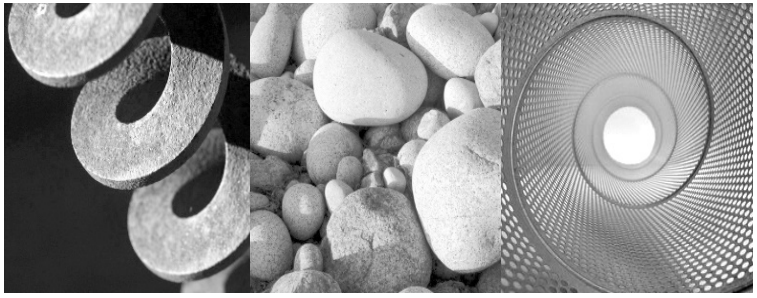

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2019/2020 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Bay Shore/Brightwaters Former MGP Site

Town of Islip
NYSDEC Consent Index No. D1-0001-98-11

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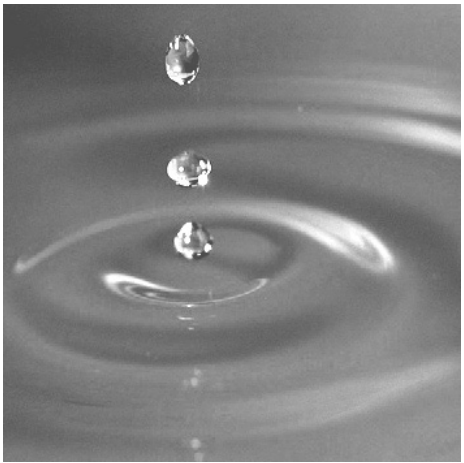

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Executive Summary

This report presents the 2019/2020 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 Third Quarter (Q3) 2019 through (Q3) 2020. The period for this report was expanded to include 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), gauged during the current annual monitoring period (Q3 2019 through Q3 2020). No LNAPL was observed in OZMW-21S in Q3 and Fourth Quarter (Q4) 2019 and ranged up to 0.21 feet in Q3 2020. 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 past year at a maximum thickness of over 7 feet at BBRW-02. DNAPL thicknesses in wells with measurable quantities

have varied during the past year, but the average thickness has remained similar to the previous year. DNAPL has historically been gauged and recovered from OU-1 since Q1 2006. Over the past year, approximately 20 gallons of DNAPL were recovered 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 will be 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 in reducing the COCs in groundwater, as discussed below.

Concentrations of COCs in groundwater in OU-1, OU-2, and OU-3 have been significantly reduced since the implementation of remedial activities. The groundwater treatment systems have been effective at 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, including ORC-A injection in OU-3 in Q4 2019.

As a result of the remedial efforts 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. The Manatuck Lane portion of the Garner Lane oxygen injection system was shut down with NYSDEC approval in May 2019. Groundwater monitoring wells in the vicinity are being monitored quarterly for potential rebound in groundwater concentrations. The shutdown of an additional system (9 North Clinton Avenue) is currently pending NYSDEC approval.

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 Q3 2020 groundwater elevations are lower than the average groundwater levels measured over the past 10 years; however, the measurements were collected at a different time of year.

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 the current annual sampling event (Q3 2020) in OU-1 downgradient of the barrier wall or the oxygen injection system at the downgradient edge of OU-1, are limited to two wells in the deep zone. Similarly, exceedances of the AWQS downgradient of the sheeting cells in the LIRR ROW in OU-3 in the current annual event (Q3 2020) were limited to one intermediate well. There were no exceedances of the AWQS during the current annual sampling event (Q3 2020) in downgradient areas of 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 virtually eliminated the plume (concentrations greater than 100 µg/L) in the shallow zone and intermediate zones. The intermediate zone reductions are particularly notable, considering the length of the historical plume (~2,700 feet). Remaining impacts (>100 µg/L) in OU-2 have been limited to the area immediately south of the barrier wall. These impacts are primarily located within the deep zone of the aquifer. Shallow impacts are also currently present in one well downgradient of the barrier wall (BTEX only); however, the impacts in this well have decreased significantly. Higher level detections in this well are noted periodically and likely directly correlate to periods of higher groundwater elevations. These higher-level detections are typically followed by a decreasing trend. In the deep zone immediately downgradient of the barrier wall, elevated concentrations, consisting primarily of total PAHs have persisted. The pattern of detections in these wells are marked by intermittent increases; however, the overall trend is decreasing. Farther downgradient, decreasing trends continue to be evident in wells with current or historical concentrations above 100 µg/L. 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 2020 annual sampling event (Q3), the 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. No impacts currently remain downgradient of the LIRR ROW. 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. Intermediate impacts, which were evident in the area of the LIRR ROW following the remedial excavations, have decreased several orders of magnitude in recent sampling events and were only present in one monitoring well during the annual sampling event in Q3 2020. Impacts are also currently present in one 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. The impacts within the temporary wells have decreased significantly since the period prior to injection. Intermediate impacts are no longer present downgradient of the LIRR ROW. These decreases followed the installation and operation of additional oxygen injection wells targeting the area.

In OU-4, the available groundwater data indicate decreasing concentration trends are evident in some shallow and intermediate zone wells; however, impacts above 100 µg/L have persisted in several intermediate wells screened outside or below the vertical excavation extent. Access restrictions have prevented 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 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 subsurface after the SVE system shutdown.
- Discontinuing of system related soil vapor sampling.

Current Oxygen Injection Systems

- Continue monthly system inspections.
- Continue bi-weekly system inspections.
- Conduct manufacturer recommended maintenance on the systems.
- Continue quarterly 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 (pending NYSDEC approval) 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.
- Continue to sample for sulfate at and downgradient of monitoring wells that have historically exceeded the AWQS criteria for Class GA groundwater. Evaluate the elimination of sulfate sampling if no additional exceedances are noted during the next annual monitoring period (Q4 2020 through Q3 2021).

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.

- Soil excavation as part of the construction of a new building on the Bay Shore West parcel has been largely completed. Additional soil management will be conducted in accordance with the Draft Site Management Plan as needed to support utility work.

Operable Unit 2

- Continue quarterly 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 (pending NYSDEC approval) 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 currently planned for the area in Spring 2021.

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 2019/2020 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 Third Quarter (Q3) 2019 through Q3 2020. The period for this report was expanded to include 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; however, annual sampling was conducted during Q3 2020 due to COVID-19 work restrictions imposed by New York State. No groundwater sampling was conducted at the site during Second Quarter (Q2 2020). Excluding samples related to the operation and maintenance of the ozone injection system, soil vapor sampling was eliminated. A groundwater monitoring well tracking summary is provided in **Appendix A** for the quarterly sampling events included in this report (Q3 2019 through Q3 2020).

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, and a portion of the third system has also been shut down. The shutdown of an additional system is currently under NYSDEC review and additional shutdowns will continue to be evaluated as warranted.

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).
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).

Date	OU-1 Remedial Activity	Comment
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).
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).

Date	OU-3 Remedial Activity	Comment
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 eight oxygen injection systems. The soil vapor extraction (SVE) system associated with the ozone injections 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. In addition, the Manatuck Lane portion of the Garner Lane oxygen injection system was shut down in May 2019. The recommended shut down of the 9 North Clinton Avenue system is currently under NYSDEC review. A description of each system, the quarter's 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)							
		Q4 18	Q1 19	Q2 19	Q3 19	Q4 19	Q1 20	Q2 20	Q3 20
BBRW-01R	30-60	0.2	0.5	0.95	0.65	0.66	0.64	NG	0.62
BBRW-02	58.2-78.2	6.21	5.8	5.39	7.5	5.10	4.91	NG	7.76
BBMW-05	64-74	NO	NO	NO	0.02	0.17	NO	NG	NO
BBRW-06	25-55	2.8	1.5	1.6	1.63	1.62	1.62	NG	1.54
BBRW-08	65-75	3.7	2.7	2.25	2.41	2.59	1.17	NG	2.14
BBRW-09	66-76	NO	NO	NO	NO	NO	NO	NG	NO
BBMW-22D	64-74	5.8	3.76	3.76	4.68	4.65	4.72	NG	4.61
BBMW-34I2	40-45	3.5	2.21	2.21	0.3	1.42	1.26	NG	1.28
BBMW-38I	25-30	1.8	0.81	0.81	1.27	1.39	1.68	NG	1.06
BBMW-38I2	40-45	1.8	1.05	1.05	0.7	1.02	1.27	NG	0.96
OZMW-21I	20-30	3.2	2	1.85	1.95	2.17	1.94	NG	1.94
OZMW-21D	55-60	3.1	2.6	2.4	2.8	3.09	2.97	NG	2.80
TG-29I2	55-65	NO	NO	NO	NO	NO	NO	NG	NO
TG-32I2	40-50	5.9	4.1	4.68	4.78	5.15	4.70	NG	4.51
TG-32D	65-75	2.6	1.0	1.1	1.42	1.7	1.42	NG	1.48
TG-44I2	55-60	3.7	1.6	2.64	2.79	3.12	2.85	NG	2.97

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.

