11.96	15.2	25.0	28.7	16.0	23.0	27.0	31.0	21.0	18.0	--	--	17.0	23.0	22.0	16.0	17.0	21.0	14.0
OU2MW-39S	33 North Clinton	18.0	25.0	21.0	30.0	26.0	27.0	30.0	21.0	8.0	23.7	14.9	40.5	16.0	12.0	22.0	21.0	21.0	24.0	35.0	17.0	25.8	14.0	12.0	10.0	13.0	21.0	22.0	20.0	22.0
OU2MW-39I	33 North Clinton	26.0	29.0	28.0	34.0	38.0	30.0	31.0	27.0	23.0	45.5	19.29	50.0	23.0	24.0	20.0	24.0	17.0	18.0	12.0	18.0	34.6	20.0	17.0	15.0	17.0	23.0	9.0	24.0	31.0
OU2MW-39I2	33 North Clinton	14.0	22.0	20.0	30.0	24.0	30.0	32.0	27.0	23.0	24.35	13.0	14.3	16.0	27.0	16.0	25.0	20.0	22.0	23.0	18.0	36.2	16.0	15.0	14.0	16.0	23.0	21.0	22.0	26.0
OU2MW-39D	33 North Clinton	0.0	2.0	2.0	0.0	0.0	0.2	0.2	0.2	4.5	1.0	1.84	9.3	4.0	5.0	3.0	0.2	0.4	3.0	0.4	0.6	17.2	3.0	5.0	5.0	5.0	3.0	7.0	0.4	0.4
OU2MW-47S	34 North Clinton	27.0	31.0	26.0	26.0	29.0	29.0	34.0	18.0	28.0	13.0	8.8	36.8	27.0	23.0	27.0	22.0	27.0	28.0	23.0	30.0	46.5	20.0	21.0	18.0	26.0	20.0	30.0	22.0	25.0
OU2MW-47I	34 North Clinton	43.0	41.0	25.0	25.0	23.0	31.0	30.0	20.0	21.0	4.6	5.3	42.3	27.0	26.0	33.0	37.0	34.0	36.0	21.0	31.0	50.0	24.0	21.0	28.0	26.0	21.0	36.0	44.0	34.0
OU2MW-47I2	34 North Clinton	28.0	44.0	27.0	30.0	29.0	17.0	24.0	23.0	21.0	19.2	7.5	44.1	21.0	21.0	33.0	55.0	27.0	34.0	25.0	31.0	50.0	23.0	23.0	21.0	26.0	30.0	33.0	28.0	42.0
OU2MW-47D	34 North Clinton	39.0	42.0	22.0	26.0	30.0	29.0	26.0	22.0	22.0	21.6	4.7	42.0	21.0	21.0	30.0	34.0	29.0	29.0	40.0	28.0	50.0	24.0	24.0	26.0	31.0	19.0	37.0	26.0	22.0
OU2MW-19I	Cooper Lane	--	17.0	--	--	--	9.6	9.4	--	--	16.40	--	--	--	31.50	--	16.36	--	--	47.670	--	--	--	--	29.6	--	26.0	--	11.0	--
OU2MW-19I2	Cooper Lane	--	20.0	--	--	--	38.5	45.0	--	--	46.00	--	--	--	37.40	--	29.69	--	--	50.000	--	--	--	--	50.0	--	31.0	--	29.1	--
OU2MW-19D	Cooper Lane	--	4.2	--	--	--	4.6	2.0	--	--	0.74	--	--	--	2.80	--	1.10	--	--	4.250	--	--	--	--	16.6	--	15.2	--	13.4	--
OU2MW-02S	Montauk Highway	--	18.0	--	--	--	29.35	34.30	--	--	--	--	40.10	--	--	19.36	--	29.51	--	--	16.2	--	--	--	50.0	--	44.9	--	28.9	--
OU2MW-02I	Montauk Highway	--	19.0	--	--	--	30.73	40.53	--	--	--	--	49.60	--	--	20.03	--	50.0	--	--	31.0	--	--	--	50.0	--	46.9	--	19.1	--
OU2MW-02I2	Montauk Highway	--	2.3	--	--	--	0.51	1.85	--	--	--	--	1.50	--	--	4.07	--	0.40	--	--	0.5	--	--	--	0.8	--	0.6	--	0.7	--
OU2MW-02D	Montauk Highway	--	1.6	--	--	--	0.46	3.00	--	--	--	--	2.00	--	--	3.30	--	0.50	--	--	0.5	--	--	--	0.9	--	0.5	--	3.9	--
Temperature (degrees Celcius)																														
OU2MW-30S	9 North Clinton	11.4	14.4	22.5	17.90	19.57	18.4	18.20	16.68	12.51	11.74	10.93	8.87	10.15	12.69	17.89	19.20	20.40	19.49	18.75	16.41		11.00	12.89	11.10	11.60	12.08	20.68	18.38	20.78
OU2MW-30I	9 North Clinton	13.2	14.4	21.0	15.20	15.38	15.8	14.49	14.60	10.96	12.50	11.10	10.10	12.03	16.00	15.67	16.70	18.10	15.56	15.15	14.58		11.90	14.70	11.90	12.60	12.27	18.01	16.13	19.10
OU2MW-30I2	9 North Clinton	13.3	14.8	18.7	15.34	16.25	15.5	14.15	14.40	12.51	12.28	10.13	10.90	12.19	17.00	16.10	17.00	19.00	15.74	14.95	14.75		11.70	14.94	12.10	12.50	12.42	18.83	17.11	19.15
OU2MW-30I3	9 North Clinton	13.6	14.6	19.9	15.60	15.78	14.5	14.62	14.57	12.08	12.44	12.55	12.30	12.75	13.08	16.68	17.00	17.90	14.39	15.38	14.80		12.00	14.47	12.70	11.40	12.64	18.75	16.46	19.80
OU2MW-30D	9 North Clinton	13.4	14.7	18.7	15.50	16.81	15.6	14.05	13.96	11.91	11.79	10.90	12.20	13.40	12.80	15.72	16.60	19.30	14.63	15.07	15.15		--	14.87	13.10	13.20	12.04	17.11	16.80	21.20
OU2MW-30D2	9 North Clinton	13.6	14.4	18.7	15.13	15.22	16.3	14.62	13.94	12.36	12.46	11.25	11.46	12.99	13.73	15.89	18.30	19.20	15.03	15.95	15.02		--	14.97	12.90	12.10	12.46	19.69	16.53	20.00
OU2MW-39S	33 North Clinton	10.0	12.0	14.1	15.39	16.55	16.4	16.27	13.89	12.23	8.98	2.94	9.07	12.52	11.60	16.72	16.95	22.55	16.91	10.71	8.87	10.96	11.50	10.90	11.40	13.40	14.26	18.84	19.68	21.33
OU2MW-39I	33 North Clinton	12.5	13.3	14.0	13.88	14.41	14.6	14.77	13.82	13.08	12.06	2.35	9.80	15.25	13.08	18.65	18.01	22.49	17.40	13.09	11.01	11.80	12.60	11.90	12.50	12.80	17.27	22.44	18.59	20.29
OU2MW-39I2	33 North Clinton	13.8	13.9	14.8	13.73	14.14	15.5	15.11	12.87	12.33	11.25	3.65	7.98	16.74	13.36	20.10	18.60	24.18	16.61	12.24	9.18	12.19	13.40	11.30	11.90	11.00	18.47	18.32	21.39	17.53
OU2MW-39D	33 North Clinton	12.4	13.4	14.6	13.45	13.55	14.2	13.70	15.88	12.22	10.97	3.42	8.45	17.73	14.31	20.20	15.09	24.55	17.18	13.16	9.76	12.06	11.90	10.20	10.20	8.00	19.01	23.29	20.08	19.66
OU2MW-47S	34 North Clinton	13.7	14.8	15.3	18.80	17.80	18.7	16.59	14.67	14.80	12.20	10.70	8.60	12.20	14.20	17.80	15.47	20.00	18.50	17.93	15.00	13.90	11.10	11.00	10.50	14.30	12.44	16.17	16.94	18.74
OU2MW-47I	34 North Clinton	15.5	16.4	14.3	19.70	17.70	18.2	14.73	13.89	14.20	14.50	15.20	11.80	11.70	14.10	15.60	13.63	17.40	19.60	15.78	13.90	13.70	12.40	12.50	11.90	15.10	15.28	15.53	15.23	17.40
OU2MW-47I2	34 North Clinton	15.0	15.4	15.8	20.00	17.90	17.3	14.91	14.14	14.90	14.50	13.20	12.70	13.80	15.70	16.40	14.09	17.90	18.40	13.94	14.60	13.30	11.80	12.10	11.60	16.00	13.57	16.07	18.20	17.39
OU2MW-47D	34 North Clinton	14.9	17.4	15.6	18.70	16.70	18.9	14.68	--	--	15.40	14.80	13.20	14.80	14.60	18.00	14.81	16.80	16.70	13.81	--	13.70	11.70	12.00	12.40	15.10	16.12	16.40	16.38	19.45
OU2MW-19I	Cooper Lane	--	12.9	--	--	--	15.94	15.49	--	--	12.06	--	--	--	12.63	--	16.16	--	--	16.37	--	--	--	--	10.50	--	12.21	--	16.4	--
OU2MW-19I2	Cooper Lane	--	14.2	--	--	--	15.31	13.96	--	--	11.35	--	--	--	13.66	--	16.08	--	--	13.82	--	--	--	--	12.10	--	13.11	--	16.2	--
OU2MW-19D	Cooper Lane	--	14.2	--	--	--	15.56	13.54	--	--	11.12	--	--	--	13.87	--	15.42	--	--	14.82	--	--	--	--	16.27	--	12.91	--	15.9	--
OU2MW-02S	Montauk Highway	--	15.1	--	--	--	16.63	14.03	--	--	--	--	9.04	--	--	17.38	--	18.38	--	--	19.21	--	--	--	11.70	--	15.86	--	15.5	--

Appendix E - Table E-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2014									2015												2016							
		Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	July-16	Aug-16
OU2MW-02I	Montauk Highway	--	15.9	--	--	--	15.33	13.62	--	--	--	--	8.25	--	--	19.11	--	19.90	--	--	14.53	--	--	--	12.70	--	16.25	--	16.2	--
OU2MW-02I2	Montauk Highway	--	15.7	--	--	--	14.84	13.29	--	--	--	--	8.85	--	--	18.62	--	18.30	--	--	13.39	--	--	--	12.40	--	12.79	--	15.6	--
OU2MW-02D	Montauk Highway	--	15.9	--	--	--	14.50	13.17	--	--	--	--	7.49	--	--	18.23	--	17.80	--	--	12.88	--	--	--	12.00	--	12.30	--	15.1	--
Oxidation Reduction Potential (mV)																														
OU2MW-30S	9 North Clinton	201	284	298	278	248	265	267	284	270	252	284	260	251	194	216	213	241	213	229	259	--	231	338	229	152	185	223	271	190
OU2MW-30I	9 North Clinton	198	235	282	270	231	147	258	260	267	235	259	246	245	194	219	185	219	215	228	268	--	218	328	233	187	173	209	270	235
OU2MW-30I2	9 North Clinton	217	252	227	283	231	212	270	271	280	234	273	256	250	201	227	191	227	228	227	268	--	214	340	252	208	153	220	280	220
OU2MW-30I3	9 North Clinton	271	317	306	327	269	292	299	311	319	326	301	334	291	269	339	235	263	272	247	294	--	250	386	258	177	217	269	299	274
OU2MW-30D	9 North Clinton	250	276	238	312	259	192	293	296	297	318	291	241	283	242	331	211	248	231	232	297	--	--	275	246	184	204	254	286	267
OU2MW-30D2	9 North Clinton	270	301	269	319	244	266	281	288	300	311	282	271	275	252	338	235	251	254	255	288	--	--	387	238	148	193	254	273	245
OU2MW-39S	33 North Clinton	183	182	219	209	228	166	163	219	237	208	261	216	259	260	261	245	260	262	160	295	208	169	182	167	128	335	219	192	202
OU2MW-39I	33 North Clinton	108	169	167	193	189	145	163	173	190	182	157	212	229	233	216	187	202	205	99	260	191	132	141	112	72	276	172	197	200
OU2MW-39I2	33 North Clinton	87	95	90	157	203	123	196	220	230	212	217	107	217	239	207	208	207	204	223	244	200	101	132	108	83	296	219	185	245
OU2MW-39D	33 North Clinton	27	60	76	110	141	131	140	133	149	131	162	141	142	165	133	138	123	140	171	181	192	93	109	137	115	165	90	93	84
OU2MW-47S	34 North Clinton	230	212	241	188	186	174	177	191	228	185	209	271	285	252	122	301	300	212	252	208	208	191	239	232	208	210	201	230	237
OU2MW-47I	34 North Clinton	236	213	214	169	265	204	163	187	217	175	196	248	271	233	178	321	319	187	250	196	211	201	229	223	200	369	196	203	225
OU2MW-47I2	34 North Clinton	246	195	243	180	179	205	170	180	218	182	215	261	287	231	152	330	281	205	170	203	200	203	236	227	199	196	212	229	217
OU2MW-47D	34 North Clinton	249	197	155	163	177	219	167	182	202	181	208	239	271	224	157	326	328	189	170	199	212	215	273	220	199	375	195	218	229
OU2MW-19I	Cooper Lane	--	177	--	--	--	225	119	--	--	262	--	--	--	181	--	228.00	--	--	185	--	--	--	--	166	--	216	--	209.0	--
OU2MW-19I2	Cooper Lane	--	178	--	--	--	202	106	--	--	274	--	--	--	211	--	201.00	--	--	140	--	--	--	--	185	--	228	--	258.0	--
OU2MW-19D	Cooper Lane	--	170	--	--	--	163	94	--	--	135	--	--	--	175	--	62.00	--	--	175	--	--	--	--	142	--	137	--	121.0	--
OU2MW-02S	Montauk Highway	--	190	--	--	--	152	218	--	--	--	--	207	--	--	191	--	218	--	--	203	--	--	--	182	--	351	--	140.0	--
OU2MW-02I	Montauk Highway	--	157	--	--	--	146	178	--	--	--	--	234	--	--	226	--	196	--	--	235	--	--	--	179	--	380	--	216.0	--
OU2MW-02I2	Montauk Highway	--	-99	--	--	--	-49	-123	--	--	--	--	58	--	--	-21	--	-78	--	--	-107	--	--	--	-79	--	-99	--	-71.0	--
OU2MW-02D	Montauk Highway	--	54	--	--	--	99	132	--	--	--	--	153	--	--	142	--	67	--	--	91	--	--	--	112	--	122	--	75.0	--

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OU-2 Oxygen Injection System
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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2016				2017												2018											
		Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
pH (SU)																													
OU2MW-30S	9 North Clinton	--	--	6.36	--	--	6.36	--	6.02	--	--	--	6.10	--	--	5.96	--	--	6.03	--	6.28	--	--	6.22	--	--	--	6.68	--
OU2MW-30I	9 North Clinton	--	--	6.31	--	--	6.28	--	6.15	--	--	--	6.25	--	--	6.35	--	--	6.16	--	6.47	--	--	6.29	--	--	--	6.86	--
OU2MW-30I2	9 North Clinton	--	--	6.45	--	--	6.56	--	6.26	--	--	--	6.31	--	--	6.44	--	--	6.08	--	6.51	--	--	6.51	--	--	--	6.89	--
OU2MW-30I3	9 North Clinton	--	--	5.65	--	--	5.64	--	5.41	--	--	--	5.50	--	--	5.65	--	--	5.59	--	5.60	--	--	5.40	--	--	--	5.80	--
OU2MW-30D	9 North Clinton	--	--	5.56	--	--	5.62	--	5.27	--	--	--	5.34	--	--	5.50	--	--	5.44	--	5.73	--	--	5.48	--	--	--	5.39	--
OU2MW-30D2	9 North Clinton	--	--	6.00	--	--	5.74	--	5.40	--	--	--	5.44	--	--	5.54	--	--	5.51	--	5.78	--	--	5.57	--	--	--	5.74	--
OU2MW-39S	33 North Clinton	--	--	6.08	--	--	6.17	--	--	--	6.18	--	6.03	--	--	6.30	--	--	--	5.95	--	6.46	--	--	6.45	--	--	4.33	--
OU2MW-39I	33 North Clinton	--	--	6.82	--	--	6.92	--	--	--	6.94	--	6.83	--	--	6.95	--	--	--	6.65	--	7.38	--	--	7.44	--	--	7.12	--
OU2MW-39I2	33 North Clinton	--	--	6.27	--	--	6.37	--	--	--	6.49	--	6.19	--	--	6.47	--	--	--	6.07	--	6.39	--	--	6.70	--	--	6.66	--
OU2MW-39D	33 North Clinton	--	--	4.93	--	--	5.25	--	--	--	5.25	--	5.04	--	--	5.15	--	--	--	4.95	--	5.07	--	--	5.52	--	--	5.27	--
OU2MW-47S	34 North Clinton	--	--	5.91	--	--	6.21	--	5.65	--	--	--	5.52	--	5.47	--	--	--	5.27	--	--	5.89	--	--	6.19	--	--	5.87	--
OU2MW-47I	34 North Clinton	--	--	5.85	--	--	6.43	--	5.82	--	--	--	5.78	--	5.87	--	--	--	5.73	--	--	6.44	--	--	6.55	--	--	6.15	--
OU2MW-47I2	34 North Clinton	--	--	6.26	--	--	6.49	--	5.76	--	--	--	5.78	--	5.83	--	--	--	5.66	--	--	6.19	--	--	6.29	--	--	5.96	--
OU2MW-47D	34 North Clinton	--	--	5.78	--	--	6.25	--	5.57	--	--	--	5.68	--	5.81	--	--	--	5.68	--	--	5.85	--	--	5.87	--	--	5.88	--
OU2MW-19I	Cooper Lane	--	--	--	6.45	6.66	--	--	--	6.42	--	--	--	5.82	6.37	--	--	--	5.89	--	--	--	6.71	--	6.47	--	--	7.13	--
OU2MW-19I2	Cooper Lane	--	--	--	6.74	6.88	--	--	--	6.65	--	--	--	5.32	6.65	--	--	--	5.91	--	--	--	6.44	--	6.71	--	--	7.38	--
OU2MW-19D	Cooper Lane	--	--	--	5.39	5.56	--	--	--	5.27	--	--	--	5.29	5.10	--	--	--	4.93	--	--	--	5.08	--	5.17	--	--	5.80	--
OU2MW-02S	Montauk Highway	--	--	--	6.09	6.09	--	--	--	6.16	--	--	5.96	--	--	5.92	--	--	5.66	--	--	6.19	--	--	6.07	--	--	5.90	--
OU2MW-02I	Montauk Highway	--	--	--	5.80	5.91	--	--	--	5.96	--	--	5.72	--	--	5.82	--	--	5.66	--	--	5.75	--	--	5.60	--	--	5.60	--
OU2MW-02I2	Montauk Highway	--	--	--	5.81	5.48	--	--	--	6.19	--	--	5.80	--	--	5.81	--	--	5.80	--	--	5.93	--	--	5.85	--	--	6.11	--
OU2MW-02D	Montauk Highway	--	--	--	5.46	5.85	--	--	--	5.76	--	--	5.33	--	--	5.34	--	--	5.71	--	--	5.52	--	--	5.53	--	--	5.53	--
Conductivity (mS/cm)																													
OU2MW-30S	9 North Clinton	--	--	0.501	--	--	0.630	--	0.788	--	--	--	0.400	--	--	0.497	--	--	1.05	--	0.595	--	--	0.287	--	--	--	0.492	--
OU2MW-30I	9 North Clinton	--	--	0.510	--	--	0.742	--	0.997	--	--	--	0.680	--	--	0.552	--	--	0.526	--	0.305	--	--	0.313	--	--	--	0.787	--
OU2MW-30I2	9 North Clinton	--	--	0.568	--	--	0.559	--	1.110	--	--	--	0.611	--	--	0.509	--	--	0.523	--	0.319	--	--	0.376	--	--	--	0.617	--
OU2MW-30I3	9 North Clinton	--	--	0.540	--	--	0.678	--	0.891	--	--	--	0.767	--	--	0.593	--	--	0.419	--	0.232	--	--	0.259	--	--	--	0.272	--
OU2MW-30D	9 North Clinton	--	--	0.490	--	--	0.580	--	0.740	--	--	--	0.577	--	--	0.525	--	--	0.545	--	0.323	--	--	0.289	--	--	--	0.324	--
OU2MW-30D2	9 North Clinton	--	--	1.020	--	--	0.922	--	1.10	--	--	--	0.886	--	--	0.797	--	--	0.682	--	0.440	--	--	0.400	--	--	--	0.487	--
OU2MW-39S	33 North Clinton	--	--	0.560	--	--	0.508	--	--	--	0.291	--	0.486	--	--	0.513	--	--	--	0.433	--	0.155	--	--	0.292	--	--	0.134	--
OU2MW-39I	33 North Clinton	--	--	0.738	--	--	0.799	--	--	--	0.627	--	0.823	--	--	0.701	--	--	--	0.765	--	0.361	--	--	0.552	--	--	0.521	--
OU2MW-39I2	33 North Clinton	--	--	0.516	--	--	0.687	--	--	--	0.636	--	0.598	--	--	0.622	--	--	--	0.454	--	0.194	--	--	0.330	--	--	0.512	--
OU2MW-39D	33 North Clinton	--	--	0.228	--	--	0.257	--	--	--	0.228	--	0.249	--	--	0.222	--	--	--	0.225	--	0.111	--	--	0.155	--	--	0.184	--
OU2MW-47S	34 North Clinton	--	--	0.618	--	--	0.578	--	0.79	--	--	--	0.400	--	0.467	--	--	--	0.531	--	--	0.181	--	--	0.254	--	--	0.356	--
OU2MW-47I	34 North Clinton	--	--	0.643	--	--	0.556	--	1.03	--	--	--	0.684	--	0.623	--	--	--	0.484	--	--	0.346	--	--	0.364	--	--	0.450	--
OU2MW-47I2	34 North Clinton	--	--	0.641	--	--	0.426	--	0.70	--	--	--	0.442	--	0.428	--	--	--	0.643	--	--	0.301	--	--	0.421	--	--	0.410	--
OU2MW-47D	34 North Clinton	--	--	0.402	--	--	0.551	--	1.55	--	--	--	0.549	--	0.362	--	--	--	0.361	--	--	0.250	--	--	0.305	--	--	0.386	--
OU2MW-19I	Cooper Lane	--	--	--	0.948	0.918	--	--	--	1.000	--	--	--	1.030	1.170	--	--	--	1.05	--	--	--	0.679	--	1.010	--	--	0.761	--
OU2MW-19I2	Cooper Lane	--	--	--	0.679	0.563	--	--	--	0.452	--	--	--	0.800	1.330	--	--	--	0.553	--	--	--	0.357	--	0.890	--	--	0.377	--
OU2MW-19D	Cooper Lane	--	--	--	0.495	0.475	--	--	--	0.444	--	--	--	0.323	0.498	--	--	--	0.505	--	--	--	0.281	--	0.312	--	--	0.369	--
OU2MW-02S	Montauk Highway	--	--	--	0.586	0.661	--	--	--	0.487	--	--	0.551	--	--	0.548	--	--	0.508	--	--	0.341	--	--	0.289	--	--	0.502	--
OU2MW-02I	Montauk Highway	--	--	--	0.388	0.414	--	--	--	0.245	--	--	0.425	--	--	0.500	--	--	0.338	--	--	0.191	--	--	0.199	--	--	0.318	--
OU2MW-02I2	Montauk Highway	--	--	--	0.991	0.062	--	--	--	0.809	--	--	1.400	--	--	1.150	--	--	1.07	--	--	0.462	--	--	0.507	--	--	0.472	--
OU2MW-02D	Montauk Highway	--	--	--	0.061	1.090	--	--	--	0.035	--	--	0.070	--	--	0.072	--	--	0.342	--	--	0.037	--	--	0.037	--	--	0.041	--
Dissolved Oxygen (mg/L)																													
OU2MW-30S	9 North Clinton	--	--	23.0	--	--	19.0	--	21.0	--	--	--	35.00	--	--	25	--	--	18.0	--	23.0	--	--	25.00	--	--	--	27.00	--
OU2MW-30I	9 North Clinton	--	--	39.0	--	--	21.0	--	43.0	--	--	--	35.00	--	--	36	--	--	20.0	--	19.0	--	--	29.00	--	--	--	27.00	--
OU2MW-30I2	9 North Clinton	--	--	25.0	--	--	22.0	--	46.4	--	--	--	40.00	--	--	34	--	--	19.0	--	19.0	--	--	33.00	--	--	--	25.00	--
OU2MW-30I3	9 North Clinton	--	--	33.0	--	--	22.0	--	37.0	--	--	--	40.00	--	--	17	--	--	18.0	--	17.0	--	--	30.00	--	--	--	20.00	--
OU2MW-30D	9 North Clinton	--	--	31.0	--	--	18.0	--	27.0	--	--	--	34.00	--	--	21	--	--	22.0	--	21.0	--	--	23.00	--	--	--	26.00	--
OU2MW-30D2	9 North Clinton	--	--	6.0	--	--	3.9	--	18.00	--	--	--	18.00	--	--	19	--	--	8.0	--	10.0	--	--	4.00	--	--	--	21.00	--
OU2MW-39S	33 North Clinton	--	--	25.0	--	--	17.0	--	--	--	17.0	--	16.00	--	--	14	--	--	--	11.0	--	27.0	--	--	30.00	--	--	13.00	--
OU2MW-39I	33 North Clinton	--	--	31.0	--	--	12.9	--	--	--	14.0	--	17.00	--	--	17	--	--	--	18.0	--	18.0	--	--	22.00	--	--	23.00	--
OU2MW-39I2	33 North Clinton	--	--	24.0	--	--	17.4	--	--	--	30.0	--	23.00	--	--	8	--	--	--	7.0	--	4.0	--	--	6.00	--	--	1.00	--
OU2MW-39D	33 North Clinton	--	--	2.0	--	--	0.6	--	--	--	1.0	--	2.00	--	--	1	--	--	--	0.40	--	4.00	--	--	1.00	--	--	0.00	--
OU2MW-47S	34 North Clinton	--	--	20.0	--	--	20.0	--	19.00	--	--	--	19.00	--	27	--	--	--	14.0	--	--	26.00	--	--	30.00	--	--	16.00	--
OU2MW-47I	34 North Clinton	--	--	29.0	--	--	26.0	--	21.00	--	--	--	21.00	--	23	--	--	--	16.0	--	--	30.00	--	--	30.00	--	--	16.00	--
OU2MW-47I2	34 North Clinton	--	--	25.0	--	--	24.0	--	27.00	--	--	--	21.00	--	36	--	--	--	17.0	--	--	20.00	--	--	36.00	--	--	15.00	--
OU2MW-47D	34 North Clinton	--	--	27.0	--	--	24.0	--	18.00	--	--	--	20.00	--	27	--	--	--	18.0	--	--	37.00	--	--	35.00	--	--	16.00	--
OU2MW-19I	Cooper Lane	--	--	--	50.0	27.9	--	--	--	16.5	--	--	--	12.25	19.01	--	--	--	16.68	--	--	--	8.58	--	12.11	--	--	16.21	--
OU2MW-19I2	Cooper Lane	--	--	--	22.6	31.8	--	--	--	32.1	--	--	--	13.35	21.87	--	--	--	26.75	--	--	--	27.63	--	27.12	--	--	16.70	--
OU2MW-19D	Cooper Lane	--	--	--	50.0	19.4	--	--	--	9.5	--	--	--	0.38	19.49	--	--	--	14.17	--	--	--	4.66	--	14.76	--	--	21.34	--
OU2MW-02S	Montauk Highway	--	--	--	14.6	23.8	--	--	--	28.3	--	--	34.87	--	--	26.9	--	--	22.16	--	--	26.27	--	--	22.28	--	--	37.55	--
OU2MW-02I	Montauk Highway	--	--	--	20.6	30.4	--	--	--	23.0	--	--	42.74	--	--	26.3	--	--	24.26	--	--	13.12	--	--	15.61	--	--	16.88	--
OU2MW-02I2	Montauk Highway	--	--	--	1.6	6.7	--	--	--	0.0	--	--	0.38	--	--	0.3	--	--	0.75	--	--	0.00	--	--	0.00	--	--	0.00	--
OU2MW-02D	Montauk Highway	--	--	--	3.7	1.3	--	--	--	0.0	--	--	0.45	--	--	0.5	--	--	7.80	--	--	0.00	--	--	0.00	--	--	0.05	--
Temperature (degrees Celcius)																													
OU2MW-30S	9 North Clinton	--	--	16.52	--	--	11.90	--	12.21	--	--	--	19.43	--	--	15.32	--	--	10.23	--	13.49	--	--	22.56		--	--	15.52	--
OU2MW-30I	9 North Clinton	--	--	14.35	--	--	13.98	--	13.50	--	--	--	16.23	--	--	14.11	--	--	12.71	--	15.41	--	--	21.36	--	--	--	13.42	--
OU2MW-30I2	9 North Clinton	--	--	13.98	--	--	14.01	--	13.77	--	--	--	16.27	--	--	14.40	--	--	13.01	--	15.78	--	--	20.07	--	--	--	13.18	--
OU2MW-30I3	9 North Clinton	--	--	14.03	--	--	14.09	--	14.22	--	--	--	15.78	--	--	13.16	--	--	13.64	--	15.21	--	--	19.95	--	--	--	13.51	--
OU2MW-30D	9 North Clinton	--	--	13.47	--	--	14.03	--	13.42	--	--	--	16.05	--	--	13.64	--	--	14.98	--	15.93	--	--	21.78	--	--	--	12.31	--
OU2MW-30D2	9 North Clinton	--	--	14.26	--	--	14.01	--	13.54	--	--	--	15.55	--	--	13.07	--	--	12.96	--	15.42	--	--	20.87	--	--	--	13.32	--
OU2MW-39S	33 North Clinton	--	--	15.09	--	--	6.69	--	--	--	15.10	--	17.84	--	--	10.27	--	--	--	11.40	--	21.16	--	--	23.40	--	--	15.20	--
OU2MW-39I	33 North Clinton	--	--	14.48	--	--	10.80	--	--	--	14.69	--	17.58	--	--	10.01	--	--	--	12.73	--	21.25	--	--	23.28	--	--	14.37	--
OU2MW-39I2	33 North Clinton	--	--	14.81	--	--	9.80	--	--	--	15.82	--	18.36	--	--	10.46	--	--	--	14.35	--	22.50	--	--	23.58	--	--	12.53	--
OU2MW-39D	33 North Clinton	--	--	14.25	--	--	11.10	--	--	--	15.46	--	20.15	--	--	10.14	--	--	--	15.39	--	24.51	--	--	26.38	--	--	13.00	--
OU2MW-47S	34 North Clinton	--	--	14.40	--	--	12.57	--	12.04	--	--	--	17.82	--	18.50	--	--	--	11.48	--	--	15.85	--	--	18.19	--	--	14.87	--
OU2MW-47I	34 North Clinton	--	--	13.08	--	--	13.83	--	13.16	--	--	--	16.30	--	16.55	--	--	--	12.25	--	--	16.39	--	--	15.13	--	--	13.69	--
OU2MW-47I2	34 North Clinton	--	--	12.34	--	--	13.37	--	13.75	--	--	--	17.61	--	16.77	--	--	--	12.47	--	--	17.29	--	--	15.65	--	--	13.11	--
OU2MW-47D	34 North Clinton	--	--	12.72	--	--	13.06	--	14.19	--	--	--	16.47	--	17.38	--	--	--	12.45	--	--	18.40	--	--	14.76	--	--	12.85	--
OU2MW-19I	Cooper Lane	--	--	--	14.28	12.36	--	--	--	12.62	--	--	--	16.29	15.26	--	--	--	12.08	--	--	--	16.78	--	20.41	--	--	16.65	--
OU2MW-19I2	Cooper Lane	--	--	--	13.02	12.36	--	--	--	13.39	--	--	--	15.78	15.34	--	--	--	12.80	--	--	--	18.07	--	19.79	--	--	14.84	--
OU2MW-19D	Cooper Lane	--	--	--	12.57	11.98	--	--	--	13.08	--	--	--	15.68	15.24	--	--	--	12.26	--	--	--	20.62	--	19.89	--	--	14.69	--
OU2MW-02S	Montauk Highway	--	--	--	11.63	7.74	--	--	--	13.35	--	--	16.57	--	--	15.29	--	--	9.77	--	--	16.98	--	--	21.13	--	--	11.67	--

Appendix E - Table E-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2016				2017												2018											
		Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
OU2MW-02I	Montauk Highway	--	--	--	11.58	7.62	--	--	--	12.90	--	--	15.59	--	--	14.21	--	--	10.82	--	--	18.08	--	--	20.34	--	--	12.07	--
OU2MW-02I2	Montauk Highway	--	--	--	11.33	10.56	--	--	--	12.71	--	--	15.75	--	--	13.74	--	--	10.70	--	--	17.67	--	--	22.77	--	--	12.45	--
OU2MW-02D	Montauk Highway	--	--	--	9.83	10.40	--	--	--	12.90	--	--	15.39	--	--	12.49	--	--	10.64	--	--	17.76	--	--	22.95	--	--	12.60	--
Oxidation Reduction Potential (mV)																													
OU2MW-30S	9 North Clinton	--	--	117	--	--	238	--	217	--	--	--	132	--	--	204	--	--	194	--	332	--	--	179	--	--	--	238	--
OU2MW-30I	9 North Clinton	--	--	272	--	--	275	--	203	--	--	--	224	--	--	210	--	--	199	--	344	--	--	251	--	--	--	246	--
OU2MW-30I2	9 North Clinton	--	--	280	--	--	281	--	187	--	--	--	226	--	--	211	--	--	208	--	353	--	--	245	--	--	--	264	--
OU2MW-30I3	9 North Clinton	--	--	284	--	--	318	--	273	--	--	--	247	--	--	222	--	--	224	--	348	--	--	298	--	--	--	322	--
OU2MW-30D	9 North Clinton	--	--	288	--	--	325	--	273	--	--	--	264	--	--	260	--	--	215	--	380	--	--	284	--	--	--	363	--
OU2MW-30D2	9 North Clinton	--	--	226	--	--	212	--	188.00	--	--	--	157	--	--	132	--	--	120	--	228	--	--	156	--	--	--	246	--
OU2MW-39S	33 North Clinton	--	--	176	--	--	266	--	--	--	163	--	221	--	--	164	--	--	--	229	--	248	--	--	293	--	--	414	--
OU2MW-39I	33 North Clinton	--	--	151	--	--	245	--	--	--	173	--	206	--	--	168	--	--	--	187	--	196	--	--	261	--	--	324	--
OU2MW-39I2	33 North Clinton	--	--	168	--	--	247	--	--	--	187	--	215	--	--	179	--	--	--	211	--	180	--	--	233	--	--	171	--
OU2MW-39D	33 North Clinton	--	--	74	--	--	78	--	--	--	72	--	73	--	--	102	--	--	--	64	--	110	--	--	119	--	--	80	--
OU2MW-47S	34 North Clinton	--	--	200	--	--	262	--	272.00	--	--	--	225	--	219	--	--	--	202	--	--	258	--	--	338	--	--	262	--
OU2MW-47I	34 North Clinton	--	--	235	--	--	259	--	262.00	--	--	--	227	--	198	--	--	--	187	--	--	251	--	--	321	--	--	267	--
OU2MW-47I2	34 North Clinton	--	--	184	--	--	264	--	259.00	--	--	--	245	--	206	--	--	--	201	--	--	264	--	--	340	--	--	283	--
OU2MW-47D	34 North Clinton	--	--	223	--	--	280	--	273.00	--	--	--	260	--	208	--	--	--	200	--	--	287	--	--	342	--	--	284	--
OU2MW-19I	Cooper Lane	--	--	--	274	150	--	--	--	244	--	--	--	151	122	--	--	--	199	--	--	--	229	--	285	--	--	171	--
OU2MW-19I2	Cooper Lane	--	--	--	283	164	--	--	--	242	--	--	--	247	151	--	--	--	227	--	--	--	148	--	288	--	--	181	--
OU2MW-19D	Cooper Lane	--	--	--	162	135	--	--	--	201	--	--	--	201	231	--	--	--	155	--	--	--	227	--	263	--	--	282	--
OU2MW-02S	Montauk Highway	--	--	--	156	179	--	--	--	191	--	--	108	--	--	119	--	--	103	--	--	211	--	--	174	--	--	225	--
OU2MW-02I	Montauk Highway	--	--	--	248	183	--	--	--	258	--	--	204	--	--	97	--	--	113	--	--	238	--	--	181	--	--	227	--
OU2MW-02I2	Montauk Highway	--	--	--	-117	42	--	--	--	-102	--	--	-115	--	--	-118	--	--	-117	--	--	-8	--	--	-67	--	--	-23	--
OU2MW-02D	Montauk Highway	--	--	--	76	-65	--	--	--	110	--	--	88	--	--	61	--	--	2	--	--	119	--	--	73	--	--	110	--

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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2019				2020			2021		Baseline Average	Historical Average	Q4 2020 - Q2 2021 Average
		Q1	Q2	Q3	Q4	Q1	Q3	Q4	Q1	Q2			
pH (SU)													
OU2MW-30S	9 North Clinton	5.59	6.56	6.67	6.31	6.21	6.17	6.69	6.26	6.13	**6.28**	**5.86**	**6.36**
OU2MW-30I	9 North Clinton	6.4	7.17	7.35	6.94	6.66	6.59	6.69	6.84	6.57	**6.64**	**6.03**	**6.70**
OU2MW-30I2	9 North Clinton	6.76	6.98	6.94	6.51	6.54	6.4	5.5	6.58	6.61	**6.54**	**6.01**	**6.23**
OU2MW-30I3	9 North Clinton	5.8	6.1	5.63	5.76	5.13	5.45	5.73	5.69	5.36	**6.10**	**5.48**	**5.59**
OU2MW-30D	9 North Clinton	5.66	5.76	5.59	--	5.13	5.44	5.38	5.48	5.48	**5.99**	**5.48**	**5.45**
OU2MW-30D2	9 North Clinton	5.3	5.92	5.42	5.69	5.73	5.63	5.82	5.81	5.71	**6.15**	**5.54**	**5.78**
OU2MW-39S	33 North Clinton	5.09	4.84	--	6.26	6.00	5.99	5.87	5.99	5.48	**5.67**	**5.69**	**5.78**
OU2MW-39I	33 North Clinton	6.66	7.5	7.55	7.55	6.95	7.14	6.53	7.70	6.56	**7.49**	**6.42**	**6.93**
OU2MW-39I2	33 North Clinton	5.29	6.32	--	5.97	4.75	5.55	5.57	5.67	4.91	**5.60**	**5.46**	**5.38**
OU2MW-39D	33 North Clinton	4.88	4.33	5.12	5.25	4.05	5.00	4.62	4.40	4.33	**6.97**	**4.97**	**4.45**
OU2MW-47S	34 North Clinton	3.96	5.84	5.91	5.86	5.54	5.66	5.87	6.14	4.25	**6.33**	**5.56**	**5.42**
OU2MW-47I	34 North Clinton	6.01	6.4	6.49	6.31	6.07	6.08	6.44	6.78	5.04	**6.55**	**5.96**	**6.09**
OU2MW-47I2	34 North Clinton	6.61	6.24	6.18	6.29	5.84	5.75	5.95	6.14	5.22	**6.28**	**5.96**	**5.77**
OU2MW-47D	34 North Clinton	6.45	6.07	5.85	5.64	5.48	5.45	5.62	5.68	4.66	**5.55**	**5.76**	**5.32**
OU2MW-19I	Cooper Lane	6.66	6.84	6.97	6.75	6.85	6.63	6.71	6.75	6.39	**7.51**	**6.38**	**6.62**
OU2MW-19I2	Cooper Lane	6.91	6.71	7.21	6.50	6.52	5.93	5.98	5.80	5.23	**5.94**	**6.20**	**5.67**
OU2MW-19D	Cooper Lane	5.29	5.19	5.29	5.21	5.45	4.92	4.97	5.07	4.76	**7.09**	**5.44**	**4.93**
OU2MW-02S	Montauk Highway	5.38	6.35	6.32	6.20	5.65	5.99	6.47	6.29	5.50	**6.88**	**5.90**	**6.09**
OU2MW-02I	Montauk Highway	5.68	5.63	5.68	6.07	5.27	5.09	5.04	5.24	5.36	**6.12**	**5.92**	**5.21**
OU2MW-02I2	Montauk Highway	5.79	6.23	6.21	6.06	5.87	5.72	5.80	6.00	5.54	**6.14**	**5.84**	**5.78**
OU2MW-02D	Montauk Highway	4.86	4.99	4.65	5.24	5.37	4.9	5.34	5.20	4.86	**5.74**	**5.20**	**5.13**
Conductivity (mS/cm)													
OU2MW-30S	9 North Clinton	0.402	0.381	0.231	0.281	0.553	0.267	0.491	0.264	0.593	**0.485**	**0.43**	**0.45**
OU2MW-30I	9 North Clinton	0.753	0.744	0.511	0.573	0.76	0.52	0.634	0.390	0.495	**0.646**	**0.60**	**0.51**
OU2MW-30I2	9 North Clinton	0.714	0.556	0.447	0.618	0.915	0.494	0.002	0.541	0.509	**0.424**	**0.57**	**0.35**
OU2MW-30I3	9 North Clinton	0.47	0.422	0.293	0.280	0.478	0.371	0.462	0.295	0.383	**0.727**	**0.46**	**0.38**
OU2MW-30D	9 North Clinton	0.504	0.437	0.287	--	0.462	0.392	0.002	0.411	0.388	**0.521**	**0.46**	**0.27**
OU2MW-30D2	9 North Clinton	0.699	0.601	0.442	0.384	0.637	0.49	0.564	0.505	0.46	**0.561**	**0.67**	**0.51**
OU2MW-39S	33 North Clinton	0.22	0.367	--	0.325	0.331	0.295	0.284	0.270	0.243	**0.211**	**0.33**	**0.27**
OU2MW-39I	33 North Clinton	0.648	0.431	0.508	0.634	0.541	0.565	0.586	0.500	0.383	**0.408**	**0.68**	**0.49**
OU2MW-39I2	33 North Clinton	0.25	0.273	--	0.169	0.445	0.23	0.22	0.197	0.19	**0.233**	**0.44**	**0.20**
OU2MW-39D	33 North Clinton	0.205	0.243	0.139	0.140	0.452	0.212	0.196	0.180	0.176	**0.133**	**0.30**	**0.18**
OU2MW-47S	34 North Clinton	0.173	0.274	0.189	0.256	0.323	0.294	0.334	0.312	0.227	**0.303**	**0.38**	**0.29**
OU2MW-47I	34 North Clinton	0.726	0.649	0.4	0.495	0.500	0.438	0.635	0.498	0.437	**0.640**	**0.60**	**0.52**
OU2MW-47I2	34 North Clinton	0.548	0.556	0.891	0.384	0.473	0.392	0.357	0.454	0.356	**0.490**	**0.53**	**0.39**
OU2MW-47D	34 North Clinton	0.459	0.39	0.284	0.419	0.758	0.272	0.247	0.329	0.224	**0.341**	**0.45**	**0.27**
OU2MW-19I	Cooper Lane	0.991	1.09	0.887	0.645	1.05	0.981	0.714	0.623	0.671	**0.631**	**0.84**	**0.67**
OU2MW-19I2	Cooper Lane	0.354	0.714	0.697	0.425	0.390	0.383	0.438	0.317	0.355	**0.553**	**0.65**	**0.37**
OU2MW-19D	Cooper Lane	0.421	0.55	0.376	0.481	0.516	0.365	0.413	0.324	0.394	**1.310**	**0.65**	**0.38**
OU2MW-02S	Montauk Highway	0.64	0.731	0.396	0.537	0.530	0.450	0.442	0.565	0.428	**0.405**	**0.55**	**0.48**
OU2MW-02I	Montauk Highway	0.721	0.726	0.505	0.619	0.674	0.515	0.592	0.582	0.428	**0.178**	**0.49**	**0.53**
OU2MW-02I2	Montauk Highway	0.446	0.262	0.226	0.281	0.345	0.431	0.507	0.394	0.221	**0.122**	**0.45**	**0.37**
OU2MW-02D	Montauk Highway	0.06	0.079	0.05	0.058	0.066	0.053	0.064	0.062	0.053	**0.037**	**0.08**	**0.06**
Dissolved Oxygen (mg/L)													
OU2MW-30S	9 North Clinton	13	24	31	26	12	28	25	12	7	**0.0**	**25.27**	**14.67**
OU2MW-30I	9 North Clinton	23	27	29	28	16	24	23	12	7	**0.0**	**29.41**	**14.00**
OU2MW-30I2	9 North Clinton	17	24	26	29	17	25	13	27	9	**0.7**	**31.21**	**16.33**
OU2MW-30I3	9 North Clinton	17	25	31	23	18	27	23	13	14	**0.0**	**30.04**	**16.67**
OU2MW-30D	9 North Clinton	18	21	31	--	20	28	17	24	17	**0.5**	**31.04**	**19.33**
OU2MW-30D2	9 North Clinton	17	22	29	6	4	21	20	16	9	**0.0**	**17.09**	**15.00**
OU2MW-39S	33 North Clinton	11	24	--	15	12	23	12	3	1	**1.8**	**21.10**	**5.33**
OU2MW-39I	33 North Clinton	17	26	22	18	9	22	23	8	9	**7.2**	**26.04**	**13.33**
OU2MW-39I2	33 North Clinton	9	31	--	23	35	6	3	8	4	**0.0**	**10.05**	**5.00**
OU2MW-39D	33 North Clinton	1	1	0	0	0	0	2	1	2	**0.0**	**1.51**	**1.67**
OU2MW-47S	34 North Clinton	14	18	22	30	13	32	21	8	15	**0.0**	**25.85**	**14.67**
OU2MW-47I	34 North Clinton	14	17	21	23	16	26	24	11	23	**0.0**	**29.29**	**19.33**
OU2MW-47I2	34 North Clinton	22	18	31	23	15	26	21	14	23	**0.0**	**29.97**	**19.33**
OU2MW-47D	34 North Clinton	24	31	25	24	16	26	19	12	22	**0.0**	**28.02**	**17.67**
OU2MW-19I	Cooper Lane	21.28	21.82	17.29	24.84	22.6	20.09	24.77	23.64	20.83	**0.0**	**17.92**	**23.08**
OU2MW-19I2	Cooper Lane	25.62	38.24	22	40.34	36.8	19.7	24.12	15.24	11.73	**0.0**	**27.64**	**17.03**
OU2MW-19D	Cooper Lane	25.92	41.37	22.37	22.46	20.33	9.15	8.12	13.05	9.2	**0.0**	**11.23**	**10.12**
OU2MW-02S	Montauk Highway	22.67	40.5	35.47	30.22	38.50	33.46	27.22	29.29	30.53	**1.8**	**23.72**	**29.01**
OU2MW-02I	Montauk Highway	16.11	26.64	25.28	18.16	5.2	18.01	11.68	19.4	0.27	**0.4**	**18.37**	**10.45**
OU2MW-02I2	Montauk Highway	0	0	0	0	0	0	0	7.06	0	**0.5**	**0.98**	**2.35**
OU2MW-02D	Montauk Highway	0	0	0	0	0	0	0	1.17	0	**0.9**	**1.20**	**0.39**
Temperature (degrees Celcius)													
OU2MW-30S	9 North Clinton	10.76	13.88	19.14	16.57	8.22	19.96	13.55	11.79	17.84	**15.0**	**15.86**	**14.39**
OU2MW-30I	9 North Clinton	12.26	14.45	15.67	15.01	9.51	16.16	13.88	13.58	15.85	**14.3**	**14.94**	**14.44**
OU2MW-30I2	9 North Clinton	12.3	13.91	16.07	14.22	10.93	15.92	37.45	13.23	17.41	**14.5**	**15.01**	**22.70**
OU2MW-30I3	9 North Clinton	12.62	15.38	23.22	14.27	11.92	16.14	13.34	12.97	16.2	**14.3**	**15.04**	**14.17**
OU2MW-30D	9 North Clinton	12.14	14.08	21.24	--	11.25	17.18	12.9	13.43	17.17	**14.0**	**14.92**	**14.50**
OU2MW-30D2	9 North Clinton	12.64	14.85	21.85	14.15	11.89	16.55	13.18	13.20	16.42	**14.2**	**15.05**	**14.27**
OU2MW-39S	33 North Clinton	4.81	14.94	--	13.68	11.01	21.53	13.99	4.10	14.21	**9.2**	**13.82**	**10.77**
OU2MW-39I	33 North Clinton	4.78	13.9	25.02	13.50	12.53	22.94	16.08	12.12	16.83	**12.9**	**14.28**	**15.01**
OU2MW-39I2	33 North Clinton	9.75	15.35	--	11.99	11.66	24.48	14.16	5.85	18.18	**12.0**	**14.10**	**12.73**
OU2MW-39D	33 North Clinton	5.33	13.99	22.75	11.65	11.67	23.83	14.02	3.67	18.05	**11.9**	**14.05**	**11.91**
OU2MW-47S	34 North Clinton	8.2	11.53	16.54	14.80	14.66	18.06	16.51	11.61	22.42	**12.6**	**15.00**	**16.85**
OU2MW-47I	34 North Clinton	11.79	11.92	15.52	13.60	15.96	14.99	15.92	14.01	21.97	**13.8**	**14.84**	**17.30**
OU2MW-47I2	34 North Clinton	12.98	13.95	15.63	13.04	13.09	16.26	15.63	12.85	24.79	**13.1**	**14.99**	**17.76**
OU2MW-47D	34 North Clinton	11.46	13.6	15.59	12.34	14.98	15.5	15.33	12.33	24.27	**13.4**	**14.93**	**17.31**
OU2MW-19I	Cooper Lane	6.11	13	20.38	15.30	12.67	17.06	13.80	13.59	12.66	**17.7**	**14.52**	**13.35**
OU2MW-19I2	Cooper Lane	8.79	14.11	20.81	13.84	13.22	16.32	13.9	13.56	14.48	**15.3**	**14.47**	**13.98**
OU2MW-19D	Cooper Lane	10.47	14.37	16.72	12.56	12.48	16.49	13.74	12.01	13.78	**15.2**	**14.39**	**13.18**
OU2MW-02S	Montauk Highway	10.42	16.75	18.03	16.42	9.68	17	13.41	6.2	20.49	**16.7**	**15.17**	**13.37**