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 thicknesses have been observed sporadically in OZMW-21S with historical 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)						
		Q4 18	Q1 19	Q2 19	Q3 19	Q4 19	Q1 20	Q3 20
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
OZMW-21S	5-15	0.9	NO	NO	NO	NO	0.9	0.21

Well ID	Screen Interval	Average LNAPL Thickness (feet)						
		Q4 18	Q1 19	Q2 19	Q3 19	Q4 19	Q1 20	Q3 20
OZMW-25I	20-30	NO	NO	NO	NO	NO	NO	NO

Note: NO – Not Observed
- – Not Gauged

2.1.3 OU-1 DNAPL Recovery Data

2.1.3.1 DNAPL Recovery

Approximately 654 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 March and April 2020 recovery events and was repaired in early Q4 2020. 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 Q2 2019		-	-	633.83
Q3 2019	07/15/2019	6.8	5.8	1.47
	08/28/2019	8.0	5.9	3.08
	09/24/2019	6.8	3.9	4.19
Q4 2019	10/18/2019	6.7	5.1	2.35
	11/15/2019	6.9	4.7	3.30
	12/10/2019	6.2	5.3	1.25
Q1 2020	01/15/2020	7.1	4.9	3.13
	02/07/2020	6.0	5.2	1.26
	03/09/2020	5.7	5.7	0.00
Q2 2020	04/27/2020	7.33	7.33	0.00
	-	-	-	-
	-	-	-	-
Q3 2020	-	-	-	-
	-	-	-	-
	-	-	-	-
Totals	Q3 2019 – Q3 2020	-	-	20.03
	To Date	-	-	653.86

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 5.7 and 8.0 feet between Q3 2019 and Q3 2020. A slightly decreasing trend is evident in recent events, prior to the pump malfunctioning in March 2020, and a more significant decreasing trend is evident in comparison to historical thicknesses.
- During the past year, product recovery ranged from approximately 1.25 to 4.19 gallons and averaged approximately 2.5 gallons per event. This is a decrease over the previous year's average recovery amounts of approximately 3.2 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 Q3 2019 and Q3 2020, the average ozone/air mixture injected was approximately 1.7 percent ozone and 98.3 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.	Monthly	Figure 4, Section 4, Table 4-1, Table 4-2
	Sampling soil vapor (SV-01, SV-02, and SV-03) downgradient and site ambient air.	Monthly (prior to and for three months after shutdown)	Section 2.2.4, Table 2-1, Appendix B
	Sampling ambient air downgradient and upgradient of system.	Monthly (prior to and for three months after shutdown)	Section 2.2.4, Table 2-2

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 11.1 pounds of ozone were injected each day between Q3 2019 and Q3 2020. The ozone groundwater treatment system was in operation for 416 out of 458 days (91%) in the past five quarters.

- Q3 2019 – The system was operational for 75 out of 92 possible days. System operation was interrupted due to multiple power outages, a condenser/chiller malfunction, dryer malfunction and the subsequent repairs of the condenser and drier.
- Q4 2019 – The system was operational for 80 out of 92 possible days. System operation was interrupted due to multiple power outages and a scheduled shutdown for biannual maintenance.
- Q1 2020 – The system was operational for 91 out of 91 possible days.
- Q2 2020 – The system was operational for 83 out of 91 possible days. System operation was interrupted due to a power outage, a chiller malfunctions, and a scheduled shutdown for compressor and chiller maintenance.
- Q3 2020 – The system was operational for 87 out of 92 possible days. System operation was interrupted due to a power outage and a chiller malfunction. Comprehensive chiller maintenance was completed in Q4 2020 to rectify the periodic malfunctions.

2.2.3.3 SVE System Effluent

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. The system was shut down on September 25, 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. Annual monitoring of the SVE manifold will be conducted concurrent with system annual maintenance to confirm a continued lack of excess ozone in the subsurface once the system is shut down.

2.2.4 Ozone Groundwater Treatment System Soil Vapor and Ambient Air Sampling

Three soil vapor points (OZSV-01, OZSV-02, and OZSV-03) are located downgradient of the ozone groundwater treatment system (**Figure 1**). These points were sampled monthly while the SVE system was in operation, and monthly for three months following the SVE system shut down, to monitor potential influence of the ozone groundwater treatment system operation on soil vapor concentrations downgradient of the barrier wall. Ambient air was also monitored to determine the potential influence of the ozone groundwater treatment system on ambient air.

Soil vapor concentrations have remained generally consistent at the locations downgradient of the ozone groundwater treatment system. A majority of the compounds detected have varied within a range of 50 micrograms per cubic meter ($\mu g/m^3$) over the sampling history. Between Q3 2019 and Q4 2019, concentrations remained generally consistent with historical levels with a few exceptions. The detections of potentially MGP-related compounds outside and above the respective historical concentration ranges were identified at one sample location, OZSV-03. The concentration of carbon disulfide was detected above its historical concentration range in OZSV-03 in September 2019. Carbon disulfide was not detected at this location in subsequent sampling

events. Concentrations are depicted graphically in **Appendix B**. Analytical data are provided in **Table 2-1**.

Ambient air concentrations have remained mostly consistent since the startup of the ozone groundwater treatment system. Between Q3 2019 and Q4 2019, concentrations remained consistent with historical levels. Ambient air analytical data are provided in **Table 2-2**.

Based on the consistency of the data post SVE system shutdown, soil vapor and ambient air sampling will be discontinued.

2.3 Oxygen Injection Systems

2.3.1 Program Scope and Purpose

Eight oxygen injection systems are currently in operation at the Site. Two systems have been shut down based on NYSDEC-approved criteria. The shutdown of an additional system (9 North Clinton Avenue) is currently pending NYSDEC approval. 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.
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.

Operable Unit	Oxygen Injection System Designation	Operation Start Date	Shut Down Date	System Description
	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. A request to shutdown the 9 North Clinton Avenue system is currently pending NYSDEC approval.
	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 C, D, & E
	Monitoring of oxygen purity.	Monthly	Appendix C, D, & E
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 F

2.3.3 Oxygen Injection System OM&M Data

2.3.3.1 System Operational Data

Approximately 500,814 pounds of oxygen were injected into OU-1, OU-2, and OU-3 from Q3 2019 through Q3 2020. Overall, the systems were operational 93% of the time during the annual period. Several of the oxygen injection systems experienced some downtime during the

past five quarters. The downtime was due to power outages, scheduled maintenance and mechanical issues. The mechanical issues causing the most downtime was experienced at the 33 North Clinton Avenue and Garner Lane oxygen injection systems. These mechanical issues primarily included problems with booster pumps and the refrigerated dryers. 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 C, D,** and **E** 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	Weight of Oxygen Injected (pounds)					Total Weight of Oxygen Injected Through Q3 2020 (Pounds)
			Q3 2019	Q4 2019	Q1 2020	Q2 2020	Q3 2020	
OU-1	OU-1 Union Boulevard and Extension	92.6%	11,982	13,225	13,636	9,933	14,037	715,613
	60/66 N. Clinton (O_2 to OU-1)	94.1%	8,882	10,226	9,963	9,623	8,669	332,161
	OU-1 North	99.1%	9,774	11,277	9,823	10,006	9,223	272,157
OU-2	Garner Lane	78.2%	0	7,008	5,921	6,132	7,223	1,269,362
	9 N. Clinton	98.3%	10,807	10,389	11,527	11,457	10,597	592,409
	34 N. Clinton	95.2%	15,333	16,250	16,093	13,431	15,019	776,061
	33 N. Clinton/Cooper Lane	96.7%	16,799	14,939	16,878	14,283	5,155	819,966
OU-3	Community Road (60/66 N. Clinton [O_2 to OU-3])	94.1%	12,343	13,845	13,479	12,184	10,708	658,843
	87 Community Road	92.4%	11,387	11,641	8,805	10,536	10,322	356,264

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 F** 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	Q3 2019 – Q3 2020 Average	
OU-1	Shallow (0-10')	12.5	20.6	23.8	OZMW-16, OZMW-17, OZMW-18, OU2MW-50, OU2MW-57
	Intermediate (10-50')	7.0	16.0	20.6	
	Deep (50'+)	0.1	6.1	10.9	
OU-2	Shallow (0-10')	5.4	24.2	21.7	OU2MW-02, OU2MW-19, OU2MW-30, OU2MW-39, OU2MW-47, OU2MW-55
	Intermediate (10-50')	3.0	24.8	23.6	
	Deep (50'+)	5.0	13.0	11.8	
OU-3	Shallow (0-10')	9.9	9.2	15.6	OU3MW-07, 19, 20, IO-10, MW-34, MW-46WR, MW-70/70S
	Intermediate (10-50')	2.4	13.6	18.1	

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	Q3 2019 – Q3 2020 Average	
OU-1	Shallow (0-10')	29	139	169	OZMW-16, OZMW-17, OZMW-18, OU2MW-50, OU2MW-57
	Intermediate (10-50')	63	169	252	
	Deep (50'+)	0	86	145	
OU-2	Shallow (0-10')	51	223	241	OU2MW-02, OU2MW-19, OU2MW-30, OU2MW-39, OU2MW-47, OU2MW-55
	Intermediate (10-50')	3	186	230	
	Deep (50'+)	50	136	158	
OU-3	Shallow (0-10')	-4	42	119	OU3MW-07, 19, 20, IO-10, MW-34, MW-46WR, MW-70/70S
	Intermediate (10-50')	20	165	233	

Notes:
mV - millivolt
‘ - feet

Specific trends in DO and OPR values are presented below:

- DO concentrations and ORP values in shallow and intermediate groundwater in OU-1, OU-2 and OU-3 and deep groundwater in OU-1 and OU-2 increased significantly from baseline values collected prior to system startup and have remained elevated during the past four quarters.

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 305 wells and 5 surface water measurements from gauging stations in Q3 2020. The distribution of these wells for each of the operable units consisted of 80, 134, 63 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 October 5 through October 7, 2020.

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 (Q3 2020). 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. Q3 2020 values are slightly lower than average values for the historical monitoring period and from past several monitoring events.

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.

The significant reductions that have been evident since 2009 include the elimination of shallow and intermediate impacts in OU-2, excluding one shallow well with intermittently elevated detections. 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**.

Similar decreases are also evident in the shallow and intermediate zones in OU-3, particularly in the area south of the Brightwaters Yard where impacts have been largely eliminated in recent sampling events. 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 reductions followed the remedial excavations (Phases I, II, and III), and subsequent treatment system installations and modifications. Intermediate impacts, which were evident in the area of the LIRR ROW following the remedial excavations, have decreased several orders of magnitude in recent sampling events with many being below detections levels during Q3 2020. These decreases follow the installation and operation of additional oxygen injection wells targeting the area as well as targeted ORC-A injections conducted during the current annual monitoring period. Limited BTEX impacts remain in select wells in the Brightwaters Yard and are generally decreasing.

In areas where elevated concentrations had persisted, additional remedial measures have been undertaken. These measures have included the installation of additional oxygen injection systems, or the modification of current systems to focus treatment on the zones with residual impacts, as well as the targeted injection of ORC-A, where appropriate. Areas of remaining impacts will continue to be monitored and addressed, as appropriate.

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. Post-shut down monitoring in the vicinity of this system is ongoing. Approval for shut down of the 9 North Clinton system is currently pending NYSDEC approval.

In OU-4, the available groundwater data 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 Q3 2020 total BTEX and total PAH groundwater impacts, as well as for the composite plumes for each of the OUs. The Q3 2020 plume is also compared to the Q2 2019 plume and the remedial baseline Q1 2009 plume. 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 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. These groundwater 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). In addition, any significant changes or impacts noted during the reduced sampling rounds conducted between the last complete sampling round (Q2 2019) and the current annual sampling round (Q3 2020) are discussed.

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 Q3 2020 are presented in the iso-concentration maps on **Figures 11** through **16**. The iso-concentration figures for the sampling events conducted between the seventh annual report (Q2 2019) and the current report (Q3 2020) are provided in **Appendix G**. 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.

In addition to the comparisons made between the iso-concentration maps, a comparison of concentration ranges and averages between the Baseline Q1 2009 sampling event and the most recent annual sampling events in Q2 2019 plume and Q3 2020 plume is provided, where appropriate, for the impacted areas within OU-1 and OU-2. For OU-1, the concentration comparison was conducted for the entire operable unit, as well as specifically for the wells located downgradient, or within the immediate vicinity, of the groundwater treatment systems located at the downgradient edge of the area. The downgradient wells serve to evaluate the effects of the groundwater treatment systems. Graphical concentrations comparisons have also been included in this report for each of the Operable Units. The format and content of each graph is discussed within the text for each Operable Unit.

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 H**. 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 Q3 2020 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 Q3 2020 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 Q3 2020 plume has been greatly reduced in size (**Figure 1**). Significant changes to the overall outline of the composite plume from the pre-remediation depiction are summarized as follows:

- The Q3 2020 composite 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.
- The plume has been eliminated in the downgradient areas.

The composite Q3 2020 plume is similar in size to the corresponding Q2 2019 depiction.

4.2.2 Groundwater Quality Horizons and Comparisons

A description of the individual depth horizons for total BTEX and total PAH, and comparisons between the baseline plume and the current Q3 2020 plume are provided below. 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 Q3 2019 through Q3 2020 for OU-1 are presented in **Table 4-3**. The complete analytical results for Q3 2019 through Q3 2020 for OU-2 are presented in **Table 4-10**.

4.2.2.1 Shallow Zone

In OU-1/OU-2, the highest concentrations of total BTEX are generally present in the shallow portion of the aquifer. Total PAH concentrations in shallow groundwater in OU-1/OU-2 are generally lower than the corresponding total BTEX concentrations. As shown in the water table iso-concentration maps (**Figures 11** and **12**), these impacts are mainly present behind the central and western portion of the barrier wall in OU-1. Outside and/or downgradient of the barrier wall,

concentrations above 100 µg/L are present in one well each (for BTEX) in OU-1 and OU-2. Concentrations above 100 µg/L were present in two wells (for PAHs) outside the eastern edge of the barrier wall in Q4 2019 and Q1 2020, but none were detected downgradient of the barrier wall during the current reporting period.

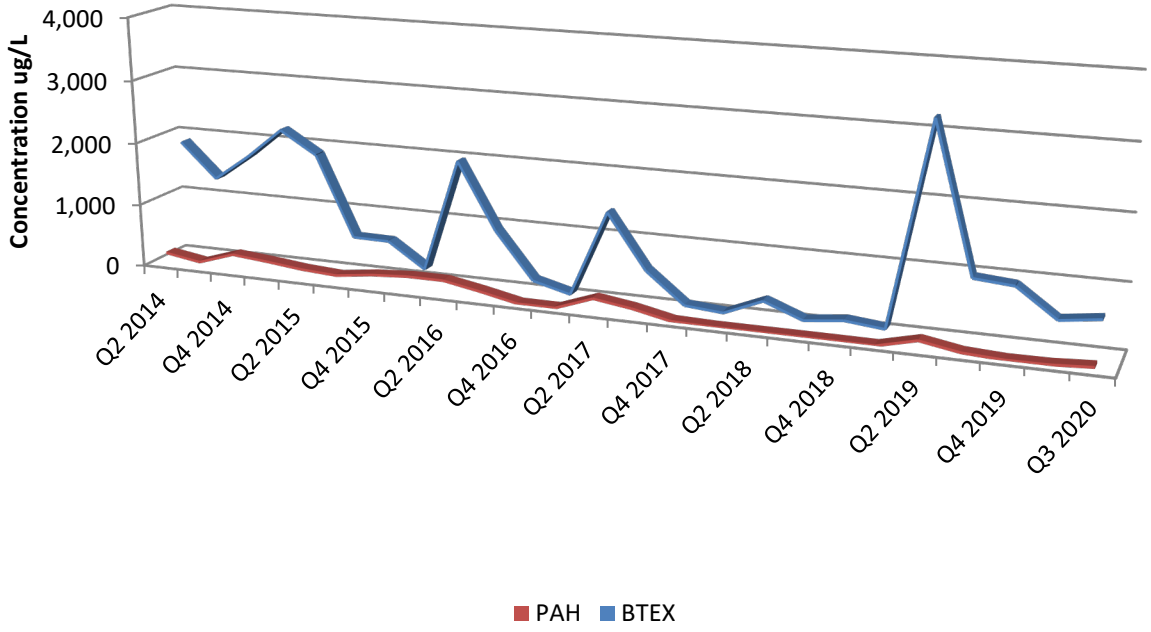
Impacted groundwater inside the barrier wall capture zone is treated by the ozone injection system before passing through the perforated section of the barrier wall. Groundwater is then treated immediately downgradient of the barrier wall by the Union Boulevard oxygen injection system. No detections of BTEX or PAH compounds above the AWQS were observed in shallow monitoring wells located immediately downgradient of the perforated section of the barrier wall or the oxygen injection system at the downgradient edge of OU-1 during the current reporting period. Concentrations above 100 µg/L in OU-2 were also limited to BBMW-23S (BTEX only) which were detected in Q3 2019, Q4 2019, and Q1 2020, as well as during the annual sampling event (Q3 2020), as discussed further below.