Appendix E - Table E-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2019				2020			2021		Baseline Average	Historical Average	Q4 2020 - Q2 2021 Average
		Q1	Q2	Q3	Q4	Q1	Q3	Q4	Q1	Q2			
OU2MW-02I	Montauk Highway	11.33	16.08	15.68	16.40	11.94	16.10	10.73	6.74	19.21	**18.0**	**14.84**	**12.23**
OU2MW-02I2	Montauk Highway	12.06	17.66	17.45	13.86	12.22	15.57	10.75	6.01	18.31	**16.0**	**14.64**	**11.69**
OU2MW-02D	Montauk Highway	11.88	15.8	18.65	13.52	12.19	15.68	11.3	7.56	17.6	**17.2**	**14.54**	**12.15**
Oxidation Reduction Potential (mV)													
OU2MW-30S	9 North Clinton	350	264	215	202	201	248	175	314	269	**11**	**226.31**	**252.67**
OU2MW-30I	9 North Clinton	314	306	212	235	209	259	186	296	283	**-119**	**213.01**	**255.00**
OU2MW-30I2	9 North Clinton	298	257	228	283	225	269	212	219	284	**-53**	**223.71**	**238.33**
OU2MW-30I3	9 North Clinton	320	260	256	260	295	311	222	334	319	**19**	**245.17**	**291.67**
OU2MW-30D	9 North Clinton	304	285	245	--	312	320	270	300	319	**87**	**242.84**	**296.33**
OU2MW-30D2	9 North Clinton	220	188	199	134	131	183	97	198	298	**-96**	**204.00**	**197.67**
OU2MW-39S	33 North Clinton	279	230	--	178	274	255	214	233	234	**147**	**211.19**	**227.00**
OU2MW-39I	33 North Clinton	170	175	130	133	246	214	281	150	216	**17**	**174.71**	**215.67**
OU2MW-39I2	33 North Clinton	198	198	--	216	412	258	235	249	268	**128**	**159.22**	**250.67**
OU2MW-39D	33 North Clinton	43	127	90	45	90	79	141	126	131	**38**	**97.02**	**132.67**
OU2MW-47S	34 North Clinton	252	346	196	321	293	278	248	261	267	**-62**	**231.04**	**258.67**
OU2MW-47I	34 North Clinton	210	334	196	316	274	284	245	234	237	**-104**	**223.15**	**238.67**
OU2MW-47I2	34 North Clinton	261	240	196	335	246	293	276	263	222	**75**	**224.90**	**253.67**
OU2MW-47D	34 North Clinton	272	260	231	343	303	303	290	288	244	**79**	**219.82**	**274.00**
OU2MW-19I	Cooper Lane	219	212	194	268	280	237	166	224	139	**-102**	**145.80**	**176.33**
OU2MW-19I2	Cooper Lane	218	218	185	208	317	280	195	259	242	**54**	**196.57**	**232.00**
OU2MW-19D	Cooper Lane	249	275	151	262	197	183	117	181	163	**-118**	**137.59**	**153.67**
OU2MW-02S	Montauk Highway	236	157	136	156	192	165	135	184	145	**-183**	**161.51**	**154.67**
OU2MW-02I	Montauk Highway	222	184	69	26	100	202	183	267	46	**101**	**96.48**	**165.33**
OU2MW-02I2	Montauk Highway	-13	-68	-46	15	-79	-60	-57	-49	-16	**-6**	**-35.57**	**-40.67**
OU2MW-02D	Montauk Highway	137	107	116	222	69	93	95	135	109	**69**	**97.89**	**113.00**

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2002					2003								2004									2005				
		Jul-02	Aug-02	Sep-02	Oct-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Aug-03	Sep-03	Jan-04	Feb-04	Mar-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Nov-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05
pH (SU)																												
IO-10	OU-3 Community Road	6.17	6.52	6.04	6.46	6.38	6.31	6.43	6.52	7.39	6.29	6.41	6.33	6.45	6.20	6.56	6.49	--	6.20	6.02	6.17	6.41	--	6.73	6.49	6.36	6.46	6.30
MW-34S	OU-3 Community Road	6.03	5.96	6.04	6.12	6.97	6.29	6.23	6.59	8.43	6.29	5.99	6.06	6.03	5.91	6.49	6.66	--	6.44	5.77	5.97	5.62	--	6.21	6.04	6.06	6.19	5.96
MW-34I	OU-3 Community Road	6.30	6.07	6.17	6.62	7.09	6.99	6.31	6.32	6.44	6.57	6.47	6.71	6.80	6.39	6.89	6.86	--	6.50	6.27	6.46	6.48	--	6.71	6.46	6.39	6.37	6.35
MW-34D	OU-3 Community Road	6.17	5.90	6.06	6.07	6.31	6.20	6.39	6.14	6.38	6.01	5.80	6.14	6.29	6.10	6.74	6.72	--	5.70	5.78	6.03	5.69	--	6.32	5.99	5.95	6.24	6.03
MW-46WR	OU-3 Community Road	--	--	--	--	6.47	6.23	6.17	6.30	6.11	5.99	5.80	--	6.02	5.99	6.43	6.50	--	6.08	5.87	6.20	6.09	--	6.26	6.06	6.15	6.32	6.12
MW-70/70S	OU-3 Community Road	5.92	5.91	5.99	5.93	5.72	5.96	6.11	6.44	6.02	5.96	5.71	5.92	6.00	5.88	6.38	6.63	--	6.31	5.82	6.11	5.96	--	5.95	5.80	5.73	6.21	5.85
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity (mS/cm)																												
IO-10	OU-3 Community Road	0.562	0.689	0.612	0.452	0.345	0.348	0.334	0.401	0.277	0.393	0.278	0.267	0.278	0.437	0.716	0.473	--	0.435	0.413	0.271	0.279	--	0.390	0.461	0.507	0.369	0.397
MW-34S	OU-3 Community Road	0.490	0.624	0.540	0.577	0.586	0.429	0.451	0.538	0.361	0.535	0.492	0.554	0.494	0.500	0.555	0.530	--	0.632	0.446	0.428	0.423	--	0.370	0.403	0.430	0.419	0.751
MW-34I	OU-3 Community Road	0.553	0.640	0.724	0.341	0.483	0.293	0.316	0.508	0.349	0.391	0.305	0.268	0.294	0.558	0.684	0.627	--	0.404	0.300	0.323	0.296	--	0.336	0.351	0.489	0.376	0.425
MW-34D	OU-3 Community Road	0.214	0.277	0.252	0.261	0.318	0.250	0.222	0.301	0.198	0.246	0.284	0.309	0.277	0.231	0.255	0.191	--	0.211	0.213	0.212	0.194	--	0.195	0.203	0.210	0.173	0.262
MW-46WR	OU-3 Community Road	--	--	--	--	0.476	0.372	0.391	0.455	0.616	0.991	0.821	--	0.609	0.721	1.140	1.330	--	1.220	0.709	0.629	0.432	--	0.535	1.000	1.565	2.370	2.230
MW-70/70S	OU-3 Community Road	0.388	0.578	0.556	0.477	0.422	0.310	0.339	0.606	1.250	0.328	0.356	0.443	0.355	0.394	0.481	0.340	--	0.645	0.644	0.630	0.435	--	0.311	0.296	0.516	0.449	0.574
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (mg/L)																												
IO-10	OU-3 Community Road	12.0	0.8	10.0	5.5	16.0	8.0	0.0	2.5	25.0	22.0	19.0	11.0	12.0	7.0	5.0	4.0	--	0.0	0.0	2.0	0.0	--	0.0	0.1	0.0	0.0	0.0
MW-34S	OU-3 Community Road	0.4	0.0	1.0	0.2	0.0	0.0	2.0	0.0	1.8	0.0	0.8	0.8	0.2	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0	--	0.0	0.0	0.6	0.0	0.0
MW-34I	OU-3 Community Road	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	--	0.0	0.0	0.0	0.0	--	0.0	0.3	0.0	0.0	0.0
MW-34D	OU-3 Community Road	1.0	1.0	1.6	0.9	1.6	0.4	2.0	0.0	1.2	1.0	1.0	0.8	0.4	0.4	0.0	0.0	--	0.0	0.0	0.0	0.0	--	0.0	0.3	0.0	0.0	0.0
MW-46WR	OU-3 Community Road	--	--	--	--	14.0	0.0	0.0	0.5	3.0	2.0	1.2	--	0.0	1.2	1.0	1.4	--	0.0	0.0	0.5	0.0	--	0.0	0.0	0.2	0.0	0.0
MW-70/70S	OU-3 Community Road	20.0	3.0	6.0	7.0	18.0	9.0	0.0	1.0	11.0	9.0	19.0	19.0	22.0	26.0	25.0	40.0	--	0.0	0.0	0.0	0.0	--	27.0	27.0	14.0	7.0	0.0
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2002					2003								2004									2005				
		Jul-02	Aug-02	Sep-02	Oct-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Aug-03	Sep-03	Jan-04	Feb-04	Mar-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Nov-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05
Temperature (degrees Celcius)																												
IO-10	OU-3 Community Road	17.3	18.9	19.8	18.7	15.5	14.1	9.5	10.9	11.4	13.6	15.9	18.0	17.5	10.7	9.8	10.1	--	18.4	19.0	17.7	19.5	--	11.3	11.0	10.2	11.8	13.1
MW-34S	OU-3 Community Road	21.2	21.5	22.0	19.5	12.4	8.9	5.0	5.9	8.3	13.1	16.6	21.5	18.8	7.6	6.8	7.7	--	18.7	20.6	20.0	21.2	--	8.0	6.6	6.8	11.4	12.8
MW-34I	OU-3 Community Road	16.4	16.1	17.5	18.3	16.3	14.4	11.9	11.7	10.7	12.7	14.2	16.2	16.6	12.6	11.9	11.0	--	15.4	16.5	16.9	17.9	--	11.6	11.6	10.7	11.7	11.5
MW-34D	OU-3 Community Road	15.7	15.9	16.3	16.7	14.8	14.9	11.0	13.0	12.8	13.0	14.3	15.2	14.7	13.0	13.4	12.2	--	15.9	16.0	15.8	16.4	--	11.8	12.8	12.4	12.9	12.5
MW-46WR	OU-3 Community Road	--	--	--	--	13.0	10.6	7.3	8.3	10.8	15.8	18.8	--	19.7	7.2	6.5	8.6	--	21.9	24.0	22.8	22.7	--	8.6	7.4	7.6	13.7	16.0
MW-70/70S	OU-3 Community Road	19.0	20.4	21.7	19.2	13.8	11.1	7.1	7.4	8.6	13.2	15.6	20.2	18.2	8.9	7.8	8.1	--	19.4	20.3	20.9	20.7	--	7.8	8.1	7.6	10.4	12.3
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential (mV)																												
IO-10	OU-3 Community Road	11	-125	3	-73.5	1	117	-159	-104	-23	-4	3	11	-12	-16	27	21	--	-97	-101	-7	-72	--	-110	-96	-118	-117	-84
MW-34S	OU-3 Community Road	-150	-171	-24	-118.5	-67	35	85	-75	-71	-61	-115	-106	-42	-95	-140	-112	--	-165	-109	-124	-123	--	-61	3	-33	-54	-183
MW-34I	OU-3 Community Road	-147	-178	-142	-156	-100	-303	-222	-139	-164	-109	-137	-136	-117	-132	-150	-129	--	-150	-130	-144	-117	--	-87	-93	-106	-113	-141
MW-34D	OU-3 Community Road	55	85	58	28.5	25	-16	45	118	85	22	62	77	114	132	-95	-20	--	16	5	63	107	--	125	130	82	90	115
MW-46WR	OU-3 Community Road	--	--	--	--	-23	-10	-172	-83	-50	-35	-79	--	-80	-71	-105	-69	--	-181	-119	-110	-110	--	-83	-67	-82.5	-103	-203
MW-70/70S	OU-3 Community Road	94	8	2	-8	62	169	-37	-50	46	42	10	19	34	43	12	6	--	-154	-117	-118	-148	--	68	105	73.5	40	-66
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2005									2006												2007							
		Jul-02	Aug-02	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07
pH (SU)																														
IO-10	OU-3 Community Road	6.17	6.52	6.34	6.34	6.37	6.39	6.20	6.14	6.14	6.60	6.49	6.29	--	6.13	5.69	7.26	6.00	6.44	6.16	6.79	6.51	6.10	6.26	6.22	5.97	6.09	5.43	5.75	5.83
MW-34S	OU-3 Community Road	6.03	5.96	5.84	5.88	5.84	6.05	5.85	6.12	6.03	6.39	6.09	6.00	--	6.07	5.94	6.37	6.04	6.19	6.16	6.48	6.26	6.01	6.01	6.04	6.21	6.16	6.04	5.92	5.94
MW-34I	OU-3 Community Road	6.30	6.07	6.42	6.56	6.40	6.74	6.02	6.24	6.28	6.74	6.46	6.34	--	--	6.15	6.53	6.21	6.37	6.12	6.40	6.03	5.94	6.12	5.87	6.03	6.02	6.18	6.16	6.06
MW-34D	OU-3 Community Road	6.17	5.90	6.03	6.07	6.15	6.07	5.74	5.98	5.99	6.40	6.07	5.93	--	--	5.48	5.84	5.98	6.36	6.09	6.26	5.90	5.74	5.84	5.67	5.95	5.96	5.97	5.98	5.90
MW-46WR	OU-3 Community Road	--	--	6.03	6.01	6.07	6.36	5.77	5.94	6.07	6.36	6.06	5.95	--	6.11	5.79	7.53	5.96	6.29	6.25	6.18	5.81	5.57	5.72	5.79	5.82	5.93	5.97	6.09	5.85
MW-70/70S	OU-3 Community Road	5.92	5.91	5.95	6.17	6.09	6.21	5.68	5.83	5.95	6.19	6.02	5.99	--	6.18	5.68	7.40	5.92	6.12	6.00	6.18	5.71	5.68	5.92	6.22	5.99	6.20	6.05	6.06	5.89
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity (mS/cm)																														
IO-10	OU-3 Community Road	0.562	0.689	0.502	0.338	0.374	0.533	0.528	0.870	0.836	0.444	0.403	0.326	--	0.390	0.328	0.477	0.469	0.447	0.478	0.674	0.611	0.578	0.604	0.588	0.390	0.252	0.285	0.335	0.389
MW-34S	OU-3 Community Road	0.490	0.624	0.730	0.418	0.394	0.593	0.691	0.919	0.668	1.190	0.731	0.400	--	0.469	0.454	0.651	0.472	0.549	0.564	0.653	0.542	0.614	0.460	0.520	0.381	0.373	0.512	0.484	0.608
MW-34I	OU-3 Community Road	0.553	0.640	0.451	0.341	0.416	0.442	0.556	0.882	0.517	0.479	0.441	0.277	--	--	0.249	0.448	0.427	0.459	0.457	0.814	0.545	0.580	0.461	0.579	0.364	0.301	0.275	0.248	0.317
MW-34D	OU-3 Community Road	0.214	0.277	0.336	0.271	0.236	0.211	0.306	0.486	0.320	0.274	0.279	0.261	--	--	0.171	0.265	0.250	0.247	0.247	0.427	0.336	0.358	0.331	0.365	0.288	0.237	0.251	0.216	0.269
MW-46WR	OU-3 Community Road	--	--	1.420	1.350	0.549	0.940	0.551	1.100	1.000	0.830	0.604	1.200	--	0.950	1.180	0.638	0.583	0.441	0.629	0.726	5.810	0.592	0.635	0.695	0.443	0.345	0.474	0.511	0.562
MW-70/70S	OU-3 Community Road	0.388	0.578	0.600	0.392	0.355	0.415	0.469	0.718	0.501	0.654	0.541	0.353	--	0.387	0.327	0.504	0.373	0.433	0.493	0.674	0.597	0.570	0.543	0.445	0.424	0.327	0.358	0.395	0.422
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (mg/L)																														
IO-10	OU-3 Community Road	12.0	0.8	0.0	16.0	0.0	12.0	38.0	0.0	20.0	5.0	8.0	42.0	--	20.0	33.0	32.0	28.0	34.0	0.0	35.0	30.0	34.0	36.0	34.0	35.0	36.0	3.0	26.0	28.0
MW-34S	OU-3 Community Road	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-34I	OU-3 Community Road	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-34D	OU-3 Community Road	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	--	0.0	0.0	0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-46WR	OU-3 Community Road	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	1.8	0.0	1.2	2.0	5.0	0.0	4.0	6.0	12.0	10.0	9.0	13.0	8.0	0.0	1.2	5.0
MW-70/70S	OU-3 Community Road	20.0	3.0	0.4	3.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	25.0	--	20.0	35.0	25.0	33.0	34.0	22.0	25.0	40.0	40.0	33.0	33.0	41.0	42.0	44.0	12.0	28.0
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2005									2006												2007							
		Jul-02	Aug-02	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07
Temperature (degrees Celcius)																														
IO-10	OU-3 Community Road	17.3	18.9	15.3	17.0	18.1	19.6	17.4	16.6	16.3	12.9	10.9	11.8	--	13.3	16.5	18.4	18.1	18.7	17.7	16.4	15.2	13.6	11.6	10.4	12.9	13.3	16.3	17.5	18.9
MW-34S	OU-3 Community Road	21.2	21.5	16.8	18.7	21.2	22.1	17.6	15.8	10.4	9.2	8.6	9.5	--	13.5	18.1	21.1	21.3	21.0	18.3	15.0	13.2	10.5	6.5	6.5	10.2	13.0	17.2	19.2	20.2
MW-34I	OU-3 Community Road	16.4	16.1	14.4	14.6	16.1	18.1	16.9	16.7	15.3	13.4	12.1	11.7	--	--	15.1	16.9	16.4	17.5	16.8	16.5	15.4	13.6	11.5	11.8	12.2	11.5	14.8	14.8	16.6
MW-34D	OU-3 Community Road	15.7	15.9	14.6	14.8	15.9	16.5	15.4	15.4	15.0	13.8	13.2	13.1	--	--	15.0	16.0	15.0	15.7	15.3	15.5	14.9	14.1	12.7	12.9	13.3	12.7	14.2	14.7	15.8
MW-46WR	OU-3 Community Road	--	--	20.1	22.6	23.5	24.0	18.9	15.1	11.8	9.8	9.1	10.5	--	18.4	22.0	24.2	24.3	22.4	19.0	15.7	13.3	11.9	7.9	8.1	13.9	16.0	20.4	22.9	23.8
MW-70/70S	OU-3 Community Road	19.0	20.4	17.0	18.5	20.5	21.1	18.4	15.0	11.4	9.5	8.6	9.4	--	14.1	17.6	20.4	20.2	19.9	17.7	15.6	13.5	11.5	8.3	6.8	9.7	11.9	16.4	19.2	20.0
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential (mV)																														
IO-10	OU-3 Community Road	11	-125	-92.5	11	-123	24	42	-53	44	44	5	51	--	42	42	129	30	40	-12	74	64	73	95	-88	-5	22	-35	89	75
MW-34S	OU-3 Community Road	-150	-171	-44	-141	-135	-88	-180	-39	-57	-127	-107	-150	--	-162	-177	-125	-121	-144	-77	-173	-207	-97	-165	-219	-361	-289	-297	-247	-234
MW-34I	OU-3 Community Road	-147	-178	-106	-156	-167	-137	-188	-130	-101	-109	-92	-109	--	--	-177	-81	-120	-121	-37	-93	-126	-79	-336	-267	-334	-130	-130	-50	-126
MW-34D	OU-3 Community Road	55	85	178	24	-15	191	-121	137	140	159	180	175	--	--	202	135	162	171	210	173	94	-42	-301	-278	-172	38	47	82	94
MW-46WR	OU-3 Community Road	--	--	-94	-189	-148	-119	-291	-157	-108	-143	-100	-74	--	-219	-136	-93	-130	-115	-84	-82	-76	6	-23	-136	-102	-94	-207	-136	-98
MW-70/70S	OU-3 Community Road	94	8	-62	-130	-132	-119	-279	-16	-45	-88	-90	14	--	-12	42	89	-7	-19	13	15	69	55	40	-110	-14	14	-34	18	29
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2007						2008												2009											
		Jul-02	Aug-02	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
pH (SU)																															
IO-10	OU-3 Community Road	6.17	6.52	6.12	5.96	5.59	6.30	6.69	6.37	6.32	6.69	6.16	6.51	6.31	5.78	5.89	6.32	6.83	6.02	6.56	6.22	6.07	6.35	6.17	6.61	--	6.58	6.15	--	5.87	5.98
MW-34S	OU-3 Community Road	6.03	5.96	5.88	6.90	5.45	8.15	5.96	5.91	5.85	6.60	8.15	5.96	5.85	5.85	--	7.49	6.85	8.76	6.09	6.16	5.86	6.33	6.10	6.25	6.05	6.35	5.79	6.49	6.26	6.00
MW-34I	OU-3 Community Road	6.30	6.07	5.87	6.81	5.41	8.19	5.99	6.10	6.11	6.60	7.67	6.16	6.14	5.97	--	7.79	6.84	8.02	5.97	5.84	5.61	5.92	5.83	5.70	6.05	6.46	6.09	6.47	5.82	5.73
MW-34D	OU-3 Community Road	6.17	5.90	5.86	5.98	5.21	5.98	6.02	5.83	5.76	6.23	5.82	5.90	5.79	5.79	--	5.82	6.06	5.47	5.90	5.78	5.62	5.95	5.96	6.00	5.87	6.26	5.82	6.39	5.79	5.66
MW-46WR	OU-3 Community Road	--	--	5.72	6.34	5.27	7.26	5.29	5.79	5.68	6.48	6.58	5.90	5.87	5.71	5.66	6.76	7.33	6.91	5.78	5.88	5.48	5.66	5.79	5.81	5.64	5.87	5.60	--	6.00	5.49
MW-70/70S	OU-3 Community Road	5.92	5.91	5.95	6.62	5.43	7.18	6.10	6.03	5.97	6.59	7.03	6.28	--	6.24	6.11	6.81	6.53	7.34	5.90	5.82	5.74	--	5.96	5.92	--	6.10	5.74	--	5.88	5.88
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.89	--	5.85	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.90	--	5.97	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.82	--	--	7.46
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.84	--	--	7.09
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.69	--	6.24	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.30	--	5.88	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.84	--	5.95	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.66	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.97	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity (mS/cm)																															
IO-10	OU-3 Community Road	0.562	0.689	0.436	0.330	0.514	0.389	0.515	0.473	0.434	0.412	0.393	0.291	0.600	0.326	0.314	0.329	0.392	0.448	0.341	0.310	0.297	0.313	0.346	0.312	--	0.326	0.288	--	0.406	0.298
MW-34S	OU-3 Community Road	0.490	0.624	0.673	0.367	0.495	0.409	0.588	0.387	0.398	0.387	0.484	0.374	0.754	0.301	--	0.549	0.441	0.397	3.720	2.060	1.100	1.360	0.802	0.892	0.698	0.810	0.696	0.738	0.671	0.753
MW-34I	OU-3 Community Road	0.553	0.640	0.401	0.343	0.445	0.344	0.360	0.393	0.422	0.391	0.332	0.265	0.440	0.249	--	0.360	0.417	0.458	0.346	0.340	0.326	0.401	0.835	0.644	0.327	0.296	0.325	0.276	0.383	0.289
MW-34D	OU-3 Community Road	0.214	0.277	0.295	0.222	0.337	0.259	0.276	0.284	0.292	0.293	0.305	0.277	0.509	0.219	--	0.283	0.281	0.271	0.290	0.305	0.331	0.405	0.466	0.520	0.411	0.398	0.419	0.404	0.528	0.354
MW-46WR	OU-3 Community Road	--	--	0.561	0.301	0.574	0.484	0.420	0.351	0.324	0.335	0.367	0.337	0.732	0.260	0.309	0.400	0.426	0.407	0.557	0.597	0.769	1.130	2.770	0.797	0.422	0.383	0.550	--	0.647	0.365
MW-70/70S	OU-3 Community Road	0.388	0.578	0.456	0.320	0.439	0.371	0.392	0.369	0.354	0.366	0.373	0.337	--	0.583	0.239	0.448	0.456	0.393	0.417	0.461	0.519	0.502	0.634	0.704	--	1.020	0.435	--	0.836	0.718
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.446	--	0.282	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.252	--	0.187	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.598	--	--	0.693
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.484	--	--	0.300
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.653	--	0.781	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.516	--	0.397	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.307	--	0.402	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.793	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.383	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (mg/L)																															
IO-10	OU-3 Community Road	12.0	0.8	31.0	29.0	25.0	31.0	36.0	33.0	32.0	33.0	31.0	33.0	34.0	33.0	13.0	33.0	27.0	32.0	33.0	28.0	35.0	22.0	32.0	33.0	--	27.0	29.0	--	35.0	24.0
MW-34S	OU-3 Community Road	0.4	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	--	0.0	0.0	0.0	1.6	0.0	0.0	0.4	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0
MW-34I	OU-3 Community Road	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.0	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	18.0	3.0	0.0	3.0	0.0	0.0	5.0
MW-34D	OU-3 Community Road	1.0	1.0	0.0	2.0	0.0	0.6	0.4	0.4	0.0	0.8	1.0	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-46WR	OU-3 Community Road	--	--	8.0	8.0	21.0	18.0	24.0	24.0	24.0	17.0	20.0	17.0	20.0	18.0	4.0	20.0	21.0	24.0	26.0	23.0	24.0	24.0	20.0	13.0	17.0	12.0	20.0	--	17.0	16.0
MW-70/70S	OU-3 Community Road	20.0	3.0	39.0	31.0	33.0	34.0	31.0	29.0	34.0	35.0	24.0	34.0	--	31.0	23.0	22.0	28.0	29.0	32.0	35.0	32.0	36.0	39.0	29.0	--	13.8	28.0	--	23.0	25.0
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.0	--	26.0	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.0	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.9	--	--	0.0
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.0
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.0	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.1	--	0.0	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	0.0	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25.0	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.7	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2007						2008												2009											
		Jul-02	Aug-02	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09
Temperature (degrees Celcius)																															
IO-10	OU-3 Community Road	17.3	18.9	18.3	16.9	17.1	13.7	11.1	10.7	10.8	12.4	15.5	17.0	18.7	20.1	20.3	18.8	16.8	13.6	11.9	11.9	12.9	11.6	13.6	16.4	--	19.3	19.4	--	15.6	14.1
MW-34S	OU-3 Community Road	21.2	21.5	20.7	19.0	14.6	10.9	8.7	6.8	7.9	11.6	14.0	17.9	20.7	21.3	--	21.2	17.0	10.0	7.0	7.6	8.3	10.2	13.8	17.0	19.2	21.0	20.2	16.6	11.5	8.9
MW-34I	OU-3 Community Road	16.4	16.1	17.5	17.2	16.2	14.1	12.0	10.9	12.1	12.1	12.8	15.3	17.2	17.0	--	18.1	17.8	13.8	12.7	12.0	12.0	11.2	12.0	15.0	16.8	16.9	17.3	16.3	14.0	11.1
MW-34D	OU-3 Community Road	15.7	15.9	16.1	15.7	15.6	13.8	12.6	12.7	13.4	12.9	13.6	15.1	16.0	16.6	--	16.7	16.5	13.9	13.8	13.3	13.1	12.6	13.1	14.7	15.3	16.2	16.4	15.2	13.6	11.4
MW-46WR	OU-3 Community Road	--	--	23.0	15.3	15.2	10.5	8.4	8.1	10.1	13.6	16.7	21.8	24.9	24.3	22.8	19.8	16.9	10.9	8.5	8.8	11.0	12.3	16.1	20.3	23.3	24.7	22.3	--	14.2	10.5
MW-70/70S	OU-3 Community Road	19.0	20.4	19.8	17.9	16.0	11.7	8.5	8.0	8.1	11.1	14.1	16.8	--	20.9	20.8	18.9	16.7	11.5	6.7	8.8	10.1	9.9	12.8	16.2	--	20.1	21.5	--	13.5	10.2
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.2	--	14.2	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.0	--	14.5	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.3	--	--	12.1
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.1	--	--	7.5
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.9	--	12.5	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.7	--	12.9	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14.8	--	2.4	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.3	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.4	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential (mV)																															
IO-10	OU-3 Community Road	11	-125	80	169	434	95	32	18	126	213	125	140	163	170	126	136	130	96	43	104	73	159	90	107	--	85	157	--	227	218
MW-34S	OU-3 Community Road	-150	-171	-198	-101	-10	-177	-85	-71	-86	-91	-157	-198	-134	-123	--	-55	-124	-122	-108	-72	-84	-105	-150	-105	-102	-238	-75	-138	-112	-96
MW-34I	OU-3 Community Road	-147	-178	-108	-65	-15	-171	-71	-41	-31	-3	-66	-142	-74	-38	--	-37	-39	-61	-49	60	50	26	167	175	225	-213	183	-81	209	208
MW-34D	OU-3 Community Road	55	85	70	93	218	131	-4	1	220	233	209	-25	109	197	--	141	193	167	-23	113	70	140	185	135	261	-234	197	-76	201	210
MW-46WR	OU-3 Community Road	--	--	-79	43	71	-71	5	5	17	27	-6	-55	-25	-20	-23	-39	-38	-18	11	59	58	38	-11	-27	8	-71	-7	--	-18	26
MW-70/70S	OU-3 Community Road	94	8	-42	-18	385	-32	2	-10	28	11	-32	-20	--	-69	-33	-47	-42	-42	-6	51	-28	-39	-29	-32	--	-78	-8	--	36	68
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	137	--	401	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	113	--	186	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-60	--	--	1
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-117	--	--	30
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-142	--	-140	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-63	--	-89	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	122	--	111	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	90	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	89	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2010														2011										2012	
		Jul-02	Aug-02	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12
pH (SU)																													
IO-10	OU-3 Community Road	6.17	6.52	5.93	5.88	5.27	6.65	5.89	6.58	6.02	6.09	5.63	5.67	5.21	7.04	--	7.34	6.51	8.0	7.11	6.50	6.68	7.13	6.23	7.02	6.85	6.68	7.18	6.86
MW-34S	OU-3 Community Road	6.03	5.96	5.87	5.85	6.15	6.01	5.79	6.05	5.80	6.24	5.69	5.65	6.55	7.98	5.82	6.66	ER	7.34	5.74	6.57	6.18	6.58	5.72	6.55	6.47	6.21	6.62	6.72
MW-34I	OU-3 Community Road	6.30	6.07	5.66	5.56	5.13	6.33	5.92	6.24	6.15	5.75	5.71	5.73	5.01	5.50	5.62	6.38	ER	7.80	6.05	6.74	6.34	6.77	8.50	6.87	6.76	6.58	6.93	6.91
MW-34D	OU-3 Community Road	6.17	5.90	5.72	5.49	5.88	6.07	5.66	5.93	5.88	5.40	5.76	5.69	6.48	5.63	5.82	6.48	4.54	6.21	6.65	5.99	5.44	6.15	6.47	6.14	6.03	5.80	6.18	6.12
MW-46WR	OU-3 Community Road	--	--	5.36	5.34	5.53	5.82	5.60	5.89	5.84	6.00	6.00	5.86	5.17	5.83	--	6.66	5.28	7.46	7.55	7.54	6.16	6.46	5.74	6.28	6.12	5.91	6.70	6.64
MW-70/70S	OU-3 Community Road	5.92	5.91	5.72	5.67	5.16	5.87	4.78	5.82	6.01	5.95	5.64	5.63	6.10	8.90	5.82	6.64	6.55	7.73	5.54	8.06	6.43	6.62	5.87	5.71	6.41	6.24	6.92	6.61
OU3MW-02S	OU-3 Community Road	--	--	--	5.65	--	--	5.81	--	5.72	--	--	--	--	5.98	--	--	5.92	--	5.05	5.54	5.71	6.19	5.55	5.40	--	--	5.96	--
OU3MW-02I	OU-3 Community Road	--	--	--	5.84	--	--	6.08	--	5.70	--	--	--	--	5.32	--	--	5.65	--	5.10	5.02	5.74	5.93	5.49	5.25	--	--	5.09	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	5.73	5.64	--	--	5.97	--	--	--	--	7.26	--	--	5.34	--	5.50	7.64	6.18	6.52	7.40	5.90	6.65	6.38	6.36	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	5.66	5.89	--	--	6.12	--	--	--	--	5.39	--	--	4.84	--	4.90	5.74	5.97	6.40	7.42	5.76	6.35	6.24	5.57	--
OU3MW-04S	OU-3 Community Road	--	--	--	6.01	--	5.78	--	--	5.79	--	--	--	--	6.64	--	--	5.64	--	5.24	7.41	6.02	6.39	7.16	5.66	6.32	6.17	5.47	6.36
OU3MW-04I	OU-3 Community Road	--	--	--	5.54	--	5.86	--	--	6.07	--	--	--	--	6.47	--	--	5.08	--	5.05	5.70	5.64	6.08	5.47	5.37	5.92	5.79	5.29	6.06
OU3MW-04D	OU-3 Community Road	--	--	--	5.96	--	5.74	--	--	5.71	--	--	--	--	6.51	--	--	5.17	--	5.14	5.61	5.79	6.12	5.33	5.25	5.92	5.95	5.29	6.05
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.29
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.35
OU3MW-05S	OU-3 Community Road	--	--	--	--	6.35	--	--	5.71	--	--	6.21	--	--	5.59	--	--	5.58	--	--	6.84	6.19	6.63	5.83	--	6.49	--	6.31	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	5.18	--	--	5.18	--	--	5.69	--	--	5.47	--	--	4.98	--	--	5.72	5.62	5.78	5.06	--	5.14	--	5.81	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	5.60	5.79	5.99	5.90	5.48	6.32	5.52	5.32	4.84	4.88	5.13	5.48	5.50	4.88	5.13	5.92	5.27	5.74	5.05	5.87	5.84	5.71	5.88	5.78
OU3MW-07I	OU-3 Community Road	--	--	--	--	6.26	5.92	5.86	6.02	5.64	5.80	5.78	5.80	6.37	4.76	6.17	6.31	6.31	5.53	6.35	6.32	6.03	6.52	6.65	6.53	6.55	6.53	6.38	6.22
OU3MW-07I2	OU-3 Community Road	--	--	--	--	5.86	5.65	5.63	5.94	5.59	5.83	5.71	5.59	5.26	5.43	5.93	6.35	6.35	5.76	7.12	6.40	6.46	6.79	7.47	6.99	6.73	6.71	6.93	6.84
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.92
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.39
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Conductivity (mS/cm)																													
IO-10	OU-3 Community Road	0.562	0.689	0.278	0.302	0.419	0.495	0.316	0.239	0.310	0.341	0.198	0.209	0.207	0.223	--	0.544	1.490	0.573	0.900	0.432	0.447	0.460	0.510	0.421	0.424	0.496	0.432	0.485
MW-34S	OU-3 Community Road	0.490	0.624	1.000	1.130	0.805	0.680	0.826	0.398	0.542	0.668	0.680	0.674	0.563	0.387	0.783	0.667	0.490	0.481	0.537	0.447	0.920	0.503	1.100	0.808	0.484	0.444	0.394	0.411
MW-34I	OU-3 Community Road	0.553	0.640	0.296	0.293	0.484	0.319	0.363	0.266	0.239	0.216	0.354	0.258	0.209	0.273	0.261	0.255	1.100	1.290	0.299	0.591	0.999	0.387	0.450	0.375	0.385	0.416	0.425	0.428
MW-34D	OU-3 Community Road	0.214	0.277	0.335	0.342	0.374	0.289	0.305	0.248	0.285	0.294	0.336	0.268	0.255	0.375	0.320	0.251	0.782	0.261	0.759	0.291	0.925	0.257	0.380	0.299	0.323	0.330	0.298	0.317
MW-46WR	OU-3 Community Road	--	--	0.383	0.413	0.467	0.624	0.382	0.519	0.340	0.333	0.296	0.246	0.280	0.497	--	0.739	3.670	1.210	1.050	0.664	1.500	0.700	0.869	0.570	0.417	0.401	0.695	0.093
MW-70/70S	OU-3 Community Road	0.388	0.578	0.573	0.552	0.721	1.380	0.573	0.456	0.398	0.291	0.260	0.307	0.321	0.330	0.401	0.462	0.340	0.433	0.598	0.576	0.503	0.413	0.501	0.571	0.388	0.345	0.374	0.385
OU3MW-02S	OU-3 Community Road	--	--	--	1.210	--	--	0.536	--	0.274	--	--	--	--	0.453	--	--	0.818	--	0.597	0.391	1.230	0.501	0.405	0.500	--	--	0.343	--
OU3MW-02I	OU-3 Community Road	--	--	--	0.221	--	--	0.191	--	0.141	--	--	--	--	0.250	--	--	0.358	--	0.200	0.340	0.332	0.264	0.337	0.321	--	--	0.199	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	0.845	0.820	--	--	0.520	--	--	--	--	0.413	--	--	0.998	--	0.359	0.535	0.685	0.620	0.785	0.951	0.640	0.699	0.714	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	0.493	0.310	--	--	0.420	--	--	--	--	0.380	--	--	0.335	--	0.000	0.526	0.522	0.412	0.462	0.610	0.445	0.492	0.517	--
OU3MW-04S	OU-3 Community Road	--	--	--	0.619	--	0.403	--	--	0.395	--	--	--	--	0.526	--	--	1.38	--	0.821	0.659	0.867	0.718	0.672	0.861	0.834	0.678	0.813	0.780
OU3MW-04I	OU-3 Community Road	--	--	--	0.253	--	0.256	--	--	0.448	--	--	--	--	0.343	--	--	0.488	--	0.226	0.385	0.541	0.681	1.080	1.200	0.386	0.366	0.453	0.408
OU3MW-04D	OU-3 Community Road	--	--	--	0.345	--	0.750	--	--	0.300	--	--	--	--	0.333	--	--	0.517	--	0.185	0.278	0.333	0.266	0.363	0.434	0.353	0.353	0.410	0.324
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.366
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.346
OU3MW-05S	OU-3 Community Road	--	--	--	--	0.473	--	--	0.425	--	--	0.548	--	--	0.538	--	--	0.700	--	--	0.640	0.990	0.389	0.924	--	0.543	--	0.562	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	0.457	--	--	0.342	--	--	0.363	--	--	0.286	--	--	0.464	--	--	0.382	0.677	0.480	0.576	--	0.701	--	0.346	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	0.235	0.284	0.516	0.591	0.412	0.432	0.390	0.361	0.327	0.473	0.486	0.362	0.380	0.269	0.499	0.320	0.370	0.327	0.423	0.319	0.343	0.341	0.353	0.358
OU3MW-07I	OU-3 Community Road	--	--	--	--	0.355	0.335	0.357	0.359	0.270	0.241	0.200	0.187	0.172	0.183	0.368	0.377	0.417	0.252	0.347	0.322	0.343	0.321	0.347	0.350	0.394	0.414	0.376	0.416
OU3MW-07I2	OU-3 Community Road	--	--	--	--	0.275	0.278	0.346	0.353	0.261	0.316	0.258	0.211	0.194	0.254	0.274	0.244	0.418	0.323	0.466	0.369	0.427	0.368	0.397	0.391	0.436	0.451	0.456	0.447
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.439
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.352
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (mg/L)																													
IO-10	OU-3 Community Road	12.0	0.8	22.0	12.0	29.0	11.0	6.0	26.0	5.0	0.8	9.0	2.0	0.0	0.0	--	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0
MW-34S	OU-3 Community Road	0.4	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	3.0	0.0	1.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
MW-34I	OU-3 Community Road	0.0	0.0	11.0	6.0	12.7	1.9	0.0	0.4	0.0	0.0	6.0	17.0	10.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-34D	OU-3 Community Road	1.0	1.0	0.0	0.0	1.4	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-46WR	OU-3 Community Road	--	--	23.0	12.0	21.0	5.0	1.0	6.0	0.0	0.0	1.5	0.0	0.0	0.0	--	0.0	1.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
MW-70/70S	OU-3 Community Road	20.0	3.0	25.0	21.0	23.0	6.0	6.0	6.0	7.8	1.2	0.0	0.0	0.0	1.0	0.0	0.0	1.4	0.0	5.0	0.0	0.0	0.0	2.0	2.0	2.5	0.0	0.0	0.0
OU3MW-02S	OU-3 Community Road	--	--	--	20.0	--	--	29.0	--	28.0	--	--	--	--	25.0	--	--	23.0	--	18.5	20.0	24.0	24.0	30.0	24.0	--	--	23.0	--
OU3MW-02I	OU-3 Community Road	--	--	--	0.0	--	--	26.0	--	19.0	--	--	--	--	20.0	--	--	21.0	--	42.0	40.0	31.0	18.2	39.0	28.0	--	--	30.0	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	0.0	0.6	--	--	3.7	--	--	--	--	0.0	--	--	0.0	--	0.0	0.0	0.0	0.4	0.4	2.1	2.4	3.2	0.0	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	0.0	3.8	--	--	2.0	--	--	--	--	0.0	--	--	5.1	--	11.0	0.0	0.0	0.4	0.3	2.1	2.4	3.2	2.4	--
OU3MW-04S	OU-3 Community Road	--	--	--	0.0	--	0.0	--	--	1.5	--	--	--	--	0.0	--	--	0.0	--	9.7	0.0	0.0	0.4	0.7	2.2	2.5	3.0	2.6	0.0
OU3MW-04I	OU-3 Community Road	--	--	--	8.0	--	0.0	--	--	1.3	--	--	--	--	8.8	--	--	26.0	--	2.2	0.0	0.0	0.1	2.6	2.6	9.6	14.6	16.5	20.0
OU3MW-04D	OU-3 Community Road	--	--	--	0.0	--	0.0	--	--	1.9	--	--	--	--	0.0	--	--	0.0	--	0.0	0.0	0.0	0.0	2.4	1.7	2.1	2.8	2.4	0.0
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
OU3MW-05S	OU-3 Community Road	--	--	--	--	6.5	--	--	12.7	--	--	4.9	--	--	0.0	--	--	0.8	--	--	0.0	0.0	1.7	1.9	--	3.9	--	0.1	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	19.0	--	--	0.0	--	--	21.0	--	--	15.4	--	--	14.3	--	--	0.0	1.8	10.6	6.5	--	4.8	--	20.0	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	3.0	3.4	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0	4.0	7.0	1.1	1.0	5.0	11.0	10.0	8.6	10.0	11.0	20.0
OU3MW-07I	OU-3 Community Road	--	--	--	--	3.2	3.8	27.0	27.0	28.0	28.0	28.0	28.0	24.0	22.0	10.0	9.0	1.0	6.0	6.0	18.7	25.0	28.0	26.0	27.0	23.0	21.0	23.0	20.0
OU3MW-07I2	OU-3 Community Road	--	--	--	--	3.3	3.7	3.0	5.0	8.0	6.0	7.0	8.0	10.0	7.7	3.0	0.0	1.0	1.0	0.0	0.0	2.6	4.0	2.0	2.0	2.0	4.0	5.0	5.2
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2010														2011										2012	
		Jul-02	Aug-02	Jan-10	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12
Temperature (degrees Celcius)																											
IO-10	OU-3 Community Road	17.3	18.9	11.5	11.1	11.3	12.7	16.0	16.8	19.9	18.9	19.4	18.6	16.4	14.0	--	11.0	11.1	12.0	15.2	16.1	18.4	18.9	19.2	18.7	17.3	14.7	12.4	12.2
MW-34S	OU-3 Community Road	21.2	21.5	8.9	7.1	10.5	11.5	15.9	17.6	21.3	22.7	21.8	19.8	16.4	11.0	7.7	7.0	12.3	11.6	13.5	16.3	19.3	20.4	20.1	19.5	17.1	13.8	10.6	10.5
MW-34I	OU-3 Community Road	16.4	16.1	13.8	11.5	10.8	11.8	15.6	14.7	17.5	17.9	19.1	18.1	17.3	14.3	13.0	12.2	12.7	11.5	13.6	12.7	15.9	16.2	17.5	17.4	17.3	15.4	13.4	13.2
MW-34D	OU-3 Community Road	15.7	15.9	14.3	12.7	12.6	13.3	14.6	14.6	16.4	16.7	17.3	16.7	15.6	14.6	13.9	12.8	13.1	12.9	11.9	13.2	15.6	15.5	15.8	16.2	15.8	14.9	13.7	13.5
MW-46WR	OU-3 Community Road	--	--	5.6	7.3	11.5	13.8	19.0	23.0	26.2	24.0	21.6	19.4	16.3	12.1	--	7.0	10.1	13.7	17.5	20.4	23.9	25.0	22.5	21.4	16.9	13.3	10.2	10.8
MW-70/70S	OU-3 Community Road	19.0	20.4	3.4	6.8	10.7	11.3	21.2	22.0	23.7	22.0	20.4	20.4	12.6	10.1	9.1	7.8	13.0	11.5	17.5	16.6	19.5	22.5	20.8	19.4	17.1	13.1	10.2	10.8
OU3MW-02S	OU-3 Community Road	--	--	--	8.2	--	--	5.2	--	21.8	--	--	--	--	11.5	--	--	9.2	--	13.0	18.4	21.8	22.0	19.5	18.4	--	--	9.6	--
OU3MW-02I	OU-3 Community Road	--	--	--	11.0	--	--	13.1	--	17.9	--	--	--	--	12.2	--	--	11.3	--	12.0	15.0	17.1	18.2	16.3	16.1	--	--	12.8	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	9.3	13.2	--	--	20.4	--	--	--	--	12.0	--	--	9.1	--	13.7	18.6	20.1	21.6	14.3	20.0	16.0	13.1	11.2	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	10.6	13.1	--	--	17.8	--	--	--	--	14.5	--	--	13.5	--	16.6	16.4	16.6	18.8	16.7	18.0	16.6	15.1	13.8	--
OU3MW-04S	OU-3 Community Road	--	--	--	8.3	--	12.7	--	--	21.2	--	--	--	--	13.5	--	--	9.4	--	12.3	17.7	19.7	21.4	19.7	18.8	15.6	13.6	11.7	10.0
OU3MW-04I	OU-3 Community Road	--	--	--	11.9	--	12.6	--	--	17.3	--	--	--	--	15.0	--	--	12.1	--	17.1	15.2	16.6	18.1	17.1	16.6	16.2	14.4	14.1	12.5
OU3MW-04D	OU-3 Community Road	--	--	--	12.6	--	13.5	--	--	18.1	--	--	--	--	13.5	--	--	13.6	--	14.9	16.3	16.7	17.2	15.1	15.6	15.6	14.4	13.3	13.9
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.8
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.5
OU3MW-05S	OU-3 Community Road	--	--	--	--	10.4	--	--	18.2	--	--	20.5	--	--	8.2	--	--	8.6	--	--	18.6	20.2	20.2	19.2	--	13.1	--	11.9	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	11.3	--	--	17.0	--	--	18.1	--	--	12.0	--	--	10.9	--	--	15.4	16.4	16.0	16.4	--	13.9	--	14.5	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	9.7	11.9	15.7	17.7	19.8	22.0	20.0	18.1	15.0	12.1	8.1	7.5	8.8	11.7	14.1	17.1	20.2	21.0	19.1	19.8	14.9	13.9	10.4	9.8
OU3MW-07I	OU-3 Community Road	--	--	--	--	11.1	12.7	14.9	16.8	17.4	18.9	18.7	17.6	15.3	12.2	11.4	10.3	9.7	12.7	14.3	16.1	17.0	18.6	16.5	17.9	15.0	14.6	12.6	11.9
OU3MW-07I2	OU-3 Community Road	--	--	--	--	12.0	13.1	14.8	15.8	17.6	18.6	17.6	17.0	15.5	14.7	11.4	11.8	11.9	13.5	14.5	14.8	15.9	17.7	15.2	16.5	14.6	14.2	12.3	12.3
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.1
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.4
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential (mV)																											
IO-10	OU-3 Community Road	11	-125	206	145	150	57	92	68	225	164	220	217	85	53	--	-123	-160	-121	-101	-117	-129	-146	-110	-152	-144	-137	-111	-102
MW-34S	OU-3 Community Road	-150	-171	-118	-29	5	-88	-96	-172	-147	-122	3	-59	-120	-20	-68	-66	52	-103	-19	-138	-104	-71	-84	40	35	36	-53	-79
MW-34I	OU-3 Community Road	-147	-178	170	220	186	81	121	-24	200	177	217	207	100	180	58	67	-78	-117	220	-90	-89	-99	-94	-116	-109	-124	-85	-71
MW-34D	OU-3 Community Road	55	85	129	193	190	47	84	-47	221	208	220	219	96	98	94	181	259	118	-145	118	115	73	52	-126	-119	-96	45	44
MW-46WR	OU-3 Community Road	--	--	88	43	66	-37	-75	-71	-118	-116	-106	-110	-47	-62	--	-130	-93	-190	-100	-170	-169	-147	-100	-231	-188	-116	-107	-91
MW-70/70S	OU-3 Community Road	94	8	44	37	71	-40	29	-88	-31	-62	-7	-45	-74	-74	-151	-98	-34	-144	-107	-177	-145	-137	-110	-113	-163	-124	-107	-79
OU3MW-02S	OU-3 Community Road	--	--	--	183	--	--	210	--	239	--	--	--	--	136	--	--	91	--	136	168	125	99	153	270	--	--	209	--
OU3MW-02I	OU-3 Community Road	--	--	--	99	--	--	210	--	260	--	--	--	--	214	--	--	168	--	230	220	161	117	194	178	--	--	348	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	-36	-30	--	--	-51	--	--	--	--	35	--	--	46	--	20	-137	-108	-76	-142	-81	-136	-126	-99	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	-6	-45	--	--	-113	--	--	--	--	33	--	--	116	--	35	-130	-139	-134	-153	-72	-124	-96	-57	--
OU3MW-04S	OU-3 Community Road	--	--	--	-33	--	-55	--	--	-100	--	--	--	--	-135	--	--	48	--	-10	-95	-79	-30	-107	95	46	44	34	-40
OU3MW-04I	OU-3 Community Road	--	--	--	38	--	-34	--	--	-119	--	--	--	--	-9	--	--	149	--	114	-45	18	-24	15	2	-11	31	131	70
OU3MW-04D	OU-3 Community Road	--	--	--	206	--	213	--	--	216	--	--	--	--	182	--	--	165	--	130	102	125	139	92	18	-133	-57	121	65
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
OU3MW-05S	OU-3 Community Road	--	--	--	--	109	--	--	114	--	--	131	--	--	147	--	--	141	--	--	-6	32	71	47	--	167	--	106	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	136	--	--	100	--	--	115	--	--	164	--	--	210	--	--	30	60	96	143	--	126	--	164	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	-139	-107	-109	-40	-66	-121	-5	11	53	69	50	-18	8	134	77	-48	27	51	64	-76	-70	-74	23	62
OU3MW-07I	OU-3 Community Road	--	--	--	--	-56	43	190	148	198	172	165	193	172	220	158	102	-35	97	84	64	65	71	67	30	-2	7	183	160
OU3MW-07I2	OU-3 Community Road	--	--	--	--	18	42	152	133	142	129	134	192	81	93	131	58	-58	-20	-38	-77	-39	-51	-72	77	106	121	-42	-35
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-47
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-22
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2012												2013												2014				
		Jul-02	Aug-02	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14
pH (SU)																														
IO-10	OU-3 Community Road	6.17	6.52	6.60	6.61	6.66	6.23	--	6.10	5.89	6.14	5.17	5.99	6.11	6.67	6.32	6.42	6.17	6.33	6.04	--	6.13	5.96	5.60	5.71	5.86	6.28	6.19	6.19	5.91
MW-34S	OU-3 Community Road	6.03	5.96	6.22	6.39	6.25	6.21	6.11	6.47	6.56	6.02	4.42	5.93	5.88	5.82	5.75	6.14	--	5.89	5.88	5.88	5.78	5.77	5.42	5.80	5.52	7.88	5.88	6.01	5.95
MW-34I	OU-3 Community Road	6.30	6.07	6.58	6.56	6.51	6.54	6.28	6.42	6.09	6.38	4.46	5.88	5.87	5.65	5.65	6.45	6.05	6.24	6.24	6.30	6.15	6.14	5.79	5.90	5.64	7.52	5.91	6.20	6.15
MW-34D	OU-3 Community Road	6.17	5.90	5.58	5.95	6.05	6.05	6.06	6.24	7.05	6.17	4.05	5.92	5.86	6.45	6.37	6.11	5.66	5.78	5.68	5.84	5.79	5.82	5.50	5.63	5.55	8.25	5.69	6.03	5.95
MW-46WR	OU-3 Community Road	--	--	6.03	6.31	6.13	5.94	5.84	6.09	6.99	5.88	5.84	5.82	5.77	6.48	5.78	5.48	5.69	5.46	5.67	--	5.58	5.69	5.35	5.51	5.42	5.54	6.07	5.71	5.53
MW-70/70S	OU-3 Community Road	5.92	5.91	6.19	6.48	6.37	6.30	6.22	6.37	7.49	6.02	6.08	5.92	5.82	6.55	5.89	6.01	5.84	5.74	5.68	--	5.82	5.73	5.39	5.49	5.57	5.96	7.30	5.79	5.63
OU3MW-02S	OU-3 Community Road	--	--	--	5.95	--	--	5.96	--	--	5.87	--	--	5.58	--	6.22	--	--	--	--	--	--	--	--	5.49	--	--	6.46	5.62	--
OU3MW-02I	OU-3 Community Road	--	--	--	4.91	--	--	5.79	--	--	5.85	--	--	5.73	--	6.11	--	--	--	--	--	--	--	--	5.40	--	--	5.97	5.71	--
OU3MW-03S	OU-3 Community Road	--	--	--	5.65	6.39	6.33	6.30	6.32	7.66	6.32	--	--	--	--	6.28	6.38	--	6.12	5.98	6.12	6.02	--	--	5.69	--	--	6.06	5.81	--
OU3MW-03I	OU-3 Community Road	--	--	--	5.84	6.14	6.08	6.21	6.39	7.53	6.07	5.98	5.70	5.69	5.92	6.27	6.06	5.87	5.70	--	6.06	5.70	5.88	5.91	5.85	5.79	5.94	6.33	5.88	--
OU3MW-04S	OU-3 Community Road	--	--	--	6.48	--	--	5.92	--	--	6.08	--	--	5.77	--	6.20	--	--	5.94	5.90	6.18	--	--	--	5.62	--	5.65	--	5.84	--
OU3MW-04I	OU-3 Community Road	--	--	--	6.51	6.29	6.19	5.68	--	--	6.04	--	--	6.06	--	6.11	--	--	6.16	5.92	6.17	6.08	6.06	--	5.72	--	5.78	--	5.85	--
OU3MW-04D	OU-3 Community Road	--	--	--	6.33	6.18	6.07	5.86	5.73	6.87	6.38	5.94	6.11	6.08	6.15	6.39	6.53	6.04	5.90	5.87	5.98	5.82	5.82	--	5.52	--	5.59	--	5.76	--
OU3MW-04D2	OU-3 Community Road	--	--	--	6.38	--	--	6.30	--	6.26	--	--	--	5.95	6.19	6.30	6.23	5.94	6.05	--	5.88	--	--	--	5.51	--	6.68	--	5.83	--
OU3MW-04D3	OU-3 Community Road	--	--	--	3.13	--	--	5.04	--	--	--	--	--	--	--	5.87	--	--	--	--	--	--	--	--	5.65	--	6.78	--	5.84	--
OU3MW-05S	OU-3 Community Road	--	--	--	6.25	--	--	6.33	--	--	--	--	--	--	6.38	6.61	6.16	--	5.86	6.06	--	--	--	5.57	--	--	--	5.80	6.20	--
OU3MW-05I	OU-3 Community Road	--	--	--	5.94	--	--	5.96	--	--	--	--	--	--	6.99	6.13	5.94	5.91	5.89	5.95	5.94	--	--	5.41	5.63	5.58	5.64	6.05	5.71	--
OU3MW-07S	OU-3 Community Road	--	--	5.08	5.83	5.94	--	5.64	5.81	5.95	--	--	--	5.62	6.47	6.10	6.03	--	5.54	5.690	--	5.83	5.87	5.66	5.53	5.57	7.04	5.60	5.84	5.88
OU3MW-07I	OU-3 Community Road	--	--	5.73	6.45	6.03	6.31	6.41	6.20	5.80	--	--	--	6.12	7.17	6.40	6.31	6.14	6.20	6.09	6.34	6.13	6.07	5.93	5.99	5.84	6.72	6.09	6.07	5.87
OU3MW-07I2	OU-3 Community Road	--	--	6.41	6.51	6.60	6.17	6.35	5.85	6.03	--	--	--	5.75	6.09	6.34	6.31	6.16	6.11	6.19	6.38	6.18	6.03	5.77	5.78	5.62	6.04	5.95	5.85	6.07
OU3MW-07I3	OU-3 Community Road	--	--	--	6.85	6.49	5.85	6.55	5.83	6.06	--	--	--	5.79	6.63	6.08	--	6.15	5.86	5.98	5.97	5.89	5.80	5.62	6.11	5.68	6.20	6.09	5.99	5.74
OU3MW-07I4	OU-3 Community Road	--	--	--	6.11	--	--	5.87	--	--	--	--	--	5.69	--	--	6.430	--	--	--	--	--	--	--	5.55	5.53	--	--	--	5.53
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.22	6.06	5.93	5.98	5.90	6.02	5.55	5.87	5.43
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.73	6.37	6.24	6.18	5.69	6.12	5.67	6.14	6.03
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.95	5.83	5.59	5.59	5.72	6.10	5.76	6.06	5.49
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.90	5.83	5.52	5.65	5.29	5.33	5.51	5.51	5.12
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.62	6.54	6.21	6.59	5.72	5.92	6.31	6.22	5.88
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.89	5.74	5.49	5.87	5.51	5.70	5.68	5.76	5.69
Conductivity (mS/cm)																														
IO-10	OU-3 Community Road	0.562	0.689	0.417	0.485	0.510	0.459	--	0.360	0.342	1.170	1.070	0.525	0.493	0.482	0.632	0.460	0.526	0.457	0.414	--	0.517	0.399	0.578	0.518	0.384	0.411	0.444	0.334	0.491
MW-34S	OU-3 Community Road	0.490	0.624	0.595	0.642	0.472	0.508	0.558	0.442	0.289	0.613	1.370	0.681	0.605	0.659	0.682	0.558	--	0.556	0.523	0.576	0.556	0.448	0.847	1.030	1.100	1.240	0.642	0.589	0.540
MW-34I	OU-3 Community Road	0.553	0.640	0.362	0.441	0.470	0.472	0.497	0.368	0.341	0.405	0.936	0.442	0.383	0.434	0.472	0.446	0.534	0.474	0.427	0.416	0.517	0.506	0.486	0.327	0.382	0.373	0.351	0.545	0.650
MW-34D	OU-3 Community Road	0.214	0.277	0.302	0.336	0.340	0.320	0.363	0.306	0.306	0.495	0.867	0.431	0.329	0.369	0.381	6.110	5.660	5.780	0.418	0.411	0.432	0.365	0.568	0.373	0.391	0.336	0.281	0.308	0.315
MW-46WR	OU-3 Community Road	--	--	0.619	0.667	0.700	0.588	0.452	0.461	0.447	0.652	0.669	0.700	0.670	0.564	0.766	0.745	0.686	0.516	0.845	--	0.583	0.678	0.745	0.566	0.680	1.190	0.938	1.970	1.140
MW-70/70S	OU-3 Community Road	0.388	0.578	0.374	0.422	0.425	0.410	0.403	0.427	0.464	1.550	0.618	0.658	0.510	0.506	0.700	0.482	0.556	0.520	0.468	--	0.503	0.417	0.699	0.650	0.447	0.484	0.450	0.955	0.700
OU3MW-02S	OU-3 Community Road	--	--	--	0.436	--	--	0.293	--	--	0.293	--	--	0.343	--	0.504	--	--	--	--	--	--	--	--	0.730	--	--	0.519	0.748	--
OU3MW-02I	OU-3 Community Road	--	--	--	0.158	--	--	0.185	--	--	0.188	--	--	0.180	--	0.219	--	--	--	--	--	--	--	--	0.324	--	--	0.270	0.223	--
OU3MW-03S	OU-3 Community Road	--	--	--	0.649	0.452	0.516	0.503	0.283	0.443	0.617	--	--	--	--	0.536	0.526	--	0.600	0.605	0.556	0.476	--	--	0.593	--	--	0.537	0.687	--
OU3MW-03I	OU-3 Community Road	--	--	--	0.386	0.380	0.401	0.450	0.411	0.405	0.473	0.430	0.473	0.352	0.426	0.472	0.408	0.491	0.476	--	0.468	0.446	0.447	0.420	0.490	0.515	0.295	0.299	0.370	--
OU3MW-04S	OU-3 Community Road	--	--	--	0.732	--	--	0.552	--	--	0.754	--	--	0.467	--	0.541	--	--	0.475	0.498	0.482	--	--	--	0.913	--	1.050	--	0.548	--
OU3MW-04I	OU-3 Community Road	--	--	--	0.443	0.417	0.413	0.540	--	--	0.414	--	--	0.457	--	0.432	--	--	0.593	0.386	0.408	0.510	0.474	--	0.594	--	0.411	--	0.398	--
OU3MW-04D	OU-3 Community Road	--	--	--	0.305	0.287	0.289	0.900	0.299	0.309	0.377	0.367	0.389	0.324	0.308	0.332	0.323	0.379	0.332	0.372	0.377	0.386	0.430	--	0.582	--	0.337	--	0.326	--
OU3MW-04D2	OU-3 Community Road	--	--	--	0.332	--	--	0.946	--	0.278	0.362	0.388	0.430	0.350	0.404	0.354	0.335	0.382	0.324	--	0.328	--	--	--	0.595	--	0.340	--	0.321	--
OU3MW-04D3	OU-3 Community Road	--	--	--	0.350	--	--	0.478	--	--	0.344	--	--	--	--	0.371	--	--	--	--	--	--	--	--	0.586	--	0.363	--	0.388	--
OU3MW-05S	OU-3 Community Road	--	--	--	0.587	--	--	0.627	--	--	0.532	--	--	--	--	0.387	0.429	--	0.404	0.448	--	--	--	1.010	--	--	--	0.396	0.329	--
OU3MW-05I	OU-3 Community Road	--	--	--	0.401	--	--	0.365	--	--	0.301	--	--	--	0.450	0.433	0.386	0.250	0.339	0.360	0.372	--	--	0.624	0.505	0.379	0.441	0.387	0.344	--
OU3MW-07S	OU-3 Community Road	--	--	0.439	0.322	0.342	--	0.327	0.276	0.348	0.339	0.353	0.346	--	0.348	0.326	0.298	--	0.310	--	--	0.322	0.317	0.397	0.486	0.330	0.475	0.368	0.390	0.329
OU3MW-07I	OU-3 Community Road	--	--	0.531	0.373	0.371	0.370	0.406	0.347	0.350	0.457	0.449	0.467	0.365	0.373	0.385	0.377	0.273	0.441	0.464	0.416	0.484	0.464	0.534	0.604	0.420	0.430	0.407	0.440	0.408
OU3MW-07I2	OU-3 Community Road	--	--	0.414	0.387	0.383	0.410	0.322	0.292	0.299	0.445	0.466	0.401	0.364	0.435	0.427	0.400	0.277	0.445	0.443	0.356	0.366	0.353	0.448	0.573	0.408	0.408	0.421	0.434	0.378
OU3MW-07I3	OU-3 Community Road	--	--	--	0.363	0.319	0.369	0.315	0.260	0.348	0.347	0.368	0.360	0.345	0.402	0.413	--	0.252	0.370	0.361	0.306	0.313	0.304	0.394	0.463	0.378	0.399	0.419	0.397	0.336
OU3MW-07I4	OU-3 Community Road	--	--	--	0.365	--	--	0.313	--	--	0.359	--	--	0.304	--	--	0.336	--	--	--	--	--	--	--	0.379	0.341	--	--	--	0.338
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.448	0.467	0.482	0.841	0.374	0.590	0.530	0.492	0.419
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.384	0.382	0.390	0.341	0.319	0.332	0.318	0.335	0.360
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.350	0.347	0.340	0.284	0.298	0.289	0.249	0.269	0.301
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.313	0.272	0.350	0.273	0.387	0.485	0.514	0.555	0.542
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.599	0.457	0.601	0.457	0.491	0.403	0.360	0.379	0.397
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.355	0.329	0.411	0.327	0.374	0.320	0.331	0.321	0.328
Dissolved Oxygen (mg/L)																														
IO-10	OU-3 Community Road	12.0	0.8	0.0	0.0	0.0	0.0	--	31.0	28.0	31.8	1.0	1.3	34.0	26.0	28.0	13.0	32.0	28.0	27.0	--	3.0	13.0	10.0	10.0	21.0	29.0	30.0	25.0	36.0
MW-34S	OU-3 Community Road	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	0.7	0.0	2.0	0.0	0.0	--	0.6	0.5	1.0	0.0	0.0	0.5	3.0	0.0	1.1	0.0	0.0	2.0
MW-34I	OU-3 Community Road	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.0	24.0	32.0	5.9	0.6	11.6	36.0	32.0	20.4	27.0	36.0	25.0	42.0	6.0	15.5	25.0	35.0	2.0	15.3	23.0	27.0	31.0
MW-34D	OU-3 Community Road	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	1.0	0.0	0.0	0.0	0.0	0.9	0.0	0.4	0.8	0.0	0.4	0.0	11.0	0.0	0.0	1.0	0.0	0.0	3.0
MW-46WR	OU-3 Community Road	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	1.0	0.0	1.0	0.0	1.0	0.0	9.0	0.0	2.0
MW-70/70S	OU-3 Community Road	20.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	1.1	0.0	0.0	1.9	7.0	1.0	0.6	0.3	--	1.6	0.0	1.0	1.0	2.0	1.0	5.0	13.6	0.0
OU3MW-02S	OU-3 Community Road	--	--	--	28.0	--	--	25.0	--	--	14.2	--	--	31.0	--	31.0	--	--	--	--	--	--	--	--	22.0	--	--	14.9	25.0	--
OU3MW-02I	OU-3 Community Road	--	--	--	32.0	--	--	16.6	--	--	17.0	--	--	25.0	--	40.0	--	--	--	--	--	--	--	--	17.0	--	--	32.0	17.0	--
OU3MW-03S	OU-3 Community Road	--	--	--	0.8	0.0	0.0	0.0	0.0	0.0	0.0	--	--	--	--	8.7	0.6	--	1.0	0.5	2.4	1.0	--	--	1.2	--	--	1.4	6.6	--
OU3MW-03I	OU-3 Community Road	--	--	--	5.3	0.0	0.0	2.9	0.0	0.0	0.5	0.0	3.2	3.7	2.0	10.8	8.2	1.0	1.0	--	3.4	13.0	2.8	0.9	0.6	1.1	5.1	1.0	19.3	--
OU3MW-04S	OU-3 Community Road	--	--	--	0.0	--	--	0.0	--	--	0.6	--	--	1.8	--	5.3	--	--	0.4	0.4	4.9	--	--	--	1.4	--	1.1	--	1.4	--
OU3MW-04I	OU-3 Community Road	--	--	--	24.0	24.0	24.0	24.0	--	--	32.0	--	--	21.0	--	26.0	--	--	30.3	32.2	26.0	31.0	25.1	--	28.0	--	17.5	--	25.0	--
OU3MW-04D	OU-3 Community Road	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1	1.6	1.0	1.1	2.3	1.0	5.9	17.0	17.9	29.0	38.1	--	6.1	--	0.7	--	0.5	--
OU3MW-04D2	OU-3 Community Road	--	--	--	0.0	--	--	0.0	--	0.0	0.5	1.6	1.2	3.6	1.0	0.3	7.5	1.0	0.5	--	0.5	--	--	--	0.4	--	0.8	--	0.4	--
OU3MW-04D3	OU-3 Community Road	--	--	--	0.5	--	--	0.4	--	--	0.4	--	--	--	--	0.6	--	--	--	--	--	--	--	--	0.3	--	3.7	--	0.3	--
OU3MW-05S	OU-3 Community Road	--	--	--	0.0	--	--	2.3	--	--	0.0	--	--	--	7.0	14.0	2.4	--	0.9	0.9	--	--	--	0.5	--	--	--	4.4	7.6	--
OU3MW-05I	OU-3 Community Road	--	--	--	23.0	--	--	0.0	--	--	7.7	--	--	--	6.0	8.0	4.9	3.3	3.3	5.9	7.1	--	--	21.0	34.1	29.0	23.8	30.0	12.7	--
OU3MW-07S	OU-3 Community Road	--	--	20.0	22.0	29.0	--	24.0	20.0	21.0	21.0	22.0	25.0	22.0	30.0	33.0	23.0	--	36.0	22.0	--	20.0	26.0	31.0	17.0	30.0	14.0	31.0	32.0	26.0
OU3MW-07I	OU-3 Community Road	--	--	34.0	30.0	18.0	30.0	14.5	35.0	34.0	--	38.0	32.0	18.3	35.0	41.0	20.0	30.0	46.0	27.0	42.0	25.0	38.0	46.0	39.0	35.0	42.0	35.0	47.0	26.0
OU3MW-07I2	OU-3 Community Road	--	--	4.0	12.0	33.0	28.0	33.0	25.0	20.0	--	41.0	32.0	40.0	36.0	40.0	25.0	28.0	40.0	17.0	47.0	34.0	45.0	44.0	30.0	27.0	35.0	37.0	43.0	28.0
OU3MW-07I3	OU-3 Community Road	--	--	--	9.3	28.0	19.0	23.0	23.0	22.0	--	32.0	29.0	27.0	31.0	33.0	--	27.0	33.0	9.5	17.0	21.0	23.0	30.0	20.0	25.0	12.0	30.0	36.0	25.3
OU3MW-07I4	OU-3 Community Road	--	--	--	0.0	--	--	0.0	--	--	--	--	--	0.0	--	--	0.0	--	--	--	--	--	--	--	0.9	0.4	--	--	--	2.1
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	0.0	0.0	0.0	0.0	3.0	1.0	1.0	0.0
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.0	0.0	0.0	0.0	0.8	9.0	12.0	12.0	15.0
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	0.0	0.0	0.6	12.0	7.0	9.0	22.0	8.0
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15.0	22.0	22.0	29.0	37.0	30.0	24.0	27.0	22.0
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	0.0	0.0	0.6	13.0	27.0	30.0	22.0	42.0
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	0.0	0.0	0.0	4.0	2.0	9.0	12.0	16.0