Within the plume section located generally upgradient of the central to western portion of the barrier wall, maximum total BTEX and total PAH concentrations remain above 1,000 µg/L. The maximum total PAH concentration in the area decreased below 1,000 µg/L during the previous annual monitoring event (Q2 2019) but have since increased and remain above 1,000 µg/L in one well (BBMW-41S) during the current reporting period. The wells with total BTEX detections above 1,000 µg/L are all located within the capture zone of the barrier wall, excluding BBMW-41S. The elevated concentrations from the capture zone area are treated by the ozone injection system and the Union Boulevard oxygen injection system as they migrate downgradient. Total BTEX and total PAH in BBMW-41S have remained elevated in recent sampling events. Impacts migrating from the BBMW-41S area are on the fringe of the capture zone but are treated by the 60/66 North Clinton Avenue oxygen injection system. The depiction of the plume to the west of the capture zone of the barrier wall is mainly determined by the concentrations in monitoring well OZMW-22SR. Total BTEX and total PAH concentrations in OZMW-22SR have been below 100 µg/L since Q2 2013 and Q3 2012, respectively, and were at or near detections levels in the most recent sampling event. Further reductions in OZMW-22SR have been evident since the 60/66 North Clinton Avenue oxygen injection line was relocated upgradient of the OZMW-22SR location in October 2013. Detections above 100 µg/L have also been evident sporadically in a well (OU1PZ-105) downgradient of OZMW-22SR during the reporting period. The concentrations in this well are treated by the western side of the OU-1 Union Boulevard oxygen injection system.

Total BTEX concentrations in BBMW-23S, located in the upgradient portion of OU-2, have generally been decreasing during the current annual monitoring period following an increase during the Q2 2019 annual sampling event. Total BTEX concentrations in BBMW-23S were above 100 µg/L in all four sampling events and were above 500 µg/L in three of the four sampling events, but the concentrations have decreased from the higher concentration spike detected in Q2 2019. Total PAH concentrations in BBMW-23S remained below 100 µg/L in all four sampling events during the current reporting period following an increase in Q2 2019. Historically, this well has exhibited temporary increases in concentrations in samples collected between February and June corresponding to periods of higher water table elevations. 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. Currently, the impacts are localized and do not persist past the downgradient Cooper Lane oxygen injection system. Detections above 100 µg/L in OU-2 have been limited to BBMW-23S since Q3 2013. A graph showing recent concentrations in this well is provided below.

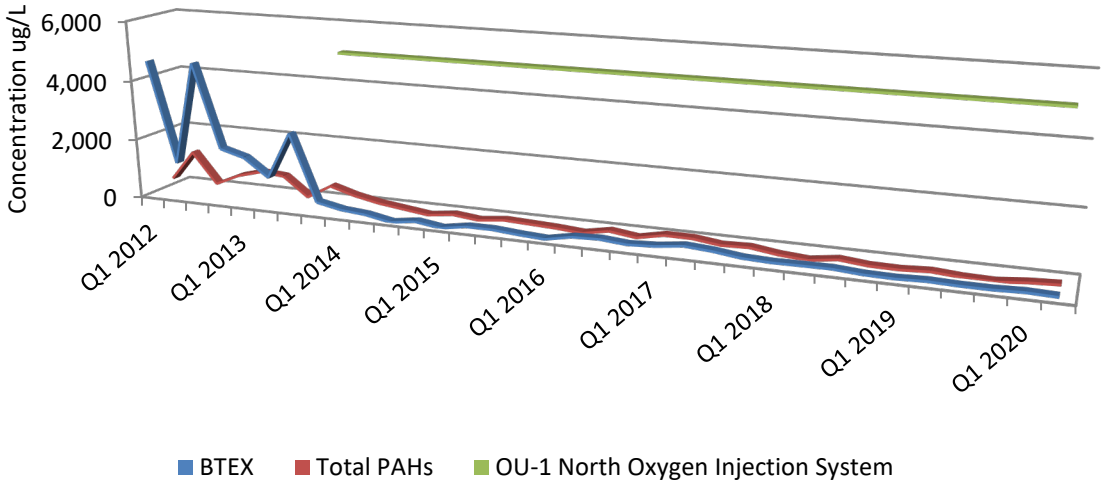
Recent Concentrations in BBMW-23S

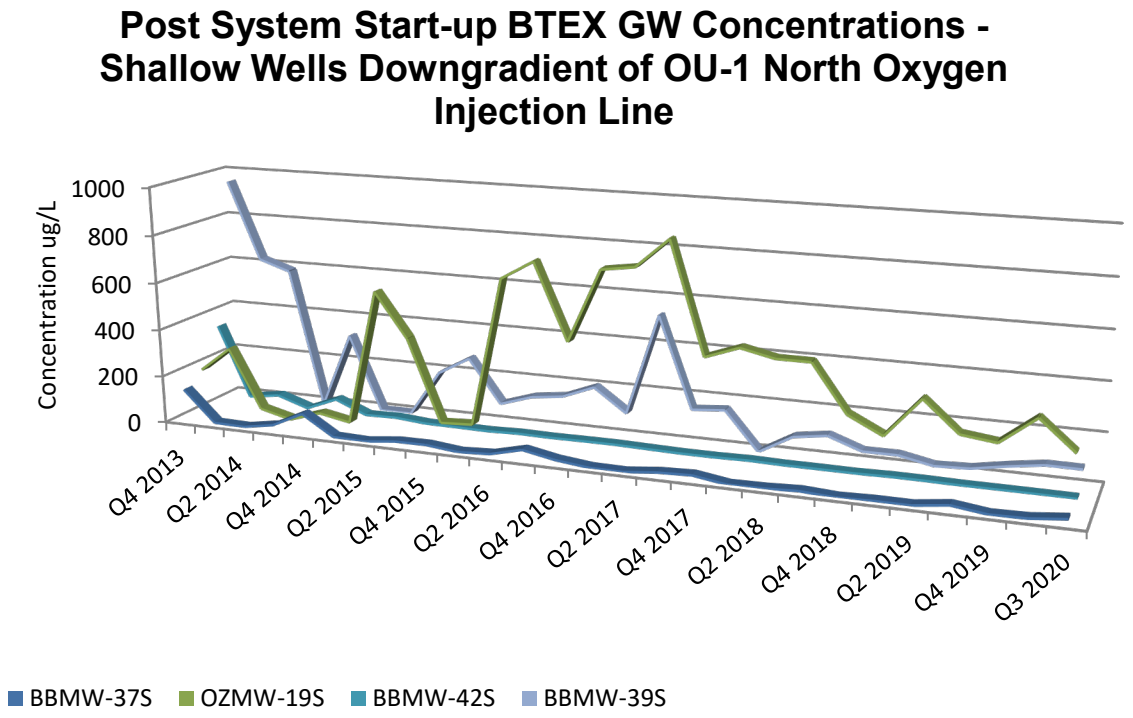


Shallow total BTEX and total PAH impacts upgradient and to the east of the barrier wall have generally decreased during the past year. Concentrations in this area above 100 µg/L were limited to one well (BBMW-40S) during Q3 2019, Q1 2020, and Q3 2020. The total BTEX and total PAH concentrations detected in BBMW-40S during Q3 2019 were above 1,000 µg/L and were the highest concentrations detected since Q2 2013 and Q4 2014, respectively. Concentrations in BBMW-40S generally decreased but remained variable in subsequent sampling events and remained below 500 µg/L. Downgradient of the LIRR ROW and the OU-1 North oxygen injection line (see **Figure 2**), impacts have generally been confined to the area immediately east of the barrier wall in recent sampling events. The reductions in the vicinity of and downgradient of the LIRR ROW have been significant and became evident following the start-up of the OU-1 North oxygen injection line in Q4 2013. A graph showing the reduction in average total BTEX and total PAH impacts in shallow wells located in this area is shown below. Prior to the installation of the treatment system in the area, the average impacts were over 4,000 µg/L and 1,000 µg/L for total BTEX and total PAHs, respectively. Currently, impacts above 100 µg/L in this area are limited to one well, OZMW-19S, located immediately adjacent to the barrier wall.

Despite some fluctuations in concentrations during the current reporting period, particularly for total PAHs, the concentrations in OZMW-19S have also generally been decreasing for the past three years. Recent total BTEX concentrations, which are generally higher than the corresponding total PAH detections, are shown on a separate graph below. Impacts remaining downgradient of the OU-1 North oxygen injection line, primarily in OZMW-19S, are treated by the Union Boulevard oxygen injection system as they migrate further downgradient and do not persist beyond the OU boundary.

Average Shallow GW Concentrations - Wells Downgradient of OU-1 North Oxygen Injection Line





Differences for shallow impacted groundwater from Q1 2009 and Q3 2020 (**Figures 11** and **12**) are summarized as follows:

- Concentrations of total BTEX and total PAHs have generally decreased throughout OU-1, with the decreases particularly evident in the area downgradient, or in the immediate vicinity of, the OU-1 groundwater treatment systems.
- The shallow groundwater plume has largely been eliminated in OU-2, with only one well (BBMW-23S) with detections currently above 100 µg/L. Concentrations in BBMW-23S generally increase during the Q2 period due to a rise in groundwater elevation. Although the concentrations in BBMW-23S typically increase during periods of high groundwater elevations and remained above 100 µg/L, a overall downward trend is evident in this well and throughout the OU.

A summary of the concentrations in OU-1/OU-2 between Q1 2009, Q2 2019, and Q3 2020 is provided in both **Table 4a** and **Table 4-b**, below.

Table 4a – Comparison of Total BTEX Concentrations in Shallow Groundwater

Operable Unit	Shallow Zone Total BTEX Concentrations (µg/L)					
	Range			Average		
	Baseline Q1 2009	Q2 2019	Q3 2020	Baseline Q1 2009	Q2 2019	Q3 2020
OU-1 (Overall)	0 – 11,947	0 – 4,008	0 – 3,705	3,270	426	423
OU-1 (Downgradient)*	0 – 244	0	0	96	0	0
OU-2	0 – 11,860	0 – 3,208	0 –544	304	356	68

Note:
* – OU-1 downgradient wells include OZMW-16S, OZMW-17S, and OZMW-18S.

Table 4b – Comparison of Total PAH Concentrations in Shallow Groundwater

Operable Unit	Shallow Zone Total PAH Concentrations (µg/L)					
	Range			Average		
	Baseline Q1 2009	Q2 2019	Q3 2020	Baseline Q1 2009	Q2 2019	Q3 2020
OU-1 (Overall)	0 – 1,850	0 – 629	0 – 1,665	457	76	124
OU-1 (Downgradient)*	0	0	0	0	0	0
OU-2	0 – 1,673	0-148	0-53	55	18	5

Note:
* – OU-1 downgradient wells include OZMW-16S, OZMW-17S and OZMW-18S.

There were no significant changes in shallow zone total BTEX or total PAH concentrations in OU-1 within the last year (since Q2 2019). The decrease in OU-2 total BTEX impacts was largely driven by the reductions in BBMW-23S as described above.

4.2.2.2 Intermediate Zone

Intermediate zone total BTEX and total PAH impacts have been greatly reduced as a result of the remedial activities in the area and have been confined to OU-1 in recent sampling events (**Figures 13** and **14)**. No concentrations of total BTEX and total PAH above 100 µg/L in the intermediate zone in OU-2 have been detected in the current or previous (Q3 2018 through Q2 2019) reporting periods.

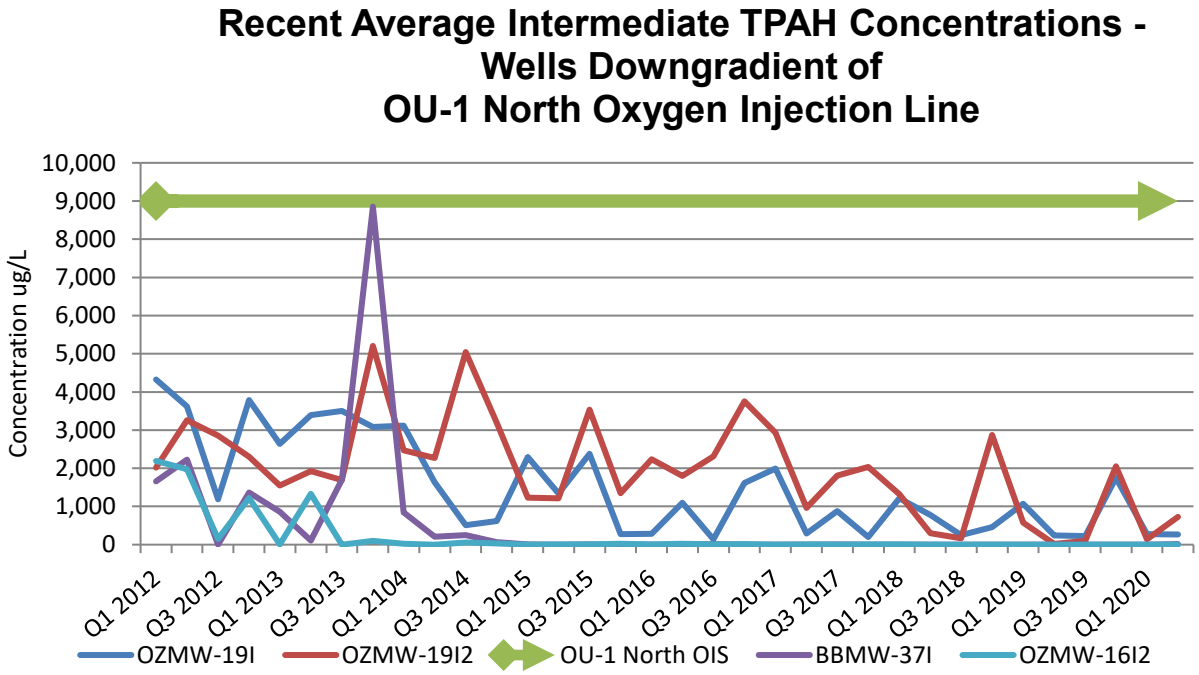
Detections above the AWQS downgradient of the perforated section of the barrier wall or the oxygen injection system at the downgradient edge of OU-1 were limited during the current reporting period. The AWQS exceedances included three detections of toluene in Q3 and Q4 2019 and Q1 2020 in OU2MW-02I and one detection each for benzo(b)fluoranthene and benzo(a)pyrene in Q3 2020 in OU2MW-29D. 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-02I during the sampling events discussed above.

As a result of the detections of toluene, several additional wells in the area were sampled as part of an evaluation of the 9 North Clinton Avenue oxygen injection system for possible shutdown. Toluene was not detected in OU2MW-02I or any of the other wells sampled in the follow-up sampling conducted during the Q3 2020. OU2MW-29D is located downgradient of the 9 North Clinton oxygen injection system and the detections of benzo(b)fluoranthene and benzo(a)pyrene during Q3 2020 in OU2MW-29D were detected as part of the follow-up sampling event.

OU2MW-29D had previously been eliminated from the sampling program in accordance with the approved reduction criteria due to a lack of detections. If shutdown of the 9 North Clinton oxygen injection system is approved by NYSDEC, OU2MW-29D will be included as part of the post-shutdown monitoring.

The intermediate plume in OU-1 is largely confined to a central area behind the barrier wall; however, a small area located outside the eastern edge of the barrier wall persists. The central section of the plume begins in the central portion of OU-1 and extends downgradient, ending roughly at the barrier wall.

During the current reporting period (Q3 2019 through Q3 2020), the impacted area located to the east of the barrier wall has been defined by two wells in one well cluster (OZMW-19). The OZMW-19 cluster is located immediately east of the barrier wall. Excluding the total PAH results from Q4 2019 which increased significantly, the results were generally similar to the previous annual monitoring period. Total BTEX concentrations in these wells (OZMW-19I and OZMW-19I2) have remained relatively stable during the past year, but the total PAH concentrations have been varied, but generally decreasing, with the exception of the Q4 2019 results as noted above. Historically, the impacts in the area began upgradient of the LIRR tracks and extended into OU-2; however, following the installation of the oxygen injection systems in the area (OU-1 North and OU-1 Union Boulevard Extension) the impacts have been confined to the area between the LIRR tracks and Union Boulevard. The graph below illustrates the total PAH concentrations, which have generally been higher than total BTEX, in select wells downgradient of the oxygen injections systems in the area.