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2012												2013												2014				
		Jul-02	Aug-02	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14
Temperature (degrees Celcius)																														
IO-10	OU-3 Community Road	17.3	18.9	13.2	14.7	16.0	17.4	--	19.10	20.10	20.1	17.0	15.5	12.3	10.5	11.2	11.3	13.5	16.2	19.9	--	19.7	18.1	17.0	14.5	12.4	9.3	9.8	13.7	13.5
MW-34S	OU-3 Community Road	21.2	21.5	12.7	14.9	16.4	17.6	20.35	20.40	21.90	20.3	16.9	14.1	10.6	8.4	8.7	10.2	--	13.8	19.1	20.7	20.0	19.8	16.1	11.3	9.6	7.6	9.5	11.6	13.2
MW-34I	OU-3 Community Road	16.4	16.1	13.5	14.4	15.2	16.0	16.32	17.20	17.30	19.2	17.6	15.8	14.4	12.1	11.7	12.0	12.0	12.6	16.8	18.0	17.6	18.3	16.5	13.9	12.0	12.9	11.3	12.9	12.1
MW-34D	OU-3 Community Road	15.7	15.9	13.7	15.2	16.3	16.0	16.20	15.60	16.30	16.0	15.3	15.2	14.3	12.6	12.6	13.4	13.6	13.4	16.2	16.6	16.9	17.2	15.4	13.6	13.6	12.3	13.1	13.7	13.4
MW-46WR	OU-3 Community Road	--	--	14.0	17.1	18.8	22.5	25.00	24.70	24.70	18.8	15.7	11.4	8.2	9.6	8.3	12.7	17.2	19.4	24.6	--	23.4	19.8	16.1	8.9	6.2	7.9	8.3	14.4	17.2
MW-70/70S	OU-3 Community Road	19.0	20.4	12.3	14.9	16.5	18.2	20.10	20.90	22.30	21.2	15.3	13.8	11.0	8.9	8.2	10.1	12.4	15.6	18.6	--	19.1	16.6	15.7	13.2	8.9	7.0	7.3	15.0	13.9
OU3MW-02S	OU-3 Community Road	--	--	--	11.7	--	--	21.11	--	--	17.9	--	--	10.1	--	8.8	--	--	--	--	--	--	--	--	11.2	--	--	9.0	10.3	--
OU3MW-02I	OU-3 Community Road	--	--	--	12.2	--	--	16.84	--	--	16.6	--	--	12.7	--	11.4	--	--	--	--	--	--	--	--	13.5	--	--	9.4	10.0	--
OU3MW-03S	OU-3 Community Road	--	--	--	13.2	16.0	18.3	22.53	22.00	21.60	20.4	--	--	--	--	8.7	--	--	18.1	20.5	20.3	21.7	--	--	14.1	--	--	6.3	8.4	--
OU3MW-03I	OU-3 Community Road	--	--	--	12.3	15.8	16.7	17.30	18.50	19.20	18.1	16.2	14.4	12.6	11.3	11.7	--	13.6	16.3	--	17.7	18.8	19.7	17.4	15.8	12.4	10.2	9.3	11.5	--
OU3MW-04S	OU-3 Community Road	--	--	--	12.1	--	--	20.40	--	--	19.3	--	--	9.7	--	9.2	--	--	17.0	18.8	21.3	--	--	--	12.1	--	8.0	--	9.6	--
OU3MW-04I	OU-3 Community Road	--	--	--	13.0	15.6	16.6	17.51	--	--	17.6	--	--	11.7	--	12.3	--	--	15.4	16.9	18.2	19.6	19.0	--	12.9	--	12.0	--	10.6	--
OU3MW-04D	OU-3 Community Road	--	--	--	13.7	16.1	17.3	17.80	16.70	17.20	16.6	14.3	14.5	12.7	12.6	13.3	13.8	14.3	14.6	16.4	15.8	18.6	16.8	--	13.3	--	12.9	--	12.4	--
OU3MW-04D2	OU-3 Community Road	--	--	--	13.5	--	--	17.37	--	16.10	15.4	13.7	14.2	12.8	13.1	13.5	14.3	15.7	16.2	--	16.7	--	--	--	13.7	--	13.6	--	12.5	--
OU3MW-04D3	OU-3 Community Road	--	--	--	13.6	--	--	20.17	--	--	14.8	--	--	--	--	15.6	--	--	--	--	--	--	--	--	12.7	--	13.3	--	12.9	--
OU3MW-05S	OU-3 Community Road	--	--	--	14.3	--	--	23.00	--	--	18.2	--	--	--	7.6	7.1	13.2	--	15.8	20.9	--	--	--	16.4	--	--	--	5.7	10.4	--
OU3MW-05I	OU-3 Community Road	--	--	--	15.3	--	--	20.56	--	--	17.3	--	--	--	10.5	10.4	15.0	13.9	15.5	21.4	16.9	--	--	15.3	14.3	12.2	6.9	10.5	12.6	--
OU3MW-07S	OU-3 Community Road	--	--	11.5	15.9	18.2	--	21.71	21.50	20.13	19.7	14.8	10.6	--	8.5	8.8	9.2	--	16.0	19.3	--	19.8	17.6	15.1	11.9	9.4	7.5	6.6	11.9	13.4
OU3MW-07I	OU-3 Community Road	--	--	12.6	15.3	16.7	17.7	18.68	19.30	18.70	19.9	14.4	15.2	9.8	12.3	11.0	10.8	13.0	14.6	18.1	18.0	17.4	16.8	15.5	14.1	12.5	11.3	9.6	12.1	13.0
OU3MW-07I2	OU-3 Community Road	--	--	13.6	15.4	17.1	20.6	18.59	17.70	19.20	18.2	14.6	12.7	12.2	12.0	11.7	11.6	13.5	14.5	18.0	17.2	17.2	16.1	15.2	14.2	13.0	10.6	9.9	11.9	13.1
OU3MW-07I3	OU-3 Community Road	--	--	--	12.7	16.5	19.3	18.13	17.80	16.19	17.2	14.4	11.7	13.1	11.4	12.0	--	13.9	15.7	19.8	18.0	16.3	16.0	14.9	16.9	12.9	10.1	10.6	13.0	13.2
OU3MW-07I4	OU-3 Community Road	--	--	--	12.5	--	--	18.81	--	--	16.5	--	--	13.3	--	--	11.9	--	--	--	--	--	--	--	14.7	13.3	--	--	--	13.6
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18.0	17.9	15.5	11.3	11.1	6.0	6.8	12.4	21.1
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15.7	16.7	15.1	14.5	13.3	9.7	9.5	13.8	14.8
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14.9	15.8	14.3	13.6	13.4	9.6	10.2	14.3	15.4
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.2	19.9	15.9	12.4	11.9	9.0	10.3	13.0	14.6
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.7	16.9	15.4	13.2	13.6	11.6	12.5	12.4	13.8
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.1	15.9	15.1	14.0	12.6	11.3	12.0	13.4	13.8
Oxidation Reduction Potential (mV)																														
IO-10	OU-3 Community Road	11	-125	-98	-108	-120	-86	--	106	166	119	249	248	168	202	220	172	185	159	151	--	58	81	36	13	53	119	211	207	169
MW-34S	OU-3 Community Road	-150	-171	-88	-57	15	-126	-67	-163	23	-85	371	7	-25	-25	-14	-15	--	-57	-107	-25	-8	-21	-40	150	76	-39	-26	-25	-50
MW-34I	OU-3 Community Road	-147	-178	-93	-88	-121	-127	-61	-103	75	120	382	123	137	200	187	136	148	143	96	194	107	154	140	177	112	185	197	184	205
MW-34D	OU-3 Community Road	55	85	-57	1	-3	-35	39	-86	-79	-91	175	93	66	54	42	30	25	36	56	82	87	70	13	93	100	17	12	13	15
MW-46WR	OU-3 Community Road	--	--	-161	-94	-89	-173	-184	-182	-172	-104	-11	0	-8	-45	-12	-22	-60	-41	9	--	5	-17	-14	57	27	27	-62	-30	-22
MW-70/70S	OU-3 Community Road	94	8	-125	-88	-107	-181	-204	-205	-191	-65	-29	31	-33	1	-40	-93	-51	-81	-123	--	-15	4	-35	-20	-17	-15	-100	-32	-110
OU3MW-02S	OU-3 Community Road	--	--	--	213	--	--	225	--	--	181	--	--	184	--	151	--	--	--	--	--	--	--	--	151	--	--	195	145	--
OU3MW-02I	OU-3 Community Road	--	--	--	248	--	--	377	--	--	293	--	--	215	--	226	--	--	--	--	--	--	--	--	193	--	--	125	245	--
OU3MW-03S	OU-3 Community Road	--	--	--	-19	-69	-159	-118	-153	-141	-91	--	--	--	--	-54	-65	--	-110	-148	-78	-12	--	--	-17	--	--	-24	8	--
OU3MW-03I	OU-3 Community Road	--	--	--	-34	-70	-208	-62	-196	-161	-56	-42	320	18	-10	19	25	-21	-66	--	-8	79	21	16	-5	-10	95	-89	-12	--
OU3MW-04S	OU-3 Community Road	--	--	--	-51	--	--	-230	--	--	-45	--	--	15	--	-20	--	--	-26	-88	2	--	--	--	-13	--	19	--	-15	--
OU3MW-04I	OU-3 Community Road	--	--	--	158	67	68	129	--	--	118	--	--	130	--	119	--	--	161	143	168	186	216	--	150	--	120	--	196	--
OU3MW-04D	OU-3 Community Road	--	--	--	27	97	42	-50	-8	-43	36	236	266	88	82	137	132	111	158	121	135	217	199	--	168	--	124	--	222	--
OU3MW-04D2	OU-3 Community Road	--	--	--	64	--	--	107	--	41	82	273	290	125	134	61	112	87	121	--	113	--	--	--	144	--	218	--	172	--
OU3MW-04D3	OU-3 Community Road	--	--	--	125	--	--	17	--	--	175	--	--	--	--	188	--	--	--	--	--	--	--	--	143	--	199	--	126	--
OU3MW-05S	OU-3 Community Road	--	--	--	44	--	--	18	--	--	39	--	--	--	129	145	76	--	-29	0	--	--	--	-10	--	--	--	109	143	--
OU3MW-05I	OU-3 Community Road	--	--	--	128	--	--	110	--	--	114	--	--	--	113	85	43	119	22	56	36	--	--	201	183	154	232	199	218	--
OU3MW-07S	OU-3 Community Road	--	--	232	101	23	--	105	-17	54	46	402	108	66	82	98	61	--	109	43	--	119	224	178	129	188	57	210	84	63
OU3MW-07I	OU-3 Community Road	--	--	308	211	256	175	222	150	158	--	436	445	136	271	229	187	310	178	178	254	175	229	220	195	241	178	249	252	189
OU3MW-07I2	OU-3 Community Road	--	--	-26	24	67	228	208	162	158	--	446	231	255	238	221	193	323	177	145	254	182	236	210	222	263	274	267	245	167
OU3MW-07I3	OU-3 Community Road	--	--	--	49	179	187	172	163	206	--	445	209	237	238	175	--	329	167	154	246	194	217	184	172	262	274	267	208	206
OU3MW-07I4	OU-3 Community Road	--	--	--	139	--	--	190	--	--	--	--	--	191	--	--	221	--	--	--	--	--	--	--	136	129	--	--	--	143
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-60	-80	-82	-32	22	121	21	77	-92
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-92	-87	-91	-57	52	23	73	164	178
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	88	142	130	168	228	140	116	134	154
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	97	103	50	205	191	223	91	113	99
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-112	-111	-98	-64	72	128	147	226	203
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	80	131	111	142	125	104	146	146	162

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2014									2015												2016							
		Jul-02	Aug-02	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16
pH (SU)																														
IO-10	OU-3 Community Road	6.17	6.52	5.68	6.26	6.28	6.34	6.40	5.81	6.27	--	--	6.34	6.44	6.02	5.98	5.84	6.03	5.36	5.27	5.09	5.72	--	5.91	5.77	5.53	5.74	6.30	5.76	6.24
MW-34S	OU-3 Community Road	6.03	5.96	5.51	5.49	5.64	5.10	5.74	6.08	5.72	5.95	5.63	5.72	6.14	5.89	5.77	5.33	5.50	4.75	5.04	5.04	4.77	5.83	5.88	5.46	5.29	5.35	6.83	5.36	5.82
MW-34I	OU-3 Community Road	6.30	6.07	5.67	5.77	6.21	5.31	6.40	6.36	6.11	6.34	6.08	6.12	6.56	6.58	6.43	5.97	6.10	5.14	5.41	5.47	5.10	5.88	5.88	5.84	5.58	5.84	6.18	5.72	6.02
MW-34D	OU-3 Community Road	6.17	5.90	5.36	5.84	5.89	5.60	5.85	5.75	5.55	5.78	5.34	5.47	5.93	5.91	5.83	5.28	5.55	4.86	4.95	4.97	4.89	5.62	5.52	5.50	5.17	5.33	5.96	5.44	5.91
MW-46WR	OU-3 Community Road	--	--	5.26	5.33	5.37	5.66	5.81	5.27	5.45	--	5.81	5.79	6.02	5.14	5.34	5.11	5.52	5.05	4.94	4.82	4.89	4.31	5.35	5.25	5.23	5.51	5.32	4.82	5.43
MW-70/70S	OU-3 Community Road	5.92	5.91	5.38	5.38	5.82	5.65	5.80	5.20	5.65	--	5.14	5.51	5.74	5.55	5.40	4.90	5.15	4.56	4.84	4.63	5.22	5.17	5.00	5.38	4.62	4.85	5.31	4.90	5.09
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	5.83	--	5.97	--	--	--	5.72	--	5.78	--	--	--	--	--	--	--	--	--	--	--	6.01	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	5.61	--	5.19	--	--	--	5.28	--	5.61	--	--	--	--	--	--	--	--	--	--	--	5.86	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	5.84	--	--	--	5.52	--	--	--	5.41	--	--	5.83	--	--	--	5.19	--	--	--	--	--	--	5.69	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	5.74	5.82	6.06	5.55	5.35	--	--	--	5.38	--	--	5.87	--	--	--	--	--	--	--	--	--	--	6.37	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	6.05	--	5.82	--	--	--	5.87	--	--	5.62	--	--	--	--	--	--	--	--	--	--	6.13	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	5.86	--	5.80	--	--	--	5.60	--	--	5.93	--	--	--	--	--	--	--	--	--	--	6.59	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	5.92	--	5.83	--	--	--	5.97	--	--	5.46	--	--	--	--	--	--	--	--	--	--	6.18	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	5.82	--	5.58	--	--	--	5.39	--	--	5.36	--	--	--	--	--	--	--	--	--	--	6.10	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	5.69	--	5.94	--	--	--	5.47	--	--	5.50	--	--	--	--	--	--	--	--	--	--	6.19	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	4.76	--	--	--	5.79	--	--	6.19	--	--	--	5.51	--	--	--	5.06	--	--	--	--	--	--	6.15	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	4.91	--	--	6.09	--	--	5.90	--	--	--	5.66	--	--	--	--	--	--	--	--	--	--	6.37	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	5.50	5.39	6.09	5.12	6.09	5.43	5.87	5.72	5.34	5.49	5.98	6.00	5.78	5.36	5.51	5.19	5.29	5.50	5.54	5.67	5.55	5.13	5.15	5.59	5.80	5.51	5.96
OU3MW-07I	OU-3 Community Road	--	--	5.90	5.65	6.34	5.46	6.40	5.98	6.14	6.04	5.86	5.91	6.37	6.41	6.21	5.85	5.91	5.41	5.59	5.90	6.06	6.13	6.10	5.72	5.67	6.14	6.20	5.91	6.36
OU3MW-07I2	OU-3 Community Road	--	--	5.77	5.68	6.27	5.44	6.15	5.96	5.81	5.78	5.64	5.98	6.27	6.33	6.12	5.76	5.80	5.23	5.10	5.70	5.78	5.47	5.81	5.43	5.49	4.81	5.92	6.11	6.05
OU3MW-07I3	OU-3 Community Road	--	--	5.64	5.56	6.05	5.89	5.95	5.41	5.70	5.72	5.47	5.90	6.17	6.27	5.98	5.49	5.52	5.15	4.83	4.68	5.61	5.38	5.67	5.40	5.33	4.82	5.88	5.98	5.99
OU3MW-07I4	OU-3 Community Road	--	--	--	5.43	--	--	--	5.78	--	--	5.33	--	5.92	--	--	5.26	--	--	4.99	4.87	--	5.21	--	--	--	4.60	--	5.80	--
OU3MW-19S	87 Community Road	--	--	5.59	5.90	6.05	4.95	5.85	6.06	5.97	5.78	5.95	5.61	5.83	5.84	5.42	5.15	5.55	5.05	4.75	5.02	5.43	5.48	5.61	4.97	5.10	5.62	5.47	4.98	5.51
OU3MW-19I	87 Community Road	--	--	5.85	6.05	6.23	5.25	5.91	6.05	6.06	5.91	6.16	5.87	6.19	6.30	5.91	5.57	6.03	5.24	5.09	5.27	5.70	5.76	5.89	5.39	5.63	6.12	6.32	5.85	6.07
OU3MW-19I2	87 Community Road	--	--	5.38	5.77	5.95	5.28	5.84	5.86	5.81	5.71	5.76	5.12	5.99	5.98	5.44	5.26	5.71	5.18	4.93	5.08	5.52	5.65	5.58	4.90	5.09	5.58	5.92	5.47	5.84
OU3MW-20S	87 Community Road	--	--	5.10	5.05	4.97	4.53	5.20	5.40	5.44	5.40	5.60	5.04	5.44	5.69	5.35	4.77	5.11	4.29	4.55	4.86	5.08	4.81	4.71	4.75	4.78	4.25	5.25	4.86	4.94
OU3MW-20I	87 Community Road	--	--	5.76	6.10	6.16	5.42	6.25	6.22	6.27	6.19	6.43	5.99	6.24	6.40	6.09	5.68	5.96	4.86	5.48	5.45	6.02	5.62	5.59	5.63	5.71	5.45	6.21	5.92	6.12
OU3MW-20I2	87 Community Road	--	--	5.28	5.57	5.65	5.17	5.78	5.75	5.76	5.71	6.01	5.63	5.71	5.99	5.68	5.22	5.56	4.69	5.05	5.31	5.55	5.12	5.01	5.00	4.88	4.25	5.66	5.32	5.71
Conductivity (mS/cm)																														
IO-10	OU-3 Community Road	0.562	0.689	0.620	0.358	0.399	0.390	0.386	0.407	0.366	--	--	0.442	0.423	0.779	0.792	0.511	0.442	0.443	0.379	0.357	0.416	--	0.402	0.535	0.826	0.955	0.625	0.425	0.486
MW-34S	OU-3 Community Road	0.490	0.624	0.740	1.00	1.42	1.570	1.490	0.894	0.879	1.180	0.874	1.060	1.110	0.940	0.713	1.040	1.090	1.080	0.930	0.956	0.701	1.210	0.508	0.724	0.726	0.775	0.723	0.896	1.17
MW-34I	OU-3 Community Road	0.553	0.640	0.617	0.795	0.409	0.316	0.374	0.345	0.374	0.496	0.473	0.457	0.457	0.409	0.904	0.502	0.416	0.341	0.344	0.416	0.360	0.393	0.395	0.443	0.525	0.575	0.953	1.04	0.532
MW-34D	OU-3 Community Road	0.214	0.277	0.487	0.310	0.347	0.418	0.288	0.277	0.295	0.271	0.361	0.310	0.324	0.342	0.373	0.356	0.329	0.283	0.334	0.428	0.354	0.360	0.341	0.343	0.335	0.354	0.370	0.296	0.410
MW-46WR	OU-3 Community Road	--	--	1.810	2.38	0.854	1.36	1.31	1.27	1.02	--	2.49	2.700	2.680	1.750	2.190	2.230	1.660	1.070	0.963	0.995	1.050	0.619	0.907	0.954	1.530	0.762	0.685	0.551	0.981
MW-70/70S	OU-3 Community Road	0.388	0.578	1.440	2.20	1.16	0.959	0.656	0.648	0.597	--	0.893	0.658	0.627	0.659	0.833	0.626	0.552	0.528	0.565	0.480	5.280	0.397	0.486	0.390	0.483	0.577	1.540	0.610	1.10
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	0.391	--	0.411	--	--	--	2.920	--	2.130	--	--	--	--	--	--	--	--	--	--	--	9.05	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	0.322	--	0.222	--	--	--	0.260	--	0.260	--	--	--	--	--	--	--	--	--	--	--	0.30	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	0.719	--	--	--	0.54	--	--	--	1.010	--	--	0.873	--	--	--	1.010	--	--	--	--	--	--	1.16	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	0.380	0.364	0.369	0.324	0.362	--	--	--	0.312	--	--	0.283	--	--	--	--	--	--	--	--	--	--	0.556	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	0.693	--	1.020	--	--	--	1.370	--	--	0.557	--	--	--	--	--	--	--	--	--	--	0.879	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	1.10	--	0.42	--	--	--	0.362	--	--	0.864	--	--	--	--	--	--	--	--	--	--	0.680	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	0.407	--	0.380	--	--	--	0.360	--	--	0.344	--	--	--	--	--	--	--	--	--	--	0.356	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	0.364	--	0.384	--	--	--	0.360	--	--	0.321	--	--	--	--	--	--	--	--	--	--	0.35	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	0.349	--	0.340	--	--	--	0.353	--	--	0.401	--	--	--	--	--	--	--	--	--	--	0.37	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	1.07	--	--	--	0.91	--	--	0.328	--	--	--	0.531	--	--	--	0.602	--	--	--	--	--	--	0.53	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	0.570	--	--	0.59	--	--	0.482	--	--	--	1.14	--	--	--	--	--	--	--	--	--	--	0.43	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	0.420	0.337	0.336	0.388	0.370	0.429	0.432	0.428	0.364	0.372	0.427	0.370	0.380	0.314	0.254	0.355	0.339	0.405	0.422	0.413	0.343	0.366	0.351	0.304	0.437	0.280	0.450
OU3MW-07I	OU-3 Community Road	--	--	0.495	0.375	0.366	0.430	0.347	0.380	0.402	0.441	0.404	0.425	0.428	0.455	0.491	0.423	0.372	0.465	0.435	0.513	0.494	0.506	0.505	0.551	0.492	0.452	0.529	0.736	1.74
OU3MW-07I2	OU-3 Community Road	--	--	0.477	0.362	0.366	0.407	0.357	0.380	0.382	0.417	0.544	0.419	0.402	0.419	0.460	0.384	0.288	0.356	0.395	0.436	0.402	0.436	0.444	0.493	0.448	0.360	1.560	2.260	1.55
OU3MW-07I3	OU-3 Community Road	--	--	0.457	0.334	0.327	0.315	0.324	0.372	0.381	0.408	0.531	0.403	0.385	0.398	0.416	0.346	0.266	0.319	0.341	0.353	0.367	0.345	0.394	0.450	0.360	0.288	0.451	0.374	0.511
OU3MW-07I4	OU-3 Community Road	--	--	--	0.394	--	--	--	0.39	--	--	0.535	--	0.407	--	--	0.398	--	--	0.327	0.327	--	0.339	--	--	--	0.25	--	0.34	--
OU3MW-19S	87 Community Road	--	--	0.764	0.594	0.285	0.622	0.492	0.325	0.216	0.347	1.370	1.290	0.639	0.513	0.569	0.452	0.432	0.437	0.400	0.663	0.550	0.384	0.897	1.620	0.718	0.752	0.369	0.302	0.453
OU3MW-19I	87 Community Road	--	--	0.468	0.290	0.319	0.308	0.283	0.259	0.292	0.389	0.359	0.386	0.407	0.401	0.458	0.382	0.362	0.449	0.484	0.591	0.483	0.409	0.470	0.525	0.448	0.398	0.359	0.295	0.382
OU3MW-19I2	87 Community Road	--	--	0.437	0.330	0.345	0.356	0.312	0.311	0.318	0.324	0.288	0.347	0.350	0.421	0.462	0.390	0.372	0.371	0.539	0.690	0.498	0.375	0.364	0.408	0.363	0.335	0.386	0.317	0.447
OU3MW-20S	87 Community Road	--	--	0.814	0.719	0.712	0.591	0.496	0.430	0.420	0.484	0.394	0.617	0.644	0.433	0.473	0.389	0.360	0.322	0.314	0.324	0.317	0.450	0.941	0.828	0.576	0.445	0.370	0.335	0.474
OU3MW-20I	87 Community Road	--	--	0.477	0.350	0.432	0.397	0.382	0.409	0.471	0.471	0.388	0.421	0.442	0.421	0.527	0.460	0.475	0.426	0.454	0.492	0.467	0.497	0.465	0.503	2.210	2.910	1.910	0.731	0.595
OU3MW-20I2	87 Community Road	--	--	0.403	0.264	0.374	0.418	0.369	0.369	0.394	0.412	0.378	0.442	0.440	0.374	0.428	0.334	0.297	0.292	0.298	0.317	0.322	0.341	0.377	0.427	0.362	0.293	0.357	0.298	0.390
Dissolved Oxygen (mg/L)																														
IO-10	OU-3 Community Road	12.0	0.8	42.0	25.0	27.0	24.0	24.0	29.0	22.0	--	--	50.0	24.0	26.0	28.0	29.5	32.6	40.8	23.0	21.0	47.2	--	19.0	24.0	17.4	22.0	27.0	30.0	23.0
MW-34S	OU-3 Community Road	0.4	0.0	0.0	0.0	0.0	1.0	0.0	0.0	1.0	16.8	0.74	7.6	5.8	0.9	0.6	0.8	0.7	2.3	1.0	0.0	1.6	4.0	5.0	0.0	0.0	1.0	3.0	1.0	0.2
MW-34I	OU-3 Community Road	0.0	0.0	43.0	39.0	21.0	18.0	25.0	31.0	25.0	12.0	50.0	33.4	21.0	28.0	26.0	32.6	23.8	40.6	24.0	23.0	33.4	19.0	19.0	27.0	28.0	28.0	26.0	5.0	23.0
MW-34D	OU-3 Community Road	1.0	1.0	0.0	1.6	17.7	25.0	9.0	8.0	13.0	12.8	17.4	19.2	23.0	24.0	26.0	33.2	18.0	39.6	24.0	19.0	18.7	11.0	11.0	11.0	23.0	25.0	27.0	23.0	21.0
MW-46WR	OU-3 Community Road	--	--	0.0	0.0	0.8	0.4	1.0	4.6	8.0	--	20.8	8.1	1.0	4.0	3.0	5.9	4.8	3.8	0.2	0.2	7.3	2.0	0.0	6.0	4.0	8.0	6.0	3.0	0.2
MW-70/70S	OU-3 Community Road	20.0	3.0	0.0	0.0	0.0	0.0	0.0	2.1	0.6	--	15.3	21.5	5.0	21.0	7.0	2.4	5.2	3.4	4.0	0.2	1.1	3.0	0.0	5.0	0.8	1.0	2.0	2.0	0.4
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	18.5	--	15.1	--	--	--	27.37	--	22.67	--	--	--	--	--	--	--	--	--	--	--	19.63	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	38.1	--	28.6	--	--	--	41.2	--	21.19	--	--	--	--	--	--	--	--	--	--	--	16.14	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	1.3	--	--	--	0.70	--	--	--	0.59	--	--	0.41	--	--	--	3.25	--	--	--	--	--	--	1.01	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	4.9	17.0	15.1	29.9	28.0	--	--	--	33.4	--	--	47.2	--	--	--	--	--	--	--	--	--	--	21.34	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	6.57	--	2.00	--	--	--	8.50	--	--	0.50	--	--	--	--	--	--	--	--	--	--	6.81	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	27.40	--	18.00	--	--	--	44.00	--	--	19.30	--	--	--	--	--	--	--	--	--	--	19.35	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	31.83	--	25.00	--	--	--	21.23	--	--	27.20	--	--	--	--	--	--	--	--	--	--	5.70	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	6.48	--	8.00	--	--	--	0.66	--	--	0.68	--	--	--	--	--	--	--	--	--	--	3.68	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	0.43	--	1.00	--	--	--	0.62	--	--	0.44	--	--	--	--	--	--	--	--	--	--	4.70	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	8.5	--	--	--	1.80	--	--	10.40	--	--	--	1.10	--	--	--	6.63	--	--	--	--	--	--	5.60	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	26.1	--	--	28.60	--	--	10.50	--	--	--	20.30	--	--	--	--	--	--	--	--	--	--	12.62	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	27.0	28.0	30.0	35.0	30.0	24.0	29.0	13.0	43.0	25.0	25.0	25.0	31.0	32.0	29.4	33.7	28.0	24.0	31.0	22.0	21.0	23.0	24.0	25.0	33.0	31.0	32.0
OU3MW-07I	OU-3 Community Road	--	--	33.0	36.0	29.0	31.0	28.0	38.0	26.0	12.2	50.0	38.5	28.0	31.0	27.0	29.0	43.8	45.1	41.0	24.0	46.7	21.0	22.0	27.0	27.0	22.0	23.0	41.0	32.0
OU3MW-07I2	OU-3 Community Road	--	--	48.0	32.0	26.0	23.0	21.0	32.0	18.0	9.5	41.0	39.6	22.0	27.0	29.0	36.0	49.3	50.0	22.0	32.0	50.0	20.0	18.0	23.0	36.7	25.0	21.0	30.0	40.0
OU3MW-07I3	OU-3 Community Road	--	--	27.0	15.0	24.0	19.0	23.0	25.9	25.0	7.1	26.1	34.2	18.0	25.0	31.0	27.0	19.2	33.2	25.0	19.0	39.6	14.0	20.0	23.0	26.0	33.0	23.0	32.0	26.0
OU3MW-07I4	OU-3 Community Road	--	--	--	0.39	--	--	--	0.00	--	--	4.41	--	0.60	--	--	0.40	--	--	0.60	0.33	--	0.70	--	--	--	0.00	--	4.57	--
OU3MW-19S	87 Community Road	--	--	0.0	0.0	3.0	0.2	0.0	0.0	3.0	5.9	6.8	3.0	0.7	0.7	0.7	4.0	0.4	1.0	1.0	0.2	0.6	2.0	2.4	0.4	0.0	1.0	8.0	9.0	5.0
OU3MW-19I	87 Community Road	--	--	42.0	23.0	22.0	21.0	25.0	26.0	25.0	8.1	8.1	28.3	25.0	26.0	31.0	28.8	28.1	15.0	25.0	25.0	37.8	13.0	21.0	24.0	22.0	15.0	36.0	31.0	28.0
OU3MW-19I2	87 Community Road	--	--	10.0	3.0	1.4	3.0	0.0	0.0	11.0	6.2	6.2	15.1	21.0	4.0	1.0	0.6	1.4	1.7	2.0	0.4	0.7	2.4	15.0	15.0	7.0	2.0	4.0	1.0	2.0
OU3MW-20S	87 Community Road	--	--	35.0	28.0	17.0	31.0	25.0	12.0	25.0	7.4	11.1	21.1	28.0	30.0	29.0	18.1	21.0	16.2	21.0	23.0	34.5	21.0	25.0	26.0	27.0	23.0	19.0	26.0	27.0
OU3MW-20I	87 Community Road	--	--	47.0	28.0	31.0	23.0	23.0	23.0	26.0	10.6	11.5	30.1	24.0	30.0	35.0	42.2	26.2	32.5	34.0	21.0	>50	19.0	22.0	23.0	30.0	42.0	32.0	39.0	39.0
OU3MW-20I2	87 Community Road	--	--	7.0	0.0	0.0	2.0	0.0	0.4	0.6	6.5	12.7	17.3	21.0	12.0	0.9	0.5	1.1	11.9	0.4	0.2	0.8	0.0	7.0	10.0	10.0	3.9	3.2	1.0	1.0