As mentioned above, the intermediate impacts in OU-2 have been greatly reduced, from average highs of over 28,000 µg/L and 7,000 µg/L for total BTEX and total PAHs, respectively, and were no longer present within the OU during the current reporting period. The reductions in total BTEX (**Table 4c**) and total PAHs (**Table 4d**) are illustrated in the tables below. The graph below presents the number of wells above 100 µg/L for total BTEX and total PAHs during each annual sampling event, including the Q3 2020 annual sampling event, since the start of the remedial period.

Table 4c – Comparison of Total BTEX Concentrations in Intermediate Groundwater

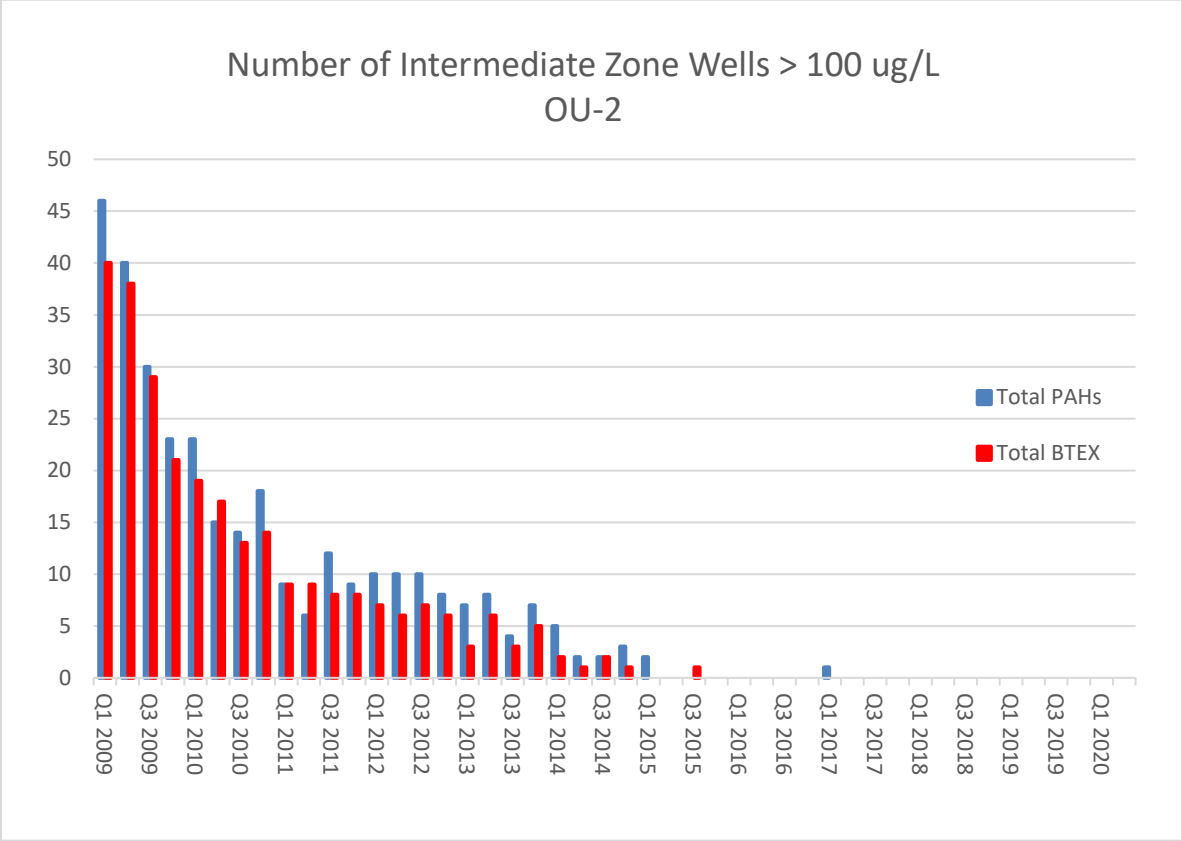
Operable Unit	Intermediate Zone Total BTEX Concentrations (µg/L)					
	Range			Average		
	Baseline Q1 2009	Q2 2019	Q3 2020	Baseline Q1 2009	Q2 2019	Q3 2020
OU-1 (Overall)	0 – 607	0 – 646	0 – 741	102	61	69
OU-1 (Downgradient)*	0 – 441	0	0 – 1	139	0	0
OU-2	0 – 28,040	0	0	637	0	0

Note:
* – OU-1 downgradient wells include OZMW-16I, OZMW-16I2, OZMW-17I, OZMW-17I2, OZMW-18I and OZMW-18I2.

Table 4d – Comparison of Total PAH Concentrations in Intermediate Groundwater

Operable Unit	Intermediate Zone Total PAH Concentrations (µg/L)					
	Range			Average		
	Baseline Q1 2009	Q2 2019	Q3 2020	Baseline Q1 2009	Q2 2019	Q3 2020
OU-1 (Overall)	0 – 7,728	0 – 4,664	0 – 3,916	895	559	520
OU-1 (Downgradient)*	0 – 7,728	0 – 5	0	1,316	1	0
OU-2	0 – 7,147	0 – 1	0 – 1	877	0	0

Note:
* – OU-1 downgradient wells include OZMW-16I, OZMW-16I2, OZMW-17I, OZMW-17I2, OZMW-18I and OZMW-18I2.



Differences in intermediate impacted groundwater from Q1 2009 (baseline) and Q3 2020 are summarized as follows (**Figures 13** and **14**):

- The Q3 2020 plume has been greatly reduced and is confined to OU-1.
- Concentrations have decreased significantly throughout the plume (see tables and graph above). Since Q1 2015 only one detection of total PAHs above 100 µg/L has been observed in OU-2.
- Detections of BTEX or PAHs above the AWQS in OU-2 during the past year were limited to three detections of toluene in one well during Q3 and Q4 2019 and Q1 2020 and one detection each for benzo(b)fluoranthene and benzo(a)pyrene at one well during Q3 2020.

No significant changes in intermediate total BTEX or total PAH impacts were noted within the last year (since Q2 2019).

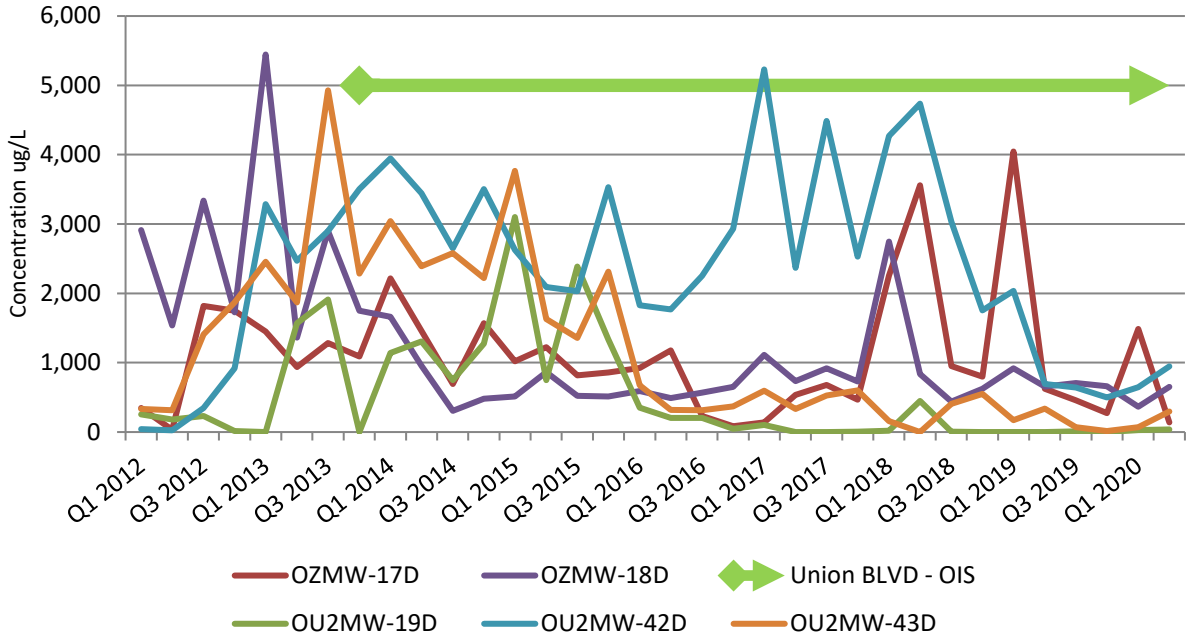
4.2.2.3 Deep Zone

In the deep groundwater (below a depth of approximately 50 feet within the Upper Glacial aquifer) of OU-1/OU-2, total BTEX and total PAH impacts above 100 µg/L are primarily present in the same general areas as 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. These areas include behind

the barrier wall in OU-1 and immediately downgradient of the barrier wall extending into the mid-plume area in OU-2. In OU-2, total BTEX impacts have been continually present in the mid-plume area, but only intermittently present in the area immediately downgradient of the barrier wall, while total PAH impacts have generally been present in one continuous section from the barrier wall to the mid-plume area during the annual monitoring period. Detections above the AWQS downgradient of the oxygen injection system at the downgradient edge of OU-1 were also limited to the general areas described above.

Total PAH concentrations in monitoring wells immediately downgradient of the barrier wall (OZMW-17D and OZMW-18D) have remained elevated in recent sampling events, while total BTEX have varied and were under 100 µg/L in three of the four sampling events during the monitoring period. Overall, the average deep total PAH concentrations have decreased. Total PAH concentrations were under 1,000 µg/L with the exception of OZMW-17D in Q1 2020 (see graph below).

Recent Deep Zone Total PAH Concentrations - Downgradient of Union Blvd. and Cooper Lane Oxygen Injection Systems



Current deep total PAH impacts in OU-2 extend downgradient of the barrier wall to the area of the Cooper Lane and 33 North Clinton Avenue oxygen injection systems, while total BTEX concentrations above 100 µg/L were limited to the area of OU2MW-42D. Significant decreases in OU2MW-19D and OU2MW-43D were observed beginning several years ago, while the OU2MW-42D remained significantly elevated until the previous monitoring period (Q3 2018 through Q2 2019). Total PAH detections in OU2MW-42D have continued to generally decrease

and remained below 1,000 µg/L throughout the current annual monitoring period. Additional remedial measures will be considered if the decreasing trend identified in the area does not continue and elevated concentrations persist.

Differences for deep impacted groundwater from Q1 2009 and Q3 2020 are summarized in the tables below (**4e** and **4f**) and **Figures 15** and **16**, and as follows:

- The plume has been eliminated in downgradient areas of OU-2.
- Concentrations have been reduced in areas downgradient of the treatment systems in OU-2 as indicated below, however elevated concentrations persist as discussed above.

Table 4e – Comparison of Total BTEX Concentrations in Deep Groundwater

Operable Unit	Deep Zone Total BTEX Concentrations (µg/L)					
	Range			Average		
	Baseline Q1 2009	Q2 2019	Q3 2020	Baseline Q1 2009	Q2 2019	Q3 2020
OU-1 (Overall)	0 – 2,314	0 – 1,058	0 – 1,063	335	232	222
OU-1 (Downgradient)*	0 – 216	0 – 97	0 – 185	72	51	71
OU-2	0 – 569	0 – 323	0 – 311	59	37	22

Note:
* – OU-1 downgradient wells include OZMW-16D, OZMW-17D and OZMW-18D.

Table 4f – Comparison of Total PAH Concentrations in Deep Groundwater

Operable Unit	Deep Zone Total PAH Concentrations (µg/L)					
	Range			Average		
	Baseline Q1 2009	Q2 2019	Q3 2020	Baseline Q1 2009	Q2 2019	Q3 2020
OU-1 (Overall)	0 – 5,140	0 – 2,551	0 – 2,737	707	673	741
OU-1 (Downgradient)*	0 – 435	0 –657	0 – 650	146	428	263
OU-2	0 – 7,007	0 – 692	0 – 948	455	103	80

Note:
* – OU-1 downgradient wells include OZMW-16D, OZMW-17D and OZMW-18D.

Significant changes in deep impacts within the last year (since Q2 2019) include decreases immediately downgradient of the barrier wall and farther downgradient at OU2MW-42D.

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

A summary of the remedial activities conducted in OU-3 is provided in Sections 1 and 2 of this report. In addition to the ongoing oxygen injection groundwater treatment systems and IRMs

discussed in Section 2.3, the OU-3 LIRR Excavation/Temporary Track Relocation IRM (Phases I and II) was initiated in Q4 2009 and completed by Q2 2010. Additionally, the LIRR Excavation IRM, Phase III (Brightwaters Yard) was conducted during Q3 2010 and completed in September 2010. These excavation activities involved the removal of approximately 13,825 tons of impacted material from the Brightwaters Yard and immediately downgradient within the LIRR ROW, to depths ranging from 8 to 12 feet bgs.

Following the remedial excavations (Phases I, II, and III), which were completed in September 2010, soil and groundwater investigations in the Brightwaters Yard, as well as in the area immediately south of the LIRR tracks, were conducted in December 2010, June 2011, and February 2012 to evaluate the post-excavation IRM groundwater conditions. Replacement groundwater monitoring wells, along with several new monitoring wells, were installed to further and more accurately define the impacts in the area.

Remedial activity, conducted to address impacts identified following the remedial excavations has included the following:

- Reconfiguration of the Community Road oxygen injection line (Q1 2012);
- Targeted ORC-A injection programs in the downgradient area (Q2 and Q3 2013, and January 2015);
- The installation of the 87 Community Road oxygen injection system (late Q3 and early Q4 2013);
- Modification to the 87 Community Road system to include treatment within the excavation sheeting cells (completed in July 2015); and
- Targeted ORC-A injections in areas of lingering impacts in the Brightwaters Yard (Q4 2019).

Significant reductions to groundwater impacts in the vicinity and downgradient of these areas have been noted in recent sampling events, as discussed further below. As a result of these remedial efforts, the plume (impacts above 100 µg/L) is currently confined to select areas in the Brightwaters Yard and the sheeting cells in the LIRR ROW. Furthermore, detections above the AWQS downgradient of the sheeting cells in the LIRR ROW are limited and no exceedances above the AWQS were observed in wells downgradient of Community Road during the annual monitoring period.

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 four areas: upgradient (Brightwaters Yard), within the sheeting cells in the LIRR ROW, immediately south of the LIRR ROW (87 Community Road property), 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 Q3 2020 plume is limited to two areas, defined by one well each within the Brightwaters Yard and the sheeting cells in the LIRR ROW (**Figure 1**).

Significant changes to the outline of the Q3 2020 composite plume as compared to the Q1 2009 composite plume are noted as follows:

- The historical area of impacted groundwater has been reduced and is no longer present in the area downgradient of the LIRR ROW.

The composite Q3 2020 plume is generally similar in size to the corresponding Q2 2019 depiction; however, both areas of impacts were present in the Brightwaters Yard in Q2 2019 while the second area of impacts in Q3 2020 is present in 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 Q3 2020 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 Q3 2020 are presented in **Table 4-11** and **Table 4-12**, respectively. The complete analytical results for Q3 2019 through Q3 2020 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).