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2014									2015												2016							
		Jul-02	Aug-02	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16
Temperature (degrees Celcius)																														
IO-10	OU-3 Community Road	17.3	18.9	20.5	19.5	21.2	18.9	17.8	16.4	15.3	--	--	6.30	10.00	15.27	13.52	16.40	21.85	19.63	18.11	16.58	15.62	--	10.50	10.80	12.20	13.06	17.81	20.37	17.35
MW-34S	OU-3 Community Road	21.2	21.5	19.5	17.8	19.5	18.9	18.8	16.1	10.7	8.6	4.60	7.28	10.60	13.20	14.40	16.20	24.41	20.93	18.66	15.40	15.61	7.80	8.20	10.20	11.20	11.90	16.00	20.84	19.33
MW-34I	OU-3 Community Road	16.4	16.1	18.4	15.3	17.3	15.3	17.0	16.6	14.2	11.5	8.41	10.06	10.80	13.50	14.10	14.50	16.96	18.64	17.61	15.80	17.79	11.60	12.10	12.20	12.60	12.98	14.26	19.67	16.45
MW-34D	OU-3 Community Road	15.7	15.9	16.7	18.3	16.0	16.1	16.0	15.2	14.3	12.6	11.02	11.52	11.20	12.30	14.30	13.80	16.07	18.62	14.51	14.60	17.62	11.20	11.90	12.60	12.90	13.20	14.28	20.18	15.72
MW-46WR	OU-3 Community Road	--	--	24.1	23.6	25.7	21.3	17.9	17.1	13.0	--	5.70	7.30	11.10	18.35	21.30	22.40	26.57	24.39	17.27	14.47	13.05	10.85	6.90	11.10	15.80	15.81	20.52	23.61	23.97
MW-70/70S	OU-3 Community Road	19.0	20.4	19.8	18.2	25.0	19.7	19.5	15.1	13.2	--	4.51	7.41	5.00	15.40	17.30	17.90	20.86	21.71	17.80	15.04	14.26	10.40	6.50	10.00	11.60	11.89	18.06	20.60	19.06
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	21.12	--	13.61	--	--	--	5.37	--	13.42	--	--	--	--	--	--	--	--	--	--	--	16.65	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	16.96	--	13.62	--	--	--	9.21	--	11.53	--	--	--	--	--	--	--	--	--	--	--	14.85	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	21.5	--	--	--	14.40	--	--	--	6.35	--	--	14.18	--	--	--	16.61	--	--	--	--	--	--	16.76	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	18.7	18.8	18.4	17.4	14.2	--	--	--	8.78	--	--	12.88	--	--	--	--	--	--	--	--	--	--	15.24	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	19.67	--	14.68	--	--	--	5.19	--	--	13.99	--	--	--	--	--	--	--	--	--	--	14.23	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	16.27	--	14.80	--	--	--	7.87	--	--	13.08	--	--	--	--	--	--	--	--	--	--	14.55	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	16.55	--	13.93	--	--	--	9.01	--	--	13.42	--	--	--	--	--	--	--	--	--	--	15.25	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	16.18	--	13.39	--	--	--	10.95	--	--	13.67	--	--	--	--	--	--	--	--	--	--	14.48	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	15.04	--	13.57	--	--	--	10.37	--	--	14.20	--	--	--	--	--	--	--	--	--	--	14.40	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	21.6	--	--	--	15.90	--	--	4.10	--	--	--	14.74	--	--	--	16.94	--	--	--	--	--	--	13.54	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	20.6	--	--	15.80	--	--	8.10	--	--	--	13.80	--	--	--	--	--	--	--	--	--	--	14.22	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	22.4	18.28	23.1	18.3	17.8	14.5	12.9	11.0	5.76	6.54	10.90	13.10	15.90	18.30	20.60	33.72	16.72	14.96	12.60	10.20	8.10	9.70	10.90	12.21	17.48	19.17	20.38
OU3MW-07I	OU-3 Community Road	--	--	24.1	15.50	23.5	16.0	17.7	14.6	15.2	12.5	9.40	9.6	10.3	12.2	15.2	16.80	18.1	45.1	15.4	14.5	13.8	11.4	10.9	11.0	11.8	12.0	15.4	16.1	19.5
OU3MW-07I2	OU-3 Community Road	--	--	20.0	14.89	17.9	15.1	16.5	13.8	14.6	14.5	10.05	10.6	11.6	13.0	15.4	16.2	17.9	>50	16.0	14.1	13.7	12.2	11.4	11.2	11.9	15.4	14.7	16.1	20.6
OU3MW-07I3	OU-3 Community Road	--	--	19.1	16.43	18.0	17.5	16.4	13.3	13.8	12.9	9.60	10.4	11.1	12.5	14.7	18.1	17.9	33.2	15.3	14.6	13.5	12.1	11.4	11.2	12.4	15.8	13.9	16.4	18.9
OU3MW-07I4	OU-3 Community Road	--	--	--	14.79	--	--	--	13.23	--	--	9.00	--	12.20	--	--	16.60	--	--	15.12	14.33	--	11.30	--	--	--	15.31	--	15.71	--
OU3MW-19S	87 Community Road	--	--	21.0	19.5	20.6	18.0	17.0	14.3	12.4	10.3	7.50	8.0	9.5	15.1	16.8	19.5	17.7	1.0	15.9	13.30	12.4	6.2	8.1	9.4	10.1	12.6	17.1	22.3	21.1
OU3MW-19I	87 Community Road	--	--	20.2	18.4	16.9	16.2	16.7	14.8	14.3	12.8	9.20	12.2	11.3	16.6	16.6	19.1	15.7	15.0	13.9	13.7	13.6	9.3	10.9	11.3	11.2	12.4	16.8	19.6	19.1
OU3MW-19I2	87 Community Road	--	--	20.2	18.5	19.5	15.3	16.6	13.7	13.3	12.9	9.80	11.4	10.8	13.8	16.4	19.7	21.0	1.7	13.0	12.9	13.0	8.1	10.6	12.0	12.0	10.8	17.1	20.4	19.2
OU3MW-20S	87 Community Road	--	--	18.7	19.9	19.6	18.1	19.0	16.3	15.4	11.8	8.90	6.6	8.4	11.6	15.1	17.5	19.2	16.2	16.5	17.0	14.1	11.3	9.0	9.8	12.3	14.9	15.7	18.9	20.7
OU3MW-20I	87 Community Road	--	--	18.7	17.3	17.2	16.0	17.0	16.3	15.2	12.7	10.00	9.8	10.5	12.4	14.0	16.4	15.4	32.5	14.6	15.9	14.1	12.0	11.7	11.1	12.3	16.1	15.4	17.0	19.8
OU3MW-20I2	87 Community Road	--	--	17.4	18.0	16.9	15.5	15.8	15.1	13.9	12.5	11.20	10.8	11.2	12.9	14.4	17.1	15.8	11.9	14.1	14.6	13.5	11.6	11.0	11.1	11.9	15.6	15.5	17.8	18.9
Oxidation Reduction Potential (mV)																														
IO-10	OU-3 Community Road	11	-125	215	99	161	178	190	88	150	--	--	240	196	207	247	154	165	209	75	155	168	--	158	164	187	121	160	164	193
MW-34S	OU-3 Community Road	-150	-171	-66	-51	-32	-68	-36	24	118	24	54	61	63	-49	-62	-38	1	14	6	-27	46	123	170	23	13	-4	-46	-65	-57
MW-34I	OU-3 Community Road	-147	-178	205	171	190	115	173	193	208	256	210	238	257	224	178	176	257	102	61	184	114	181	198	166	196	153	222	150	194
MW-34D	OU-3 Community Road	55	85	33	16	188	150	182	195	192	287	252	221	299	239	187	184	283	172	189	209	139	181	182	135	209	159	170	203	207
MW-46WR	OU-3 Community Road	--	--	-16	-31	55	9	-16	2	54	--	-13	66	-14	127	-9	-5	30	39	0	72	82	85	53	69	38	68	25	26	16
MW-70/70S	OU-3 Community Road	94	8	-57	-61	-75	-19	-35	10	0	--	204	131	89	50	115	51	73	94	95	86	119	51	50	59	101	62	3	-4	25
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	201	--	251	--	--	--	253	--	206	--	--	--	--	--	--	--	--	--	--	--	90	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	247	--	270	--	--	--	267	--	240	--	--	--	--	--	--	--	--	--	--	--	190	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	-72	--	--	--	20	--	--	--	87	--	--	-5	--	--	--	-34	--	--	--	--	--	--	31	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	6	29	15	89	172	--	--	--	260	--	--	176	--	--	--	--	--	--	--	--	--	--	134	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	-66	--	59	--	--	--	159	--	--	48	--	--	--	--	--	--	--	--	--	--	15	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	215	--	85	--	--	--	306	--	--	252	--	--	--	--	--	--	--	--	--	--	147	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	207	--	156	--	--	--	262	--	--	273	--	--	--	--	--	--	--	--	--	--	154	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	175	--	203	--	--	--	248	--	--	83	--	--	--	--	--	--	--	--	--	--	124	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	169	--	95	--	--	--	164	--	--	192	--	--	--	--	--	--	--	--	--	--	124	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	90	--	--	--	61	--	--	128	--	--	--	180	--	--	--	-34	--	--	--	--	--	--	-21	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	249	--	--	187	--	--	191	--	--	--	246	--	--	--	--	--	--	--	--	--	--	235	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	136	180	69	35	125	204	114	133	290	212	168	180	202	165	211	208	78	99	121	184	79	176	217	138	204	205	241
OU3MW-07I	OU-3 Community Road	--	--	150	235	208	144	207	165	225	162	307	200	250	247	191	155	229	209	136	182	210	182	196	230	204	178	200	208	303
OU3MW-07I2	OU-3 Community Road	--	--	188	260	223	167	217	170	235	189	268	257	252	248	182	185	226	222	271	205	216	228	200	242	205	275	279	308	301
OU3MW-07I3	OU-3 Community Road	--	--	150	258	202	119	208	282	221	191	255	247	253	228	157	165	218	234	268	284	208	206	188	250	194	281	267	354	297
OU3MW-07I4	OU-3 Community Road	--	--	--	127	--	--	--	135	--	--	228	--	172	--	--	124	--	--	262	269	--	163	--	--	--	239	--	127	--
OU3MW-19S	87 Community Road	--	--	-115	-126	-20	-104	-41	-15	16	-31	39	118	-27	-82	-66	-106	-160	-5	54	-10	-42	-18	-24	28	16	15	26	39	20
OU3MW-19I	87 Community Road	--	--	277	178	179	115	164	190	215	188	147	285	186	226	156	210	129	72	180	193	200	182	200	239	205	135	165	178	311
OU3MW-19I2	87 Community Road	--	--	219	135	125	70	73	107	164	146	183	302	280	168	124	185	176	100	158	188	163	123	175	253	208	160	180	189	194
OU3MW-20S	87 Community Road	--	--	92	116	223	176	173	93	153	158	200	279	210	176	145	125	135	139	177	312	242	213	241	242	224	271	180	204	204
OU3MW-20I	87 Community Road	--	--	276	157	172	151	170	183	151	189	265	279	239	225	148	157	248	150	146	289	199	186	204	205	190	310	196	194	252
OU3MW-20I2	87 Community Road	--	--	202	135	151	125	119	117	102	163	184	275	234	224	130	114	185	157	142	247	161	117	243	189	212	318	239	236	207

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2016						2017											2018									
		Jul-02	Aug-02	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
pH (SU)																												
IO-10	OU-3 Community Road	6.17	6.52	--		6.27	--	--	6.53	--	--	6.59	--	--	6.02	--	--	6.48	--	--	6.89	--	--	--	--	--	--	--	--
MW-34S	OU-3 Community Road	6.03	5.96	--		5.82	--	--	6.36	--	--	6.34	--	--	5.79	--	--	4.97	--	--	6.43	--	--	6.28	--	--	--	--	--
MW-34I	OU-3 Community Road	6.30	6.07	--		6.46	--	--	6.82	--	--	6.74	--	--	6.18	--	--	6.58	--	--	6.47	--	--	6.20	--	--	--	--	--
MW-34D	OU-3 Community Road	6.17	5.90	--		5.88	--	--	6.19	--	--	6.14	--	--	5.84		--	5.36	--	--	6.41	--	--	5.90	--	--	--	--	--
MW-46WR	OU-3 Community Road	--	--	--		5.56	--	--	5.96	--	--	6.01	--	--	5.14	6.14	--	5.89	--	--	5.65	--	--	5.90	--	--	--	--	--
MW-70/70S	OU-3 Community Road	5.92	5.91	--		5.63	--	--	5.78	--	--	5.76	--	--	5.27	--	--	5.88	--	--	5.37	--	--	--	--	--	--	--	--
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	5.95	--	--	6.11	--	--	5.86	--	--	5.22	--	--	5.76	--	--	--	5.67	--	6.00	--	6.20	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	6.31	--	--	6.55	--	--	6.56	--	--	6.02	--	--	6.09	--	--	--	6.17	--	6.56	--	6.56	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	6.15	--	--	6.37	--	--	6.43	--	--	5.75	--	--	5.83	--	--	--	6.01	--	6.20	--	6.28	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	5.86	--	--	6.18	--	--	6.02	--	--	5.44	--	--	5.63	--	--	--	5.79	--	5.78	--	5.93	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	5.75	--	6.12	--	--	6.13	--	--	5.64	--	--	--	--	--	--	--	--	5.98	--	6.14	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	6.10	--	--	6.22	--	--	6.01	--	--	5.42	--	5.79	--	--	--	6.46	--	--	5.94	--	5.77	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	6.19	--	--	6.35	--	--	6.00	--	--	5.98	--	6.11	--	--	--	6.61	--	--	6.43	--	6.46	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	6.03	--	--	6.28	--	--	6.15	--	--	5.73	--	5.93	--	--	--	6.65	--	--	6.21	--	6.16	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	5.26	--	--	5.66	--	5.10	--	--	--	4.90	--	5.40	--	--	--	6.00	--	--	5.70	--	--	5.53	--	--
OU3MW-20I	87 Community Road	--	--	--	--	6.17	--	--	6.53	--	6.04	--	--	--	5.80	--	6.31	--	--	--	6.85	--	--	6.33	--	--	6.10	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	5.73	--	--	6.03	--	5.58	--	--	--	5.57	--	5.76	--	--	--	6.43	--	--	5.58	--	--	5.52	--	--
Conductivity (mS/cm)																													
IO-10	OU-3 Community Road	0.562	0.689	--	--	0.459	--	--	0.600	--	--	0.405	--	--	0.743	--	--	0.378	--	--	0.554	--	--	--	--	--	--	--	--
MW-34S	OU-3 Community Road	0.490	0.624	--	--	0.845	--	--	1.440	--	--	0.545	--	--	0.954	--	--	0.724	--	--	0.681	--	--	0.494	--	--	--	--	--
MW-34I	OU-3 Community Road	0.553	0.640	--	--	0.413	--	--	0.406	--	--	0.394	--	--	0.614	--	--	0.378	--	--	0.356	--	--	0.449	--	--	--	--	--
MW-34D	OU-3 Community Road	0.214	0.277	--	--	0.365	--	--	0.362	--	--	0.279	--	--	0.427	--	--	0.403	--	--	0.368	--	--	0.233	--	--	--	--	--
MW-46WR	OU-3 Community Road	--	--	--	--	0.776	--	--	0.856	--	--	0.550	--	--	0.872	1.120	--	0.864	--	--	1.79	--	--	1.320	--	--	--	--	--
MW-70/70S	OU-3 Community Road	0.388	0.578	--	--	1.000	--	--	0.558	--	--	0.431	--	--	0.961	--	--	1.01	--	--	0.760	--	--	--	--	--	--	--	--
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	0.691	--	--	0.658	--	--	0.727	--	--	6.900	--	--	1.25	--	--	--	1.66	--	0.605	--	0.475	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	0.782	--	--	1.340	--	--	0.567	--	--	1.910	--	--	1.43	--	--	--	1.44	--	0.599	--	0.578	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	0.666	--	--	0.825	--	--	0.679	--	--	1.020	--	--	0.865	--	--	--	0.851	--	0.541	--	0.411	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	0.369	--	--	0.485	--	--	0.365	--	--	0.647	--	--	0.872	--	--	--	0.590	--	0.476	--	0.271	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	0.456	--	0.407	--	--	0.299	--	--	0.835	--	--	--	--	--	--	--	--	0.446	--	0.158	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	0.445	--	--	0.533	--	--	0.608	--	--	1.020	--	0.471	--	--	--	0.880	--	--	0.264	--	0.259	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	0.325	--	--	0.270	--	--	0.400	--	--	0.693	--	0.259	--	--	--	0.456	--	--	0.262	--	0.195	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	0.398	--	--	0.378	--	--	0.254	--	--	0.935	--	0.364	--	--	--	0.260	--	--	0.132	--	0.156	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	0.442	--	--	0.813	--	1.970	--	--	--	1.170	--	0.630	--	--	--	2.32	--	--	0.467	--	--	0.979	--	--
OU3MW-20I	87 Community Road	--	--	--	--	0.629	--	--	0.827	--	1.110	--	--	--	1.750	--	0.751	--	--	--	1.01	--	--	0.581	--	--	0.422	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	0.340	--	--	0.66	--	0.88	--	--	--	1.020	--	0.478	--	--	--	0.758	--	--	0.364	--	--	0.516	--	--
Dissolved Oxygen (mg/L)																													
IO-10	OU-3 Community Road	12.0	0.8	--	--	24.0	--	--	16.0		--	30.0	--	--	31.03	--	--	24	--	--	26	--	--	--	--	--	--	--	--
MW-34S	OU-3 Community Road	0.4	0.0	--	--	1.5	--	--	4.0	--	--	0.0	--	--	0.00	--	--	1	--	--	2	--	--	4.0	--	--	--	--	--
MW-34I	OU-3 Community Road	0.0	0.0	--	--	37.0	--	--	23.0	--	--	29.0	--	--	31.00	--	--	26	--	--	30	--	--	25.0	--	--	--	--	--
MW-34D	OU-3 Community Road	1.0	1.0	--	--	6.0	--	--	6.0	--	--	6.0	--	--	23.00	--	--	20	--	--	4	--	--	17.0	--	--	--	--	--
MW-46WR	OU-3 Community Road	--	--	--	--	4.0	--	--	3.0	--	--	7.0	--	--	9.00	4.37	--	4	--	--	5	--	--	12.0	--	--	--	--	--
MW-70/70S	OU-3 Community Road	20.0	3.0	--	--	1.0	--	--	4.0	--	--	4.0	--	--	3.00	--	--	3	--	--	6	--	--	--	--	--	--	--	--
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	22.0	--	--	19.0	--	--	28.0	--	--	50.00	--	--	25	--	--	--	17	--	18.0	--	20.0	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	21.0	--	--	21.0	--	--	31.0	--	--	50.00	--	--	24	--	--	--	18	--	5.0	--	16.0	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	22.0	--	--	16.0	--	--	36.0	--	--	50.00	--	--	23	--	--	--	17	--	18.0	--	31.0	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	23.0	--	--	15.0	--	--	14.0	--	--	50.00	--	--	21	--	--	--	20	--	12.0	--	24.0	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	3.9	--	2.0	--	--	0.0	--	--	0.84	--	--	--	--	--	--	--	--	2.0	--	4.0	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	2.7	--	--	5.0	--	--	10.0	--	--	7.00	--	1	--	--	--	7	--	--	8.0	--	29.0	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	26.0	--	--	21.0	--	--	31.0	--	--	28.00	--	25	--	--	--	25	--	--	16.0	--	24.0	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	2.0	--	--	0.6	--	--	11.0	--	--	1.00	--	1	--	--	--	3	--	--	22.0	--	4.0	24.0	--	--
OU3MW-20S	87 Community Road	--	--	--	--	21.0	--	--	28.0	--	19.0	--	--	--	17.00	--	20	--	--	--	23	--	--	40.0	--	--	24.0	--	--
OU3MW-20I	87 Community Road	--	--	--	--	28.0	--	--	33.0	--	19.0	--	--	--	30.00	--	22	--	--	--	30	--	--	4.0	--	--	25.0	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	2.0	--	--	2.0	--	6.0	--	--	--	2.00	--	1	--	--	--	8	--	--	--	--	--	1.0	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2016						2017											2018									
		Jul-02	Aug-02	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
Temperature (degrees Celcius)																												
IO-10	OU-3 Community Road	17.3	18.9	--	--	15.50	--	--	8.89	--	--	12.08	--	--	19.55	--	--	15.50	--	--	10.65	--	--	--	--	--	--	--	--
MW-34S	OU-3 Community Road	21.2	21.5	--	--	17.30	--	--	8.38	--	--	11.42	--	--	19.49	--	--	18.64	--	--	7.39	--	--	17.06	--	--	--	--	--
MW-34I	OU-3 Community Road	16.4	16.1	--	--	16.64	--	--	13.38	--	--	10.92	--	--	17.34	--	--	16.11	--	--	12.22	--	--	14.99	--	--	--	--	--
MW-34D	OU-3 Community Road	15.7	15.9	--	--	15.75	--	--	12.01	--	--	12.02	--	--	16.52	--	--	16.47	--	--	12.31	--	--	16.15	--	--	--	--	--
MW-46WR	OU-3 Community Road	--	--	--	--	14.89	--	--	8.06	--	--	14.37	--	--	27.00	25.74	--	16.36	--	--	8.38	--	--	20.49	--	--	--	--	--
MW-70/70S	OU-3 Community Road	19.0	20.4	--	--	16.68	--	--	8.56	--	--	11.40	--	--	21.48	--	--	16.63	--	--	7.90	--	--	--	--	--	--	--	--
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	15.75	--	--	8.78	--	--	12.99	--	--	20.81	--	--	16.63	--	--	--	7.27	--	16.06	--	23.89	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	15.36	--	--	11.28	--	--	13.80	--	--	17.31	--	--	15.54	--	--	--	8.89	--	15.65	--	21.18	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	14.71	--	--	12.55	--	--	13.75	--	--	16.70	--	--	15.05	--	--	--	9.30	--	16.27	--	21.60	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	18.40	--	--	12.76	--	--	12.85	--	--	16.44	--	--	14.52	--	--	--	10.62	--	16.39	--	25.42	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	12.21	--	12.58	--	--	14.21	--	--	16.12	--	--	--	--	--	--	--	--	16.76	--	27.58	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	14.30	--	--	9.65	--	--	12.94	--	--	19.01	--	15.78	--	--	--	10.54	--	--	21.50	--	23.42	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	14.83	--	--	12.11	--	--	13.32	--	--	16.30	--	15.06	--	--	--	8.88	--	--	17.69	--	23.61	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	14.14	--	--	12.55	--	--	14.18	--	--	16.12	--	14.69	--	--	--	10.96	--	--	16.52	--	25.34	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	18.05	--	--	10.62	--	11.63	--	--	--	19.17	--	17.60	--	--	--	9.62	--	--	17.56	--	--	24.56	--	--
OU3MW-20I	87 Community Road	--	--	--	--	14.70	--	--	13.02	--	13.00	--	--	--	16.66	--	16.05	--	--	--	11.83	--	--	17.99	--	--	21.63	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	14.84	--	--	12.93	--	13.97	--	--	--	16.34	--	16.21	--	--	--	12.56	--	--	19.31	--	--	22.59	--	--
Oxidation Reduction Potential (mV)																													
IO-10	OU-3 Community Road	11	-125	--	--	183	--	--	241	--	--	198	--	--	158	--	--	140	--	--	108	--	--	--	--	--	--	--	--
MW-34S	OU-3 Community Road	-150	-171	--	--	-25	--	--	162	--	--	0	--	--	-59	--	--	66	--	--	60	--	--	92.00	--	--	--	--	--
MW-34I	OU-3 Community Road	-147	-178	--	--	231	--	--	216	--	--	242	--	--	168	--	--	129	--	--	90	--	--	310.00	--	--	--	--	--
MW-34D	OU-3 Community Road	55	85	--	--	205	--	--	224	--	--	263	--	--	152	--	--	203	--	--	89	--	--	272.00	--	--	--	--	--
MW-46WR	OU-3 Community Road	--	--	--	--	6	--	--	-18	--	--	64	--	--	59	47	--	22	--	--	15	--	--	100.00	--	--	--	--	--
MW-70/70S	OU-3 Community Road	94	8	--	--	-46	--	--	-70	--	--	44	--	--	17	--	--	-8	--	--	-17	--	--	--	--	--	--	--	--
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	102	--	--	170	--	--	180	--	--	144	--	--	118	--	--	--	163	--	240	--	190	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	167	--	--	242	--	--	287	--	--	222	--	--	197	--	--	--	243	--	228	--	215	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	193	--	--	268	--	--	285	--	--	251	--	--	230	--	--	--	280	--	262	--	234	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	207	--	--	295	--	--	271	--	--	241	--	--	249	--	--	--	298	--	274	--	223	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	167	--	188	--	--	184	--	--	176	--	--	--	--	--	--	--	--	214	--	177	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	-43	--	--	-135	--	--	51	--	--	27	--	136	--	--	--	103	--	--	155	--	83	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	158	--	--	219	--	--	270	--	--	178	--	216	--	--	--	182	--	--	224	--	189	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	131	--	--	114	--	--	291	--	--	197	--	195	--	--	--	171	--	--	275	--	184	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	170	--	--	149	--	178	--	--	--	189	--	203	--	--	--	150	--	--	200	--	--	263	--	--
OU3MW-20I	87 Community Road	--	--	--	--	155	--	--	208	--	210	--	--	--	209	--	212	--	--	--	159	--	--	235	--	--	293	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	150	--	--	162	--	193	--	--	--	183	--	137	--	--	--	152	--	--	243	--	--	228	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2018				2019				2020			2021		Baseline Average	Historical Average	Q4 2020 - Q2 2021 Average
		Jul-02	Aug-02	Nov-18	Dec-18	Q1	Q2	Q3	Q4	Q1	Q3	Q4	Q1	Q2			
pH (SU)																	
IO-10	OU-3 Community Road	6.17	6.52	--	--	--	7.21	6.9	6.60	6.27	--	6.71	6.98	5.70	**6.27**	**6.25**	**6.46**
MW-34S	OU-3 Community Road	6.03	5.96	--	--	--	6.39	5.94	5.72	6.16	--	5.74	6.07	5.83	**6.25**	**5.95**	**5.88**
MW-34I	OU-3 Community Road	6.30	6.07	--	--	--	6.77	6.74	6.81	6.55	--	6.65	6.57	5.83	**6.34**	**6.19**	**6.35**
MW-34D	OU-3 Community Road	6.17	5.90	--	--	--	6.2	6.24	6.00	6.24	--	6.81	6.24	5.66	**5.97**	**5.83**	**6.24**
MW-46WR	OU-3 Community Road	--	--	--	--	--	5.94	6.14	5.99	5.59	--	6.12	6.60	5.70	**6.03**	**5.77**	**6.14**
MW-70/70S	OU-3 Community Road	5.92	5.91	--	--	--	6.17	5.81	5.77	5.57	--	5.86	6.11	6.32	**6.07**	**5.84**	**6.10**
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**5.80**	**5.80**	**--**
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**5.90**	**5.56**	**--**
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**6.34**	**6.16**	**--**
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**7.53**	**5.94**	**--**
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**7.31**	**6.04**	**--**
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**6.57**	**5.89**	**--**
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**5.92**	**5.90**	**--**
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**NS**	**6.00**	**--**
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**NS**	**5.62**	**--**
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**6.51**	**6.00**	**--**
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**5.58**	**5.74**	**--**
OU3MW-07S	OU-3 Community Road	--	--	6.35	--	6.05	6.26	6.6	6.51	6.34	6.15	6.17	6.67	6.53	**5.60**	**5.71**	**6.38**
OU3MW-07I	OU-3 Community Road	--	--	6.13	--	6.18	6.7	7.03	6.00	6.17	6.42	6.21	6.84	6.99	**6.26**	**6.13**	**6.62**
OU3MW-07I2	OU-3 Community Road	--	--	6.64	--	5.76	6.47	6.8	5.71	6.01	6.22	5.88	6.40	6.95	**5.86**	**6.05**	**6.36**
OU3MW-07I3	OU-3 Community Road	--	--	5.96	--	5.97	6.27	6.21	6.09	5.84	5.92	5.67	6.42	6.85	**NS**	**5.85**	**6.22**
OU3MW-07I4	OU-3 Community Road	--	--	6.84	--	6.09	6.05	6.26	5.91	5.72	5.83	5.62	6.19	6.79	**NS**	**5.77**	**6.11**
OU3MW-19S	87 Community Road	--	--	5.91	--	5.80	6.31	5.98	6.13	5.60	5.81	6.18	6.30	5.61	**6.22**	**5.70**	**5.98**
OU3MW-19I	87 Community Road	--	--	6.31	--	6.07	6.61	6.26	6.11	5.89	6.13	6.40	6.76	6.15	**6.73**	**6.01**	**6.36**
OU3MW-19I2	87 Community Road	--	--	6.64	--	6.33	6.38	5.94	6.27	6.00	5.94	6.18	6.34	5.74	**5.95**	**5.77**	**6.05**
OU3MW-20S	87 Community Road	--	--	5.57	--	5.81	5.59	5.59	5.29	5.17	5.62	5.78	6.33	5.48	**5.90**	**5.24**	**5.80**
OU3MW-20I	87 Community Road	--	--	6.11	--	6.62	6.24	6.61	6.35	6.42	6.34	6.57	7.08	6.27	**6.62**	**6.08**	**6.57**
OU3MW-20I2	87 Community Road	--	--	5.77	--	6.13	6	6.12	5.64	5.88	5.71	6.14	6.21	5.81	**5.89**	**5.58**	**5.97**
Conductivity (mS/cm)																	
IO-10	OU-3 Community Road	0.562	0.689	--	--	--	0.94	0.799	0.589	0.912	--	1.62	0.851	0.458	**0.413**	**0.513**	**0.98**
MW-34S	OU-3 Community Road	0.490	0.624	--	--	--	0.656	0.523	0.563	0.835	--	0.543	1.16	0.724	**0.643**	**0.757**	**0.81**
MW-34I	OU-3 Community Road	0.553	0.640	--	--	--	1.19	0.586	0.521	0.996	--	1.8	1.04	0.295	**0.409**	**0.484**	**1.05**
MW-34D	OU-3 Community Road	0.214	0.277	--	--	--	6.2	0.392	0.545	0.939	--	0.09	0.485	0.271	**0.295**	**0.627**	**0.28**
MW-46WR	OU-3 Community Road	--	--	--	--	--	1.21	0.857	0.560	1.080	--	0.954	1.11	0.698	**0.792**	**0.976**	**0.92**
MW-70/70S	OU-3 Community Road	0.388	0.578	--	--	--	0.543	0.586	0.572	0.686	--	0.634	0.930	0.651	**0.485**	**0.676**	**0.74**
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.646**	**1.034**	**--**
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.220**	**0.252**	**--**
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.712**	**0.647**	**--**
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.426**	**0.413**	**--**
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.684**	**0.731**	**--**
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.389**	**0.517**	**--**
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.351**	**0.375**	**--**
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**NS**	**0.392**	**--**
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**NS**	**0.388**	**--**
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.633**	**0.584**	**--**
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.420**	**0.457**	**--**
OU3MW-07S	OU-3 Community Road	--	--	1.670	--	0.700	1.05	0.58	1.18	1.24	0.575	0.733	0.636	0.549	**0.235**	**0.538**	**0.64**
OU3MW-07I	OU-3 Community Road	--	--	0.893	--	0.999	0.93	0.631	0.578	1.04	0.545	0.904	0.793	0.466	**0.355**	**0.507**	**0.72**
OU3MW-07I2	OU-3 Community Road	--	--	0.482	--	0.994	1.02	0.523	0.410	0.949	0.545	0.680	0.842	0.563	**0.275**	**0.486**	**0.70**
OU3MW-07I3	OU-3 Community Road	--	--	0.201	--	0.761	0.918	0.509	0.631	0.562	0.461	0.593	0.555	0.606	**NS**	**0.407**	**0.58**
OU3MW-07I4	OU-3 Community Road	--	--	0.235	--	0.301	0.661	0.36	0.750	0.447	0.393	0.439	0.492	0.464	**NS**	**0.392**	**0.47**
OU3MW-19S	87 Community Road	--	--	0.267	--	0.251	0.485	0.425	0.717	0.512	0.588	0.436	0.280	0.748	**0.448**	**0.565**	**0.49**
OU3MW-19I	87 Community Road	--	--	0.529	--	0.525	0.338	0.255	0.245	0.550	0.979	0.447	0.527	0.517	**0.384**	**0.394**	**0.50**
OU3MW-19I2	87 Community Road	--	--	0.751	--	0.265	0.305	0.511	0.283	0.367	0.463	0.374	0.344	0.335	**0.350**	**0.373**	**0.35**
OU3MW-20S	87 Community Road	--	--	3.150	--	0.733	0.295	1.44	2.21	1.76	1.52	2.28	1.40	0.775	**0.313**	**0.731**	**1.49**
OU3MW-20I	87 Community Road	--	--	1.080	--	0.533	0.525	0.621	0.945	0.918	0.68	0.924	0.668	0.508	**0.599**	**0.681**	**0.70**
OU3MW-20I2	87 Community Road	--	--	0.234	--	0.208	0.53	0.312	0.452	0.572	0.328	0.785	0.546	0.519	**0.355**	**0.402**	**0.62**
Dissolved Oxygen (mg/L)																	
IO-10	OU-3 Community Road	12.0	0.8	--	--	--	29	22	13	16	--	29	31	4	**20.4**	**17.6**	**21.33**
MW-34S	OU-3 Community Road	0.4	0.0	--	--	--	1	9	4	5	--	4	3	4	**0.2**	**1.2**	**3.67**
MW-34I	OU-3 Community Road	0.0	0.0	--	--	--	33	32	15	23	--	17	18	6	**0.9**	**17.5**	**13.67**
MW-34D	OU-3 Community Road	1.0	1.0	--	--	--	22	30	13	19	--	15.00	11	1.00	**0.2**	**7.9**	**9.00**
MW-46WR	OU-3 Community Road	--	--	--	--	--	18	17	21	29	--	16	32	8	**8.7**	**3.1**	**18.67**
MW-70/70S	OU-3 Community Road	20.0	3.0	--	--	--	18	18	15	20	--	11	10	8	**21.6**	**3.2**	**9.67**
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**22.0**	**23.5**	**--**
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.0**	**27.3**	**--**
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.3**	**1.3**	**--**
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.0**	**7.0**	**--**
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.0**	**2.1**	**--**
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**4.0**	**18.3**	**--**
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**0.0**	**6.1**	**--**
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**NS**	**1.8**	**--**
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**NS**	**1.0**	**--**
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**15.8**	**3.7**	**--**
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**9.9**	**13.3**	**--**
OU3MW-07S	OU-3 Community Road	--	--	20.0	--	14.0	18	36	24	29	30	19	31.83	21	**3.0**	**20.4**	**23.94**
OU3MW-07I	OU-3 Community Road	--	--	24.0	--	25.0	16	29	38	22	27	20	11	10	**3.2**	**27.9**	**13.67**
OU3MW-07I2	OU-3 Community Road	--	--	35.0	--	21.0	16	33	37	23	26	25	16	7	**3.3**	**23.5**	**16.00**
OU3MW-07I3	OU-3 Community Road	--	--	7.0	--	17.0	0	15	24	26	19	22	11	13	**NS**	**22.9**	**15.33**
OU3MW-07I4	OU-3 Community Road	--	--	0.0	--	0.0	0	0	0	0	0	0.02	2	0	**NS**	**0.9**	**0.67**
OU3MW-19S	87 Community Road	--	--	3.0	--	2.0	2	16	13	3	17	2	4	3	**2.0**	**3.8**	**3.00**
OU3MW-19I	87 Community Road	--	--	16.0	--	25.0	30	28	31	19	29	26	16	10	**4.0**	**21.3**	**17.33**
OU3MW-19I2	87 Community Road	--	--	2.0	--	11.0	10	14	2	6	5	0	3	4	**2.0**	**6.1**	**2.33**
OU3MW-20S	87 Community Road	--	--	15.0	--	13.0	34	19	27	11	21	23	7	9	**15.0**	**23.3**	**13.00**
OU3MW-20I	87 Community Road	--	--	38.0	--	24.0	25	29	11	19	32	23	6	17	**2.0**	**25.0**	**15.33**
OU3MW-20I2	87 Community Road	--	--	2.0	--	1.0	22	2	0	2	1	0	1	2	**2.0**	**4.6**	**1.00**

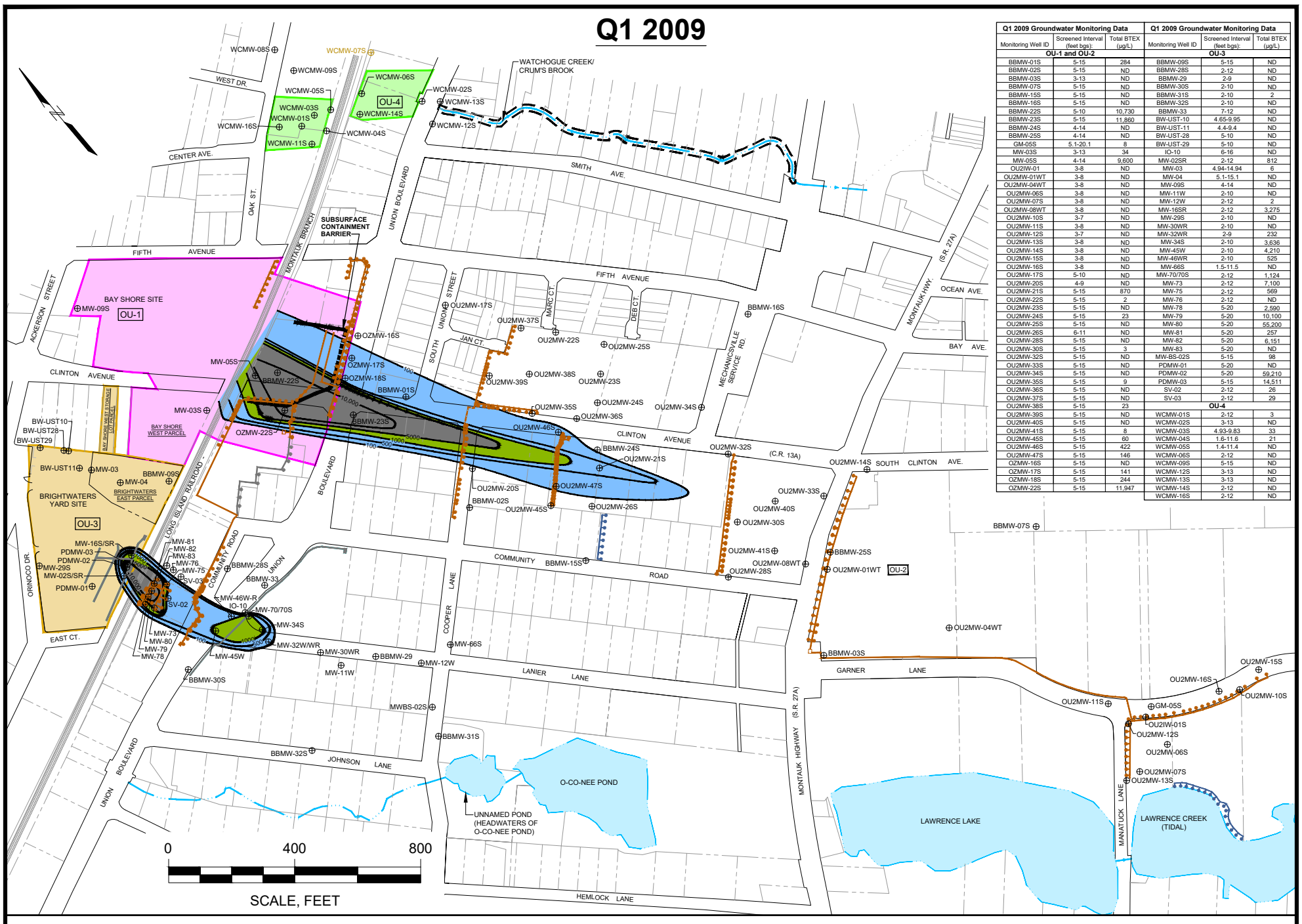
Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2018				2019				2020			2021		Baseline Average	Historical Average	Q4 2020 - Q2 2021 Average
		Jul-02	Aug-02	Nov-18	Dec-18	Q1	Q2	Q3	Q4	Q1	Q3	Q4	Q1	Q2			
Temperature (degrees Celcius)																	
IO-10	OU-3 Community Road	17.3	18.9	--	--	--	15.25	22.79	15.10	12.11	--	13.72	10.82	16.76	**14.9**	**15.5**	**13.77**
MW-34S	OU-3 Community Road	21.2	21.5	--	--	--	13.51	19.57	15.27	7.62	--	15.08	13.72	14.43	**13.9**	**14.9**	**14.41**
MW-34I	OU-3 Community Road	16.4	16.1	--	--	--	14.45	17.25	15.04	10.91	--	15.55	11.25	14.26	**14.3**	**14.8**	**13.69**
MW-34D	OU-3 Community Road	15.7	15.9	--	--	--	13.86	15.59	13.52	11.93	--	14.34	12.08	14.52	**14.3**	**14.6**	**13.65**
MW-46WR	OU-3 Community Road	--	--	--	--	--	17.63	22.23	13.98	8.87	--	12.98	10.01	20.11	**15.5**	**16.9**	**14.37**
MW-70/70S	OU-3 Community Road	19.0	20.4	--	--	--	13.78	21.45	13.18	9.05	--	12.7	8.59	15.29	**13.8**	**15.1**	**12.19**
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**13.9**	**14.2**	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**13.9**	**13.8**	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**13.6**	**16.0**	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**11.8**	**15.4**	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**13.2**	**14.8**	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**13.8**	**15.0**	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**9.9**	**14.9**	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**NS**	**14.3**	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**NS**	**14.2**	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**14.4**	**14.7**	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**14.9**	**14.6**	--
OU3MW-07S	OU-3 Community Road	--	--	15.36	--	8.48	12.33	18.69	18.05	8.32	19.85	16.37	10.93	9.84	**9.7**	**15.0**	**12.38**
OU3MW-07I	OU-3 Community Road	--	--	17.27	--	10.98	13.75	16.29	15.86	10.96	16.4	16.49	14.16	10.53	**11.1**	**15.1**	**13.73**
OU3MW-07I2	OU-3 Community Road	--	--	14.50	--	11.94	14.59	19.42	15.14	11.28	16.24	16.29	14.56	11.11	**12.0**	**14.8**	**13.99**
OU3MW-07I3	OU-3 Community Road	--	--	14.65	--	6.68	14.22	16.57	14.92	12.29	15.39	15.9	9.84	12.41	**NS**	**14.9**	**12.72**
OU3MW-07I4	OU-3 Community Road	--	--	13.70	--	7.39	14.77	17.18	14.47	12.38	15.93	15.6	11.71	12.11	**NS**	**14.4**	**13.14**
OU3MW-19S	87 Community Road	--	--	14.72	--	7.23	11.95	18.44	16.83	8.92	21.47	14.01	10.47	10.67	**18.0**	**14.2**	**11.72**
OU3MW-19I	87 Community Road	--	--	14.97	--	10.24	12.91	15.42	15.64	11.53	19.8	14.58	12.95	12.88	**15.7**	**14.6**	**13.47**
OU3MW-19I2	87 Community Road	--	--	14.03	--	11.41	13.29	16.39	15.51	11.66	19.13	14.03	12.52	13.83	**14.9**	**14.3**	**13.46**
OU3MW-20S	87 Community Road	--	--	16.55	--	8.40	11.47	19.10	18.47	8.90	19.73	15.28	7.72	11.07	**19.2**	**14.9**	**11.36**
OU3MW-20I	87 Community Road	--	--	15.75	--	11.79	12.37	22.16	15.04	11.26	19.51	15.61	11.9	13.08	**16.7**	**15.1**	**13.53**
OU3MW-20I2	87 Community Road	--	--	14.81	--	11.89	13.02	17.14	14.13	10.28	16.73	14.75	12.99	14.2	**16.1**	**14.5**	**13.98**
Oxidation Reduction Potential (mV)																	
IO-10	OU-3 Community Road	11	-125	--	--	--	164	167	161	223	--	152.00	265	199	**47**	**99**	**205**
MW-34S	OU-3 Community Road	-150	-171	--	--	--	-14	54	23	71	--	91	128	92	**-117**	**-15**	**104**
MW-34I	OU-3 Community Road	-147	-178	--	--	--	184	193	159	225	--	193	225	155	**-78**	**119**	**191**
MW-34D	OU-3 Community Road	55	85	--	--	--	202	279	187	209	--	195.00	165	140	**86**	**112**	**167**
MW-46WR	OU-3 Community Road	--	--	--	--	--	60	71	106	301	--	84	199	167	**-65**	**-27**	**150**
MW-70/70S	OU-3 Community Road	94	8	--	--	--	62	90	74	224	--	59	194	167	**-8**	**-28**	**140**
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**240**	**178**	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**133**	**227**	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**-32**	**-60**	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**-31**	**-10**	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**-105**	**-21**	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**-38**	**101**	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**146**	**120**	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**NS**	**137**	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**NS**	**132**	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**100**	**75**	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	**113**	**140**	--
OU3MW-07S	OU-3 Community Road	--	--	123	--	219	217	214	34	157	188	98	101	227	**-139**	**107**	**142**
OU3MW-07I	OU-3 Community Road	--	--	365	--	236	293	247	366	224	266	216	205	228	**-56**	**197**	**216**
OU3MW-07I2	OU-3 Community Road	--	--	250	--	257	317	203	368	186	287	250	215	236	**18**	**183**	**234**
OU3MW-07I3	OU-3 Community Road	--	--	331	--	243	332	204	237	314	269	269	284	233	**NS**	**228**	**262**
OU3MW-07I4	OU-3 Community Road	--	--	186	--	188	281	198	210	285	228	229	229	219	**NS**	**182**	**226**
OU3MW-19S	87 Community Road	--	--	82	--	39	88	30	30	46	75	-6	60	119	**-60**	**1**	**58**
OU3MW-19I	87 Community Road	--	--	284	--	219	170	272	319	209	198	186	163	207	**-92**	**168**	**185**
OU3MW-19I2	87 Community Road	--	--	243	--	253	186	209	188	267	231	189	190	225	**88**	**176**	**201**
OU3MW-20S	87 Community Road	--	--	236	--	226	220	226	252	243	230	189	229	252	**97**	**185**	**223**
OU3MW-20I	87 Community Road	--	--	275	--	217	193	215	172	245	222	122	248	247	**-112**	**179**	**206**
OU3MW-20I2	87 Community Road	--	--	188	--	187	228	233	181	186	223	137	169	230	**80**	**175**	**179**

Note:
For wells IO-10 through MWBS-02D the baseline average does not reflect data from before a system was turned on, but data from when the OU-3 Union Boulevard System was in operation.

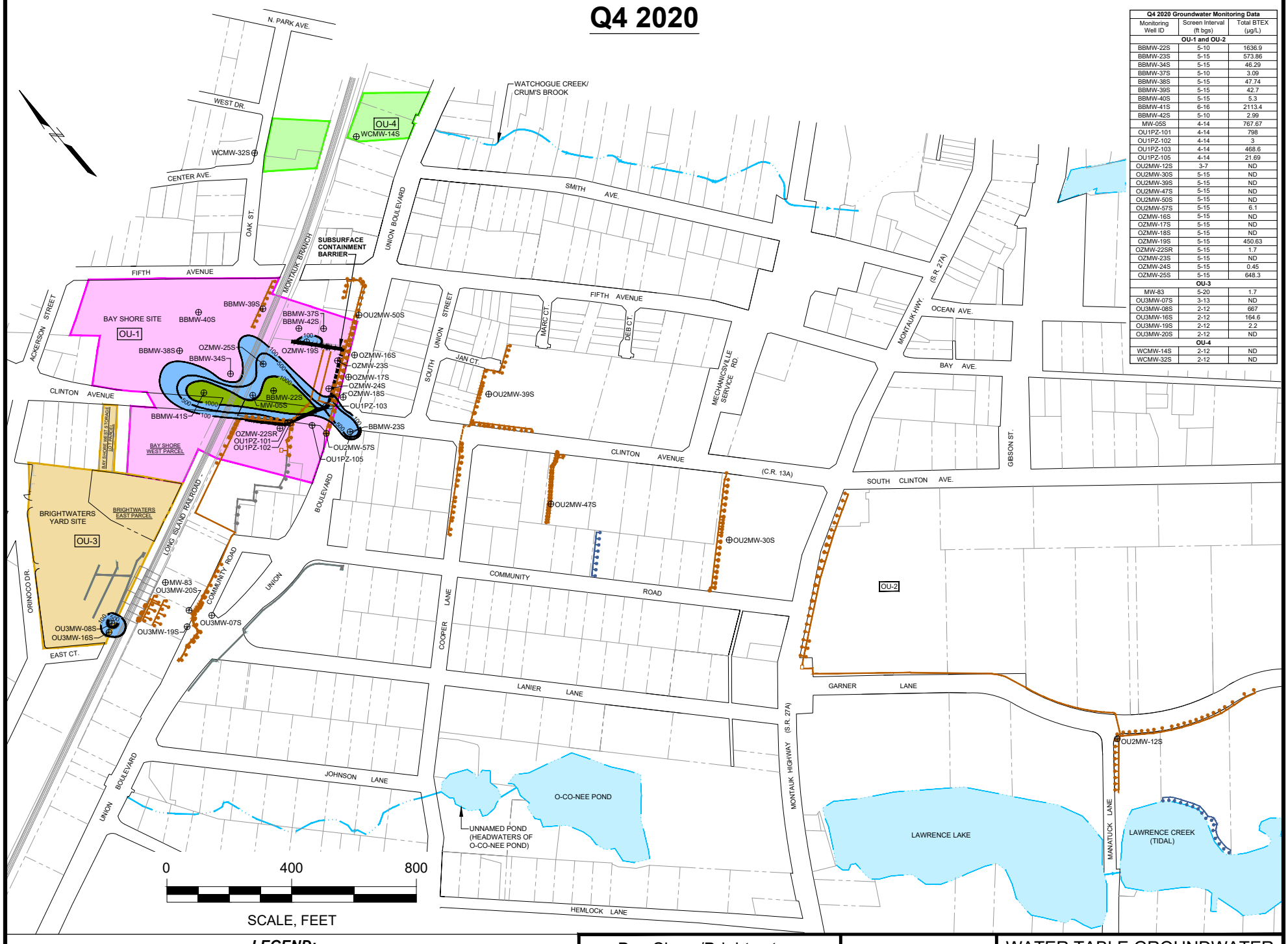
Q1 2009

Q1 2009 Groundwater Monitoring Data			Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)	Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)
OU-1 and OU-2			**OU-3**		
BBMW-01S	5-15	284	BBMW-09S	5-15	ND
BBMW-02S	5-15	ND	BBMW-28S	2-12	ND
BBMW-03S	3-13	ND	BBMW-29	2-9	ND
BBMW-07S	5-15	ND	BBMW-30S	2-10	ND
BBMW-15S	5-15	ND	BBMW-31S	2-10	2
BBMW-16S	5-15	ND	BBMW-32S	2-10	ND
BBMW-22S	5-10	10,730	BBMW-33	7-12	ND
BBMW-23S	5-15	11,860	BW-UST-10	4.65-9.95	ND
BBMW-24S	4-14	ND	BW-UST-11	4.4-9.4	ND
BBMW-25S	4-14	ND	BW-UST-28	5-10	ND
GM-05S	5.1-20.1	8	BW-UST-29	5-10	ND
MW-03S	3-13	34	IO-10	6-16	ND
MW-05S	4-14	9,600	MW-02SR	2-12	812
OU2IW-01	3-8	ND	MW-03	4.94-14.94	6
OU2MW-01WT	3-8	ND	MW-04	5.1-15.1	ND
OU2MW-04WT	3-8	ND	MW-09S	4-14	ND
OU2MW-06S	3-8	ND	MW-11W	2-10	ND
OU2MW-07S	3-8	ND	MW-12W	2-12	2
OU2MW-08WT	3-8	ND	MW-16SR	2-12	3,275
OU2MW-10S	3-7	ND	MW-29S	2-10	ND
OU2MW-11S	3-8	ND	MW-30WR	2-10	ND
OU2MW-12S	3-7	ND	MW-32WR	2-9	232
OU2MW-13S	3-8	ND	MW-34S	2-10	3,636
OU2MW-14S	3-8	ND	MW-45W	2-10	4,210
OU2MW-15S	3-8	ND	MW-46WR	2-10	525
OU2MW-16S	3-8	ND	MW-66S	1.5-11.5	ND
OU2MW-17S	5-10	ND	MW-70/70S	2-12	1,124
OU2MW-20S	4-9	ND	MW-73	2-12	7,100
OU2MW-21S	5-15	870	MW-75	2-12	569
OU2MW-22S	5-15	2	MW-76	2-12	ND
OU2MW-23S	5-15	ND	MW-78	5-20	2,590
OU2MW-24S	5-15	23	MW-79	5-20	10,100
OU2MW-25S	5-15	ND	MW-80	5-20	55,200
OU2MW-26S	6-11	ND	MW-81	5-20	257
OU2MW-28S	5-15	ND	MW-82	5-20	6,151
OU2MW-30S	5-15	3	MW-83	5-20	ND
OU2MW-32S	5-15	ND	MW-BS-02S	5-15	98
OU2MW-33S	5-15	ND	PDMW-01	5-20	ND
OU2MW-34S	5-15	ND	PDMW-02	5-20	59,210
OU2MW-35S	5-15	9	PDMW-03	5-15	14,511
OU2MW-36S	5-15	ND	SV-02	2-12	26
OU2MW-37S	5-15	ND	SV-03	2-12	29
OU2MW-38S	5-15	23	**OU-4**		
OU2MW-39S	5-15	ND	WCMW-01S	2-12	3
OU2MW-40S	5-15	ND	WCMW-02S	3-13	ND
OU2MW-41S	5-15	8	WCMW-03S	4.93-9.83	33
OU2MW-45S	5-15	60	WCMW-04S	1.6-11.6	21
OU2MW-46S	5-15	422	WCMW-05S	1.4-11.4	ND
OU2MW-47S	5-15	146	WCMW-06S	2-12	ND
OZMW-16S	5-15	ND	WCMW-09S	5-15	ND
OZMW-17S	5-15	141	WCMW-12S	3-13	ND
OZMW-18S	5-15	244	WCMW-13S	3-13	ND
OZMW-22S	5-15	11,947	WCMW-14S	2-12	ND
			WCMW-16S	2-12	ND



Q4 2020

Q4 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	1636.9
BBMW-23S	5-15	573.86
BBMW-34S	5-15	46.29
BBMW-37S	5-10	3.09
BBMW-38S	5-15	47.74
BBMW-39S	5-15	42.7
BBMW-40S	5-15	5.3
BBMW-41S	6-16	2113.4
BBMW-42S	5-10	2.99
MW-05S	4-14	767.67
OU1PZ-101	4-14	798
OU1PZ-102	4-14	3
OU1PZ-103	4-14	468.6
OU1PZ-105	4-14	21.69
OU2MW-12S	3-7	ND
OU2MW-30S	5-15	ND
OU2MW-39S	5-15	ND
OU2MW-47S	5-15	ND
OU2MW-50S	5-15	ND
OU2MW-57S	5-15	6.1
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	450.63
OZMW-22SR	5-15	1.7
OZMW-23S	5-15	ND
OZMW-24S	5-15	0.45
OZMW-25S	5-15	648.3
OU-3		
MW-83	5-20	1.7
OU3MW-07S	3-13	ND
OU3MW-08S	2-12	667
OU3MW-16S	2-12	164.6
OU3MW-19S	2-12	2.2
OU3MW-20S	2-12	ND
OU-4		
WCMW-14S	2-12	ND
WCMW-32S	2-12	ND



LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- µg/L — MICROGRAMS PER LITER
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- BTEX ≧5,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE

NOTE:
WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).

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WATER TABLE GROUNDWATER
TOTAL BTEX
ISO-CONCENTRATION MAPS
(0-10 FEET BGS)

Project 1905774 | March 2021 | Fig. 3

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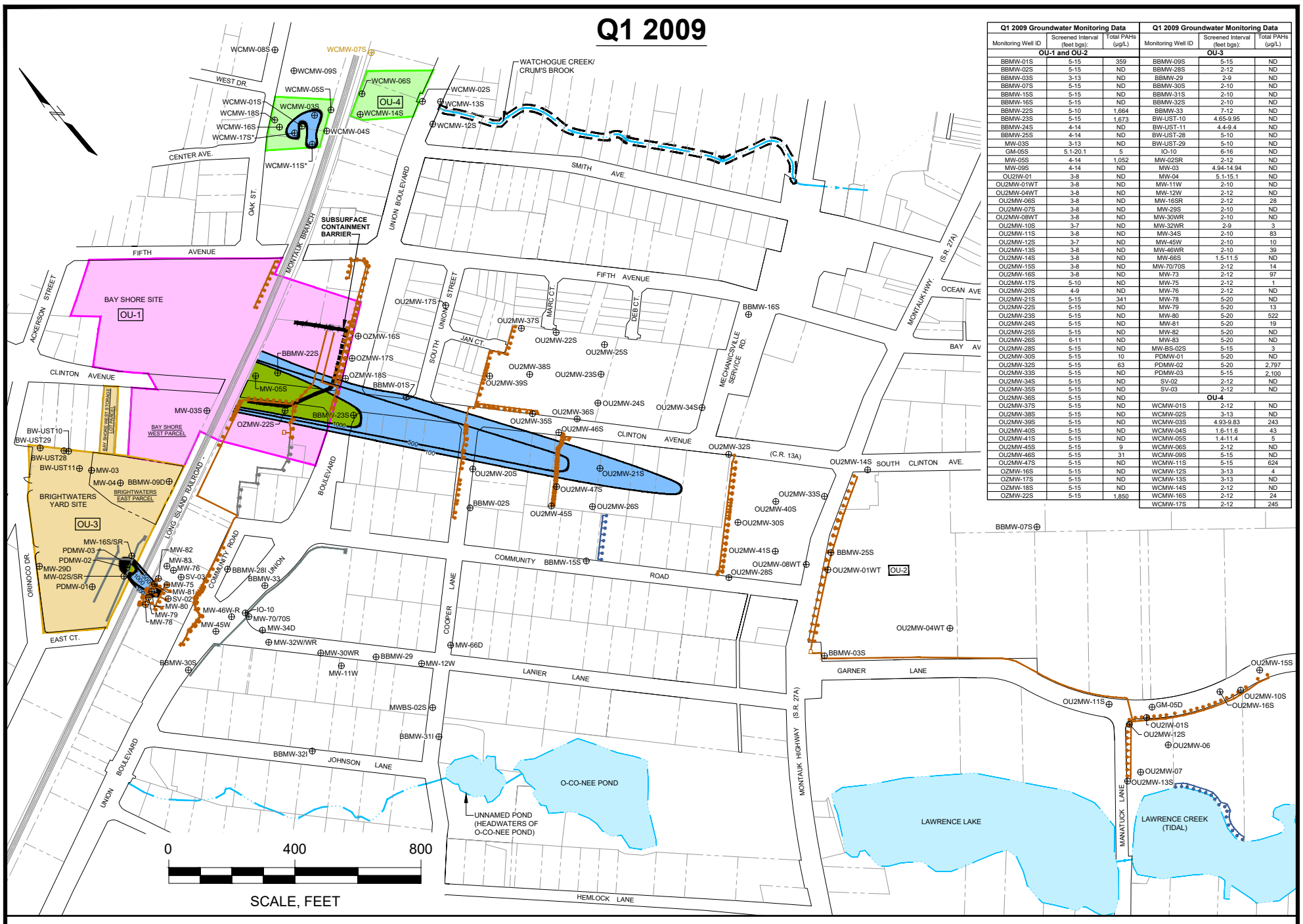
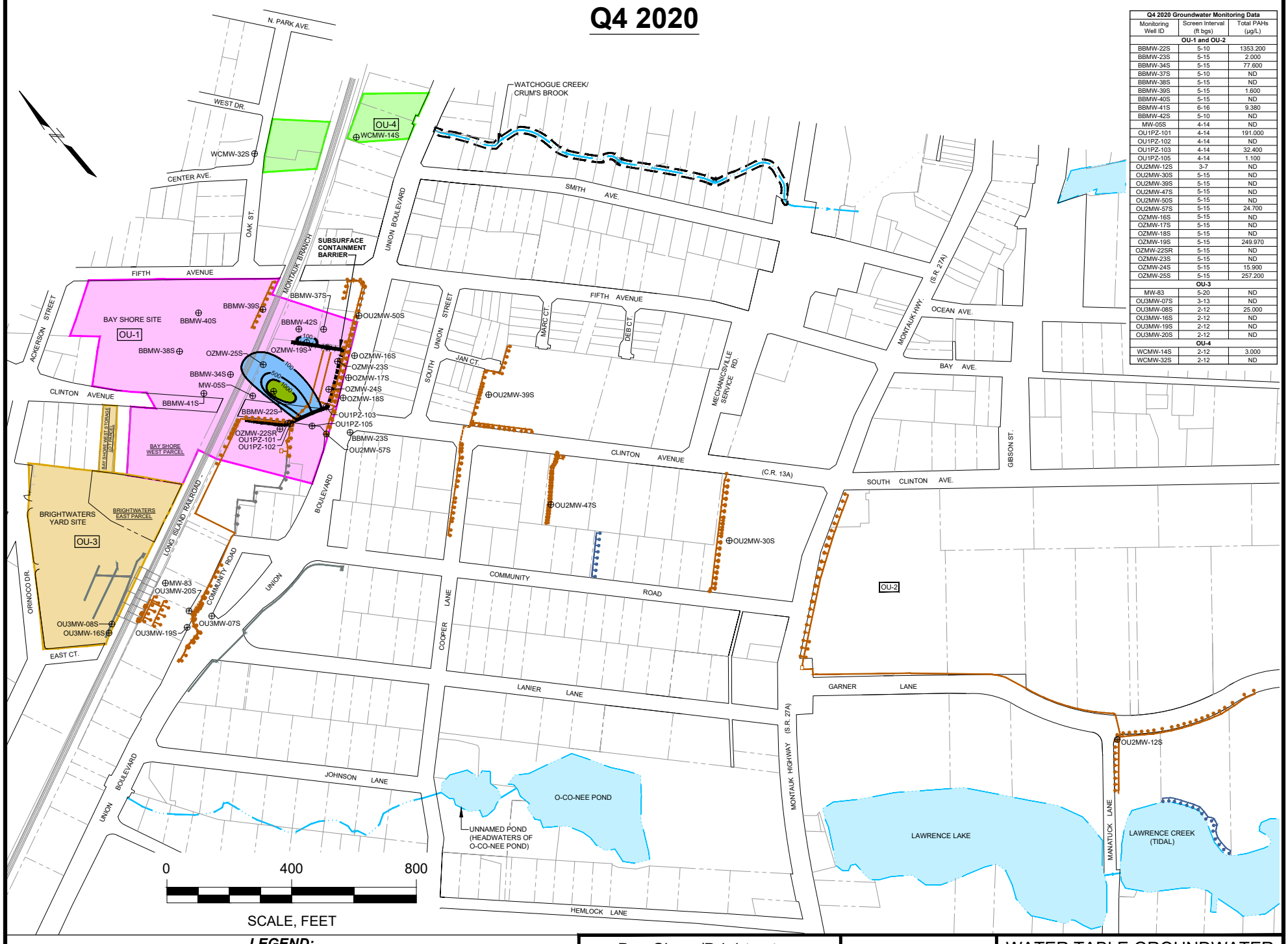
Q1 2009

Q1 2009 Groundwater Monitoring Data			Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)	Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2			**OU-3**		
BBMW-01S	5-15	359	BBMW-09S	5-15	ND
BBMW-02S	5-15	ND	BBMW-28S	2-12	ND
BBMW-03S	3-13	ND	BBMW-29	2-9	ND
BBMW-07S	5-15	ND	BBMW-30S	2-10	ND
BBMW-15S	5-15	ND	BBMW-31S	2-10	ND
BBMW-16S	5-15	ND	BBMW-32S	2-10	ND
BBMW-22S	5-10	1,664	BBMW-33	7-12	ND
BBMW-23S	5-15	1,673	BW-UST-10	4.65-9.95	ND
BBMW-24S	4-14	ND	BW-UST-11	4.4-9.4	ND
BBMW-25S	4-14	ND	BW-UST-28	5-10	ND
MW-03S	3-13	ND	BW-UST-29	5-10	ND
GM-05S	5.1-20.1	5	IO-10	6-16	ND
MW-06S	4-14	1,052	MW-02SR	2-12	ND
MW-09S	4-14	ND	MW-03	4.94-14.94	ND
OU2IW-01	3-8	ND	MW-04	5.1-15.1	ND
OU2MW-01WT	3-8	ND	MW-11W	2-10	ND
OU2MW-04WT	3-8	ND	MW-12W	2-12	ND
OU2MW-06S	3-8	ND	MW-16SR	2-12	28
OU2MW-07S	3-8	ND	MW-29S	2-10	ND
OU2MW-08WT	3-8	ND	MW-30WR	2-10	ND
OU2MW-10S	3-7	ND	MW-32WR	2-9	3
OU2MW-11S	3-8	ND	MW-34S	2-10	83
OU2MW-12S	3-7	ND	MW-45W	2-10	10
OU2MW-13S	3-8	ND	MW-46WR	2-10	39
OU2MW-14S	3-8	ND	MW-66S	1.5-11.5	ND
OU2MW-15S	3-8	ND	MW-70/70S	2-12	14
OU2MW-16S	3-8	ND	MW-73	2-12	97
OU2MW-17S	5-10	ND	MW-75	2-12	1
OU2MW-20S	4-9	ND	MW-76	2-12	ND
OU2MW-21S	5-15	341	MW-78	5-20	ND
OU2MW-22S	5-15	ND	MW-79	5-20	13
OU2MW-23S	5-15	ND	MW-80	5-20	522
OU2MW-24S	5-15	ND	MW-81	5-20	19
OU2MW-25S	5-15	ND	MW-82	5-20	ND
OU2MW-26S	6-11	ND	MW-83	5-20	ND
OU2MW-28S	5-15	ND	MW-BS-02S	5-15	3
OU2MW-30S	5-15	10	PDMW-01	5-20	ND
OU2MW-32S	5-15	63	PDMW-02	5-20	2,797
OU2MW-33S	5-15	ND	PDMW-03	5-15	2,100
OU2MW-34S	5-15	ND	SV-02	2-12	ND
OU2MW-35S	5-15	ND	SV-03	2-12	ND
OU2MW-36S	5-15	ND	**OU-4**		
OU2MW-37S	5-15	ND	WCMW-01S	2-12	ND
OU2MW-38S	5-15	ND	WCMW-02S	3-13	ND
OU2MW-39S	5-15	ND	WCMW-03S	4.93-9.83	243
OU2MW-40S	5-15	ND	WCMW-04S	1.6-11.6	43
OU2MW-41S	5-15	ND	WCMW-05S	1.4-11.4	5
OU2MW-45S	5-15	9	WCMW-06S	2-12	ND
OU2MW-46S	5-15	31	WCMW-09S	5-15	ND
OU2MW-47S	5-15	ND	WCMW-11S	5-15	624
OZMW-16S	5-15	ND	WCMW-12S	3-13	4
OZMW-17S	5-15	ND	WCMW-13S	3-13	ND
OZMW-18S	5-15	ND	WCMW-14S	2-12	ND
OZMW-22S	5-15	1,850	WCMW-16S	2-12	24
			WCMW-17S	2-12	245



Q4 2020

Q4 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	1353.200
BBMW-23S	5-15	2.000
BBMW-34S	5-15	77.600
BBMW-37S	5-10	ND
BBMW-38S	5-15	ND
BBMW-39S	5-15	1.600
BBMW-40S	5-15	ND
BBMW-41S	6-16	9.380
BBMW-42S	5-10	ND
MW-05S	4-14	ND
OU1PZ-101	4-14	191.000
OU1PZ-102	4-14	ND
OU1PZ-103	4-14	32.400
OU1PZ-105	4-14	1.100
OU2MW-12S	3-7	ND
OU2MW-30S	5-15	ND
OU2MW-39S	5-15	ND
OU2MW-47S	5-15	ND
OU2MW-50S	5-15	ND
OU2MW-57S	5-15	24.700
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	249.970
OZMW-22SR	5-15	ND
OZMW-23S	5-15	ND
OZMW-24S	5-15	15.900
OZMW-25S	5-15	257.200
OU-3		
MW-83	5-20	ND
OU3MW-07S	3-13	ND
OU3MW-08S	2-12	25.000
OU3MW-16S	2-12	ND
OU3MW-19S	2-12	ND
OU3MW-20S	2-12	ND
OU-4		
WCMW-14S	2-12	3.000
WCMW-32S	2-12	ND



LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- µg/L — MICROGRAMS PER LITER
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS
- TOTAL PAH ≧100 µg/L
- TOTAL PAH ≧1,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)

NOTE:
WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).

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WATER TABLE GROUNDWATER TOTAL PAH ISO-CONCENTRATION MAPS (0-10 FEET BGS)

March 2021 — Fig. 4

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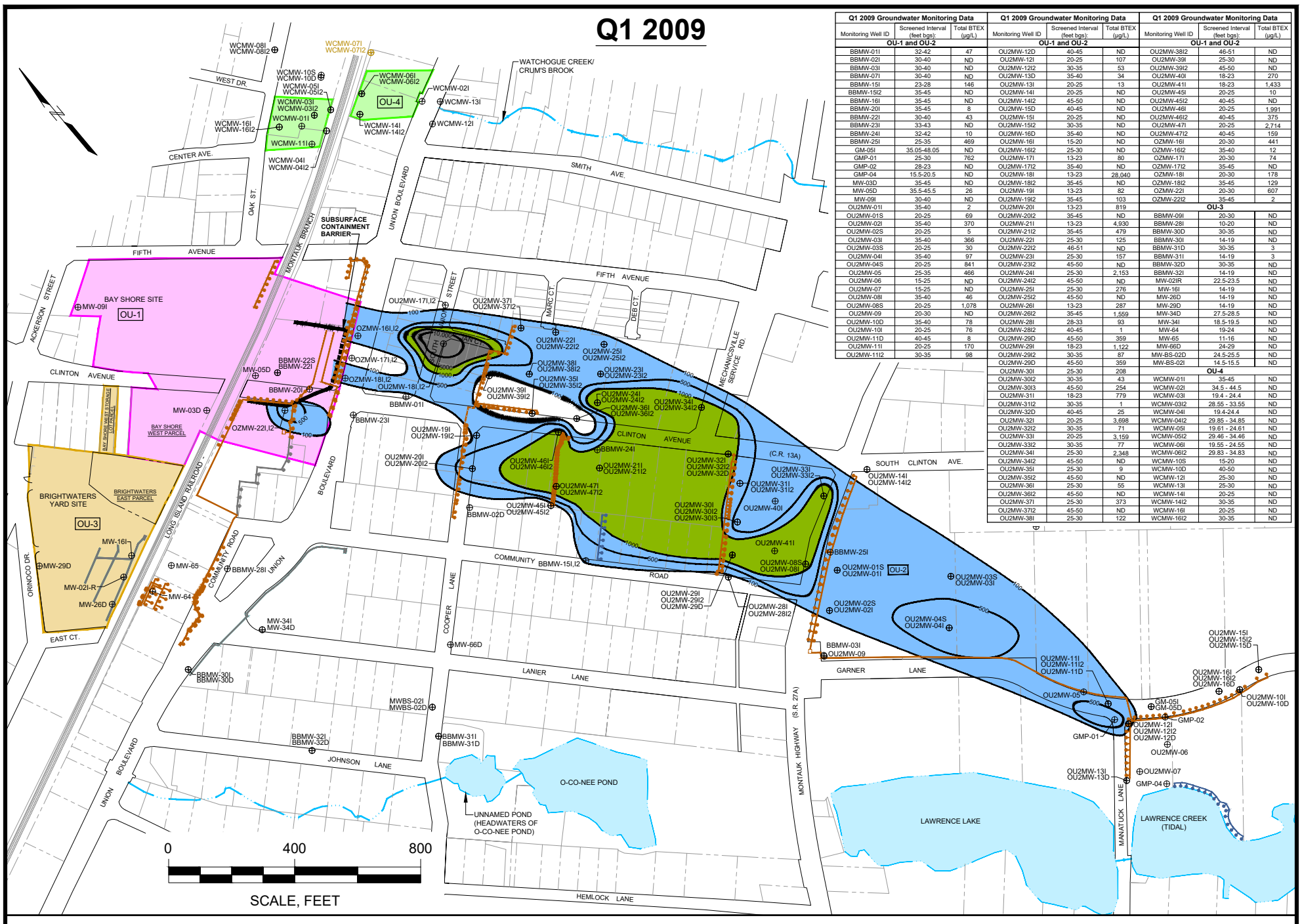
Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-01I	32-42	47
BBMW-02I	30-40	ND
BBMW-03I	30-40	ND
BBMW-07I	30-40	ND
BBMW-15I	23-28	146
BBMW-15I2	35-45	ND
BBMW-16I	35-45	ND
BBMW-20I	35-45	8
BBMW-22I	30-40	43
BBMW-23I	33-43	ND
BBMW-24I	32-42	10
BBMW-25I	25-35	469
GM-05I	35.05-48.05	ND
GMP-01	25-30	762
GMP-02	28-23	ND
GMP-04	15.5-20.5	ND
MW-03D	35-45	ND
MW-05D	35.5-45.5	26
MW-09I	30-40	ND
OU2MW-01I	35-40	2
OU2MW-01S	20-25	69
OU2MW-02I	35-40	370
OU2MW-02S	20-25	5
OU2MW-03I	35-40	366
OU2MW-03S	20-25	30
OU2MW-04I	35-40	97
OU2MW-04S	20-25	841
OU2MW-05	25-35	466
OU2MW-06	15-25	ND
OU2MW-07	15-25	ND
OU2MW-08I	35-40	46
OU2MW-08S	20-25	1,078
OU2MW-09	20-30	ND
OU2MW-10D	35-40	78
OU2MW-10I	20-25	76
OU2MW-11D	40-45	8
OU2MW-11I	20-25	170
OU2MW-11I2	30-35	98

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)
OU-1 and OU-2		
OU2MW-12D	40-45	ND
OU2MW-12I	20-25	107
OU2MW-12I2	30-35	53
OU2MW-13D	35-40	34
OU2MW-13I	20-25	13
OU2MW-14I	20-25	ND
OU2MW-14I2	45-50	ND
OU2MW-15D	40-45	ND
OU2MW-15I	20-25	ND
OU2MW-15I2	30-35	ND
OU2MW-16D	35-40	ND
OU2MW-16I	15-20	ND
OU2MW-16I2	25-30	ND
OU2MW-17I	13-23	80
OU2MW-17I2	35-40	ND
OU2MW-18I	13-23	28,040
OU2MW-18I2	35-45	ND
OU2MW-19I	13-23	82
OU2MW-19I2	35-45	103
OU2MW-20I	13-23	819
OU2MW-20I2	35-45	ND
OU2MW-21I	13-23	4,930
OU2MW-21I2	35-45	479
OU2MW-22I	25-30	125
OU2MW-22I2	46-51	ND
OU2MW-23I	25-30	157
OU2MW-23I2	45-50	ND
OU2MW-24I	25-30	2,153
OU2MW-24I2	45-50	ND
OU2MW-25I	25-30	276
OU2MW-25I2	45-50	ND
OU2MW-26I	13-23	287
OU2MW-26I2	35-45	1,559
OU2MW-28I	28-33	93
OU2MW-28I2	40-45	1
OU2MW-29D	45-50	359
OU2MW-29I	18-23	1,122
OU2MW-29I2	30-35	87
OU2MW-29D	45-50	359
OU2MW-30I	25-30	208
OU2MW-30I2	30-35	43
OU2MW-30I3	45-50	254
OU2MW-31I	18-23	779
OU2MW-31I2	30-35	1
OU2MW-32D	40-45	25
OU2MW-32I	20-25	3,698
OU2MW-32I2	30-35	71
OU2MW-33I	20-25	3,159
OU2MW-33I2	30-35	77
OU2MW-34I	25-30	2,348
OU2MW-34I2	45-50	ND
OU2MW-35I	25-30	9
OU2MW-35I2	45-50	ND
OU2MW-36I	25-30	55
OU2MW-36I2	45-50	ND
OU2MW-37I	25-30	373
OU2MW-37I2	45-50	ND
OU2MW-38I	25-30	122

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)
OU-1 and OU-2		
OU2MW-38I2	46-51	ND
OU2MW-39I	25-30	ND
OU2MW-39I2	45-50	ND
OU2MW-40I	18-23	270
OU2MW-41I	18-23	1,433
OU2MW-45I	20-25	10
OU2MW-45I2	40-45	ND
OU2MW-46I	20-25	1,991
OU2MW-46I2	40-45	375
OU2MW-47I	20-25	2,714
OU2MW-47I2	40-45	159
OZMW-16I	20-30	441
OZMW-16I2	35-40	12
OZMW-17I	20-30	74
OZMW-17I2	35-45	ND
OZMW-18I	20-30	178
OZMW-18I2	35-45	129
OZMW-22I	20-30	607
OZMW-22I2	35-45	2
OU-3		
BBMW-09I	20-30	ND
BBMW-28I	10-20	ND
BBMW-30D	30-35	ND
BBMW-30I	14-19	ND
BBMW-31D	30-35	3
BBMW-31I	14-19	3
BBMW-32D	30-35	ND
BBMW-32I	14-19	ND
MW-02IR	22.5-23.5	ND
MW-16I	14-19	ND
MW-26D	14-19	ND
MW-29D	14-19	ND
MW-34D	27.5-28.5	ND
MW-65	11-16	ND
MW-66D	24-29	ND
MW-BS-02D	24.5-25.5	ND
MW-BS-02I	14.5-15.5	ND
OU-4		
WCMW-01I	35-45	ND
WCMW-02I	34.5 - 44.5	ND
WCMW-03I	19.4 - 24.4	ND
WCMW-03I2	28.55 - 33.55	ND
WCMW-04I	19.4-24.4	ND
WCMW-04I2	29.85 - 34.85	ND
WCMW-05I	19.61 - 24.61	ND
WCMW-05I2	29.46 - 34.46	ND
WCMW-06I	19.55 - 24.55	ND
WCMW-06I2	29.83 - 34.83	ND
WCMW-10S	15-20	ND
WCMW-10D	40-50	ND
WCMW-12I	25-30	ND
WCMW-13I	25-30	ND
WCMW-14I	20-25	ND
WCMW-14I2	30-35	ND
WCMW-16I	20-25	ND
WCMW-16I2	30-35	ND



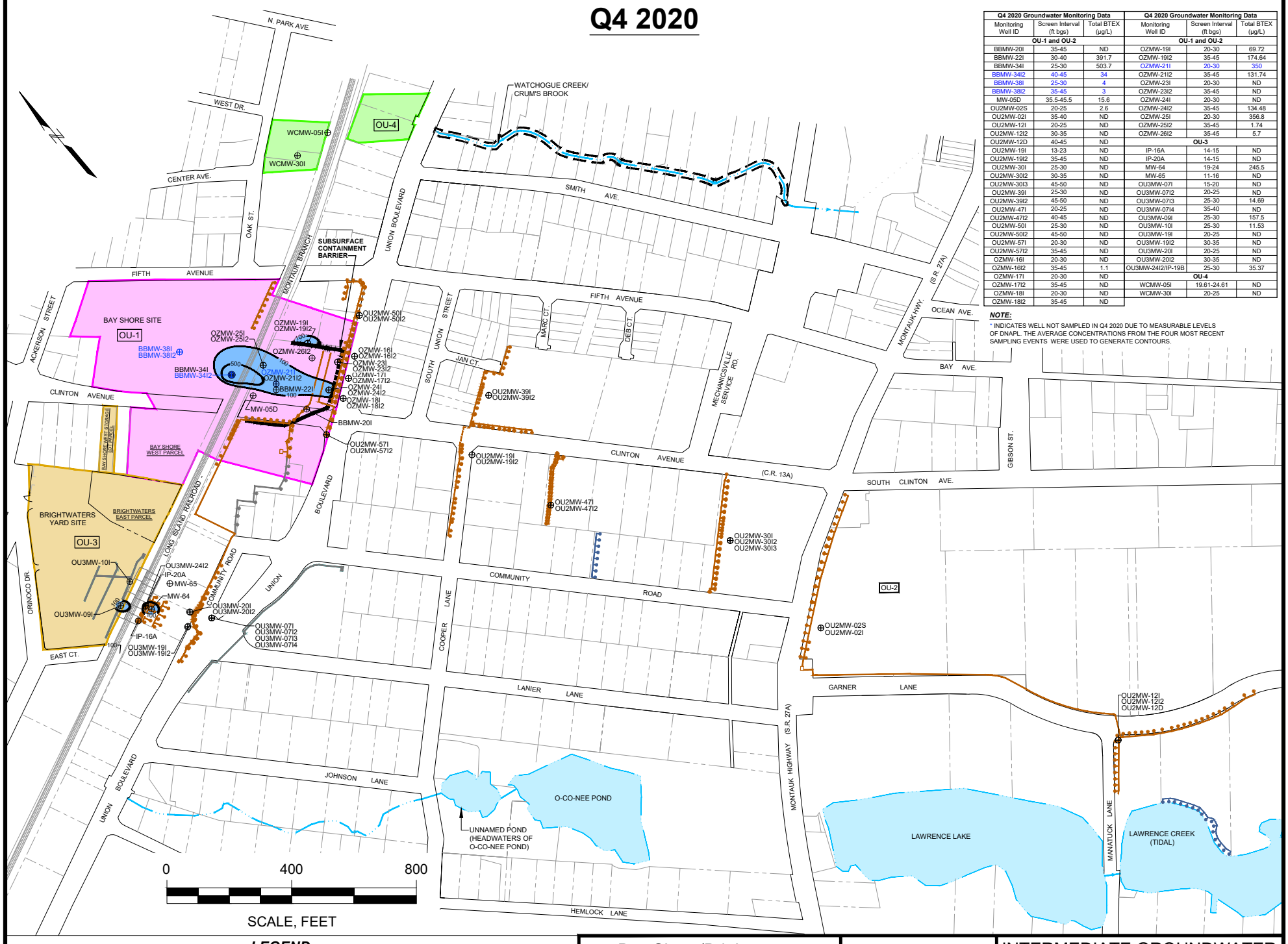
Q4 2020

Q4 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-20I	35-45	ND
BBMW-22I	30-40	391.7
BBMW-34I	25-30	503.7
BBMW-34I2	40-45	34
BBMW-38I	25-30	4
BBMW-38I2	35-45	3
MW-05D	35.5-45.5	15.6
OU2MW-02S	20-25	2.6
OU2MW-02I	35-40	ND
OU2MW-12I	20-25	ND
OU2MW-12I2	30-35	ND
OU2MW-12D	40-45	ND
OU2MW-19I	13-23	ND
OU2MW-19I2	35-45	ND
OU2MW-30I	25-30	ND
OU2MW-30I2	30-35	ND
OU2MW-30I3	45-50	ND
OU2MW-39I	25-30	ND
OU2MW-39I2	45-50	ND
OU2MW-47I	20-25	ND
OU2MW-47I2	40-45	ND
OU2MW-50I	25-30	ND
OU2MW-50I2	45-50	ND
OU2MW-57I	20-30	ND
OU2MW-57I2	35-45	ND
OZMW-16I	20-30	ND
OZMW-16I2	35-45	1.1
OZMW-17I	20-30	ND
OZMW-17I2	35-45	ND
OZMW-18I	20-30	ND
OZMW-18I2	35-45	ND

Q4 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
OU-1 and OU-2		
OZMW-19I	20-30	69.72
OZMW-19I2	35-45	174.64
OZMW-21I	20-30	350
OZMW-21I2	35-45	131.74
OZMW-23I	20-30	ND
OZMW-23I2	35-45	ND
OZMW-24I	20-30	ND
OZMW-24I2	35-45	134.48
OZMW-25I	20-30	356.8
OZMW-25I2	35-45	1.74
OZMW-26I2	35-45	5.7
OU-3		
IP-16A	14-15	ND
IP-20A	14-15	ND
MW-64	19-24	245.5
MW-65	11-16	ND
OU3MW-07I	15-20	ND
OU3MW-07I2	20-25	ND
OU3MW-07I3	25-30	14.69
OU3MW-07I4	35-40	ND
OU3MW-09I	25-30	157.5
OU3MW-10I	25-30	11.53
OU3MW-19I	20-25	ND
OU3MW-19I2	30-35	ND
OU3MW-20I	20-25	ND
OU3MW-20I2	30-35	ND
OU3MW-24I2/IP-19B	25-30	35.37
OU-4		
WCMW-05I	19.61-24.61	ND
WCMW-30I	20-25	ND

NOTE:

* INDICATES WELL NOT SAMPLED IN Q4 2020 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.



LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-38I — WELL NOT SAMPLED IN Q1 2019 DUE TO MEASURABLE LEVELS OF DNAPL
- µg/L — MICROGRAMS PER LITER
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- BTEX ≧5,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE

NOTE:
WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).

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INTERMEDIATE GROUNDWATER
TOTAL BTEX
ISO-CONCENTRATION MAPS
(10-50 FEET BGS)

March 2021 Fig. 5

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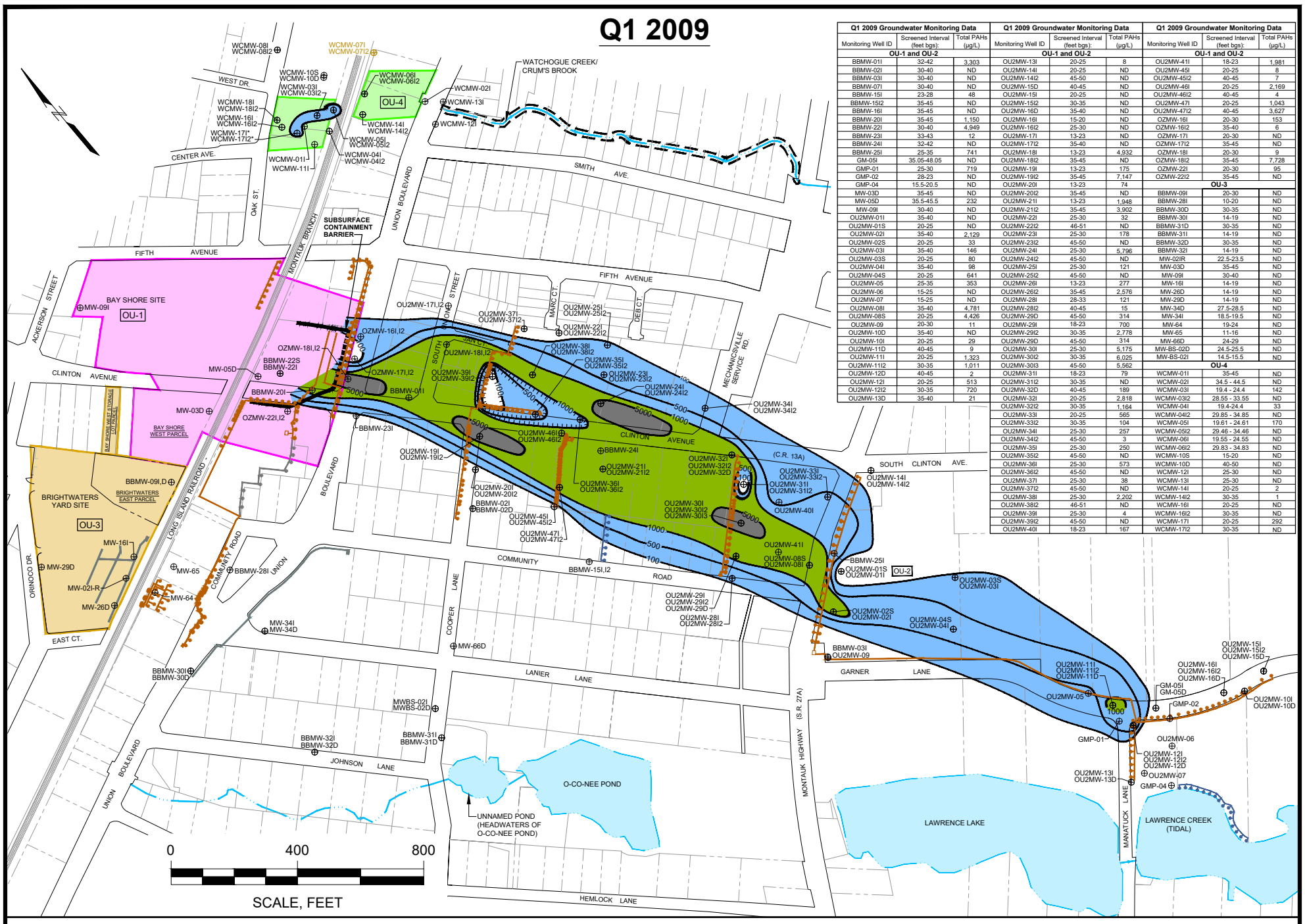
Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01I	32-42	3,303
BBMW-02I	30-40	ND
BBMW-03I	30-40	ND
BBMW-07I	30-40	ND
BBMW-15I	23-28	48
BBMW-15I2	35-45	ND
BBMW-16I	35-45	ND
BBMW-20I	35-45	1,150
BBMW-22I	30-40	4,949
BBMW-23I	33-43	12
BBMW-24I	32-42	ND
BBMW-25I	25-35	741
GM-05I	35.05-48.05	ND
GMP-01	25-30	719
GMP-02	28-23	ND
GMP-04	15.5-20.5	ND
MW-03D	35-45	ND
MW-05D	35.5-45.5	232
MW-09I	30-40	ND
OU2MW-01I	35-40	ND
OU2MW-01S	20-25	ND
OU2MW-02I	35-40	2,129
OU2MW-02S	20-25	33
OU2MW-03I	35-40	146
OU2MW-03S	20-25	80
OU2MW-04I	35-40	98
OU2MW-04S	20-25	641
OU2MW-05	25-35	353
OU2MW-06	15-25	ND
OU2MW-07	15-25	ND
OU2MW-08I	35-40	4,781
OU2MW-08S	20-25	4,426
OU2MW-09	20-30	11
OU2MW-10D	35-40	ND
OU2MW-10I	20-25	29
OU2MW-11D	40-45	9
OU2MW-11I	20-25	1,323
OU2MW-11I2	30-35	1,011
OU2MW-12D	40-45	2
OU2MW-12I	20-25	513
OU2MW-12I2	30-35	720
OU2MW-13D	35-40	21

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-13I	20-25	8
OU2MW-14I	20-25	ND
OU2MW-14I2	45-50	ND
OU2MW-15D	40-45	ND
OU2MW-15I	20-25	ND
OU2MW-15I2	30-35	ND
OU2MW-16D	35-40	ND
OU2MW-16I	15-20	ND
OU2MW-16I2	25-30	ND
OU2MW-17I	13-23	ND
OU2MW-17I2	35-40	ND
OU2MW-18I	13-23	4,932
OU2MW-18I2	35-45	ND
OU2MW-19I	13-23	175
OU2MW-19I2	35-45	7,147
OU2MW-20I	13-23	74
OU2MW-20I2	35-45	ND
OU2MW-21I	13-23	1,948
OU2MW-21I2	35-45	3,902
OU2MW-22I	25-30	32
OU2MW-22I2	46-51	ND
OU2MW-23I	25-30	178
OU2MW-23I2	45-50	ND
OU2MW-24I	25-30	5,796
OU2MW-24I2	45-50	ND
OU2MW-25I	25-30	121
OU2MW-25I2	45-50	ND
OU2MW-26I	13-23	277
OU2MW-26I2	35-45	2,576
OU2MW-28I	28-33	121
OU2MW-28I2	40-45	15
OU2MW-29D	45-50	314
OU2MW-29I	18-23	700
OU2MW-29I2	30-35	2,778
OU2MW-29D	45-50	314
OU2MW-30I	25-30	5,175
OU2MW-30I2	30-35	6,025
OU2MW-30I3	45-50	5,562
OU2MW-31I	18-23	79
OU2MW-31I2	30-35	ND
OU2MW-32D	40-45	189
OU2MW-32I	20-25	2,818
OU2MW-32I2	30-35	1,164
OU2MW-33I	20-25	565
OU2MW-33I2	30-35	104
OU2MW-34I	25-30	257
OU2MW-34I2	45-50	3
OU2MW-35I	25-30	250
OU2MW-35I2	45-50	ND
OU2MW-36I	25-30	573
OU2MW-36I2	45-50	ND
OU2MW-37I	25-30	38
OU2MW-37I2	45-50	ND
OU2MW-38I	25-30	2,202
OU2MW-38I2	46-51	ND
OU2MW-39I	25-30	4
OU2MW-39I2	45-50	ND
OU2MW-40I	18-23	167

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-41I	18-23	1,981
OU2MW-45I	20-25	8
OU2MW-45I2	40-45	7
OU2MW-46I	20-25	2,169
OU2MW-46I2	40-45	4
OU2MW-47I	20-25	1,043
OU2MW-47I2	40-45	3,627
OZMW-16I	20-30	153
OZMW-16I2	35-40	6
OZMW-17I	20-30	ND
OZMW-17I2	35-45	ND
OZMW-18I	20-30	9
OZMW-18I2	35-45	7,728
OZMW-22I	20-30	95
OZMW-22I2	35-45	ND
OU-3		
BBMW-09I	20-30	ND
BBMW-28I	10-20	ND
BBMW-30D	30-35	ND
BBMW-30I	14-19	ND
BBMW-31D	30-35	ND
BBMW-31I	14-19	ND
BBMW-32D	30-35	ND
BBMW-32I	14-19	ND
MW-02IR	22.5-23.5	ND
MW-03D	35-45	ND
MW-09I	30-40	ND
MW-16I	14-19	ND
MW-26D	14-19	ND
MW-29D	14-19	ND
MW-34D	27.5-28.5	ND
MW-34I	18.5-19.5	ND
MW-64	19-24	ND
MW-65	11-16	ND
MW-66D	24-29	ND
MW-BS-02D	24.5-25.5	ND
MW-BS-02I	14.5-15.5	ND
OU-4		
WCMW-01I	35-45	ND
WCMW-02I	34.5 - 44.5	ND
WCMW-03I	19.4 - 24.4	142
WCMW-03I2	28.55 - 33.55	ND
WCMW-04I	19.4-24.4	33
WCMW-04I2	29.85 - 34.85	ND
WCMW-05I	19.61 - 24.61	170
WCMW-05I2	29.46 - 34.46	ND
WCMW-06I	19.55 - 24.55	ND
WCMW-06I2	29.83 - 34.83	ND
WCMW-10S	15-20	ND
WCMW-10D	40-50	ND
WCMW-12I	25-30	ND
WCMW-13I	25-30	ND
WCMW-14I	20-25	2
WCMW-14I2	30-35	1
WCMW-16I	20-25	ND
WCMW-16I2	30-35	ND
WCMW-17I	20-25	292
WCMW-17I2	30-35	ND



Q4 2020

Q4 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-20I	35-45	2.5
BBMW-22I	30-40	4048
BBMW-34I	25-30	2007
BBMW-34I2	40-45	1637
BBMW-38I	25-30	551
BBMW-38I2	35-45	736
MW-05D	35.5-45.5	129.83
OU2MW-02S	20-25	ND
OU2MW-02I	35-40	ND
OU2MW-12I	20-25	ND
OU2MW-12I2	30-35	ND
OU2MW-12D	40-45	ND
OU2MW-19I	13-23	ND
OU2MW-19I2	35-45	ND
OU2MW-30I	25-30	ND
OU2MW-30I2	30-35	0.45
OU2MW-30I3	45-50	ND
OU2MW-39I	25-30	ND
OU2MW-39I2	45-50	ND
OU2MW-47I	20-25	ND
OU2MW-47I2	40-45	ND
OU2MW-50I	25-30	ND
OU2MW-50I2	45-50	ND
OU2MW-57I	20-30	10
OU2MW-57I2	35-45	ND
OZMW-16I	20-30	ND
OZMW-16I2	35-45	ND
OZMW-17I	20-30	ND
OZMW-17I2	35-45	ND
OZMW-18I	20-30	ND
OZMW-18I2	35-45	ND

Q4 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
OZMW-19I	20-30	482.5
OZMW-19I2	35-45	2278
OZMW-21I	20-30	3522
OZMW-21I2	35-45	4573
OZMW-23I	20-30	ND
OZMW-23I2	35-45	ND
OZMW-24I	20-30	ND
OZMW-24I2	35-45	5753
OZMW-25I	20-30	3806
OZMW-25I2	35-45	263.4
OZMW-26I2	35-45	16.3
OU-3		
IP-16A	14-15	ND
IP-20A	14-15	ND
MW-64	19-24	103.1
MW-65	11-16	ND
OU3MW-07I	15-20	ND
OU3MW-07I2	20-25	ND
OU3MW-07I3	25-30	ND
OU3MW-07I4	35-40	ND
OU3MW-09I	25-30	13.6
OU3MW-10I	25-30	ND
OU3MW-19I	20-25	ND
OU3MW-19I2	30-35	ND
OU3MW-20I	20-25	ND
OU3MW-20I2	30-35	ND
OU3MW-24I2/IP-19B	25-30	ND
OU-4		
WCMW-05I	19.61-24.61	247
WCMW-30I	20-25	ND

NOTE:

* INDICATES WELL NOT SAMPLED IN Q4 2020 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-38I — WELL NOT SAMPLED IN Q1 2019 DUE TO MEASURABLE LEVELS OF DNAPL
- µg/L — MICROGRAMS PER LITER
- TOTAL PAH ≧100 µg/L
- TOTAL PAH ≧1,000 µg/L
- TOTAL PAH ≧5,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS

NOTE:
WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).

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INTERMEDIATE GROUNDWATER
TOTAL PAH
ISO-CONCENTRATION MAPS
(10-50 FEET BGS)

March 2021 — Fig. 6

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Q1 2009

Q1 2009 Groundwater Monitoring Data

Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	33
BBMW-02D	73-83	ND
BBMW-03D	52-62	ND
BBMW-05D	64-74	482
BBMW-05D2	126.5-136.5	7
BBMW-07D	55-65	ND
BBMW-15D	70-80	ND
BBMW-16D	68-78	ND
BBMW-22D	64-74	2,314
BBMW-23D	49.5-59.5	7
BBMW-23D2	63-73	ND
BBMW-24D	59.5-69.5	22
BBMW-25D	62-72	35
GM-05D	60.95-75.95	2
OU2MW-01D	65-70	ND
OU2MW-01I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-02I2	50-55	3
OU2MW-03D	65-70	ND
OU2MW-03I2	50-55	5
OU2MW-04D	65-70	2
OU2MW-04I2	50-55	ND
OU2MW-08D	65-70	ND
OU2MW-08I2	50-55	152
OU2MW-17D	60-70	ND
OU2MW-18D	60-70	ND
OU2MW-19D	65-70	542
OU2MW-20D	65-70	ND
OU2MW-22D	67-72	ND
OU2MW-23D	65-70	ND
OU2MW-24D	62-67	ND
OU2MW-25D	70-75	ND
OU2MW-26D	60-70	474
OU2MW-30D	50-55	134
OU2MW-30D2	60-65	375
OU2MW-33D	50-55	2
OU2MW-35D	57-62	ND
OU2MW-36D	61-66	ND
OU2MW-37D	67-72	ND
OU2MW-38D	56-61	ND
OU2MW-39D	70-75	ND
OU2MW-45D	55-60	ND
OU2MW-47D	60-65	569
OZMW-16D	55-65	ND
OZMW-17D	53-63	ND
OZMW-18D	55-65	216
OZMW-22D	55-65	ND
OU-3		
BBMW-09D	62-72	ND
BBMW-13D	62-72	ND
OU-4		
WCMW-01D	64-74	ND
WCMW-02D	62-72	ND
WCMW-12D	67-72	ND
WCMW-13D	65-70	ND
WCMW-14D	67-72	ND

Q4 2020

Q4 2020 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	0.52
BBMW-05D	64-74	1258
OU2MW-02I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-19D	65-70	2.3
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-39D	70-75	ND
OU2MW-42D	60-65	392
OU2MW-43D	65-70	30.6
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OZMW-16D	55-65	ND
OZMW-17D	53-63	403
OZMW-18D	55-65	150.5
OZMW-23D	55-65	ND
OZMW-24D	55-65	714.1

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- µg/L — MICROGRAMS PER LITER
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)

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DEEP GROUNDWATER
TOTAL BTEX
ISO-CONCENTRATION MAPS
(BELOW 50 FEET BGS)

Project 1905774 | March 2021 | Fig. 7

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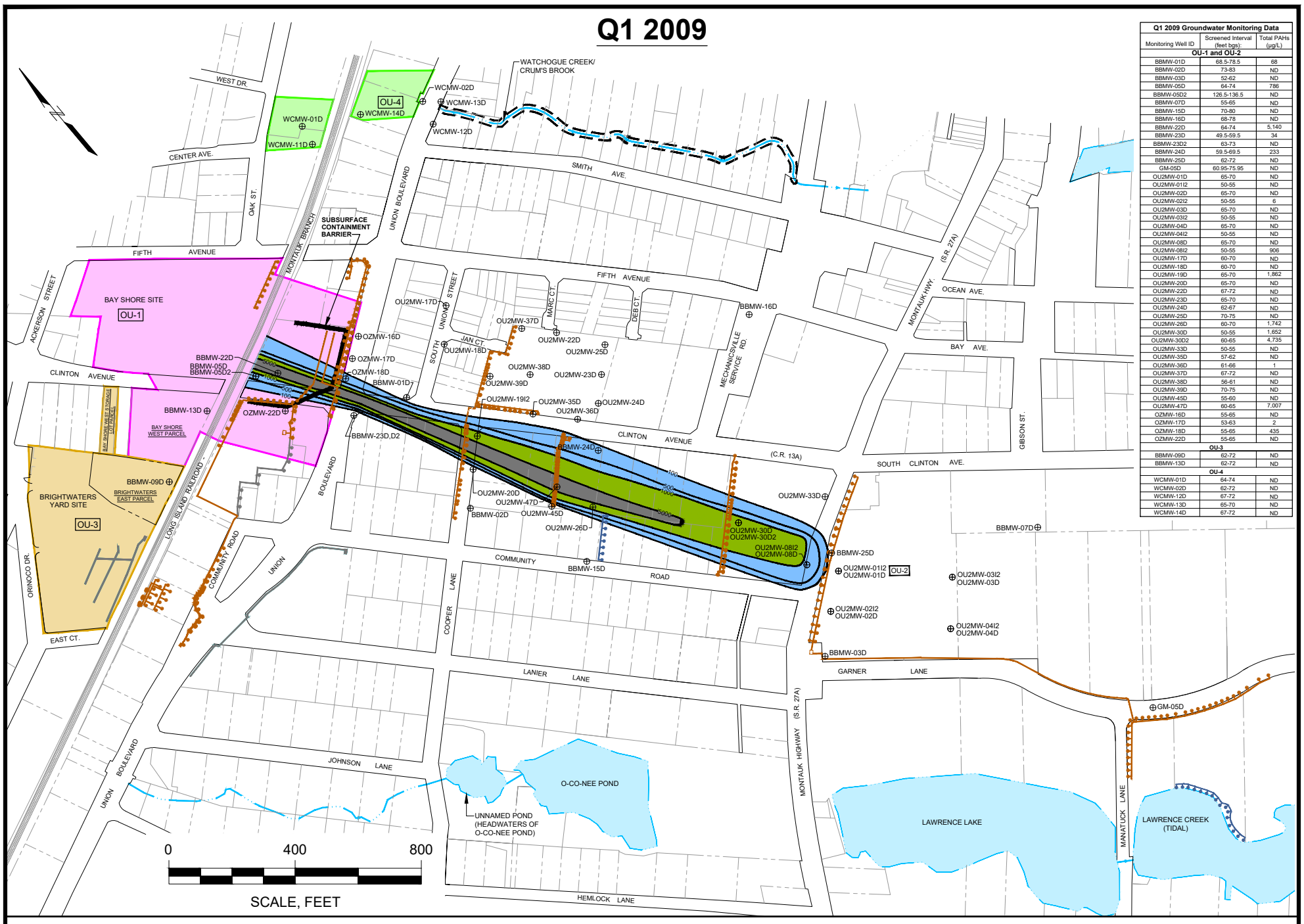
Q1 2009

Q1 2009 Groundwater Monitoring Data

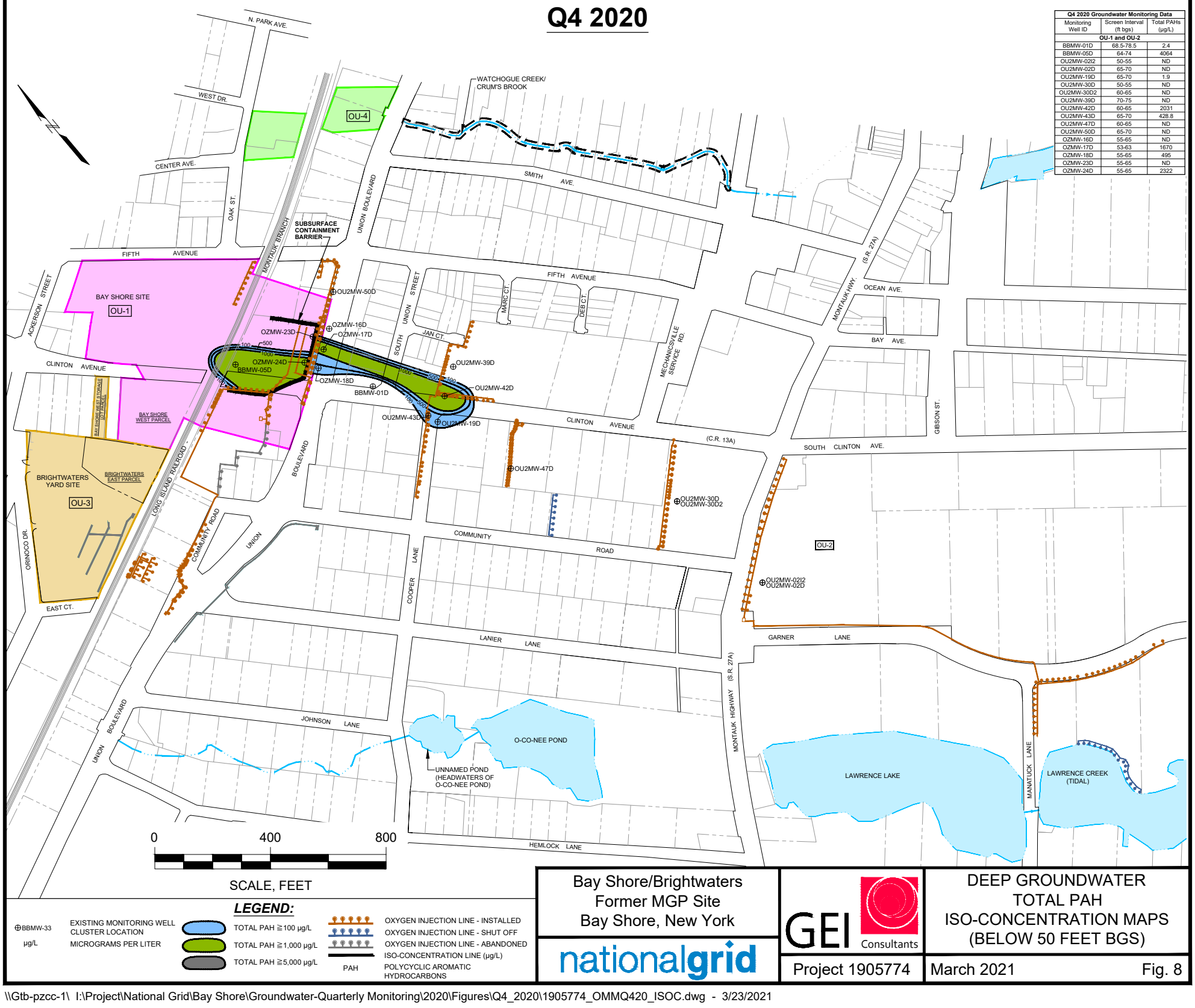
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	68
BBMW-02D	73-83	ND
BBMW-03D	52-62	ND
BBMW-05D	64-74	786
BBMW-05D2	126.5-136.5	ND
BBMW-07D	55-65	ND
BBMW-15D	70-80	ND
BBMW-16D	68-78	ND
BBMW-22D	64-74	5,140
BBMW-23D	49.5-59.5	34
BBMW-23D2	63-73	ND
BBMW-24D	59.5-69.5	233
BBMW-25D	62-72	ND
GM-05D	60.95-75.95	ND
OU2MW-01D	65-70	ND
OU2MW-01I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-02I2	50-55	6
OU2MW-03D	65-70	ND
OU2MW-03I2	50-55	ND
OU2MW-04D	65-70	ND
OU2MW-04I2	50-55	ND
OU2MW-08D	65-70	ND
OU2MW-08I2	50-55	906
OU2MW-17D	60-70	ND
OU2MW-18D	60-70	ND
OU2MW-19D	65-70	1,862
OU2MW-20D	65-70	ND
OU2MW-22D	67-72	ND
OU2MW-23D	65-70	ND
OU2MW-24D	62-67	ND
OU2MW-25D	70-75	ND
OU2MW-26D	60-70	1,742
OU2MW-30D	50-55	1,652
OU2MW-30D2	60-65	4,735
OU2MW-33D	50-55	ND
OU2MW-35D	57-62	ND
OU2MW-36D	61-66	1
OU2MW-37D	67-72	ND
OU2MW-38D	56-61	ND
OU2MW-39D	70-75	ND
OU2MW-45D	55-60	ND
OU2MW-47D	60-65	7,007
OZMW-16D	55-65	ND
OZMW-17D	53-63	2
OZMW-18D	55-65	435
OZMW-22D	55-65	ND
OU-3		
BBMW-09D	62-72	ND
BBMW-13D	62-72	ND
OU-4		
WCMW-01D	64-74	ND
WCMW-02D	62-72	ND
WCMW-12D	67-72	ND
WCMW-13D	65-70	ND
WCMW-14D	67-72	ND



Q4 2020

Q4 2020 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	2.4
BBMW-05D	64-74	4064
OU2MW-02I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-19D	65-70	1.9
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-39D	70-75	ND
OU2MW-42D	60-65	2031
OU2MW-43D	65-70	428.8
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OZMW-16D	55-65	ND
OZMW-17D	53-63	1670
OZMW-18D	55-65	495
OZMW-23D	55-65	ND
OZMW-24D	55-65	2322



LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- µg/L — MICROGRAMS PER LITER
- TOTAL PAH ≧100 µg/L
- TOTAL PAH ≧1,000 µg/L
- TOTAL PAH ≧5,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS

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DEEP GROUNDWATER
TOTAL PAH
ISO-CONCENTRATION MAPS
(BELOW 50 FEET BGS)

Project 1905774 | March 2021 | Fig. 8

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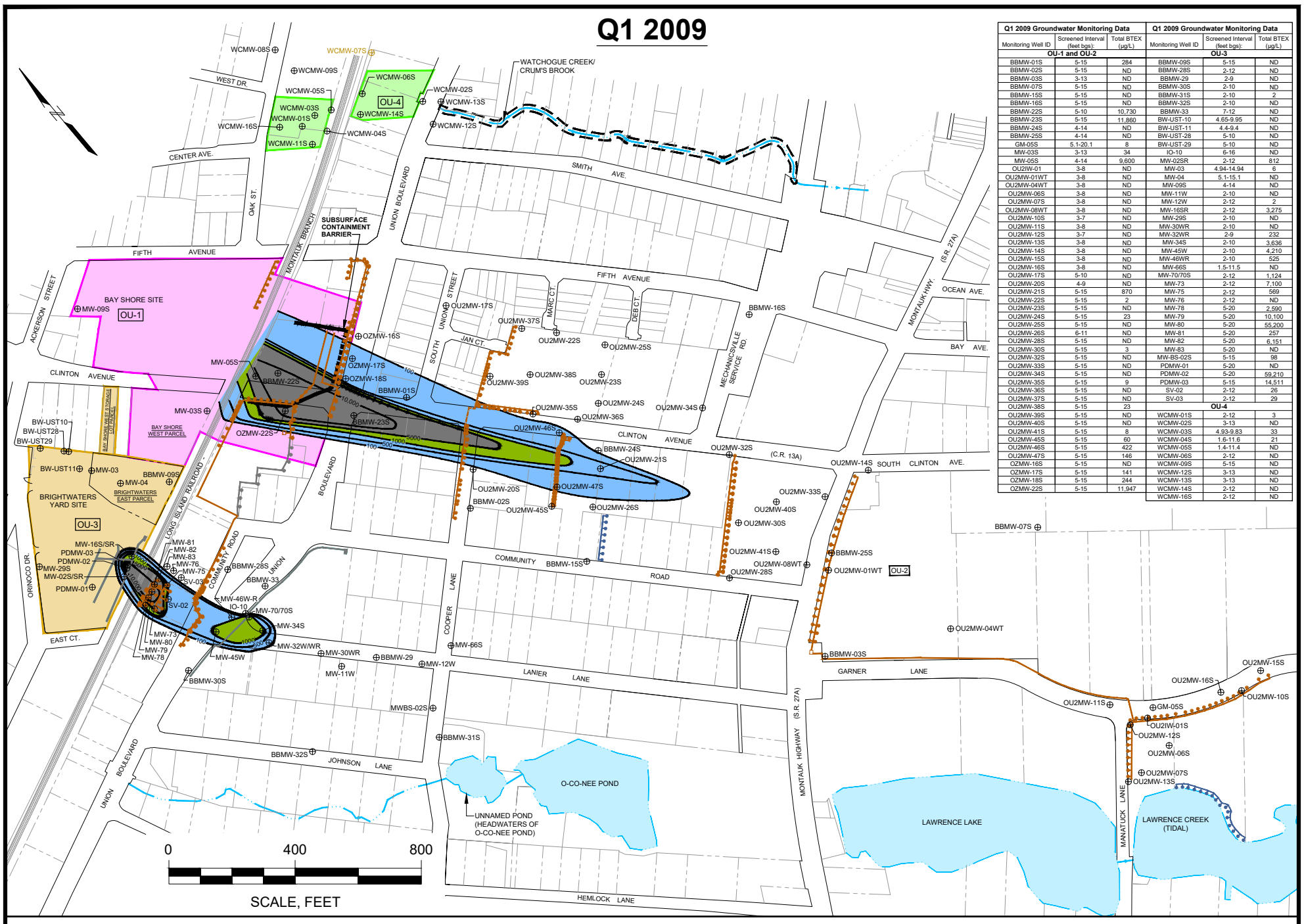
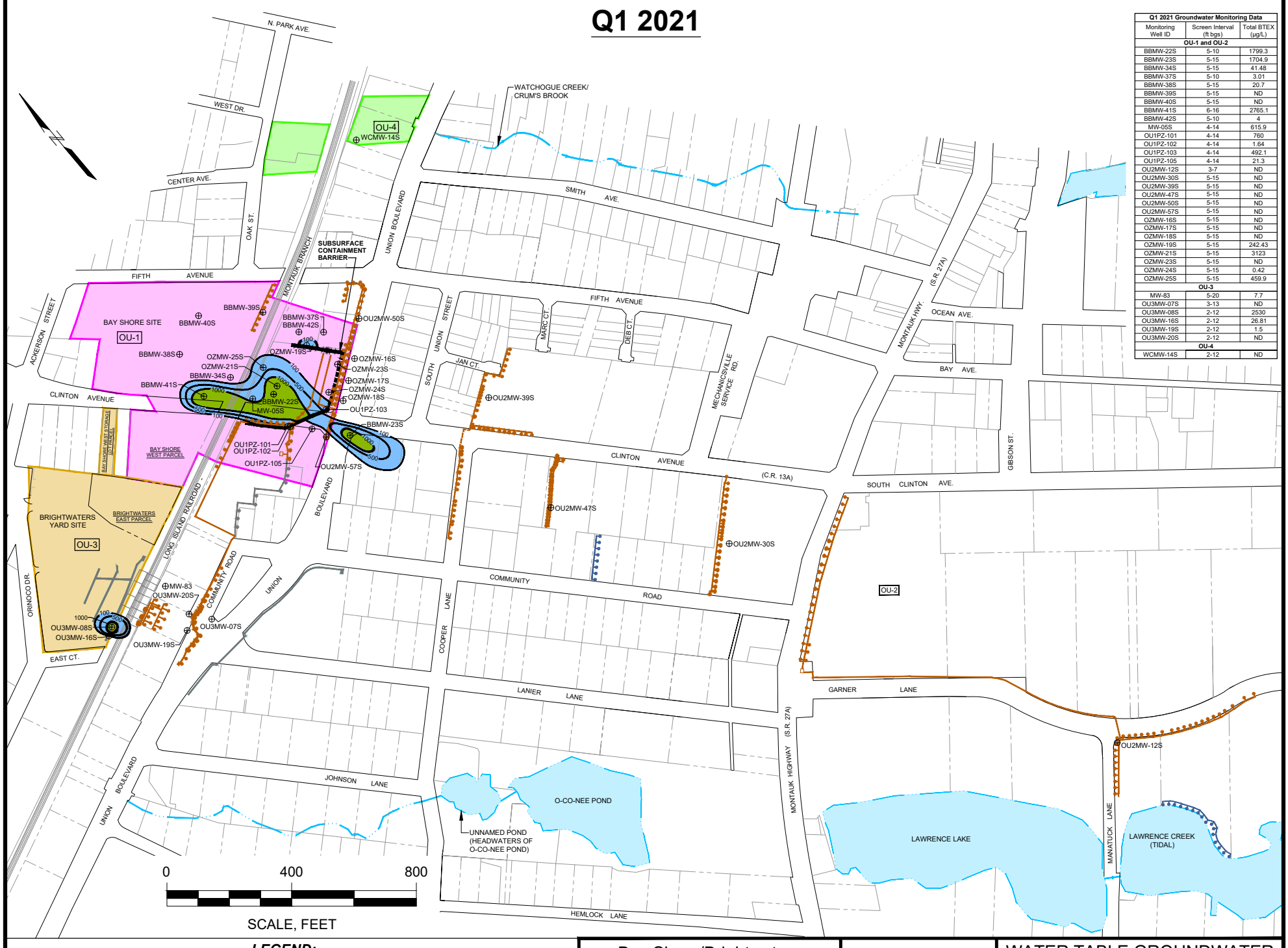
Q1 2009

Q1 2009 Groundwater Monitoring Data			Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)	Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)
OU-1 and OU-2			**OU-3**		
BBMW-01S	5-15	284	BBMW-09S	5-15	ND
BBMW-02S	5-15	ND	BBMW-28S	2-12	ND
BBMW-03S	3-13	ND	BBMW-29	2-9	ND
BBMW-07S	5-15	ND	BBMW-30S	2-10	ND
BBMW-15S	5-15	ND	BBMW-31S	2-10	2
BBMW-16S	5-15	ND	BBMW-32S	2-10	ND
BBMW-22S	5-10	10,730	BBMW-33	7-12	ND
BBMW-23S	5-15	11,860	BW-UST-10	4.65-9.95	ND
BBMW-24S	4-14	ND	BW-UST-11	4.4-9.4	ND
BBMW-25S	4-14	ND	BW-UST-28	5-10	ND
GM-05S	5.1-20.1	8	BW-UST-29	5-10	ND
MW-03S	3-13	34	IO-10	6-16	ND
MW-05S	4-14	9,600	MW-02SR	2-12	812
OU2IW-01	3-8	ND	MW-03	4.94-14.94	6
OU2MW-01WT	3-8	ND	MW-04	5.1-15.1	ND
OU2MW-04WT	3-8	ND	MW-09S	4-14	ND
OU2MW-06S	3-8	ND	MW-11W	2-10	ND
OU2MW-07S	3-8	ND	MW-12W	2-12	2
OU2MW-08WT	3-8	ND	MW-16SR	2-12	3,275
OU2MW-10S	3-7	ND	MW-29S	2-10	ND
OU2MW-11S	3-8	ND	MW-30WR	2-10	ND
OU2MW-12S	3-7	ND	MW-32WR	2-9	232
OU2MW-13S	3-8	ND	MW-34S	2-10	3,636
OU2MW-14S	3-8	ND	MW-45W	2-10	4,210
OU2MW-15S	3-8	ND	MW-46WR	2-10	525
OU2MW-16S	3-8	ND	MW-66S	1.5-11.5	ND
OU2MW-17S	5-10	ND	MW-70/70S	2-12	1,124
OU2MW-20S	4-9	ND	MW-73	2-12	7,100
OU2MW-21S	5-15	870	MW-75	2-12	569
OU2MW-22S	5-15	2	MW-76	2-12	ND
OU2MW-23S	5-15	ND	MW-78	5-20	2,590
OU2MW-24S	5-15	23	MW-79	5-20	10,100
OU2MW-25S	5-15	ND	MW-80	5-20	55,200
OU2MW-26S	6-11	ND	MW-81	5-20	257
OU2MW-28S	5-15	ND	MW-82	5-20	6,151
OU2MW-30S	5-15	3	MW-83	5-20	ND
OU2MW-32S	5-15	ND	MW-BS-02S	5-15	98
OU2MW-33S	5-15	ND	PDMW-01	5-20	ND
OU2MW-34S	5-15	ND	PDMW-02	5-20	59,210
OU2MW-35S	5-15	9	PDMW-03	5-15	14,511
OU2MW-36S	5-15	ND	SV-02	2-12	26
OU2MW-37S	5-15	ND	SV-03	2-12	29
OU2MW-38S	5-15	23	**OU-4**		
OU2MW-39S	5-15	ND	WCMW-01S	2-12	3
OU2MW-40S	5-15	ND	WCMW-02S	3-13	ND
OU2MW-41S	5-15	8	WCMW-03S	4.93-9.83	33
OU2MW-45S	5-15	60	WCMW-04S	1.6-11.6	21
OU2MW-46S	5-15	422	WCMW-05S	1.4-11.4	ND
OU2MW-47S	5-15	146	WCMW-06S	2-12	ND
OZMW-16S	5-15	ND	WCMW-09S	5-15	ND
OZMW-17S	5-15	141	WCMW-12S	3-13	ND
OZMW-18S	5-15	244	WCMW-13S	3-13	ND
OZMW-22S	5-15	11,947	WCMW-14S	2-12	ND
			WCMW-16S	2-12	ND

Q1 2021

Q1 2021 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	1799.3
BBMW-23S	5-15	1704.9
BBMW-34S	5-15	41.48
BBMW-37S	5-10	3.01
BBMW-38S	5-15	20.7
BBMW-39S	5-15	ND
BBMW-40S	5-15	ND
BBMW-41S	6-16	2765.1
BBMW-42S	5-10	4
MW-05S	4-14	615.9
OU1PZ-101	4-14	760
OU1PZ-102	4-14	1.64
OU1PZ-103	4-14	492.1
OU1PZ-105	4-14	21.3
OU2MW-12S	3-7	ND
OU2MW-30S	5-15	ND
OU2MW-39S	5-15	ND
OU2MW-47S	5-15	ND
OU2MW-50S	5-15	ND
OU2MW-57S	5-15	ND
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	242.43
OZMW-21S	5-15	3123
OZMW-23S	5-15	ND
OZMW-24S	5-15	0.42
OZMW-25S	5-15	459.9
OU-3		
MW-83	5-20	7.7
OU3MW-07S	3-13	ND
OU3MW-08S	2-12	2530
OU3MW-16S	2-12	26.81
OU3MW-19S	2-12	1.5
OU3MW-20S	2-12	ND
OU-4		
WCMW-14S	2-12	ND





LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- µg/L — MICROGRAMS PER LITER
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- BTEX ≧5,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE

NOTE:
WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).

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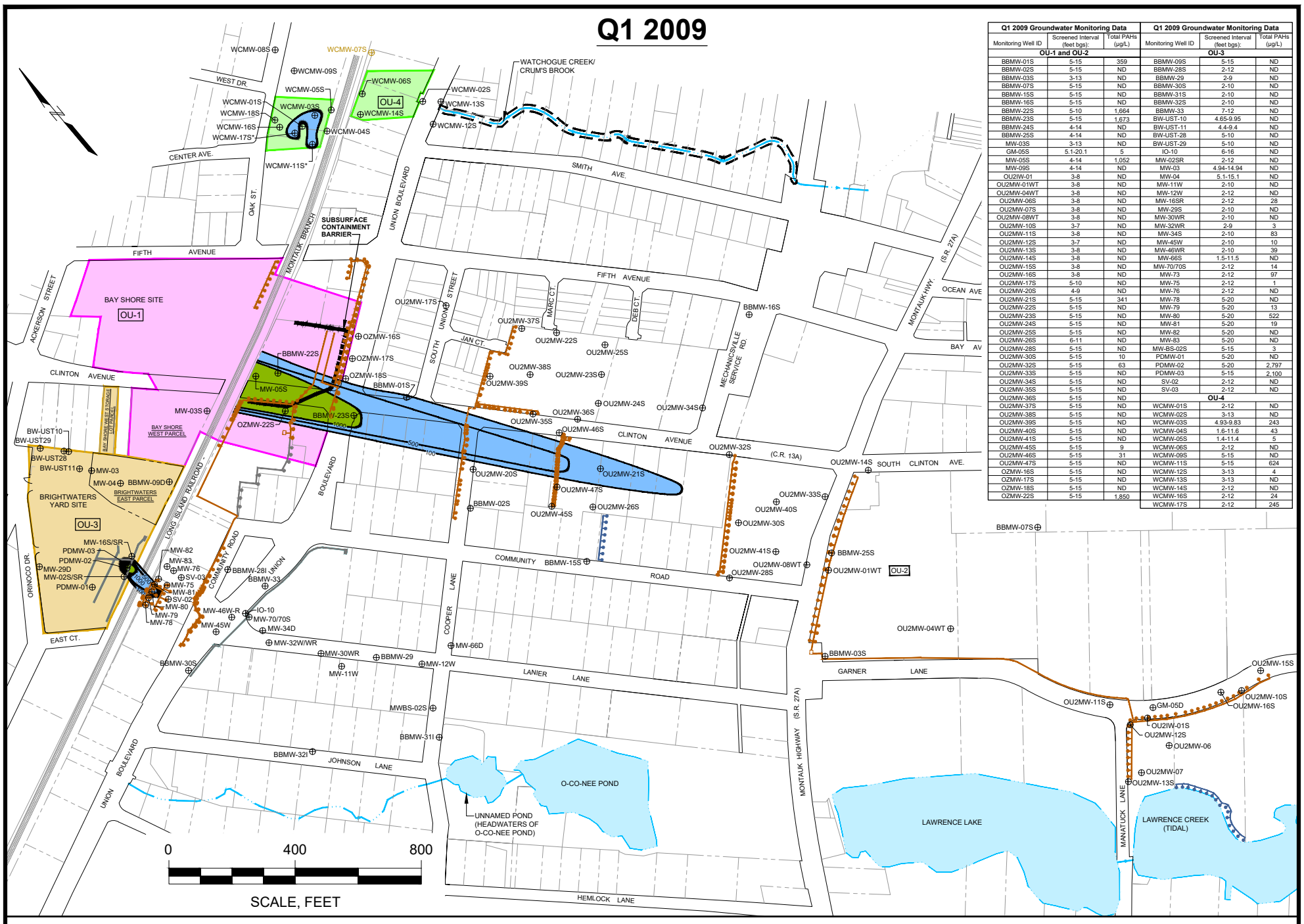
WATER TABLE GROUNDWATER
TOTAL BTEX
ISO-CONCENTRATION MAPS
(0-10 FEET BGS)

August 2021 — Fig. 3

\\GTB-pzcc-1\ \\GTB-pzcc-1\GTB\CAD\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2021\Figures\Q1_2021\1905774_OMMQ121_ISOC.dwg - 8/30/2021

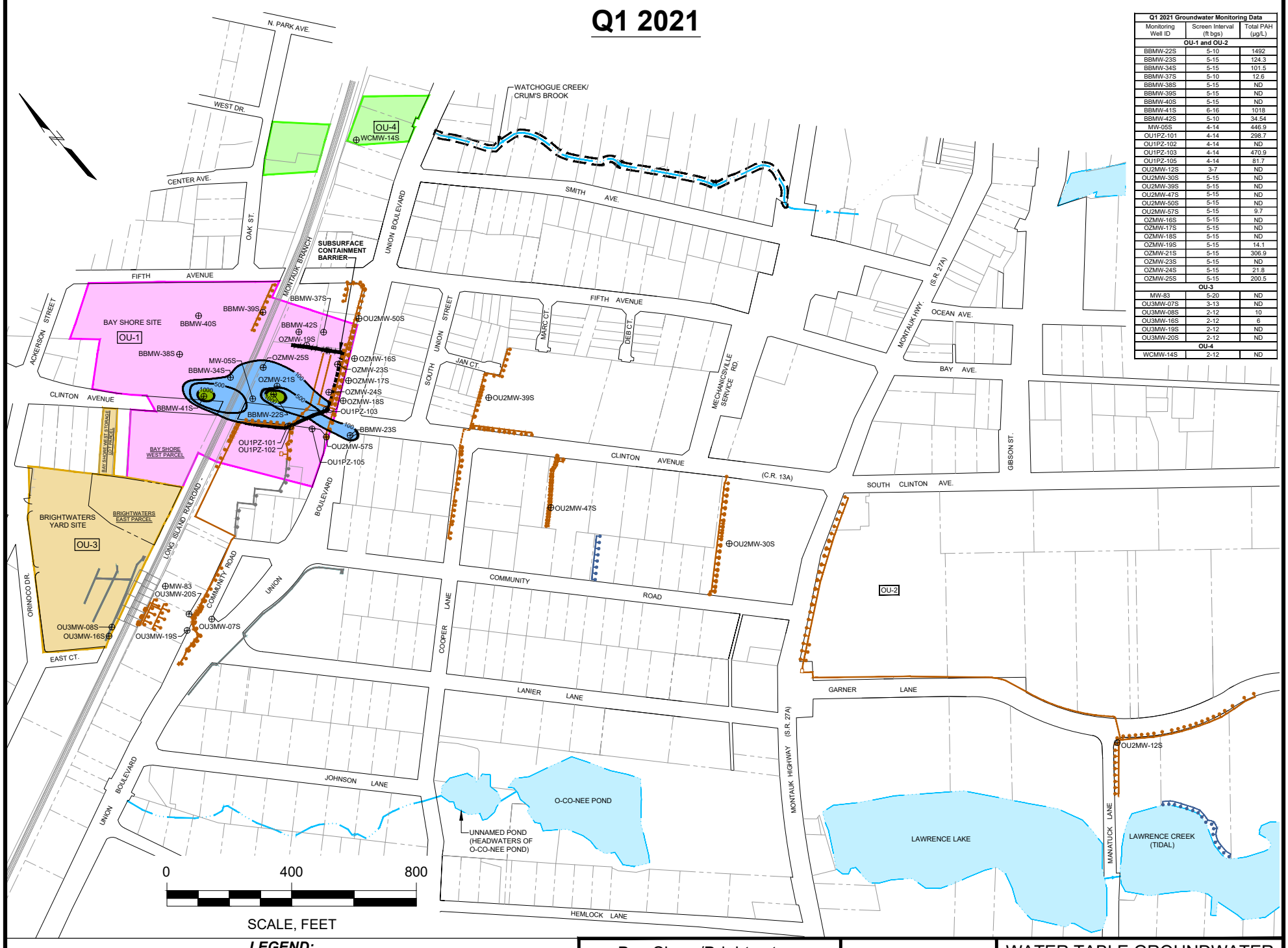
Q1 2009

Q1 2009 Groundwater Monitoring Data			Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)	Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2			**OU-3**		
BBMW-01S	5-15	359	BBMW-09S	5-15	ND
BBMW-02S	5-15	ND	BBMW-28S	2-12	ND
BBMW-03S	3-13	ND	BBMW-29	2-9	ND
BBMW-07S	5-15	ND	BBMW-30S	2-10	ND
BBMW-15S	5-15	ND	BBMW-31S	2-10	ND
BBMW-16S	5-15	ND	BBMW-32S	2-10	ND
BBMW-22S	5-10	1,664	BBMW-33	7-12	ND
BBMW-23S	5-15	1,673	BW-UST-10	4.65-9.95	ND
BBMW-24S	4-14	ND	BW-UST-11	4.4-9.4	ND
BBMW-25S	4-14	ND	BW-UST-28	5-10	ND
MW-03S	3-13	ND	BW-UST-29	5-10	ND
GM-05S	5.1-20.1	5	IO-10	6-16	ND
MW-05S	4-14	1,052	MW-02SR	2-12	ND
MW-09S	4-14	ND	MW-03	4.94-14.94	ND
OU2IW-01	3-8	ND	MW-04	5.1-15.1	ND
OU2MW-01WT	3-8	ND	MW-11W	2-10	ND
OU2MW-04WT	3-8	ND	MW-12W	2-12	ND
OU2MW-06S	3-8	ND	MW-16SR	2-12	28
OU2MW-07S	3-8	ND	MW-29S	2-10	ND
OU2MW-08WT	3-8	ND	MW-30WR	2-10	ND
OU2MW-10S	3-7	ND	MW-32WR	2-9	3
OU2MW-11S	3-8	ND	MW-34S	2-10	83
OU2MW-12S	3-7	ND	MW-45W	2-10	10
OU2MW-13S	3-8	ND	MW-46WR	2-10	39
OU2MW-14S	3-8	ND	MW-66S	1.5-11.5	ND
OU2MW-15S	3-8	ND	MW-70/70S	2-12	14
OU2MW-16S	3-8	ND	MW-73	2-12	97
OU2MW-17S	5-10	ND	MW-75	2-12	1
OU2MW-20S	4-9	ND	MW-76	2-12	ND
OU2MW-21S	5-15	341	MW-78	5-20	ND
OU2MW-22S	5-15	ND	MW-79	5-20	13
OU2MW-23S	5-15	ND	MW-80	5-20	522
OU2MW-24S	5-15	ND	MW-81	5-20	19
OU2MW-25S	5-15	ND	MW-82	5-20	ND
OU2MW-26S	6-11	ND	MW-83	5-20	ND
OU2MW-28S	5-15	ND	MW-BS-02S	5-15	3
OU2MW-30S	5-15	10	PDMW-01	5-20	ND
OU2MW-32S	5-15	63	PDMW-02	5-20	2,797
OU2MW-33S	5-15	ND	PDMW-03	5-15	2,100
OU2MW-34S	5-15	ND	SV-02	2-12	ND
OU2MW-35S	5-15	ND	SV-03	2-12	ND
OU2MW-36S	5-15	ND	**OU-4**		
OU2MW-37S	5-15	ND	WCMW-01S	2-12	ND
OU2MW-38S	5-15	ND	WCMW-02S	3-13	ND
OU2MW-39S	5-15	ND	WCMW-03S	4.93-9.83	243
OU2MW-40S	5-15	ND	WCMW-04S	1.6-11.6	43
OU2MW-41S	5-15	ND	WCMW-05S	1.4-11.4	5
OU2MW-45S	5-15	9	WCMW-06S	2-12	ND
OU2MW-46S	5-15	31	WCMW-09S	5-15	ND
OU2MW-47S	5-15	ND	WCMW-11S	5-15	624
OZMW-16S	5-15	ND	WCMW-12S	3-13	4
OZMW-17S	5-15	ND	WCMW-13S	3-13	ND
OZMW-18S	5-15	ND	WCMW-14S	2-12	ND
OZMW-22S	5-15	1,850	WCMW-16S	2-12	24
			WCMW-17S	2-12	245



Q1 2021

Q1 2021 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAH (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	1492
BBMW-23S	5-15	124.3
BBMW-34S	5-15	101.5
BBMW-37S	5-10	12.6
BBMW-38S	5-15	ND
BBMW-39S	5-15	ND
BBMW-40S	5-15	ND
BBMW-41S	6-16	1018
BBMW-42S	5-10	34.54
MW-05S	4-14	446.9
OU1PZ-101	4-14	298.7
OU1PZ-102	4-14	ND
OU1PZ-103	4-14	470.9
OU1PZ-105	4-14	81.7
OU2MW-12S	3-7	ND
OU2MW-30S	5-15	ND
OU2MW-39S	5-15	ND
OU2MW-47S	5-15	ND
OU2MW-50S	5-15	ND
OU2MW-57S	5-15	9.7
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	14.1
OZMW-21S	5-15	306.9
OZMW-23S	5-15	ND
OZMW-24S	5-15	21.8
OZMW-25S	5-15	200.5
OU-3		
MW-83	5-20	ND
OU3MW-07S	3-13	ND
OU3MW-08S	2-12	10
OU3MW-16S	2-12	6
OU3MW-19S	2-12	ND
OU3MW-20S	2-12	ND
OU-4		
WCMW-14S	2-12	ND



LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- µg/L — MICROGRAMS PER LITER
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- TOTAL PAH ≧1,000 µg/L
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NOTE:
WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).

Bay Shore/Brightwaters
Former MGP Site
Bay Shore, New York

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WATER TABLE GROUNDWATER
TOTAL PAH
ISO-CONCENTRATION MAPS
(0-10 FEET BGS)

August 2021 Fig. 4

\\GTB-pzcc-1\ \\GTB-pzcc-1\GTB\CAD\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2021\Figures\Q1_2021\1905774_OMMQ121_ISOC.dwg - 8/30/2021

Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-01I	32-42	47
BBMW-02I	30-40	ND
BBMW-03I	30-40	ND
BBMW-07I	30-40	ND
BBMW-15I	23-28	146
BBMW-15I2	35-45	ND
BBMW-16I	35-45	ND
BBMW-20I	35-45	8
BBMW-22I	30-40	43
BBMW-23I	33-43	ND
BBMW-24I	32-42	10
BBMW-25I	25-35	469
GM-05I	35.05-48.05	ND
GMP-01	25-30	762
GMP-02	28-23	ND
GMP-04	15.5-20.5	ND
MW-03D	35-45	ND
MW-05D	35.5-45.5	26
MW-09I	30-40	ND
OU2MW-01I	35-40	2
OU2MW-01S	20-25	69
OU2MW-02I	35-40	370
OU2MW-02S	20-25	5
OU2MW-03I	35-40	366
OU2MW-03S	20-25	30
OU2MW-04I	35-40	97
OU2MW-04S	20-25	841
OU2MW-05	25-35	466
OU2MW-06	15-25	ND
OU2MW-07	15-25	ND
OU2MW-08I	35-40	46
OU2MW-08S	20-25	1,078
OU2MW-09	20-30	ND
OU2MW-10D	35-40	78
OU2MW-10I	20-25	76
OU2MW-11D	40-45	8
OU2MW-11I	20-25	170
OU2MW-11I2	30-35	98

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)
OU-1 and OU-2		
OU2MW-12D	40-45	ND
OU2MW-12I	20-25	107
OU2MW-12I2	30-35	53
OU2MW-13D	35-40	34
OU2MW-13I	20-25	13
OU2MW-14I	20-25	ND
OU2MW-14I2	45-50	ND
OU2MW-15D	40-45	ND
OU2MW-15I	20-25	ND
OU2MW-15I2	30-35	ND
OU2MW-16D	35-40	ND
OU2MW-16I	15-20	ND
OU2MW-16I2	25-30	ND
OU2MW-17I	13-23	80
OU2MW-17I2	35-40	ND
OU2MW-18I	13-23	28,040
OU2MW-18I2	35-45	ND
OU2MW-19I	13-23	82
OU2MW-19I2	35-45	103
OU2MW-20I	13-23	819
OU2MW-20I2	35-45	ND
OU2MW-21I	13-23	4,930
OU2MW-21I2	35-45	479
OU2MW-22I	25-30	125
OU2MW-22I2	46-51	ND
OU2MW-23I	25-30	157
OU2MW-23I2	45-50	ND
OU2MW-24I	25-30	2,153
OU2MW-24I2	45-50	ND
OU2MW-25I	25-30	276
OU2MW-25I2	45-50	ND
OU2MW-26I	13-23	287
OU2MW-26I2	35-45	1,559
OU2MW-28I	28-33	93
OU2MW-28I2	40-45	1
OU2MW-29D	45-50	359
OU2MW-29I	18-23	1,122
OU2MW-29I2	30-35	87
OU2MW-29D	45-50	359
OU2MW-30I	25-30	208
OU2MW-30I2	30-35	43
OU2MW-30I3	45-50	254
OU2MW-31I	18-23	779
OU2MW-31I2	30-35	1
OU2MW-32D	40-45	25
OU2MW-32I	20-25	3,698
OU2MW-32I2	30-35	71
OU2MW-33I	20-25	3,159
OU2MW-33I2	30-35	77
OU2MW-34I	25-30	2,348
OU2MW-34I2	45-50	ND
OU2MW-35I	25-30	9
OU2MW-35I2	45-50	ND
OU2MW-36I	25-30	55
OU2MW-36I2	45-50	ND
OU2MW-37I	25-30	373
OU2MW-37I2	45-50	ND
OU2MW-38I	25-30	122

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)
OU-1 and OU-2		
OU2MW-38I2	46-51	ND
OU2MW-39I	25-30	ND
OU2MW-39I2	45-50	ND
OU2MW-40I	18-23	270
OU2MW-41I	18-23	1,433
OU2MW-45I	20-25	10
OU2MW-45I2	40-45	ND
OU2MW-46I	20-25	1,991
OU2MW-46I2	40-45	375
OU2MW-47I	20-25	2,714
OU2MW-47I2	40-45	159
OZMW-16I	20-30	441
OZMW-16I2	35-40	12
OZMW-17I	20-30	74
OZMW-17I2	35-45	ND
OZMW-18I	20-30	178
OZMW-18I2	35-45	129
OZMW-22I	20-30	607
OZMW-22I2	35-45	2
OU-3		
BBMW-09I	20-30	ND
BBMW-28I	10-20	ND
BBMW-30D	30-35	ND
BBMW-30I	14-19	ND
BBMW-31D	30-35	3
BBMW-31I	14-19	3
BBMW-32D	30-35	ND
BBMW-32I	14-19	ND
MW-02IR	22.5-23.5	ND
MW-16I	14-19	ND
MW-26D	14-19	ND
MW-29D	14-19	ND
MW-34D	27.5-28.5	ND
MW-64	19-24	ND
MW-65	11-16	ND
MW-66D	24-29	ND
MW-BS-02D	24.5-25.5	ND
MW-BS-02I	14.5-15.5	ND
OU-4		
WCMW-01I	35-45	ND
WCMW-02I	34.5 - 44.5	ND
WCMW-03I	19.4 - 24.4	ND
WCMW-03I2	28.55 - 33.55	ND
WCMW-04I	19.4-24.4	ND
WCMW-04I2	29.85 - 34.85	ND
WCMW-05I	19.61 - 24.61	ND
WCMW-05I2	29.46 - 34.46	ND
WCMW-06I	19.55 - 24.55	ND
WCMW-06I2	29.83 - 34.83	ND
WCMW-10S	15-20	ND
WCMW-10D	40-50	ND
WCMW-12I	25-30	ND
WCMW-13I	25-30	ND
WCMW-14I	20-25	ND
WCMW-14I2	30-35	ND
WCMW-16I	20-25	ND
WCMW-16I2	30-35	ND

Q1 2021

Q1 2021 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-20I	35-45	ND
BBMW-22I	30-40	334.4
BBMW-34I	25-30	514.9
BBMW-34I2	40-45	34
BBMW-38I	25-30	4
BBMW-38I2	35-45	3
MW-05D	35.5-45.5	36
OU2MW-02S	20-25	ND
OU2MW-02I	35-40	ND
OU2MW-12I	20-25	ND
OU2MW-12I2	30-35	ND
OU2MW-12D	40-45	ND
OU2MW-19I	13-23	ND
OU2MW-19I2	35-45	ND
OU2MW-30I	25-30	ND
OU2MW-30I2	30-35	ND
OU2MW-30I3	45-50	ND
OU2MW-39I	25-30	ND
OU2MW-39I2	45-50	ND
OU2MW-47I	20-25	ND
OU2MW-47I2	40-45	ND
OU2MW-50I	25-30	ND
OU2MW-50I2	45-50	ND
OU2MW-57I	20-30	ND
OU2MW-57I2	35-45	ND
OZMW-16I	20-30	ND
OZMW-16I2	35-45	ND
OZMW-17I	20-30	ND
OZMW-17I2	35-45	ND
OZMW-18I	20-30	ND
OZMW-18I2	35-45	4

Q1 2021 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
OU-1 and OU-2		
OZMW-19I	20-30	122.81
OZMW-19I2	35-45	247.08
OZMW-21I	20-30	350
OZMW-21I2	35-45	107.49
OZMW-23I	20-30	ND
OZMW-23I2	35-45	ND
OZMW-24I	20-30	ND
OZMW-24I2	35-45	145.52
OZMW-25I	20-30	376.1
OZMW-25I2	35-45	0.87
OZMW-26I	20-30	ND
OU-3		
IP-16A	14-15	ND
IP-20A	14-15	ND
IP-20B	24-25	36.68
MW-64	19-24	4
MW-65	11-16	ND
OU3MW-07I	15-20	ND
OU3MW-07I2	20-25	ND
OU3MW-07I3	25-30	4.78
OU3MW-07I4	35-40	14.7
OU3MW-09I	25-30	94.1
OU3MW-10I	25-30	154
OU3MW-19I	20-25	ND
OU3MW-19I2	30-35	ND
OU3MW-20I	20-25	ND
OU3MW-20I2	30-35	ND
OU3MW-24I2/IP-19B	25-30	ND
OU-4		
WCMW-05I	19.61-24.61	ND
WCMW-05I2	29.46-34.46	ND
WCMW-30I	20-25	0.32

NOTE:
* INDICATES WELL NOT SAMPLED IN Q1 2021 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.

0 400 800

SCALE, FEET

LEGEND:

- ⊕BBMW-33 EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-38I WELL NOT SAMPLED IN Q1 2019 DUE TO MEASURABLE LEVELS OF DNAPL
- µg/L MICROGRAMS PER LITER
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- BTEX ≧5,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)
- BTEX BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE

NOTE:
WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).

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INTERMEDIATE GROUNDWATER
TOTAL BTEX
ISO-CONCENTRATION MAPS
(10-50 FEET BGS)

August 2021 Fig. 5

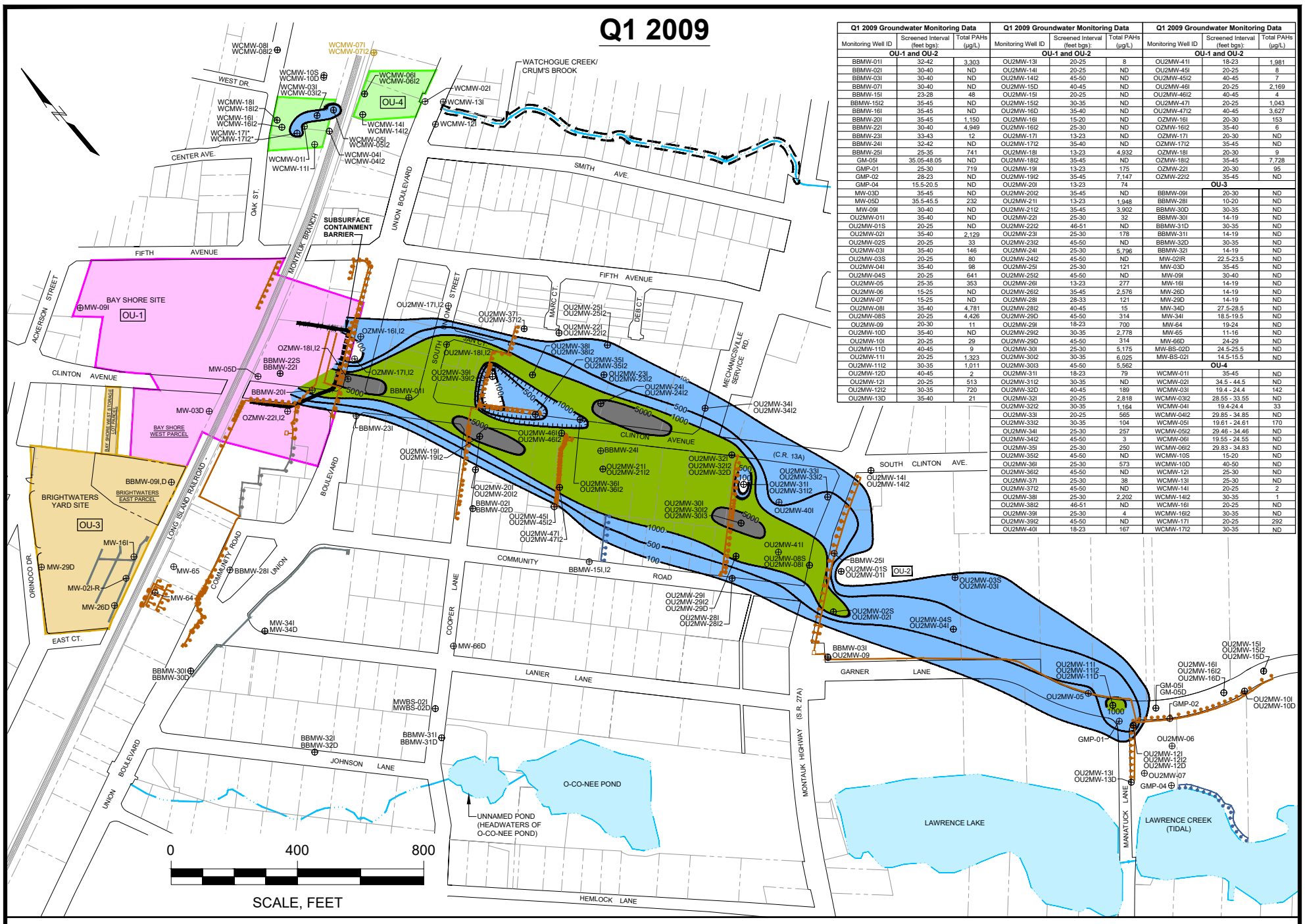
\\GTB-pzcc-1\ \\GTB-pzcc-1\GTB\CAD\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2021\Figures\Q1_2021\1905774_OMMQ121_ISOC.dwg - 8/30/2021

Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01I	32-42	3,303
BBMW-02I	30-40	ND
BBMW-03I	30-40	ND
BBMW-07I	30-40	ND
BBMW-15I	23-28	48
BBMW-15I2	35-45	ND
BBMW-16I	35-45	ND
BBMW-20I	35-45	1,150
BBMW-22I	30-40	4,949
BBMW-23I	33-43	12
BBMW-24I	32-42	ND
BBMW-25I	25-35	741
GM-05I	35.05-48.05	ND
GMP-01	25-30	719
GMP-02	28-23	ND
GMP-04	15.5-20.5	ND
MW-03D	35-45	ND
MW-05D	35.5-45.5	232
MW-09I	30-40	ND
OU2MW-01I	35-40	ND
OU2MW-01S	20-25	ND
OU2MW-02I	35-40	2,129
OU2MW-02S	20-25	33
OU2MW-03I	35-40	146
OU2MW-03S	20-25	80
OU2MW-04I	35-40	98
OU2MW-04S	20-25	641
OU2MW-05	25-35	353
OU2MW-06	15-25	ND
OU2MW-07	15-25	ND
OU2MW-08I	35-40	4,781
OU2MW-08S	20-25	4,426
OU2MW-09	20-30	11
OU2MW-10D	35-40	ND
OU2MW-10I	20-25	29
OU2MW-11D	40-45	9
OU2MW-11I	20-25	1,323
OU2MW-11I2	30-35	1,011
OU2MW-12D	40-45	2
OU2MW-12I	20-25	513
OU2MW-12I2	30-35	720
OU2MW-13D	35-40	21

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-13I	20-25	8
OU2MW-14I	20-25	ND
OU2MW-14I2	45-50	ND
OU2MW-15D	40-45	ND
OU2MW-15I	20-25	ND
OU2MW-15I2	30-35	ND
OU2MW-16D	35-40	ND
OU2MW-16I	15-20	ND
OU2MW-16I2	25-30	ND
OU2MW-17I	13-23	ND
OU2MW-17I2	35-40	ND
OU2MW-18I	13-23	4,932
OU2MW-18I2	35-45	ND
OU2MW-19I	13-23	175
OU2MW-19I2	35-45	7,147
OU2MW-20I	13-23	74
OU2MW-20I2	35-45	ND
OU2MW-21I	13-23	1,948
OU2MW-21I2	35-45	3,902
OU2MW-22I	25-30	32
OU2MW-22I2	46-51	ND
OU2MW-23I	25-30	178
OU2MW-23I2	45-50	ND
OU2MW-24I	25-30	5,796
OU2MW-24I2	45-50	ND
OU2MW-25I	25-30	121
OU2MW-25I2	45-50	ND
OU2MW-26I	13-23	277
OU2MW-26I2	35-45	2,576
OU2MW-28I	28-33	121
OU2MW-28I2	40-45	15
OU2MW-29D	45-50	314
OU2MW-29I	18-23	700
OU2MW-29I2	30-35	2,778
OU2MW-29D	45-50	314
OU2MW-30I	25-30	5,175
OU2MW-30I2	30-35	6,025
OU2MW-30I3	45-50	5,562
OU2MW-31I	18-23	79
OU2MW-31I2	30-35	ND
OU2MW-32D	40-45	189
OU2MW-32I	20-25	2,818
OU2MW-32I2	30-35	1,164
OU2MW-33I	20-25	565
OU2MW-33I2	30-35	104
OU2MW-34I	25-30	257
OU2MW-34I2	45-50	3
OU2MW-35I	25-30	250
OU2MW-35I2	45-50	ND
OU2MW-36I	25-30	573
OU2MW-36I2	45-50	ND
OU2MW-37I	25-30	38
OU2MW-37I2	45-50	ND
OU2MW-38I	25-30	2,202
OU2MW-38I2	46-51	ND
OU2MW-39I	25-30	4
OU2MW-39I2	45-50	ND
OU2MW-40I	18-23	167

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-41I	18-23	1,981
OU2MW-45I	20-25	8
OU2MW-45I2	40-45	7
OU2MW-46I	20-25	2,169
OU2MW-46I2	40-45	4
OU2MW-47I	20-25	1,043
OU2MW-47I2	40-45	3,627
OZMW-16I	20-30	153
OZMW-16I2	35-40	6
OZMW-17I	20-30	ND
OZMW-17I2	35-45	ND
OZMW-18I	20-30	9
OZMW-18I2	35-45	7,728
OZMW-22I	20-30	95
OZMW-22I2	35-45	ND
OU-3		
BBMW-09I	20-30	ND
BBMW-28I	10-20	ND
BBMW-30D	30-35	ND
BBMW-30I	14-19	ND
BBMW-31D	30-35	ND
BBMW-31I	14-19	ND
BBMW-32D	30-35	ND
BBMW-32I	14-19	ND
MW-02IR	22.5-23.5	ND
MW-03D	35-45	ND
MW-09I	30-40	ND
MW-16I	14-19	ND
MW-26D	14-19	ND
MW-29D	14-19	ND
MW-34D	27.5-28.5	ND
MW-34I	18.5-19.5	ND
MW-64	19-24	ND
MW-65	11-16	ND
MW-66D	24-29	ND
MW-BS-02D	24.5-25.5	ND
MW-BS-02I	14.5-15.5	ND
OU-4		
WCMW-01I	35-45	ND
WCMW-02I	34.5 - 44.5	ND
WCMW-03I	19.4 - 24.4	142
WCMW-03I2	28.55 - 33.55	ND
WCMW-04I	19.4-24.4	33
WCMW-04I2	29.85 - 34.85	ND
WCMW-05I	19.61 - 24.61	170
WCMW-05I2	29.46 - 34.46	ND
WCMW-06I	19.55 - 24.55	ND
WCMW-06I2	29.83 - 34.83	ND
WCMW-10S	15-20	ND
WCMW-10D	40-50	ND
WCMW-12I	25-30	ND
WCMW-13I	25-30	ND
WCMW-14I	20-25	2
WCMW-14I2	30-35	1
WCMW-16I	20-25	ND
WCMW-16I2	30-35	ND
WCMW-17I	20-25	292
WCMW-17I2	30-35	ND



Q1 2021

Q1 2021 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAH (µg/L)
OU-1 and OU-2		
BBMW-20I	35-45	218
BBMW-22I	30-40	1436
BBMW-34I	25-30	1499.7
BBMW-34I2	40-45	1637
BBMW-38I	25-30	551
BBMW-38I2	35-45	736
MW-05D	35.5-45.5	1127
OU2MW-02S	20-25	ND
OU2MW-02I	35-40	ND
OU2MW-12I	20-25	ND
OU2MW-12I2	30-35	ND
OU2MW-12D	40-45	ND
OU2MW-19I	13-23	ND
OU2MW-19I2	35-45	ND
OU2MW-30I	25-30	ND
OU2MW-30I2	30-35	ND
OU2MW-30I3	45-50	ND
OU2MW-39I	25-30	ND
OU2MW-39I2	45-50	ND
OU2MW-47I	20-25	ND
OU2MW-47I2	40-45	ND
OU2MW-50I	25-30	ND
OU2MW-50I2	45-50	ND
OU2MW-57I	20-30	ND
OU2MW-57I2	35-45	ND
OZMW-16I	20-30	ND
OZMW-16I2	35-45	ND
OZMW-17I	20-30	ND
OZMW-17I2	35-45	ND
OZMW-18I	20-30	ND
OZMW-18I2	35-45	23.2

Q1 2021 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAH (µg/L)
OU-1 and OU-2		
OZMW-19I	20-30	168.9
OZMW-19I2	35-45	673
OZMW-21I	20-30	3522
OZMW-21I2	35-45	5582
OZMW-23I	20-30	ND
OZMW-23I2	35-45	ND
OZMW-24I	20-30	ND
OZMW-24I2	35-45	4364
OZMW-25I	20-30	2686
OZMW-25I2	35-45	172.5
OZMW-26I	20-30	ND
OU-3		
IP-16A	14-15	ND
IP-20A	14-15	ND
IP-20B	24-25	1.3
MW-64	19-24	ND
MW-65	11-16	ND
OU3MW-07I	15-20	ND
OU3MW-07I2	20-25	ND
OU3MW-07I3	25-30	1.5
OU3MW-07I4	35-40	9.8
OU3MW-09I	25-30	ND
OU3MW-10I	25-30	17
OU3MW-19I	20-25	ND
OU3MW-19I2	30-35	ND
OU3MW-20I	20-25	ND
OU3MW-20I2	30-35	ND
OU3MW-24I2/IP-19B	25-30	ND
OU-4		
WCMW-05I	19.61-24.61	153.1
WCMW-05I2	29.46-34.46	ND
WCMW-30I	20-25	119.21

NOTE:
* INDICATES WELL NOT SAMPLED IN Q1 2021 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-38I — WELL NOT SAMPLED IN Q1 2019 DUE TO MEASURABLE LEVELS OF DNAPL
- µg/L — MICROGRAMS PER LITER
- TOTAL PAH ≧100 µg/L
- TOTAL PAH ≧1,000 µg/L
- TOTAL PAH ≧5,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS

NOTE:
WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).

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INTERMEDIATE GROUNDWATER
TOTAL PAH
ISO-CONCENTRATION MAPS
(10-50 FEET BGS)

August 2021 — Fig. 6

\\GTB-pzcc-1\ \\GTB-pzcc-1\GTB\CAD\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2021\Figures\Q1_2021\1905774_OMMQ121_ISOC.dwg - 8/30/2021

Q1 2009

Q1 2009 Groundwater Monitoring Data

Monitoring Well ID	Screened Interval (feet bgs):	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	33
BBMW-02D	73-83	ND
BBMW-03D	52-62	ND
BBMW-05D	64-74	482
BBMW-05D2	126.5-136.5	7
BBMW-07D	55-65	ND
BBMW-15D	70-80	ND
BBMW-16D	68-78	ND
BBMW-22D	64-74	2,314
BBMW-23D	49.5-59.5	7
BBMW-23D2	63-73	ND
BBMW-24D	59.5-69.5	22
BBMW-25D	62-72	35
GM-05D	60.95-75.95	2
OU2MW-01D	65-70	ND
OU2MW-01I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-02I2	50-55	3
OU2MW-03D	65-70	ND
OU2MW-03I2	50-55	5
OU2MW-04D	65-70	2
OU2MW-04I2	50-55	ND
OU2MW-08D	65-70	ND
OU2MW-08I2	50-55	152
OU2MW-17D	60-70	ND
OU2MW-18D	60-70	ND
OU2MW-19D	65-70	542
OU2MW-20D	65-70	ND
OU2MW-22D	67-72	ND
OU2MW-23D	65-70	ND
OU2MW-24D	62-67	ND
OU2MW-25D	70-75	ND
OU2MW-26D	60-70	474
OU2MW-30D	50-55	134
OU2MW-30D2	60-65	375
OU2MW-33D	50-55	2
OU2MW-35D	57-62	ND
OU2MW-36D	61-66	ND
OU2MW-37D	67-72	ND
OU2MW-38D	56-61	ND
OU2MW-39D	70-75	ND
OU2MW-45D	55-60	ND
OU2MW-47D	60-65	569
OZMW-16D	55-65	ND
OZMW-17D	53-63	ND
OZMW-18D	55-65	216
OZMW-22D	55-65	ND
OU-3		
BBMW-09D	62-72	ND
BBMW-13D	62-72	ND
OU-4		
WCMW-01D	64-74	ND
WCMW-02D	62-72	ND
WCMW-12D	67-72	ND
WCMW-13D	65-70	ND
WCMW-14D	67-72	ND

Q1 2021

Q1 2021 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-05D	64-74	1075
BBMW-01D	68.5-78.5	3.47
BBMW-22D	64-74	2112.7
OU2MW-02D	65-70	ND
OU2MW-02I2	50-55	ND
OU2MW-19D	65-70	3.3
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-39D	70-75	ND
OU2MW-42D	60-65	153.2
OU2MW-43D	65-70	27.09
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OZMW-16D	55-65	ND
OZMW-17D	53-63	900
OZMW-18D	55-65	63.25
OZMW-23D	55-65	ND
OZMW-24D	55-65	640.99

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- µg/L — MICROGRAMS PER LITER
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)

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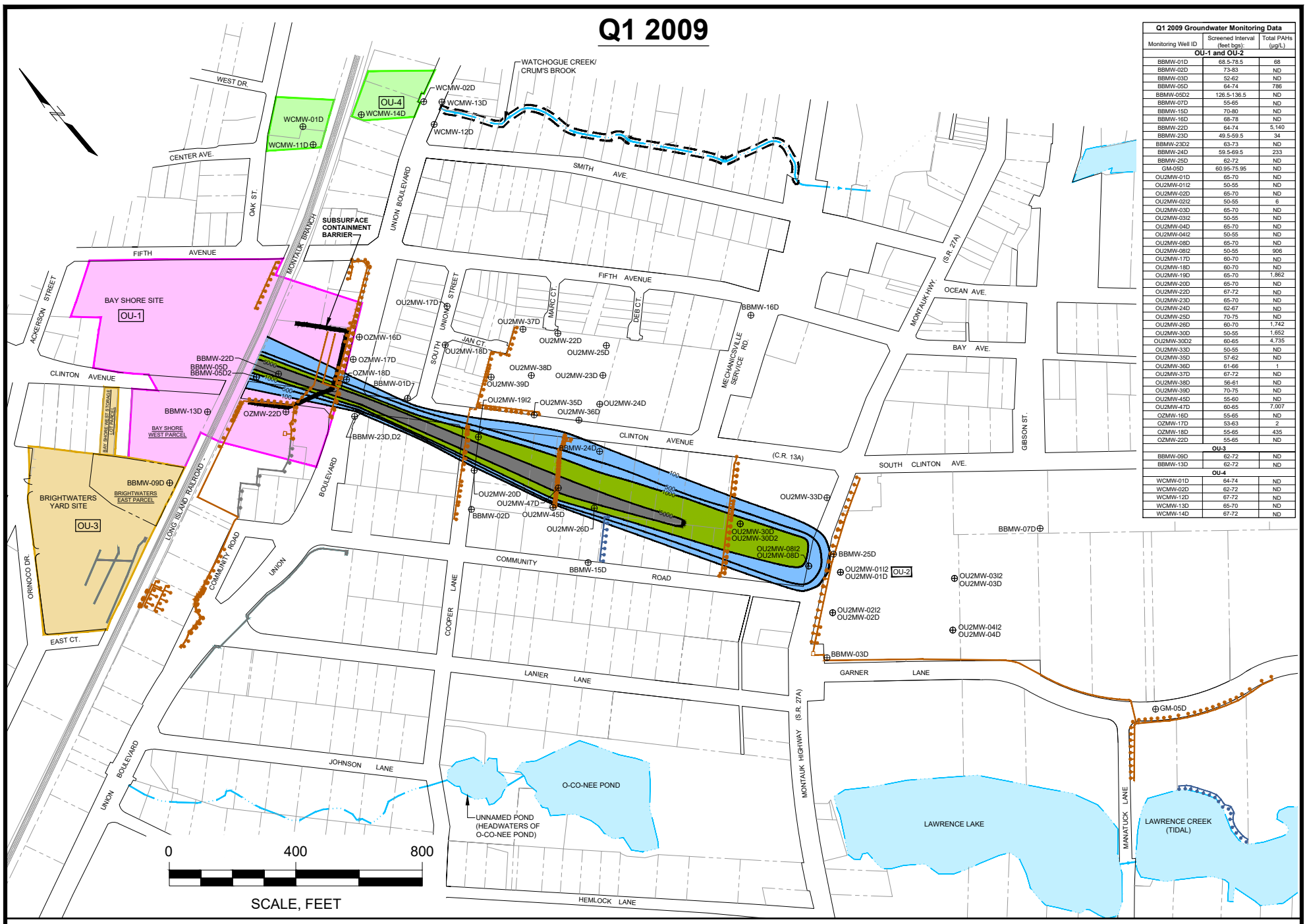
DEEP GROUNDWATER
TOTAL BTEX
ISO-CONCENTRATION MAPS
(BELOW 50 FEET BGS)

Project 1905774 | August 2021 | Fig. 7

\\GTB-pzcc-1\ \\GTB-pzcc-1\GTB\CAD\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2021\Figures\Q1_2021\1905774_OMMQ121_ISOC.dwg - 8/30/2021

Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	68
BBMW-02D	73-83	ND
BBMW-03D	52-62	ND
BBMW-05D	64-74	786
BBMW-05D2	126.5-136.5	ND
BBMW-07D	55-65	ND
BBMW-15D	70-80	ND
BBMW-16D	68-78	ND
BBMW-22D	64-74	5,140
BBMW-23D	49.5-59.5	34
BBMW-23D2	63-73	ND
BBMW-24D	59.5-69.5	233
BBMW-25D	62-72	ND
GM-05D	60.95-75.95	ND
OU2MW-01D	65-70	ND
OU2MW-01I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-02I2	50-55	6
OU2MW-03D	65-70	ND
OU2MW-03I2	50-55	ND
OU2MW-04D	65-70	ND
OU2MW-04I2	50-55	ND
OU2MW-08D	65-70	ND
OU2MW-08I2	50-55	906
OU2MW-17D	60-70	ND
OU2MW-18D	60-70	ND
OU2MW-19D	65-70	1,862
OU2MW-20D	65-70	ND
OU2MW-22D	67-72	ND
OU2MW-23D	65-70	ND
OU2MW-24D	62-67	ND
OU2MW-25D	70-75	ND
OU2MW-26D	60-70	1,742
OU2MW-30D	50-55	1,652
OU2MW-30D2	60-65	4,735
OU2MW-33D	50-55	ND
OU2MW-35D	57-62	ND
OU2MW-36D	61-66	1
OU2MW-37D	67-72	ND
OU2MW-38D	56-61	ND
OU2MW-39D	70-75	ND
OU2MW-45D	55-60	ND
OU2MW-47D	60-65	7,007
OZMW-16D	55-65	ND
OZMW-17D	53-63	2
OZMW-18D	55-65	435
OZMW-22D	55-65	ND
OU-3		
BBMW-09D	62-72	ND
BBMW-13D	62-72	ND
OU-4		
WCMW-01D	64-74	ND
WCMW-02D	62-72	ND
WCMW-12D	67-72	ND
WCMW-13D	65-70	ND
WCMW-14D	67-72	ND



Q1 2021

Q1 2021 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAH (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	1575
BBMW-05D	64-74	1353
BBMW-22D	64-74	5844
OU2MW-02I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-19D	65-70	31.4
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-39D	70-75	ND
OU2MW-42D	60-65	880
OU2MW-43D	65-70	340.4
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OZMW-16D	55-65	ND
OZMW-17D	53-63	3398.3
OZMW-18D	55-65	391.4
OZMW-23D	55-65	77.5
OZMW-24D	55-65	3014

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- µg/L — MICROGRAMS PER LITER
- TOTAL PAH ≧100 µg/L
- TOTAL PAH ≧1,000 µg/L
- TOTAL PAH ≧5,000 µg/L
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS

Bay Shore/Brightwaters
Former MGP Site
Bay Shore, New York

nationalgrid

GEI Consultants

DEEP GROUNDWATER
TOTAL PAH
ISO-CONCENTRATION MAPS
(BELOW 50 FEET BGS)

Project 1905774 | August 2021 | Fig. 8

\\GTB-pzcc-1\ \\GTB-pzcc-1\GTB\CAD\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2021\Figures\Q1_2021\1905774_OMMQ121_ISOC.dwg - 8/30/2021

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2007					2008			2009									2010								
		Mar-07	Jun-07	Jul-07	Nov-07	Dec-07	May-08	Sep-08	Dec-08	Jan-09	Mar-09	May-09	Jun-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10
Operable Unit No. 1 (OU-1)																											
BBMW-04D	63 - 73	9700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-05D	64 - 74	**284000**	--	--	--	--	--	--	--	--	--	--	**413000**	--	--	--	--	**486000**	--	--	--	--	--	--	--	--	--
BBMW-06S	5 - 15	36000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06I	30 - 40	37100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06D	66 - 76	**850000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-08D	65 - 75	154000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17S	5.5 - 15.5	26900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17I	30.5 - 40.5	15800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18S	6 - 16	29000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18I	30 - 40	17000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18D	60 - 70	**293000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19S	6 - 16	47200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19I	29.6 - 39.6	179000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19D	64.75 - 74.75	**535000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4 - 14	21700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35 - 45	159000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20D	62 - 72	128000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5 - 10	38100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22I	30 - 40	69800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22D	64 - 74	**580000**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11600	--	5000 U
BBMW-38I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	23800	--	21000
BBMW-38I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16700	--	20400
BBMW-38D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14500	--	15800
BBMW-39S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5000 U	--	--
BBMW-39I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19000	--	--
BBMW-39I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25000	--	--
BBMW-39D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	49800	--	--
BBMW-41S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05S	4 - 14	32700	--	--	--	--	--	--	--	--	--	--	9240	--	--	--	--	5000 U	--	--	--	--	--	--	--	--
MW-05D	35.5 - 45.5	18000	--	--	--	--	--	--	--	--	--	--	21700	--	--	--	--	16900	--	--	--	--	--	--	--	--
MW-08S	2 - 12	16600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08D	35 - 45	17400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	19000	--	--	--	--	16200	--	--	--	--	--	12000	--	--
MW-09I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19300	--	--
MW-09I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21000	--	--	--	--	--	23600	--	--
MW-09D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	40000	--	--	--	--	--	36400	--	--
OU2MW-48S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	8710	--	--	--	--	14800	16500	--	--	14100 J	--	22300	--	--
OU2MW-48I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	15900	--	--	--	--	18000	21300	--	--	23000 J	--	14300	--	--
OU2MW-48I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	15800	--	--	--	--	19700	17200	--	--	17700 J	--	--	14700	--
OU2MW-48D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	22800	--	--	--	--	33500	23100	--	--	10200 J	--	7850	--	--
OU2MW-49S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	22300	--	--	--	--	28900	17700	--	--	18400 J	--	30100	--	30800
OU2MW-49I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	17600	--	--	--	--	15600	22300	--	--	16200 j	--	20600	--	17200
OU2MW-49I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	16400	--	--	--	--	21700	22100	--	--	23600 J	--	23500	--	24200
OU2MW-49D	63 - 68	--	--	--	--	--	--	--	--	--	--	--	14200	--	--	--	--	6370	5830	--	--	13100 J	--	12800	--	10400
OZMW-16S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	68700	--	58300 D
OZMW-16I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12100	--	9300
OZMW-16I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	31600	--	20800
OZMW-16D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	46400	--	39300
OZMW-17S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	27400	--	53600 D
OZMW-17I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8810	--	7710
OZMW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17800	--	20100
OZMW-17D	53 - 63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**368000**	--	203000 D
OZMW-18S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	39000	--	29100
OZMW-18I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5000 U	--	5000 U
OZMW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5000 U	--	5000 U
OZMW-18D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**343000**	--	**290000 D**

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2007					2008			2009									2010								
		Mar-07	Jun-07	Jul-07	Nov-07	Dec-07	May-08	Sep-08	Dec-08	Jan-09	Mar-09	May-09	Jun-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10
OZMW-19S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19100	--	--
OZMW-19I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6480	--	--
OZMW-19I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10200	--	--
OZMW-19D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	26400	--	--
OZMW-21S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12800	--	--	--	--	--	--	--	--	5000 U	--	--
OZMW-21I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	5000 U	--	--
OZMW-21I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	5000 U	--	--
OZMW-21D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	34000	--	--	--	--	--	--	--	--	32100	--	--
OZMW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5000 U	--	5000 U	--	--	--	--	--	--	--	--	--
OZMW-22SR	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5000 U	--	5000 U
OZMW-22I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16600	--	19900	--	--	--	--	--	--	--	--	--
OZMW-22IR	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21100	--	30000
OZMW-22I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14000	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18500	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10800	--	87500	--	--	--	--	--	--	31700	--	31100
OZMW-23I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	29700	--	46100	--	--	--	--	--	--	14800	--	12600
OZMW-23I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	105000	--	90500	--	--	--	--	--	--	87500	--	27100
OZMW-23D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**1460000**	--	**974000**	--	--	--	--	--	--	110000	--	**351000 D**
OZMW-24S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13400	--	--	--	--	--	--	--	--	35300	--	29200
OZMW-24I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	5000 U	--	5000 U
OZMW-24I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	41300	--	--	--	--	--	--	--	--	41300	--	32000
OZMW-24D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2470000**	--	--	--	--	--	--	--	--	**1080000**	--	**954000 D**
OZMW-25S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	27700	--	--	28200	--	16700	--	--	--	12400	--	--	5000 U	--	--
OZMW-25I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	8500	--	--	5000 U	--	11300	--	--	--	5000 U	--	--	5000 U	--	--
OZMW-25I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	15500	--	--	11700	--	11000	--	--	--	13900	--	--	7100	--	--
OZMW-25D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	31100	--	--	19500	--	13300	--	--	--	17400	--	--	14400	--	--
OZMW-26S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	6010	--	--
OZMW-26I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16000	--	--	--	--	--	--	--	--	16700	--	--
OZMW-26I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28800	--	--	--	--	--	--	--	--	11900	--	--
OZMW-26D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	30200	--	--	--	--	--	--	--	--	19700	--	--
Operable Unit No. 2 (OU-2)																											
BBMW-01S	5 - 15	59500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32 - 42	19100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01D	68.5 - 78.5	14600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02S	5 - 15	17800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30 - 40	13700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02D	73 - 83	18700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03S	3 - 13	--	--	--	15100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03I	30 - 40	--	--	--	22700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03D	52 - 62	--	--	--	7700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07D	55 - 65	23900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23S	5 - 15	7100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23I	33 - 43	21400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23D	49.5 - 59.5	13300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24D	59.5 - 69.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25S	4 - 14	--	--	16300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25I	25 - 35	--	--	17600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25D	62 - 72	--	--	8700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05S	5.1 - 20.1	--	--	--	--	20200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05I	35.05 - 48.05	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05D	60.95 - 75.95	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25 - 30	--	--	--	--	20000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-04	15.5 - 20.5	--	--	--	--	9800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04S	4 - 14	5000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04D	35 - 45	14700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2IW-01S	3 - 8	--	--	15400	--	6600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3 - 8	--	18500	17300	17100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20 - 25	--	52000	48800	39100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35 - 40	--	37700	49200	42200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I2	50 - 55	--	13300	11600	7900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2007					2008			2009									2010								
		Mar-07	Jun-07	Jul-07	Nov-07	Dec-07	May-08	Sep-08	Dec-08	Jan-09	Mar-09	May-09	Jun-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10
OU2MW-01D	65 - 70	--	7000	7100	8100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20 - 25	--	--	--	7100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	35 - 40	--	--	--	24600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I2	50 - 55	--	--	--	11300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	65 - 70	--	--	--	7000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03S	20 - 25	--	--	--	43200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35 - 40	--	--	--	22900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50 - 55	--	--	--	15100 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65 - 70	--	--	--	5500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3 - 8	--	--	--	10700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20 - 25	--	--	--	19900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I	35 - 40	--	--	--	30500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I2	50 - 55	--	--	--	6200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04D	65 - 70	--	--	--	9700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25 - 35	--	--	--	--	17800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06S	3 - 8	--	--	--	12100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15 - 25	--	--	--	12200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3 - 8	--	--	--	11000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15 - 25	--	--	--	14000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3 - 8	--	19900	21800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20 - 25	--	23000	25800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35 - 40	--	27900	19400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I2	50 - 55	--	34400	36000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	65 - 70	--	8500	6600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30 - 40	--	--	--	--	18900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3 - 7	--	--	--	--	11800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20 - 25	--	--	--	--	7000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35 - 40	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3 - 8	--	11000	17000	--	15000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20 - 25	--	28000	6900	--	20100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30 - 35	--	25800	5000 U	--	30900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11D	40 - 45	--	13100	7100	--	5600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3 - 7	--	20800	28400	--	10000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I	20 - 25	--	32800	38900	--	27500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I2	30 - 35	--	24300	32700	--	17300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12D	40 - 45	--	20000	23300	--	7500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13S	3 - 8	--	--	--	--	13800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20 - 25	--	--	--	--	32300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35 - 40	--	--	--	--	27900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3 - 8	--	--	--	--	9500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3 - 8	--	--	--	--	8900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20 - 25	--	--	--	--	27300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30 - 35	--	--	--	--	25000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40 - 45	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3 - 8	--	--	--	--	8200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15 - 20	--	--	--	--	22900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25 - 30	--	--	--	--	30600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35 - 40	--	--	--	--	5400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17S	5 - 10	--	--	--	--	--	18500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13 - 23	--	--	--	--	--	9900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35 - 45	--	--	--	--	--	27500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60 - 75	--	--	--	--	--	133000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13 - 23	--	--	--	--	--	26900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35 - 45	--	--	--	--	--	37800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60 - 70	--	--	--	--	--	225000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13 - 23	--	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	--	--	--	15600	--	49600	--	--	--	--	--	--
OU2MW-19I2	35 - 45	--	--	--	--	--	122000	--	--	--	--	--	--	--	--	--	--	--	8510	--	5560	--	--	--	--	--	--
OU2MW-19D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**319000**	--	**371000**	--	--	--	--	--	--
OU2MW-20S	4 - 9	--	--	--	--	--	19900	--	--	--	--	--	--	--	--	--	--	--	39000	--	14500	--	--	--	--	--	--
OU2MW-20I	13 - 23	--	--	--	--	--	6100	--	--	--	--	--	--	--	--	--	--	--	71500	--	35000	--	--	--	--	--	--
OU2MW-20I2	35 - 45	--	--	--	--	--	20200	--	--	--	--	--	--	--	--	--	--	--	16600	--	16600	--	--	--	--	--	--
OU2MW-20D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22700	--	54200	--	--	--	--	--	--
OU2MW-21I	13 - 23	--	--	--	--	--	79000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35 - 45	--	--	--	--	--	16300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5 - 15	--	--	--	--	--	--	--	--	22400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2007					2008			2009									2010								
		Mar-07	Jun-07	Jul-07	Nov-07	Dec-07	May-08	Sep-08	Dec-08	Jan-09	Mar-09	May-09	Jun-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10
OU2MW-22I	25 - 30	--	--	--	--	--	--	--	--	5990	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46 - 51	--	--	--	--	--	--	--	--	24500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67 - 72	--	--	--	--	--	--	--	--	100000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5 - 15	--	--	--	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25 - 30	--	--	--	--	--	--	--	15200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45 - 50	--	--	--	--	--	--	--	22400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65 - 70	--	--	--	--	--	--	--	48400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5 - 15	--	--	--	--	--	--	--	10600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25 - 30	--	--	--	--	--	--	--	7920	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45 - 50	--	--	--	--	--	--	--	83700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62 - 67	--	--	--	--	--	--	--	21800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25S	5 - 15	--	--	--	--	--	--	--	30100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25 - 30	--	--	--	--	--	--	--	8970	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I2	45 - 50	--	--	--	--	--	--	--	23000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70 - 75	--	--	--	--	--	--	--	82500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6 - 11	--	--	--	--	--	8900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13 - 23	--	--	--	--	--	16200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35 - 45	--	--	--	--	--	13500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60 - 70	--	--	--	--	--	22600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5 - 15	--	--	--	--	--	--	18200	--	--	--	21400	--	32900	--	--	27900	--	29400	--	--	27600	--	--	21000	--	--
OU2MW-28I	28 - 33	--	--	--	--	--	--	10300	--	--	--	5000 U	--	14900	--	--	20000	--	20400	--	--	30400	--	--	18400	--	--
OU2MW-28I2	40 - 45	--	--	--	--	--	--	27600	--	--	--	27800	--	25700	--	--	27100	--	27500	--	--	33800	--	--	48800	--	--
OU2MW-29I	18 - 23	--	--	--	--	--	--	5000 U	--	--	--	5000 U	--	10600	--	--	5000 U	--	34700	--	--	64200	--	--	82900	--	--
OU2MW-29I2	30 - 35	--	--	--	--	--	--	5000 U	--	--	--	12800	--	33800	--	--	55700	--	28800	--	--	5000 U	--	--	42600	--	--
OU2MW-29D	45 - 50	--	--	--	--	--	--	20800	--	--	--	16000	--	35400	--	--	22500	--	19500	--	--	22400	--	--	21600	--	--
OU2MW-30S	5 - 15	--	--	--	--	--	--	24100	--	--	--	35800	--	27600	--	--	26300	--	16800	--	--	31400	--	--	--	--	--
OU2MW-30I	25 - 30	--	--	--	--	--	--	20900	--	--	--	19800	--	29700	--	--	49800	--	46400	--	--	49100	--	--	--	--	--
OU2MW-30I2	30 - 35	--	--	--	--	--	--	23200	--	--	--	21200	--	43000	--	--	55500	--	65400	--	--	44100	--	--	46100	--	--
OU2MW-30I3	45 - 50	--	--	--	--	--	--	22500	--	--	--	23200	--	42900	--	--	46300	--	37400	--	--	56700	--	--	49800	--	--
OU2MW-30D	50 - 55	--	--	--	--	--	--	27500	--	--	--	27900	--	42300	--	--	43900	--	38500	--	--	45400	--	--	49900	--	--
OU2MW-30D2	60 - 65	--	--	--	--	--	--	36700	--	--	--	26500	--	31900	--	--	28300	--	23400	--	--	18200	--	--	--	--	--
OU2MW-31I	18 - 23	--	--	--	--	--	--	9910	--	--	--	9280	--	8610	--	--	24500	--	28300	--	--	48600	--	--	44200	--	--
OU2MW-31I2	30 - 35	--	--	--	--	--	--	17500	--	--	--	27400	--	11600	--	--	17900	--	18700	--	--	26100	--	--	62300	--	--
OU2MW-32S	5 - 15	--	--	--	--	--	--	7690	--	--	--	12400	--	5700	--	--	11000	--	9580	--	--	9970	--	--	6650	--	--
OU2MW-32I	20 - 25	--	--	--	--	--	--	5000 U	--	--	--	5000 U	--	5000 U	--	--	11300	--	5000 U	--	--	7820	--	--	48800	--	--
OU2MW-32I2	30 - 35	--	--	--	--	--	--	6540	--	--	--	14600	--	14900	--	--	16300	--	17800	--	--	25500	--	--	24400	--	--
OU2MW-32D	40 - 45	--	--	--	--	--	--	15500	--	--	--	15700	--	25600	--	--	26000	--	23100	--	--	24900	--	--	23800	--	--
OU2MW-35S	5 - 15	--	--	--	--	--	--	--	25900	--	--	--	45200	--	30100	--	--	39400	--	14200	--	18600	--	--	50700	--	--
OU2MW-35I	25 - 30	--	--	--	--	--	--	--	--	16400	--	--	23400	--	35900	--	--	45100	--	49400	--	70800	--	--	54200	--	--
OU2MW-35I2	45 - 50	--	--	--	--	--	--	--	--	42400	--	--	89600	--	35700	--	--	27100	--	30000	--	25700	--	--	83100	--	--
OU2MW-35D	57 - 62	--	--	--	--	--	--	--	--	192000	--	--	141000	--	156000	--	--	117000	--	117000	--	148000	--	--	**315000**	--	--
OU2MW-36S	5 - 15	--	--	--	--	--	--	--	18000	--	--	--	13400	--	16900	--	--	16800	--	16600	--	18300	--	--	11000	--	--
OU2MW-36I	25 - 30	--	--	--	--	--	--	--	23900	--	--	--	24800	--	25700	--	--	33800	--	45000	--	69500	--	--	83700	--	--
OU2MW-36I2	45 - 50	--	--	--	--	--	--	--	56400	--	--	--	49300	--	30900	--	--	71700	--	33400	--	76500	--	--	82900	--	--
OU2MW-36D	61 - 66	--	--	--	--	--	--	--	29700	--	--	--	167000	--	160000	--	--	150000	--	108000	--	95400	--	--	102000	--	--
OU2MW-37S	5 - 15	--	--	--	--	--	--	--	--	14200	--	--	14500	--	13700	--	--	9820	--	10500	--	11200	--	--	11300	--	--
OU2MW-37I	25 - 30	--	--	--	--	--	--	--	--	20300	--	--	21500	--	21100	--	--	46500	--	22800	--	26200	--	--	11200	--	--
OU2MW-37I2	45 - 50	--	--	--	--	--	--	--	--	27000	--	--	34300	--	45800	--	--	34700	--	29900	--	30100	--	--	34300	--	--
OU2MW-37D	67 - 72	--	--	--	--	--	--	--	--	**396000**	--	--	**322000**	--	**282000**	--	--	**302000**	--	172000	--	176000	--	--	115000	--	--
OU2MW-38S	5 - 15	--	--	--	--	--	--	--	--	23400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25 - 30	--	--	--	--	--	--	--	--	18700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46 - 51	--	--	--	--	--	--	--	--	31900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56 - 61	--	--	--	--	--	--	--	--	195000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5 - 15	--	--	--	--	--	--	--	--	25600	--	--	17800	--	19200	--	--	18900	--	18800	--	18000	--	--	13900	--	15700
OU2MW-39I	25 - 30	--	--	--	--	--	--	--	--	20900	--	--	48200	--	105000	--	--	65000	--	31900	--	30300	--	--	164000	--	93400 D
OU2MW-39I2	45 - 50	--	--	--	--	--	--	--	--	26900	--	--	45700	--	39400	--	--	47000	--	36000	--	48600	--	--	62400	--	58000 D
OU2MW-39D	70 - 75	--	--	--	--	--	--	--	--	26100	--	--	194000	--	**260000**	--	--	**270000**	--	**293000**	--	**356000**	--	--	**390000**	--	**351000 D**
OU2MW-40S	5 - 15	--	--	--	--	--	--	16800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18 - 23	--	--	--	--	--	--	12400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5 - 15	--	--	--	--	--	--	14900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18 - 23	--	--	--	--	--	--	9010	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2007					2008			2009									2010								
		Mar-07	Jun-07	Jul-07	Nov-07	Dec-07	May-08	Sep-08	Dec-08	Jan-09	Mar-09	May-09	Jun-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10
OU2MW-42S	5 - 15	--	--	--	--	--	--	--	--	--	24300	--	26300	--	29600	--	--	39000	--	15900	--	14300	--	--	24000	--	--
OU2MW-42I	25 - 30	--	--	--	--	--	--	--	--	--	34000	--	18800	--	91300	--	--	48500	--	39900	--	30700	--	--	19700	--	--
OU2MW-42I2	45 - 50	--	--	--	--	--	--	--	--	--	18800	--	19800	--	24300	--	--	21400	--	31800	--	82300	--	--	45300	--	--
OU2MW-42D	60 - 65	--	--	--	--	--	--	--	--	--	**322000**	--	**485000**	--	**606000**	--	--	**711000**	--	**595000**	--	**731000**	--	--	**841000**	--	--
OU2MW-43S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19700	--	--	48500	--	54200	--	--	--	--	--
OU2MW-43I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5000 U	--	--	5000 U	--	5000 U	--	--	--	--	--
OU2MW-43I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7030	--	--	12100	--	5880	--	--	--	--	--
OU2MW-43D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**693000**	--	--	**612000**	--	**636000**	--	--	--	--	--
OU2MW-44S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21500	--	--	18800	--	18100	--	--	--	--	--
OU2MW-44I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18000	--	--	25700	--	23900	--	--	--	--	--
OU2MW-44I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18400	--	--	14700	--	12900	--	--	--	--	--
OU2MW-44D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37400	--	--	27100	--	26900	--	--	--	--	--
OU2MW-45S	5 - 15	--	--	--	--	--	--	--	--	11900	--	13700	--	--	7860	--	--	7560	--	9380	--	10300	--	--	23600	--	--
OU2MW-45I	20 - 25	--	--	--	--	--	--	--	--	20000	--	15800	--	--	28600	--	--	23000	--	5000 U	--	9480	--	--	80100	--	--
OU2MW-45I2	40 - 45	--	--	--	--	--	--	--	--	25700	--	13100	--	--	31500	--	--	32200	--	37800	--	21400	--	--	19600	--	--
OU2MW-45D	55 - 60	--	--	--	--	--	--	--	--	25500	--	22400	--	--	27200	--	--	21100	--	16000	--	11700	--	--	13900	--	--
OU2MW-46S	5 - 15	--	--	--	--	--	--	--	--	14100	--	17800	--	--	41600	--	--	35800	--	22800	--	23200	--	--	21800	--	--
OU2MW-46I	20 - 25	--	--	--	--	--	--	--	--	37600	--	39200	--	--	122000	--	--	111000	--	108000	--	39900	--	--	24300	--	--
OU2MW-46I2	40 - 45	--	--	--	--	--	--	--	--	41900	--	80000	--	--	44600	--	--	31600	--	29700	--	18000	--	--	34800	--	--
OU2MW-47S	5 - 15	--	--	--	--	--	--	--	--	13200	--	16700	--	--	17800	--	--	8190	--	20900	--	15300	--	--	21700	--	--
OU2MW-47I	20 - 25	--	--	--	--	--	--	--	--	5000 U	--	7590	--	--	22300	--	--	22000	--	25000	--	31300	--	--	72800	--	--
OU2MW-47I2	40 - 45	--	--	--	--	--	--	--	--	36100	--	27000	--	--	38400	--	--	25100	--	30400	--	20100	--	--	16400	--	--
OU2MW-47D	60 - 65	--	--	--	--	--	--	--	--	33200	--	35300	--	--	197000	--	--	117000	--	78900	--	41600	--	--	45300	--	--
OU2MW-52S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	7560	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	22400	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	16500	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	7020	--	--	--	--	--	--	--	--	--	--	--	8450	--	--
OU2MW-53I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	--	--	--	19100	--	--
OU2MW-53D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	10200	--	--	--	--	--	--	--	--	--	--	--	17500	--	--
OU2MW-54S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8620	--	14100	--	--	--	--	--	--
OU2MW-54I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17200	--	16700	--	--	--	--	--	--
OU2MW-54I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14400	--	67900	--	--	--	--	--	--
OU2MW-54D	60 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20700	--	18100	--	--	--	--	--	--
OU2MW-55S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14300	--	--	--	--
OU2MW-55I	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19400	--	--	--	--
OU2MW-55I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37200	--	--	--	--
OU2MW-55D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7540	--	--	--	--
OU2MW-56S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19300	--	--	--	--
OU2MW-56I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37200	--	--	--	--
OU2MW-56I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20500	--	--	--	--
OU2MW-56D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25500	--	--	--	--
Operable Unit No. 3 (OU-3)																											
MW-64	19 - 24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	27400	--	--	--	--	--
OU3MW-01S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	5910	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	35200	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	18500	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13300	26800 J	88200 J	126000	--	--	--	--
OU3MW-07I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24000	17700	28300 J	28000	--	--	--	--
OU3MW-07I2	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	32800	21600	21900 J	22400	--	--	--	--
OU3MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No.4 (OU-4)																											
WCMW-01S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2590000**	--	**4250000**	--	--	391000
WCMW-01I	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	66900	--	47200	--	--	41700
WCMW-01D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**6460000**	--	**4210000**	--	--	611000
WCMW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17600	--	17700	--	--	9460
WCMW-02I	34.5 - 44.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5720	--	33200	--	--	**343000**
WCMW-02D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5000 U	--	5000 U	--	--	5000 U
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**6280000**	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	40600	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25000	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
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Well ID	Screen Interval (feet bgs)	2007					2008			2009									2010								
		Mar-07	Jun-07	Jul-07	Nov-07	Dec-07	May-08	Sep-08	Dec-08	Jan-09	Mar-09	May-09	Jun-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Feb-10	Mar-10	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**2160000**	--	--	--	--	--
WCMW-04I	19 - 24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	83800	--	--	--	--	--
WCMW-04I2	29.85 - 34.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	132000	--	--	--	--	--
WCMW-05S	1.15 - 11.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**3670000**	--	--	--	--	--
WCMW-05I	19.61 - 24.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15800	--	--	--	--	--
WCMW-05I2	29.46 - 34.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	23700	--	--	--	--	--
WCMW-06S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12300 J	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11100 J	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28900 J	--	--	--	--	--
WCMW-10S	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19000 J	--	--	--	--	--
WCMW-10D	40 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37800 J	--	--	--	--	--
WCMW-11S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11D	50 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17200	--	--	17600
WCMW-13I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8190	--	--	10700
WCMW-13D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5000 U	--	--	5000 U
WCMW-14S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	83700	--	25200	--	--	5000 U
WCMW-14I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	40300	--	5000 U	--	--	9850
WCMW-14I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	90500	--	47600	--	--	44600
WCMW-14D	67 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6840	--	**1180000**	--	--	6830
WCMW-16S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	162000 J	--	5000 U	--	--	5000 U
WCMW-16I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5000 UJ	--	5000 U	--	--	10300
WCMW-16I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	23300 J	--	26400	--	--	26700
WCMW-17S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**773000 J**	--	--	--	--	--
WCMW-17I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**382000 J**	--	--	--	--	--
WCMW-17I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	175000 J	--	--	--	--	--
WCMW-18WT	2 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	46400	--	--	--	--	--
WCMW-18S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16300	--	--	--	--	--
WCMW-18I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24600 J	--	--	--	--	--
WCMW-18I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22500 J	--	--	--	--	--
WCMW-19S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14300 J	--	21000	--	--	10900
WCMW-19I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17700 J	--	17900	--	--	24400
WCMW-19I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22500 J	--	28000	--	--	37600
WCMW-25I	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**278000**	--	--	--	--	--
WCMW-25D	55 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	**7810000**	--	--	--	--	--
WCMW-30I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
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National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2010		2011												2012									2013		
		Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Apr-13	May-13	Jun-13
Operable Unit No. 1 (OU-1)																											
BBMW-04D	63 - 73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-05D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06D	66 - 76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-08D	65 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17S	5.5 - 15.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17I	30.5 - 40.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19I	29.6 - 39.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19D	64.75 - 74.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5 - 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65 - 70	--	--	--	--	--	--	--	--	--	40400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5 - 15	--	--	33500	--	--	--	43100	--	--	7780	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I	25 - 30	--	--	--	--	--	--	5760	--	--	7500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40 - 45	--	--	--	--	--	--	10300	--	--	9910	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65 - 70	--	--	19800	--	--	--	21900	--	--	22900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5 - 15	5000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I	25 - 30	15900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I2	45 - 50	32100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65 - 70	16100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05D	35.5 - 45.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08D	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09S	4 - 14	--	22400	--	--	18600	--	--	28100	--	--	20900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I	30 - 40	--	--	--	--	14600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I2	45 - 50	--	--	--	--	24800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65 - 70	--	--	--	--	30700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48S	3 - 13	--	32400	--	--	32000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I	25 - 30	--	14100	--	--	18700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45 - 50	--	16400	--	--	23000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48D	65 - 70	--	8240	--	--	9010	--	--	--	--	8960	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49S	3 - 13	--	--	--	21900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	25 - 30	--	--	16400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45 - 50	--	--	22100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	63 - 68	--	--	10700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	5 - 15	--	--	43100	--	--	--	40400	--	--	24000	--	--	--	12100	--	--	13700	13000	--	--	--	9300	--	--	10400	--
OZMW-16I	20 - 30	--	--	5000 U	--	--	--	5000 U	--	--	5000 U	--	--	--	5000 U	--	--	5000 U	5000 U	--	--	--	5000 U	--	--	5000 U	--
OZMW-16I2	35 - 45	--	--	20400	--	--	--	20800	--	--	9680	--	--	--	25300	--	--	16700	18500	--	--	--	26300	--	--	25200	--
OZMW-16D	55 - 65	--	--	48900	--	--	--	69600 D	--	--	50000	--	--	--	63800 D	--	--	76100 D	55600	--	--	--	48500	--	--	65600 D	--
OZMW-17S	5 - 15	--	--	48900	--	--	--	33800	--	--	22700	--	--	--	15000	--	10400	--	9990	--	--	--	11900	--	--	13300	--
OZMW-17I	20 - 30	--	--	5000 U	--	--	--	5000 U	--	--	5000 U	--	--	--	5000 U	--	5000 U	--	5000 U	--	--	--	5000 U	--	--	5000 U	--
OZMW-17I2	35 - 45	--	--	15500	--	--	--	14000	--	--	31800	--	--	--	23100	--	27800	--	25000	--	--	--	26100	--	--	27000	--
OZMW-17D	53 - 63	--	--	215000 J	--	--	--	130000 D	--	--	104000 D	--	--	--	77400 D	--	112000 D	--	164000	--	--	--	59700 D	--	--	69000 D	--
OZMW-18S	5 - 15	--	--	18800	--	--	--	14100	--	--	11500	--	--	--	12600	--	--	8990	7610	--	--	--	13800	--	--	13500	--
OZMW-18I	20 - 30	--	--	5000 U	--	--	--	5000 U	--	--	5000 U	--	--	--	5000 U	--	--	5000 U	5000 U	--	--	--	5000 U	--	--	5000 U	--
OZMW-18I2	35 - 45	--	--	5000 U	--	--	--	5000 U	--	--	5000 U	--	--	--	5000 U	--	--	5000 U	5000 U	--	--	--	5000 U	--	--	5000 U	--
OZMW-18D	55 - 65	--	--	**251000**	--	--	--	**250000 D**	--	--	177000 D	--	--	--	169000 D	--	--	155000 D	135000	--	--	--	155000 D	--	--	120000 D	--

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Well ID	Screen Interval (feet bgs)	2010		2011												2012									2013		
		Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Apr-13	May-13	Jun-13
OZMW-19S	5 - 15	11100	--	5470	--	--	--	18300	--	--	20200	--	--	--	9310	--	5000 U	--	--	14900	--	--	13200	--	--	18900	--
OZMW-19I	20 - 30	5000 U	--	8120	--	--	--	5000 U	--	--	11400	--	--	--	5000 U	--	5000 U	--	--	5000 U	--	--	5000 U	--	--	5000 U	--
OZMW-19I2	35 - 45	5000 U	--	5000 U	--	--	--	5000 U	--	--	5000 U	--	--	--	5000 U	--	5000 U	--	--	5000 U	--	--	5000 U	--	--	5000 U	--
OZMW-19D	55 - 65	26500	--	23400	--	--	--	29800	--	--	24400	--	--	--	29200	--	39100	--	--	47800	--	--	29700	--	--	42700	--
OZMW-21S	5 - 15	5000 U	--	5000 U	--	--	--	5000 U	--	--	16900	--	--	--	5000 U	--	--	5000 U	--	5130	--	--	13800	--	--	5200	--
OZMW-21I	20 - 30	--	5000 U	5000 U	--	--	--	--	5000 U	--	5000 U	--	--	--	5000 U	--	--	5000 U	--	5000 U	--	--	5000 U	--	--	5000 U	--
OZMW-21I2	35 - 45	5000 U	--	5000 U	--	--	--	5000 U	--	--	5000 U	--	--	--	5000 U	--	--	125000 U	--	5000 U	--	--	5000 U	--	--	5000 U	--
OZMW-21D	55 - 65	--	34400	38600	--	--	--	--	45000	--	45300	--	--	--	37300	--	--	39400	--	45500	--	--	41800	--	--	46300	--
OZMW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22SR	5 - 15	--	--	9500	--	--	--	32300	--	--	32000	--	--	--	37900	--	--	23100	--	42600	--	--	39300	--	--	12300	--
OZMW-22I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22IR	20 - 30	--	--	26100	--	--	--	25200	--	--	25300	--	--	--	21500	--	--	26100	--	24400	--	--	23800	--	--	24600	--
OZMW-22I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5 - 15	--	--	15600	--	--	21600	--	--	--	9210	--	--	10300	--	--	9090	--	27100	--	--	--	18000	--	--	12900	--
OZMW-23I	20 - 30	--	--	16500	--	--	13300	--	--	--	6520	--	--	5000 U	--	--	5000 U	--	5000 U	--	--	--	5000 U	--	--	5000 U	--
OZMW-23I2	35 - 45	--	--	41200	--	--	43700	--	--	--	35300	--	--	20400	--	--	46000	--	63900	--	--	--	33500	--	--	36500	--
OZMW-23D	55 - 65	--	--	**387000**	--	--	176000 D	--	--	--	115000 D	--	--	98900 D	--	--	122000 D	--	76100	--	--	--	177000 D	--	--	103000 D	--
OZMW-24S	5 - 15	--	--	42900	--	--	43000 D	--	--	--	21400	--	--	34300	--	--	35500	--	11400	--	--	--	13300	--	--	16200	--
OZMW-24I	20 - 30	--	--	5000 U	--	--	5000 U	--	--	--	5000 U	--	--	5000 U	--	--	5000 U	--	5000 U	--	--	--	5000 U	--	--	5000 U	--
OZMW-24I2	35 - 45	--	--	20100	--	--	15600	--	--	--	23300	--	--	24300	--	--	18400	--	15400	--	--	--	5500	--	--	12100	--
OZMW-24D	55 - 65	--	--	**824000**	--	--	**682000 D**	--	--	--	**677000 D**	--	--	**496000 D**	--	--	**739000 D**	--	**700000**	--	--	--	**569000 D**	--	--	**598000 D**	--
OZMW-25S	5 - 15	--	7240	5000 U	--	--	--	15100	--	--	41100	--	--	--	6970	--	--	5000 U	--	23300	--	--	5000 U	--	--	5000 U	--
OZMW-25I	20 - 30	--	8290	5000 U	--	--	--	5000 U	--	--	5000 U	--	--	--	5000 U	--	--	5000 U	--	5000 U	--	--	5000 U	--	--	5000 U	--
OZMW-25I2	35 - 45	--	12100	15100	--	--	--	20000	--	--	8940	--	--	--	30600	--	--	25500	--	17800	--	--	10500	--	--	6380	--
OZMW-25D	55 - 65	--	17700	18500	--	--	--	21500	--	--	28200	--	--	--	19300	--	--	18600	--	23500	--	--	29000	--	--	17700	--
OZMW-26S	5 - 15	--	5000 U	7570	--	--	--	7060	--	--	7500	--	--	--	5000 U	--	10500	--	--	5000 U	--	--	5000 U	--	--	5240	--
OZMW-26I	20 - 30	--	9680	10500	--	--	--	7430	--	--	5000 U	--	--	--	5770	--	5000 U	--	--	5000 U	--	--	5000 U	--	--	5000 U	--
OZMW-26I2	35 - 45	--	5000 U	10500	--	--	--	24500	--	--	16400	--	--	--	5000 U	--	16000	--	--	20900	--	--	7660	--	--	23700	--
OZMW-26D	55 - 65	--	28100	30500	--	--	--	30600	--	--	17500	--	--	--	33400	--	35600	--	--	24900	--	--	23100	--	--	34600	--
Operable Unit No. 2 (OU-2)																											
BBMW-01S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01D	68.5 - 78.5	--	--	--	--	--	--	--	--	--	--	--	--	--	70100 D	--	--	49500 D	--	--	--	--	--	--	--	--	--
BBMW-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02D	73 - 83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03D	52 - 62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23I	33 - 43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23D	49.5 - 59.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24D	59.5 - 69.5	--	--	--	--	--	--	--	--	--	**518000 D**	--	--	**557000 D**	--	--	**589000 D**	--	--	**642000**	--	--	**593000 D**	--	--	125000 D	--
BBMW-25S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25I	25 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8510	--	7160	--	--	--	9530	--
GM-05S	5.1 - 20.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05I	35.05 - 48.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05D	60.95 - 75.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-04	15.5 - 20.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04D	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2IW-01S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
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National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2010		2011												2012									2013		
		Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Apr-13	May-13	Jun-13
OU2MW-01D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17S	5 - 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60 - 70	--	--	--	--	--	--	--	--	--	34600 D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13 - 23	--	68300 D	--	32400	--	39500	--	--	--	47400 D	--	--	--	17900	--	--	37100	--	--	9610	--	33800	--	12600	--	--
OU2MW-19I2	35 - 45	--	7280	--	5000 U	--	5000 U	--	--	--	5260	--	--	--	5000 U	--	--	5000 U	--	--	5000 U	--	7260	--	5000 U	--	--
OU2MW-19D	65 - 70	--	**282000 D**	--	59200 D	--	90500	--	--	--	227000 D	--	--	--	106000 D	--	--	50000	--	--	72000 D	--	13200	--	66400	--	--
OU2MW-20S	4 - 9	9380	--	--	13100	--	20800	--	--	9390	--	--	7200	--	--	--	10100	--	--	15000	--	--	13300	--	16400	--	--
OU2MW-20I	13 - 23	30700	--	--	57700 D	--	77800	--	--	44400	--	--	47200	--	--	--	67400 D	--	--	80500 D	--	--	52700	--	56800	--	--
OU2MW-20I2	35 - 45	18400	--	--	16000	--	17400	--	--	12100	--	--	14700	--	--	--	16400	--	--	18900	--	--	18700	--	23700	--	--
OU2MW-20D	65 - 70	68900 D	--	--	65900 D	--	120000 J	--	--	58500 D	--	--	40200	--	--	--	17900	--	--	11800	--	--	12500	--	20500	--	--
OU2MW-21I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Well ID	Screen Interval (feet bgs)	2010		2011												2012									2013		
		Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Apr-13	May-13	Jun-13
OU2MW-22I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67 - 72	--	--	--	--	--	--	--	--	--	62300 D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	139000 D	--	--	116000	--	--	64000 D	--
OU2MW-24S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62 - 67	--	--	--	--	--	--	--	--	**535000 D**	--	--	--	**496000 D**	--	--	**527000 D**	--	--	**433000 D**	--	--	**338000**	--	--	107000 D	--
OU2MW-25S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6 - 11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	46600	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	**296000 D**	--	100000 D	--	--	--	240000 D	--	234000 D	--	--	--	141000 D
OU2MW-28S	5 - 15	17100	--	--	27700	--	26700	--	--	25500	--	--	15500	--	--	--	33400	--	20700	--	--	--	35600	--	--	--	18800
OU2MW-28I	28 - 33	23500	--	--	28600	--	30000	--	--	8700	--	--	19000	--	--	--	13900	--	13100	--	--	--	19700	--	--	--	24100
OU2MW-28I2	40 - 45	50000	--	--	54900 D	--	49900	--	--	43800	--	--	41300	--	--	--	39000	--	36100	--	--	--	34000	--	--	--	28900
OU2MW-29I	18 - 23	64400 D	--	--	61900 D	--	107000 D	--	--	78800	--	--	92700 D	--	--	--	96200 D	--	90600 D	--	--	--	64800 D	--	--	--	35600
OU2MW-29I2	30 - 35	109000 D	--	--	5000 U	--	11600	--	--	22300	--	--	54600 D	--	--	--	50300 D	--	55000 D	--	--	--	81100 D	--	--	--	85300 D
OU2MW-29D	45 - 50	22600	--	--	56400 D	--	90000 D	--	--	114000	--	--	126000 D	--	--	--	167000 D	--	176000 D	--	--	--	134000 D	--	--	--	159000 D
OU2MW-30S	5 - 15	27300	--	--	61000 D	--	42400	--	--	33000	--	--	23600	--	--	--	26600	--	21500	--	--	--	25600	--	--	--	34400
OU2MW-30I	25 - 30	42700	--	--	51900 D	--	38000	--	--	33600	--	--	38100	--	--	--	33800	--	35300	--	--	--	29400	--	--	--	7860
OU2MW-30I2	30 - 35	31500	--	--	35100	--	49200	--	--	44500	--	--	32900	--	--	--	34500	--	39800	--	--	--	42200	--	--	--	19700
OU2MW-30I3	45 - 50	49300	--	--	61800 D	--	60500 D	--	--	38300	--	--	37300	--	--	--	39500	--	40700	--	--	--	40500	--	--	--	30200
OU2MW-30D	50 - 55	49700	--	--	48900	--	39000	--	--	47200	--	--	55500 D	--	--	--	49600	--	52800 D	--	--	--	71500 D	--	--	--	87500 D
OU2MW-30D2	60 - 65	26900	--	--	27800	--	29100	--	--	45500	--	--	36900	--	--	--	63400 D	--	81100 D	--	--	--	82400 D	--	--	--	**376000 D**
OU2MW-31I	18 - 23	64700 D	--	--	90100 D	--	115000 D	--	--	65800	--	--	79500 D	--	--	--	58400 D	--	64200 D	--	--	--	51800 D	--	--	--	18200
OU2MW-31I2	30 - 35	77700 D	--	--	43900	--	34900	--	--	45500	--	--	53300 D	--	--	--	44500	--	46900 D	--	--	--	50000	--	--	--	40600
OU2MW-32S	5 - 15	7050	--	--	13200	--	12000	--	--	11400	--	--	10600	--	--	--	8060	--	6800	--	--	--	12900	--	--	--	10900
OU2MW-32I	20 - 25	72100 D	--	--	46900	--	71500 D	--	--	55300	--	--	48000	--	--	--	29600	--	37700	--	--	--	50700 D	--	--	--	41800
OU2MW-32I2	30 - 35	24600	--	--	65800 D	--	117000 D	--	--	63300	--	--	73100 D	--	--	--	48800	--	49600	--	--	--	43300	--	--	--	7780
OU2MW-32D	40 - 45	27400	--	--	34700	--	37600	--	--	44500	--	--	69000 D	--	--	--	71200 D	--	72900 D	--	--	--	49700	--	--	--	38600
OU2MW-35S	5 - 15	39800	--	--	42200	--	--	43700	--	--	29100	--	--	14400	--	--	24200	--	--	31700	--	--	14500	--	--	20200	--
OU2MW-35I	25 - 30	33100	--	--	25000	--	--	24400	--	--	28200	--	--	14200	--	--	14600	--	--	18100	--	--	12200	--	--	5000 U	--
OU2MW-35I2	45 - 50	76500 D	--	--	42700	--	--	53500 D	--	--	75200	--	--	107000 D	--	--	41000	--	--	27700	--	--	29600	--	--	34600 D	--
OU2MW-35D	57 - 62	**351000 D**	--	--	**436000 D**	--	--	**394000 DH**	--	--	**291000**	--	--	168000 D	--	--	139000 D	--	--	101000 D	--	--	95300 D	--	--	50700 D	--
OU2MW-36S	5 - 15	20700	--	--	15500	--	--	14500	--	14900	--	--	--	7010	--	--	9120	--	--	11500	--	--	11900	--	--	7770	--
OU2MW-36I	25 - 30	70600 D	--	--	45500	--	--	48300 D	--	39900	--	--	--	36200	--	--	25100	--	--	23200	--	--	14900	--	--	6580	--
OU2MW-36I2	45 - 50	99400 D	--	--	92700 D	--	--	84800 D	--	105000	--	--	--	108000 D	--	--	111000 D	--	--	93300 D	--	--	78300 D	--	--	49600	--
OU2MW-36D	61 - 66	203000 D	--	--	**299000 D**	--	--	**268000 D**	--	**378000**	--	--	--	**445000 D**	--	--	**416000 D**	--	--	**411000 D**	--	--	**312000 D**	--	--	66100 D	--
OU2MW-37S	5 - 15	12800	--	--	14400	--	--	26100	--	--	10700	--	--	17200	--	--	14300	--	--	23000	--	--	16600	--	--	15800	--
OU2MW-37I	25 - 30	11500	--	--	14700	--	--	16100	--	--	11100	--	--	11500	--	--	21800	--	--	35500	--	--	17100	--	--	15800	--
OU2MW-37I2	45 - 50	33300	--	--	24800	--	--	35000	--	--	38000	--	--	19500	--	--	25200	--	--	26700	--	--	24600	--	--	27000	--
OU2MW-37D	67 - 72	112000 D	--	--	116000 D	--	--	143000 D	--	--	145000	--	--	75200 D	--	--	144000 D	--	--	123000 D	--	--	158000 D	--	--	79900 D	--
OU2MW-38S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56 - 61	--	--	--	--	--	--	--	--	--	75500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5 - 15	--	--	30800	--	--	24900	--	--	--	17800	--	17500	--	--	--	17800	--	17900	--	--	--	18500	--	--	18100	--
OU2MW-39I	25 - 30	--	--	14900	--	--	12100	--	--	--	7410	--	9230	--	--	--	5000 U	--	5110	--	--	--	5000 U	--	--	5000 U	--
OU2MW-39I2	45 - 50	--	--	63500 D	--	--	94800 D	--	--	--	58900	--	49700	--	--	--	44500	--	35200	--	--	--	33400	--	--	26100	--
OU2MW-39D	70 - 75	--	--	95200 D	--	--	99500 D	--	--	--	42000	--	39100	--	--	--	40400	--	47700	--	--	--	45600	--	--	43300	--
OU2MW-40S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2010		2011												2012									2013		
		Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Apr-13	May-13	Jun-13
OU2MW-42S	5 - 15	48300	--	--	40500	--	--	41700	--	--	35900	--	--	39400	--	--	32900	--	--	29600	--	--	35800	--	--	24700	--
OU2MW-42I	25 - 30	19700	--	--	15600	--	--	9080	--	--	5830	--	--	8980	--	--	5000 U	--	--	6490	--	--	25000 U	--	--	5000 U	--
OU2MW-42I2	45 - 50	35800	--	--	36100	--	--	31400	--	--	23700	--	--	30700	--	--	25700	--	--	14800	--	--	11000	--	--	13900	--
OU2MW-42D	60 - 65	**766000 D**	--	--	**828000 D**	--	--	**547000 D**	--	--	**389000**	--	--	**585000 D**	--	--	**633000 D**	--	--	**499000 D**	--	--	**469000 D**	--	--	**377000 D**	--
OU2MW-43S	5 - 15	--	91200 D	--	--	105000 D	--	52100 D	--	36300	--	--	--	43800	--	--	--	51200 D	--	--	46700	--	50000	--	--	21100	--
OU2MW-43I	25 - 30	--	5470	--	**303000 D**	--	--	5010	--	5000 U	--	--	--	5000 U	--	--	--	5000 U	--	--	5000 U	--	5000 U	--	--	5000 U	--
OU2MW-43I2	45 - 50	--	5000 U	--	6380	--	--	5000 U	--	5000 U	--	--	--	5000 U	--	--	--	20400	--	--	13800	--	10400	--	--	11000	--
OU2MW-43D	65 - 70	--	**388000 D**	--	9450	--	--	**398000 D**	--	**364000**	--	--	--	7340	--	--	--	**438000 D**	--	--	**385000 D**	--	246000 D	--	--	243000	--
OU2MW-44S	5 - 15	--	19500	--	--	18700	--	18500	--	22600	--	--	--	--	15700	--	--	24900	--	--	22800	--	18300	--	--	14200	--
OU2MW-44I	25 - 30	--	16700	--	--	26600	--	26600	--	20200	--	--	--	--	13500	--	--	17300	--	--	22300	--	44900	--	--	19400	--
OU2MW-44I2	45 - 50	--	15700	--	--	21000	--	21400	--	18200	--	--	--	--	16600	--	--	19800	--	--	17600	--	20500	--	--	15000	--
OU2MW-44D	65 - 70	--	27700	--	--	29600	--	31700	--	29900	--	--	--	--	28300	--	--	30200	--	--	28300	--	31800	--	--	27800	--
OU2MW-45S	5 - 15	21300	--	--	--	11200	--	13300	--	--	14700	--	--	21900	--	--	21600	--	--	18600	--	--	38100	--	--	5000	--
OU2MW-45I	20 - 25	46600	--	--	--	45000	76200 D	--	--	--	93400	--	--	62700 D	--	--	89700 D	--	--	97400 D	--	--	95800 D	--	--	25000 D	--
OU2MW-45I2	40 - 45	19200	--	--	--	14200	--	29600	--	--	19300	--	--	13900	--	--	12700	--	--	14900	--	--	13100	--	--	5000	--
OU2MW-45D	55 - 60	17700	--	--	--	17900	5240	--	--	--	23400	--	--	20700	--	--	16900	--	--	19300	--	--	18500	--	--	5000	--
OU2MW-46S	5 - 15	20000	--	--	22200	--	51400 D	--	--	--	39400	--	--	26400	--	--	31800	--	--	--	29800	--	29900	--	--	5000	--
OU2MW-46I	20 - 25	26800	--	--	41500	--	50900 D	--	--	--	18500	--	--	15200	--	--	14100	--	--	--	7280	--	6650	--	--	5000 U	--
OU2MW-46I2	40 - 45	70700 D	--	--	40100	--	49900	--	--	--	27300	--	--	27000	--	--	19400	--	--	--	12300	--	10800	--	--	5000	--
OU2MW-47S	5 - 15	36200	--	46000	--	--	49200	--	--	--	29000	--	25500	--	--	--	37900	--	--	36300	--	--	39900	--	--	5000	--
OU2MW-47I	20 - 25	59500 D	--	57000 D	--	--	55100 D	--	--	--	19900	--	8670	--	--	--	60100 D	--	--	48500	--	--	25400	--	--	5000	--
OU2MW-47I2	40 - 45	17700	--	17800	--	--	20700	--	--	--	13100	--	6780	--	--	--	12700	--	--	14000	--	--	20400	--	--	5000	--
OU2MW-47D	60 - 65	39000	--	40900	--	--	33600	--	--	--	31500	--	40300	--	--	--	30300	--	--	22700	--	--	32400	--	--	5000	--
OU2MW-52S	3 - 8	--	8840	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	20 - 25	--	20800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	35 - 40	--	6020	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53S	3 - 8	--	10700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20 - 25	--	23300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35 - 40	--	37300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5 - 15	--	40200	--	--	40600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	25 - 30	--	16900	--	--	16900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40 - 45	--	18000	--	--	19900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60 - 65	--	23600	--	--	25900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	5 - 15	--	25300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30 - 35	--	13700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50 - 55	--	30300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65 - 70	--	20200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	5 - 15	--	21200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	25 - 30	--	58500 D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	45 - 50	--	22500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	65 - 70	--	24300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No. 3 (OU-3)																											
MW-64	19 - 24	--	--	--	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2 - 12	--	--	--	--	--	--	--	38600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25 - 30	--	--	--	--	--	--	--	5000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No.4 (OU-4)																											
WCMW-01S	2 - 12	--	--	--	**1100000 D**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35 - 45	--	--	--	34700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64 - 74	--	--	--	147000 D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3 - 13	--	--	--	12200	--	--	--	19600	19800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	--	--	136000 D	--	--	--	135000 D	5000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02D	62 - 72	--	--	--	5000 U	--	--	--	5000 U	96200 D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2010		2011												2012									2013		
		Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Jul-11	Aug-11	Sep-11	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Apr-13	May-13	Jun-13
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--	229000 D	--	--	47400	34200	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19 - 24	--	--	--	--	--	--	--	--	--	--	87500 D	--	--	13100	12800	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I2	29.85 - 34.85	--	--	--	--	--	--	--	--	--	--	234000 D	--	--	36800	26600	--	--	--	--	--	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	--	--	--	--	--	--	--	--	--	--	**524000 D**	--	--	**306000 D**	231000	--	--	--	--	69200 D	--	--	26300	--	--	20700
WCMW-05I	19.61 - 24.61	--	--	--	--	--	--	--	--	--	--	12700	--	--	11500	13800	--	--	--	--	5180	--	--	5000 U	--	--	9730
WCMW-05I2	29.46 - 34.46	--	--	--	--	--	--	--	--	--	--	137000 D	--	--	19600	16300	--	--	--	--	28000	--	--	14000	--	--	16300
WCMW-06S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5 - 15	--	--	--	--	--	--	--	--	--	--	59800 D	--	--	--	88700	--	--	--	--	52200 D	--	--	59900 D	--	--	55700 D
WCMW-11I	25 - 30	--	--	--	--	--	--	--	--	--	--	36000	--	--	--	10100	--	--	--	--	9920	--	--	47800 D	--	--	74000 D
WCMW-11D	50 - 60	--	--	--	--	--	--	--	--	--	--	77600 D	--	--	--	48900	--	--	--	--	52700 D	--	--	52200 D	--	--	44200 D
WCMW-13S	3 - 13	--	--	--	20000	--	26200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13I	25 - 30	--	--	--	5000	--	5000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65 - 70	--	--	--	5000 U	--	5060	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2 - 12	--	--	--	5000 U	--	27100	--	--	96200 D	--	--	--	--	95000 D	37100	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I	20 - 25	--	--	--	5000 U	--	5000 U	--	--	5000 U	--	--	--	--	31400	68800	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I2	30 - 35	--	--	--	39600	--	42800	--	--	34400	--	--	--	--	34200	35600	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67 - 72	--	--	--	6160	--	6290	--	--	6630	--	--	--	--	7030	6260	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2 - 12	--	--	--	154000 D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20 - 25	--	--	--	20600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30 - 35	--	--	--	24600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2 - 12	--	--	--	21000	--	33800	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20 - 25	--	--	--	24900	--	29500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30 - 35	--	--	--	22000	--	18700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30 - 35	--	--	--	--	--	--	--	--	--	--	46700 D	--	--	41800	40900	--	--	--	--	35900	--	--	38000	--	27600	--
WCMW-25D	55 - 60	--	--	--	--	--	--	--	--	--	--	106000 D	--	--	120000 D	129000	--	--	--	--	83300 D	--	--	99400 D	--	86200 D	--
WCMW-30I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2013						2014												2015					
		Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15
Operable Unit No. 1 (OU-1)																									
BBMW-04D	63 - 73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-05D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06D	66 - 76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-08D	65 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17S	5.5 - 15.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17I	30.5 - 40.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19I	29.6 - 39.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19D	64.75 - 74.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5 - 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05D	35.5 - 45.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08D	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	63 - 68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17D	53 - 63	39900	--	--	--	53300 D	--	--	30200	--	--	26200	--	--	28000	--	18900	--	--	24500	--	--	12100	--	--
OZMW-18S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18D	55 - 65	11700	--	--	--	102000 D	--	--	109000 D	--	--	57400 D	--	--	63800 D	--	89300	--	--	86100 D	--	--	97800 D	--	--

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Well ID	Screen Interval (feet bgs)	2013						2014												2015					
		Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15
OZMW-19S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22SR	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22IR	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24D	55 - 65	**516000**	--	--	--	**413000 D**	--	--	**454000 D**	--	--	**384000 D**	--	--	**384000 D**	--	**444000**	--	--	--	**493000 D**	--	--	**422000 D**	--
OZMW-25S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No. 2 (OU-2)																									
BBMW-01S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01D	68.5 - 78.5	46100	--	--	48900	--	--	--	--	44100	--	40700	--	--	169000 D	--	38100	--	--	--	--	33800	--	34700	--
BBMW-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02D	73 - 83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03D	52 - 62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23I	33 - 43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23D	49.5 - 59.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24D	59.5 - 69.5	**334000 D**	--	--	--	--	--	--	**300000 D**	--	**278000 D**	--	--	--	--	213000 D	196000	--	--	--	--	212000 D	--	205000 D	--
BBMW-25S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25I	25 - 35	--	--	--	19000	--	--	18000	--	--	--	--	--	12400	--	--	10800	--	--	11900	--	--	--	--	--
BBMW-25D	62 - 72	--	--	--	16900	--	--	17400	--	--	--	--	--	35600	--	--	45400	--	--	43100 D	--	--	49900	--	--
GM-05S	5.1 - 20.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05I	35.05 - 48.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05D	60.95 - 75.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-04	15.5 - 20.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04D	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2IW-01S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35 - 40	--	--	--	--	--	--	--	--	--	29700	--	--	--	--	--	20200	--	--	26600	--	--	26700	--	--
OU2MW-01I2	50 - 55	--	--	--	--	--	--	--	--	--	121000 D	--	--	--	--	--	123000	--	--	137000 D	--	--	65000 D	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
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Well ID	Screen Interval (feet bgs)	2013						2014											2015					
		Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15
OU2MW-01D	65 - 70	--	--	--	--	--	--	--	--	--	6430	--	--	--	--	--	7500	--	--	8550	--	--	7000	--	--
OU2MW-02S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	35 - 40	--	--	--	--	24600	--	--	28300	--	--	34300	--	--	--	35800	30800	--	--	--	--	38000	--	--	22300
OU2MW-02I2	50 - 55	--	--	82000 D	--	154000	--	--	211000 D	--	--	9570	--	--	--	**301000 D**	47600	--	--	--	--	**348000 D**	--	--	195000 D
OU2MW-02D	65 - 70	--	--	6860	--	6210	--	--	6870	--	--	6650	--	--	--	8530	7100	--	--	--	--	7960	--	--	6650
OU2MW-03S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20 - 25	--	--	43500	--	--	--	--	--	56800 D	--	--	--	--	--	21300	13400	--	--	--	--	30100	--	--	13400
OU2MW-04I	35 - 40	--	--	21900	--	--	--	--	--	48400	--	33100	--	--	--	70200 D	57800	--	--	--	--	65800 D	--	--	36700
OU2MW-04I2	50 - 55	--	--	7110	--	--	--	--	--	7890	--	48500	--	--	--	28200	27500	--	--	--	--	106000 D	--	--	89400 D
OU2MW-04D	65 - 70	--	--	5730	--	--	--	--	--	5580	--	9240	--	--	--	6760	5510	--	--	--	--	7390	--	--	5570
OU2MW-05	25 - 35	--	--	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-06S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11700	--	--
OU2MW-06	15 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	33400	--	--
OU2MW-07S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14000	--	--	--	--	--	--	--	--
OU2MW-08I	35 - 40	--	--	--	--	--	--	--	--	--	13500	--	--	--	8260	--	5000 U	--	--	--	5410	--	--	--	--
OU2MW-08I2	50 - 55	--	--	--	--	--	--	--	--	--	104000 D	--	--	--	149000 D	--	105000	--	--	--	98800 D	--	--	--	119000 D
OU2MW-08D	65 - 70	--	--	--	--	--	--	--	--	--	6600	--	--	--	6750	--	5960	--	--	--	--	--	--	--	--
OU2MW-09	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3 - 7	--	--	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3 - 7	14900	--	--	--	--	--	--	8990	--	--	13700	--	--	12400	--	19400	--	--	--	--	12900	--	10200	--
OU2MW-12I	20 - 25	46300	--	--	--	--	--	--	75100 D	--	--	49500	--	--	48800	--	49500	--	--	--	--	31700	--	46100	--
OU2MW-12I2	30 - 35	37400	--	--	--	--	--	--	49200	--	--	63000 D	--	--	234000 D	--	48400	--	--	--	--	47600	--	37900	--
OU2MW-12D	40 - 45	5710	--	--	--	--	--	--	14500	--	--	6890	--	--	26900	--	49800	--	--	--	--	42100	--	54700 D	--
OU2MW-13S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17S	5 - 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	65 - 70	70500	--	--	47400	--	--	59600 D	--	--	--	45000	--	--	34900	--	34700	--	--	34100 J	--	--	--	41400	--
OU2MW-20S	4 - 9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Well ID	Screen Interval (feet bgs)	2013						2014												2015					
		Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15
OU2MW-22I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65 - 70	--	50400	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62 - 67	--	62100	--	--	--	--	--	--	38700	--	--	--	--	--	36600	34400	--	--	36300 J	--	--	--	41100	--
OU2MW-25S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6 - 11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	49800	--	--	--	45100 J	--	35900 D	--
OU2MW-27S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65 - 70	--	102000 D	--	--	--	65400 D	--	--	72400	--	--	--	--	--	55000 D	--	54900 D	--	--	--	60100	--	--	44100
OU2MW-28S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28 - 33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	18600	--	12300	--	--	--	15400	--	--	--	--
OU2MW-29I	18 - 23	--	--	--	--	--	--	--	--	--	119000 D	--	--	--	37100	--	--	19700	--	--	20700	--	--	--	--
OU2MW-29I2	30 - 35	--	66900 D	--	58200 D	--	--	--	41000	--	37700	--	--	--	17800	--	--	19600	--	--	22200	--	--	--	--
OU2MW-29D	45 - 50	--	100000 D	--	136000 D	--	--	--	123000	--	181000 D	--	--	--	57200 D	--	--	47700	--	--	46400	--	59800 D	--	--
OU2MW-30S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5000 U	--	--	--	--	--
OU2MW-30I3	45 - 50	--	28100	--	--	30600	--	--	36300	--	30700	--	--	--	--	--	29900	--	--	24900 J	--	--	27700	--	--
OU2MW-30D	50 - 55	--	67400 D	--	--	71200 D	--	--	67900	--	11100	--	--	43900	--	--	44300	--	--	31500 J	--	--	38000	--	--
OU2MW-30D2	60 - 65	--	**273000 D**	--	--	**377000 D**	--	--	**411000**	--	23900	--	--	**516000 D**	--	--	**473000 D**	--	--	**445000 J**	--	--	**584000 D**	--	--
OU2MW-31I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35D	57 - 62	--	114000 D	--	--	68700 D	--	--	--	101000	--	--	--	--	--	55200 D	49000	--	--	--	--	92300	--	97800 D	--
OU2MW-36S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61 - 66	--	38000	--	--	--	--	--	--	31700	--	31800	--	--	--	34600	31500	--	--	--	46700 J	--	--	--	37400
OU2MW-37S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37D	67 - 72	--	78900	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56 - 61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	70 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	55.0 D	--	46500	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
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Well ID	Screen Interval (feet bgs)	2013						2014												2015					
		Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15
OU2MW-42S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42D	60 - 65	--	**262000 D**	--	--	**384000 D**	--	--	--	**463000**	--	34500	--	--	--	241000 D	215000 D	--	--	--	**265000 J**		--	**299000 D**	--
OU2MW-43S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43D	65 - 70	--	231000 D	--	--	223000 D	--	--	--	**267000**	--	174000 D	--	--	--	123000 D	81100 D	--	--	--	--	153000	--	180000 D	--
OU2MW-44S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45D	55 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40 - 45	--	16500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	60 - 65	--	21000	--	33500	--	--	--	--	--	--	--	--	--	--	--	15200	--	--	--	23800	--	14800	--	--
OU2MW-52S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5000 U	--
OU2MW-52I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	66300 D	--
OU2MW-52D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	48200	--
OU2MW-53S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	48500	--
OU2MW-56S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16900
OU2MW-56I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	24000
OU2MW-56I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21100
OU2MW-56D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21000
Operable Unit No. 3 (OU-3)																									
MW-64	19 - 24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No.4 (OU-4)																									
WCMW-01S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Well ID	Screen Interval (feet bgs)	2013						2014												2015					
		Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15	Feb-15	Mar-15	Apr-15	May-15	Jun-15
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19 - 24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I2	29.85 - 34.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	--	15400										--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-05I	19.61 - 24.61	--	5000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-05I2	29.46 - 34.46	--	16100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5 - 15	--	32000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11I	25 - 30	--	5000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11D	50 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20 - 25	--	5000 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30 - 35	--	18700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2015						2016												2017					
		Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
Operable Unit No. 1 (OU-1)																									
BBMW-04D	63 - 73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-05D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06D	66 - 76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-08D	65 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17S	5.5 - 15.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17I	30.5 - 40.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19I	29.6 - 39.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19D	64.75 - 74.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5 - 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05D	35.5 - 45.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08D	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	63 - 68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17D	53 - 63	43900	--	--	22800	--	--	33300	--	--	33900	--	--	39400	--	--	--	45000	--	--	45700	--	--	43200	--
OZMW-18S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18D	55 - 65	114000	--	--	97100	--	--	65900	--	--	67400	--	--	77700	--	--	--	16200	--	--	79000	--	--	75200	--

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Well ID	Screen Interval (feet bgs)	2015						2016												2017					
		Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
OZMW-19S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22SR	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22IR	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I2	35 - 45	12700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24D	55 - 65	**457000**	**--**	**--**	**--**	**322000**	**--**	**--**	**329000**	**--**	**--**	**276000**	**--**	**291000**	**--**	**--**	**--**	**--**	**--**	**291000**	**--**	**--**	211000	**--**	**--**
OZMW-25S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No. 2 (OU-2)																									
BBMW-01S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01D	68.5 - 78.5	74600	--	--	--	44100	--	--	--	34200	--	35200	--	--	70800	--	--	--	41200	--	39500	--	--	--	--
BBMW-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02D	73 - 83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03D	52 - 62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23I	33 - 43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23D	49.5 - 59.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24D	59.5 - 69.5	34400	--	--	--	146000	--	--	202000	--	--	134000	--	--	142000	--	--	116000	--	--	121000	--	--	138000	--
BBMW-25S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25I	25 - 35	--	5290	--	5810	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25D	62 - 72	--	91400	--	45300	--	--	48600	--	--	--	49200	--	49600	--	--	--	91000	--	--	41300	--	--	20500	--
GM-05S	5.1 - 20.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05I	35.05 - 48.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05D	60.95 - 75.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-04	15.5 - 20.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04D	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2IW-01S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35 - 40	--	19300	--	10900	--	--	14100	--	--	--	11000	--	8080	--	--	--	8400	--	--	8100	--	--	--	--
OU2MW-01I2	50 - 55	--	--	159000	**269000**	--	--	**306000**	--	--	--	162000	--	--	--	199000	--	201000	--	--	223000	--	--	190000	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
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National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2015						2016												2017					
		Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
OU2MW-01D	65 - 70	--	--	6720	9750	--	--	6610	--	--	--	10100	--	--	--	6480	--	8500	--	--	13900	--	--	--	--
OU2MW-02S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	35 - 40	--	--	29500	--	19900	--	--	--	36900	--	29500	--	21800	--	--	--	--	25600	20700	--	--	--	23300	--
OU2MW-02I2	50 - 55	--	--	**279000**	--	**443000**	--	--	--	**585000**	--	**415000**	--	**616000**	--	--	--	--	**429000**	**456000**	--	--	--	**441000**	--
OU2MW-02D	65 - 70	--	--	8230	--	6740	--	--	--	8560	--	13400	--	6540	--	--	--	--	8100	26900	--	--	--	7500	--
OU2MW-03S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20 - 25	--	--	13300	--	18200	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I	35 - 40	--	--	33200	--	49500	--	--	--	76000	--	39900	--	--	43700	--	--	--	20600	--	--	12100	--	45200	--
OU2MW-04I2	50 - 55	--	--	81600	--	65200	--	--	--	80600	--	92000	--	--	53900	--	--	--	62300	--	--	82900	--	--	--
OU2MW-04D	65 - 70	--	--	7430	--	6160	--	--	--	7290	--	6650	--	--	5960	--	--	--	5600	--	--	6500	--	--	--
OU2MW-05	25 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35 - 40	0	--	--	--	--	12700	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I2	50 - 55	111000	--	--	--	--	72900	--	107000	--	--	97300	--	--	66200	--	--	--	47500	--	--	--	--	--	--
OU2MW-08D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3 - 7	15500	--	--	19300	--	--	--	--	12000	--	11700	--	24800	--	--	--	--	20300	16400	--	--	--	18700	--
OU2MW-12I	20 - 25	20100	--	--	44500	--	--	--	--	45900	--	35400	--	30800	--	--	--	--	20600	17200	--	--	--	9200	--
OU2MW-12I2	30 - 35	35000	--	--	23100	--	--	--	--	49300	--	47300	--	16300	--	--	--	--	33500	31300	--	--	--	29300	--
OU2MW-12D	40 - 45	11300	--	--	12700	--	--	--	--	81900	--	42300	--	8830	--	--	--	--	93700	53700	--	--	--	51600	--
OU2MW-13S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17S	5 - 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	65 - 70	42800	--	--	40900	--	--	--	--	76800	--	64200	--	80600	--	--	--	--	65500	64000	--	--	--	50700	--
OU2MW-20S	4 - 9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Well ID	Screen Interval (feet bgs)	2015						2016												2017					
		Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
OU2MW-22I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45 - 50	--	--	--	--	--	--	--	--	23800	--	17800	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62 - 67	175000	--	--	36200	--	--	--	--	45000	--	35900	--	--	37700	--	--	--	--	--	--	--	--	--	--
OU2MW-25S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6 - 11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60 - 70	--	35600	--	--	36500	--	--	--	44000	--	--	--	--	48700	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65 - 70	--	42300	--	--	29100	--	--	--	32900	--	--	--	--	14400	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28 - 33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40 - 45	--	18200	--	--	--	25500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18 - 23	--	41600	--	--	--	16500	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29D	45 - 50	--	39800	--	--	--	49400	--	42700	--	--	43300	--	--	45200	--	--	--	56500	--	--	--	--	--	--
OU2MW-30S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45 - 50	27000	--	--	--	--	18500	--	13900	--	--	17700	--	32000	--	--	--	25000	--	--	22500	--	21800	--	--
OU2MW-30D	50 - 55	31400	--	--	--	--	32300	--	**480000**	--	--	35000	--	42300	--	--	--	49000	--	--	45100	--	37700	--	--
OU2MW-30D2	60 - 65	**578000**	--	--	--	--	**389000**	--	37600	--	--	**366000**	--	**345000**	--	--	--	**294000**	--	--	**255000**	--	186000	--	--
OU2MW-31I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35D	57 - 62	77700	--	--	--	46200	--	--	--	87400	--	76500	--	--	66300	--	--	--	79500	--	--	--	--	--	--
OU2MW-36S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61 - 66	38200	--	--	--	37300	--	--	--	46200	--	41200	--	--	46000	--	--	--	49700	--	--	--	--	--	--
OU2MW-37S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37D	67 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56 - 61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	70 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2015						2016												2017					
		Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
OU2MW-42S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45 - 50	--	--	--	--	--	--	--	25100	--	--	26000	--	--	31300	--	--	28600	--	--	35600	--	--	--	--
OU2MW-42D	60 - 65	250000	--	--	--	**255000**	--	--	**346000**	--	--	35800	--	--	241000	--	--	223000	--	--	197000	--	--	--	--
OU2MW-43S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43D	65 - 70	--	146000	--	--	125000	--	--	--	219000	--	121000	--	--	149000	--	--	--	134000	125000	--	--	--	--	--
OU2MW-44S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45D	55 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	60 - 65	11900	--	--	7990	--	--	8650	--	--	--	49600	--	49800	--	--	--	34700	--	--	16000	--	33200	--	--
OU2MW-52S	3 - 8	--	16100	--	12900	--	--	--	--	6260	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	20 - 25	--	45900	--	37200	--	--	--	--	52100	--	49200	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	35 - 40	--	28800	--	23300	--	--	--	--	46100	--	19800	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65 - 70	--	37600	--	--	28700	--	--	--	38100	--	30800	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No. 3 (OU-3)																									
MW-64	19 - 24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No.4 (OU-4)																									
WCMW-01S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Well ID	Screen Interval (feet bgs)	2015						2016												2017					
		Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19 - 24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I2	29.85 - 34.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-05I	19.61 - 24.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-05I2	29.46 - 34.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11D	50 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2017						2018												2019					
		Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
Operable Unit No. 1 (OU-1)																									
BBMW-04D	63 - 73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-05D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06D	66 - 76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-08D	65 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17S	5.5 - 15.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17I	30.5 - 40.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19I	29.6 - 39.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19D	64.75 - 74.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5 - 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05D	35.5 - 45.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08D	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	63 - 68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17D	53 - 63	--	43800	--	51400	--	--	39200	--	--	--	29100	--	34000	--	--	43300	--	--	34800	--	--	--	29900	--
OZMW-18S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18D	55 - 65	--	--	--	63800	--	--	--	66900	--	--	76200	--	57700	--	--	55400	--	--	57300	--	--	--	33200	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2017						2018												2019					
		Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
OZMW-19S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22SR	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22IR	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24D	55 - 65	--	236000	--	236000	--	--	176000	--	--	187000	--	--	153000	--	--	164000	--	--	141000	--	--	--	118000	--
OZMW-25S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No. 2 (OU-2)																									
BBMW-01S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01D	68.5 - 78.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02D	73 - 83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03D	52 - 62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23I	33 - 43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23D	49.5 - 59.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24D	59.5 - 69.5	--	133000	--	131000	--	--	--	131000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25I	25 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25D	62 - 72	--	30200	--	--	38400	--	--	55500	--	--	41300	--	--	22700	--	--	24600	--	--	29000	--	--	32400	--
GM-05S	5.1 - 20.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05I	35.05 - 48.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05D	60.95 - 75.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-04	15.5 - 20.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04D	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2IW-01S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I2	50 - 55	--	--	152000	--	135000	--	--	148000	--	--	154000	--	--	--	--	--	115000	--	--	76000	--	--	121000	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2017						2018												2019					
		Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
OU2MW-01D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	35 - 40	--	24800	--	--	27700	--	--	33000	--	--	41100	--	--	31200	--	--	21400	--	--	34800	--	--	28200	--
OU2MW-02I2	50 - 55	--	**514000**	--	--	**347000**	--	--	**419000**	--	--	**342000**	--	--	**273000**	--	--	247000	--	--	149000	--	--	65900	--
OU2MW-02D	65 - 70	--	8400	--	--	7800	--	--	6500	--	--	6500	--	--	5100	--	--	7400	--	--	6700	--	--	6700	--
OU2MW-03S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3 - 7	--	39000	--	40800	--	--	--	--	18200	--	--	19000	--	10900	--	20200	--	--	--	13300	--	--	10700	--
OU2MW-12I	20 - 25	--	8400	--	4500	--	--	--	--	23200	--	--	7200	--	6100	--	19800	--	--	--	5000	--	--	7600	--
OU2MW-12I2	30 - 35	--	47900	--	35300	--	--	--	--	11200	--	--	14100	--	21300	--	25800	--	--	--	16700	--	--	13100	--
OU2MW-12D	40 - 45	--	47300	--	66400	--	--	--	--	8600	--	--	7900	--	4900	--	14200	--	--	--	5500	--	--	8600	--
OU2MW-13S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17S	5 - 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	65 - 70	--	--	20300	28100	--	--	--	38600	--	--	--	37200	--	35500	--	--	34800	--	31300	--	--	--	25500	--
OU2MW-20S	4 - 9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2017						2018												2019					
		Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
OU2MW-22I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62 - 67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6 - 11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28 - 33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29D	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45 - 50	--	22800	--	--	26300	--	--	23400	--	33000	--	--	27100	--	--	--	33500	--	--	21700	--	22700	--	--
OU2MW-30D	50 - 55	--	45400	--	--	49700	--	--	37900	--	32700	--	--	33600	--	--	--	41100	--	--	35700	--	34000	--	--
OU2MW-30D2	60 - 65	--	232000	--	--	205000	--	--	178000	--	192000	--	--	208000	--	--	--	219000	--	--	214000	--	213000	--	--
OU2MW-31I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35D	57 - 62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61 - 66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37D	67 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56 - 61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	70 - 75	--	--	--	--	--	--	--	--	47000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2017						2018												2019					
		Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
OU2MW-42S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45 - 50	--	--	--	--	--	--	--	--	--	--	11200	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42D	60 - 65	--	132000	--	--	69200	--	--	--	74500	--	87000	--	--	82400	--	--	127000	--	131000	--	--	--	145000	--
OU2MW-43S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43D	65 - 70	--	--	100000	112000	--	--	--	--	169000	--	--	201000	--	143000	--	--	140000	--	--	150000	--	--	179000	--
OU2MW-44S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45D	55 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	60 - 65	--	46600	--	38600	--	--	--	24800	--	--	29000	--	--	27800	--	--	24500	--	--	23200	--	26000	--	--
OU2MW-52S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No. 3 (OU-3)																									
MW-64	19 - 24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No.4 (OU-4)																									
WCMW-01S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2017						2018												2019					
		Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19 - 24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I2	29.85 - 34.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-05I	19.61 - 24.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-05I2	29.46 - 34.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11D	50 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Well ID	Screen Interval (feet bgs)	2019						2020												2021					
		Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
Operable Unit No. 1 (OU-1)																									
BBMW-04D	63 - 73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-05D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-06D	66 - 76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-08D	65 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17S	5.5 - 15.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-17I	30.5 - 40.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-18D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19I	29.6 - 39.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-19D	64.75 - 74.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5 - 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05D	35.5 - 45.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08D	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	63 - 68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17D	53 - 63	38200	--	--	27100	--	--	26600	--	--	--	--	--	--	32000	--	--	33700	--	27700	--	--	34300	--	--
OZMW-18S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18D	55 - 65	35600	--	--	36400	--	--	34500	--	--	--	--	--	--	37700	--	--	37500	--	39800	--	--	35900	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2019						2020												2021					
		Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
OZMW-19S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-19D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22SR	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22IR	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24D	55 - 65	117000	--	--	104000	--	--	72900	--	--	--	--	--	--	97600	--	--	--	148000	80100	--	--	--	72900	--
OZMW-25S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No. 2 (OU-2)																									
BBMW-01S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01D	68.5 - 78.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02D	73 - 83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03D	52 - 62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07D	55 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23I	33 - 43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23D	49.5 - 59.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24I	32 - 42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24D	59.5 - 69.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25I	25 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-25D	62 - 72	24600	--	--	--	31600	--	22400	--	--	--	--	--	--	13000	--	--	--	8700	--	8000	--	--	9100	--
GM-05S	5.1 - 20.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05I	35.05 - 48.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05D	60.95 - 75.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-04	15.5 - 20.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04S	4 - 14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04D	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2IW-01S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I2	50 - 55	5700	--	--	--	105000	--	86400	--	--	--	--	--	--	--	--	--	--	66800	--	--	--	--	--	--

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Well ID	Screen Interval (feet bgs)	2019						2020												2021					
		Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
OU2MW-01D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	35 - 40	21500	--	--	--	33700	--	48900	--	--	--	--	--	--	36300	--	--	--	34600	--	71300	--	--	68900	--
OU2MW-02I2	50 - 55	59800 J	--	--	--	111000	--	96800	--	--	--	--	--	--	--	--	--	--	**255000**	--	154000	--	--	86300	--
OU2MW-02D	65 - 70	5400 J	--	--	--	6300	--	6800	--	--	--	--	--	--	--	--	--	--	10800	--	5800	--	--	5300	--
OU2MW-03S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3 - 7	--	7100	--	--	8100	--	10900	--	--	--	--	--	--	12000	--	--	9200	--	--	10900	--	11000	--	--
OU2MW-12I	20 - 25	--	2800 J	--	--	3800 J	--	2500 J	--	--	--	--	--	--	2400 J	--	--	4700	--	--	4400	--	4900	--	--
OU2MW-12I2	30 - 35	--	7900	--	--	5600	--	6200	--	--	--	--	--	--	10000	--	--	0	--	--	4700	--	8800	--	--
OU2MW-12D	40 - 45	--	10200	--	--	28900	--	15700	--	--	--	--	--	--	10400	--	--	4800	--	--	6600	--	12600	--	--
OU2MW-13S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17S	5 - 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	65 - 70	37000	--	--	--	31000	--	46100	--	--	--	--	--	--	89400	--	--	--	93900	93600	--	--	149000	--	--
OU2MW-20S	4 - 9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2019						2020												2021					
		Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
OU2MW-22I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62 - 67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6 - 11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28 - 33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29D	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45 - 50	29100	--	--	--	50200	--	15000	--	--	--	--	--	--	17500	--	--	--	20400	--	17300	--	--	--	15800
OU2MW-30D	50 - 55	36200	--	--	--	189000	--	44800	--	--	--	--	--	--	33600	--	--	--	36400	--	38300	--	--	--	41500
OU2MW-30D2	60 - 65	171000	--	--	--	188000	--	164000	--	--	--	--	--	--	188000	--	--	--	184000	--	169000	--	--	--	204000
OU2MW-31I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32D	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35D	57 - 62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61 - 66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37D	67 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56 - 61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	70 - 75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2019						2020												2021					
		Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
OU2MW-42S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42D	60 - 65	--	132000	--	--	172000	--	--	163000	--	--	--	--	--	164000	--	--	--	164000	--	145000	--	11300	--	--
OU2MW-43S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43D	65 - 70	--	165000	--	--	119000	--	--	160000	--	--	--	--	--	174000	--	--	186000	--	--	167000	--	177000	--	--
OU2MW-44S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45D	55 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	60 - 65	26700 J	--	--	--	26900	--	--	24500	--	--	--	--	--	37800	--	--	34800	--	--	28900	--	--	--	34900
OU2MW-52S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53S	3 - 8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60 - 65	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No. 3 (OU-3)																									
MW-64	19 - 24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No.4 (OU-4)																									
WCMW-01S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64 - 74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02D	62 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix G. Summary of Sulfate Concentrations (µg/L)
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site

Well ID	Screen Interval (feet bgs)	2019						2020												2021					
		Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19 - 24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I2	29.85 - 34.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-05I	19.61 - 24.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-05I2	29.46 - 34.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15 - 20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11D	50 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67 - 72	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55 - 60	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:

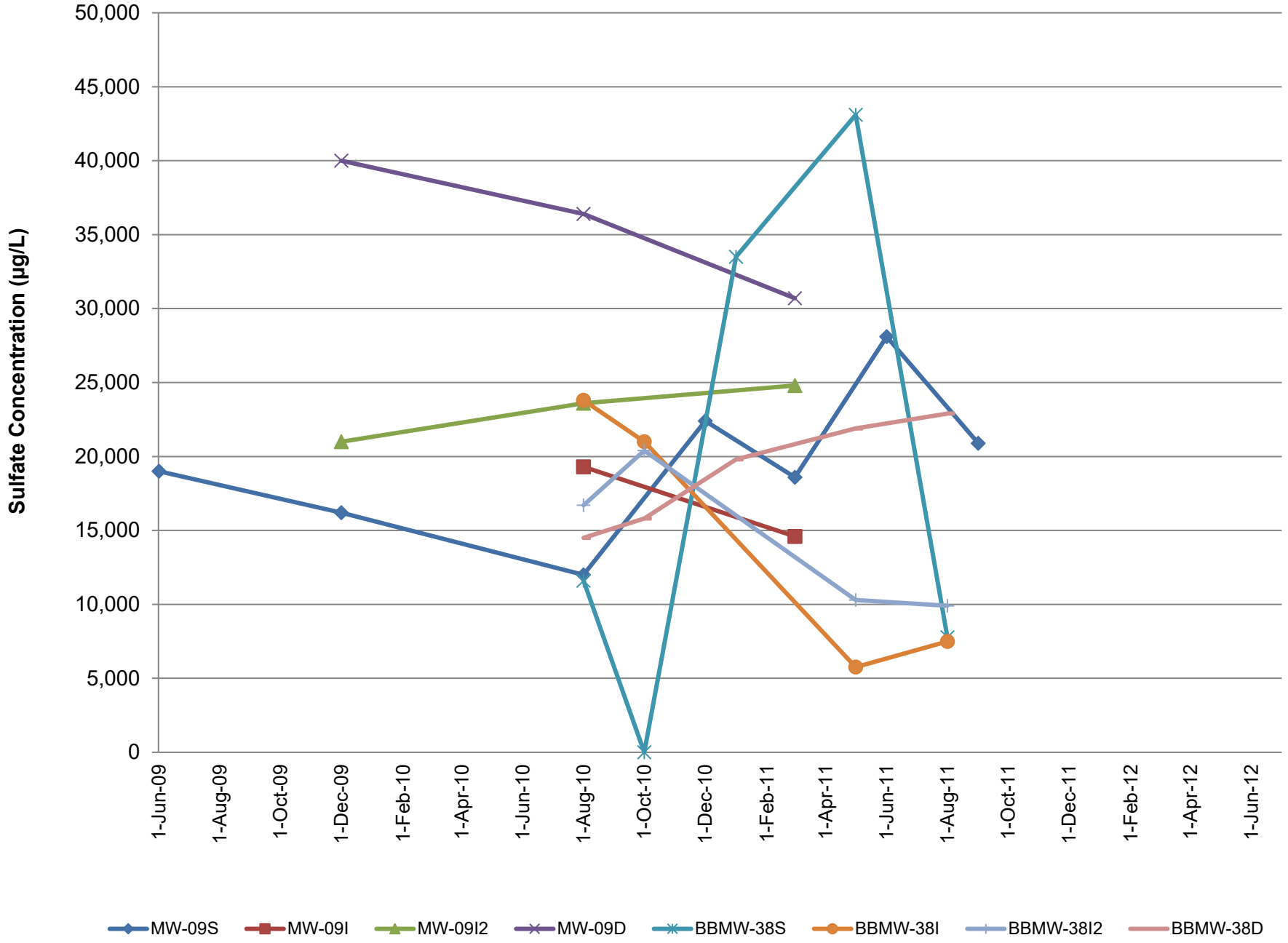
Values shown in micrograms per liter (µg/L) or parts per billion (ppb)

NYS AWQS - New York State Ambient Water Quality Standards and Guidance Values for GA groundwater

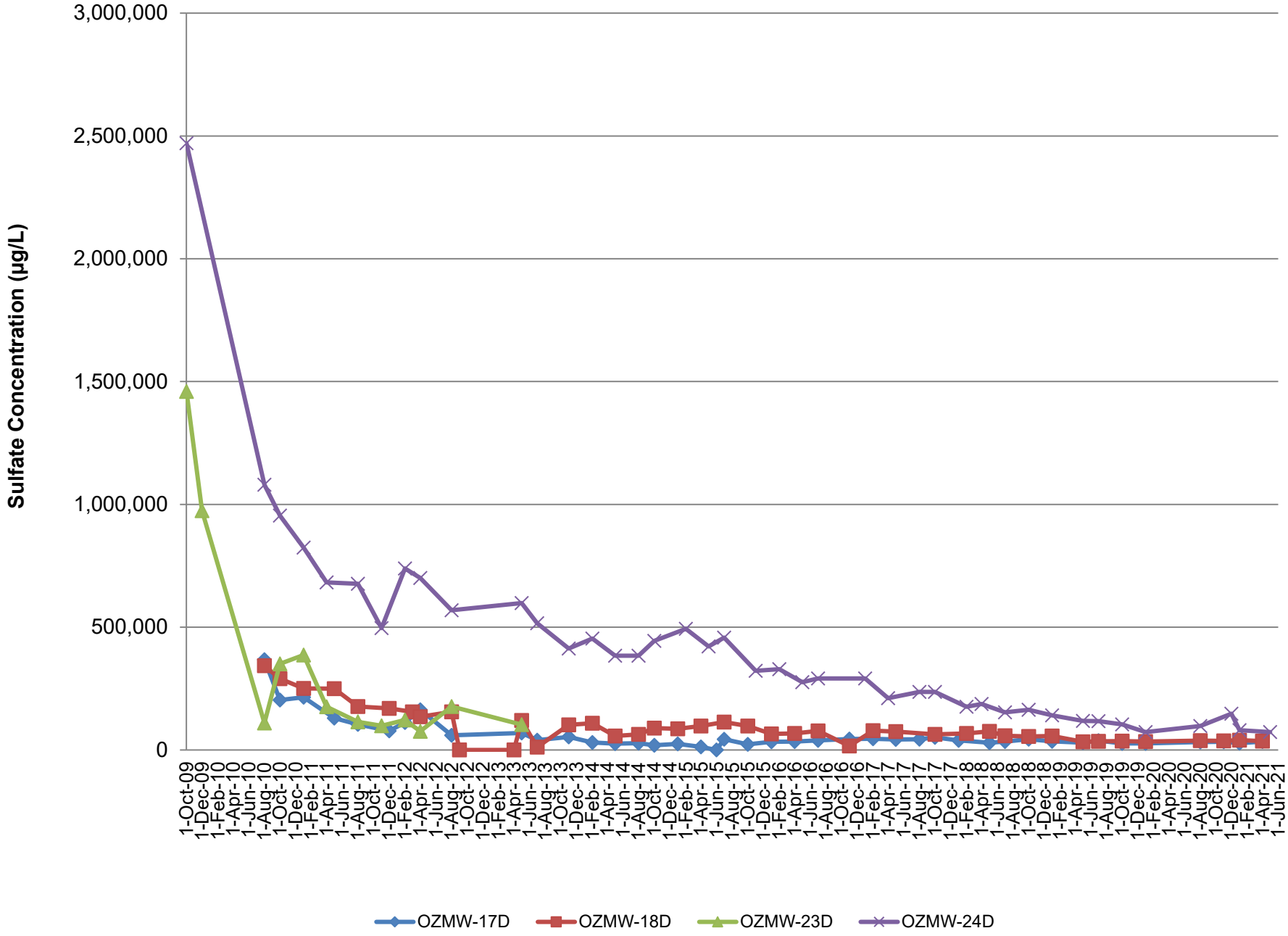
Shading and bolding indicates that the detected result value exceeds the New York State Ambient Water Quality Standards and Guidance Values for GA groundwater for sulfate (250,000 µg/L)

-- not analyzed

Appendix G - Graph G-1 - Background Sulfate Concentrations
OU-1 Wells Upgradient of In-Situ Remedial Action



Appendix G - Graph G-2 - Sulfate Concentrations
OU-1 Wells Above AWQS Criteria (250,000 µg/L)



Appendix G - Graph G-3 - Sulfate Concentrations
OU-2 Wells Above AWQS Criteria (250,000 µg/L)