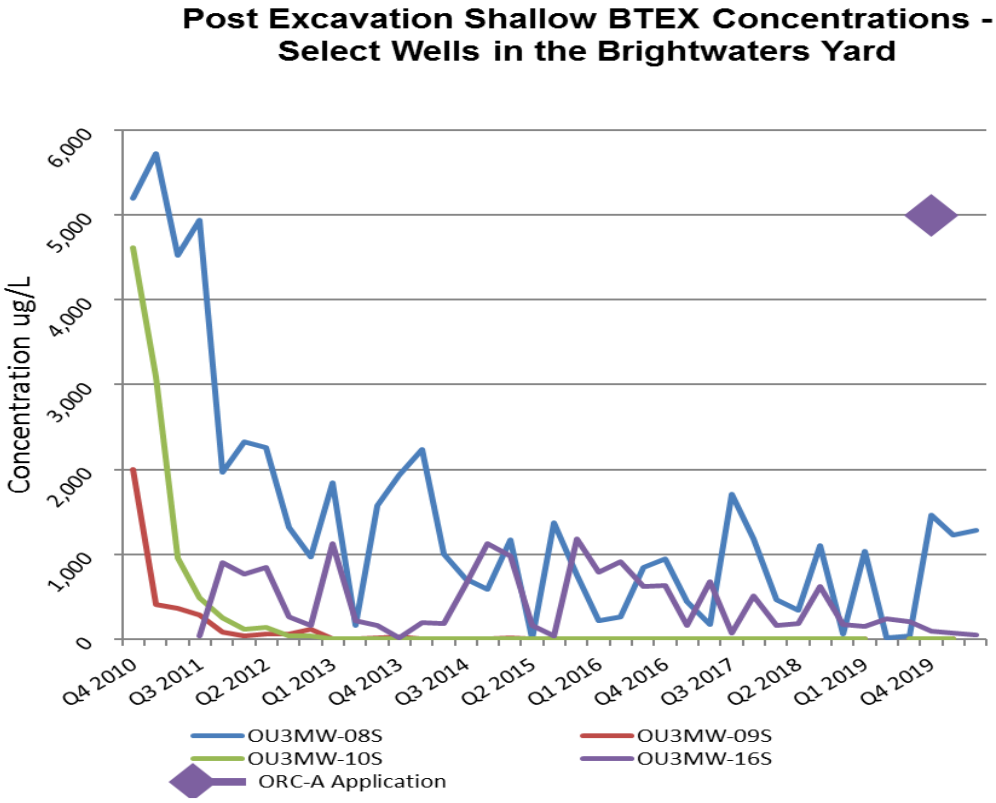
The maximum total BTEX concentrations in shallow groundwater in the Brightwaters Yard prior to excavation ranged from greater than 100,000 µg/L in 2004, to 46,000 µg/L in 2009 immediately prior to excavation. Concentrations in shallow wells have continued to decrease with the highest detections during Q3 2020 being 1,289 µg/L (total BTEX) and 499 µg/L (total PAHs) in monitoring well OU3MW-08S. This 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 OU3MW-08S were variable but did increase during the current annual

monitoring period while the concentrations in OU3MW-16S decreased during the current annual monitoring period.

ORC-A injections were conducted in Q4 2019 to treat two areas of lingering impacts in the Brightwaters Yard (National Grid 2020). These areas included intermediate impacts in the vicinity of monitoring well OU3MW-09I, including areas within and adjacent to the sheeting cells left in place beneath the LIRR, and shallow impacts in the vicinity of wells OU3MW-08S and OU3MW-16S. The injections were designed to treat the affected zones; which included the intermediate zone (10 to 30 feet bgs) in the OU3MW-09I area and the shallow zone (4 to 14 feet bgs) in the area around wells OU3MW-08S and OU3MW-16S.

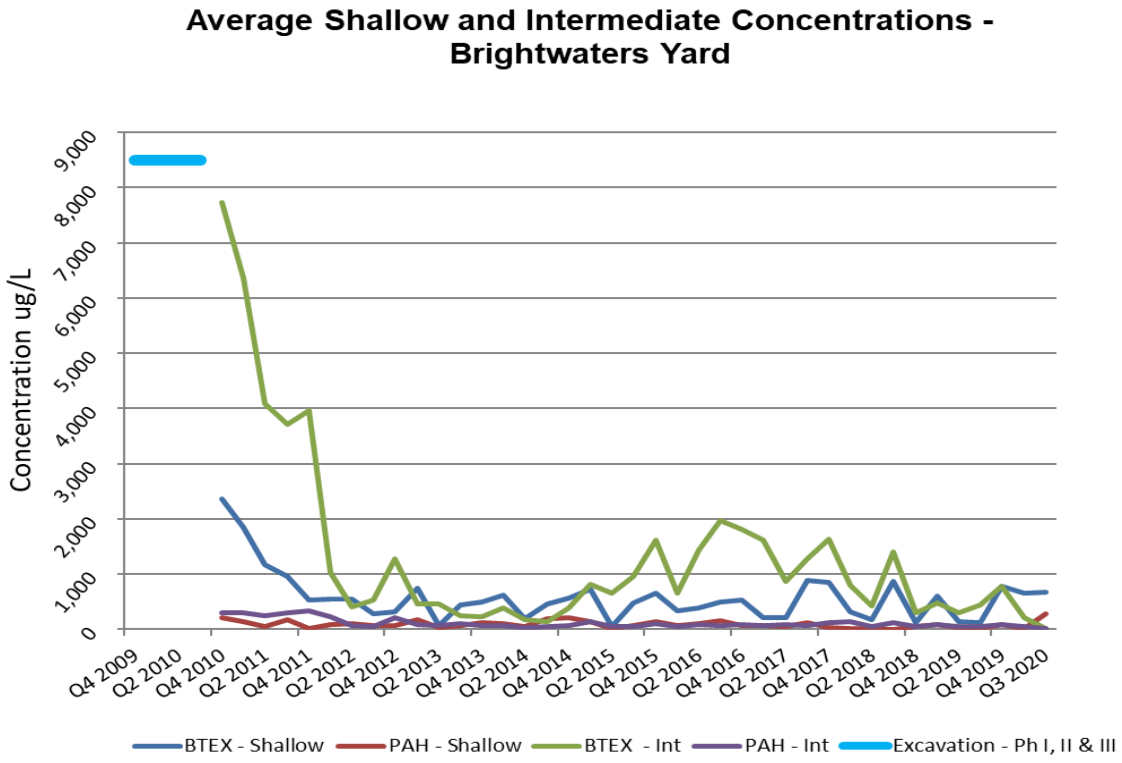
Prior to the injections (September 2019), six temporary wells were installed within the northern most sheeting cells left in place beneath the LIRR and at the southern portion of the Brightwaters Yard. Two temporary wells were installed in each of the three western most northern cells, TMW-01I/I2 through 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) indicate the greatest impacts are present in the deeper wells screened at the bottom of the sheets. 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**.

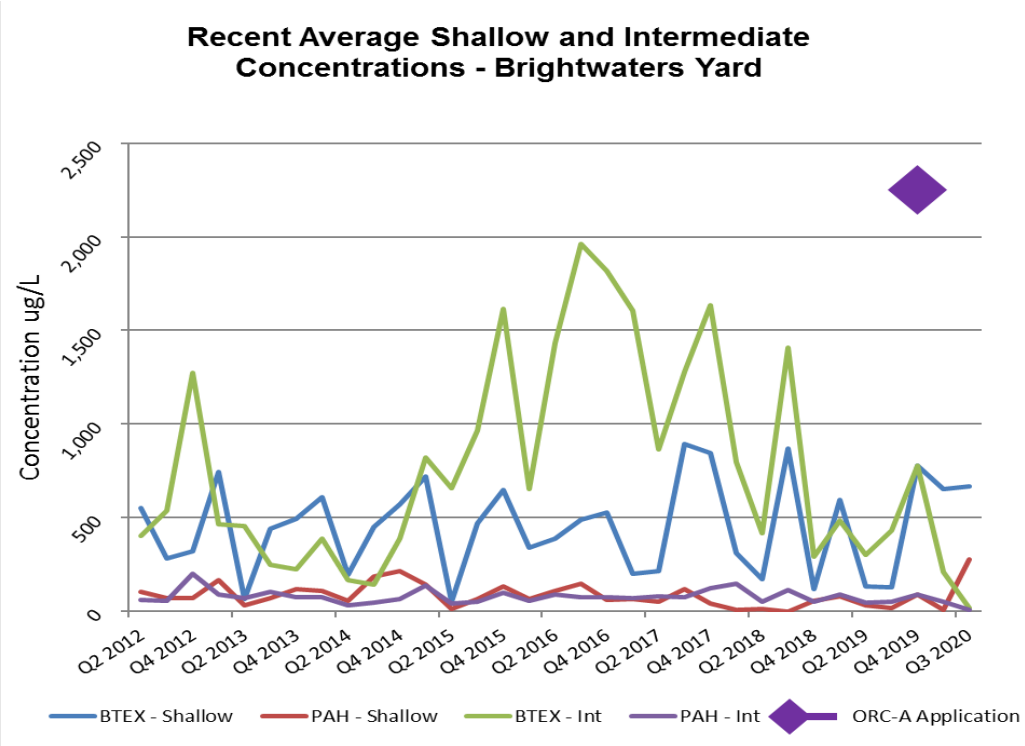
The ORC-A injections in the shallow zone in the vicinity of OU3MW-08S and OU3MW-16S area have had limited effectiveness. The reduction in the OU3MW-16S total BTEX concentration (discussed above) may be related to the ORC-A injections; however, total BTEX concentrations in OU3MW-08S have not been reduced. 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. The intermediate zone concentrations had been generally decreasing significantly since completion of source area excavations from greater than 35,000 µg/L to an average of less than 1,000 µg/L.

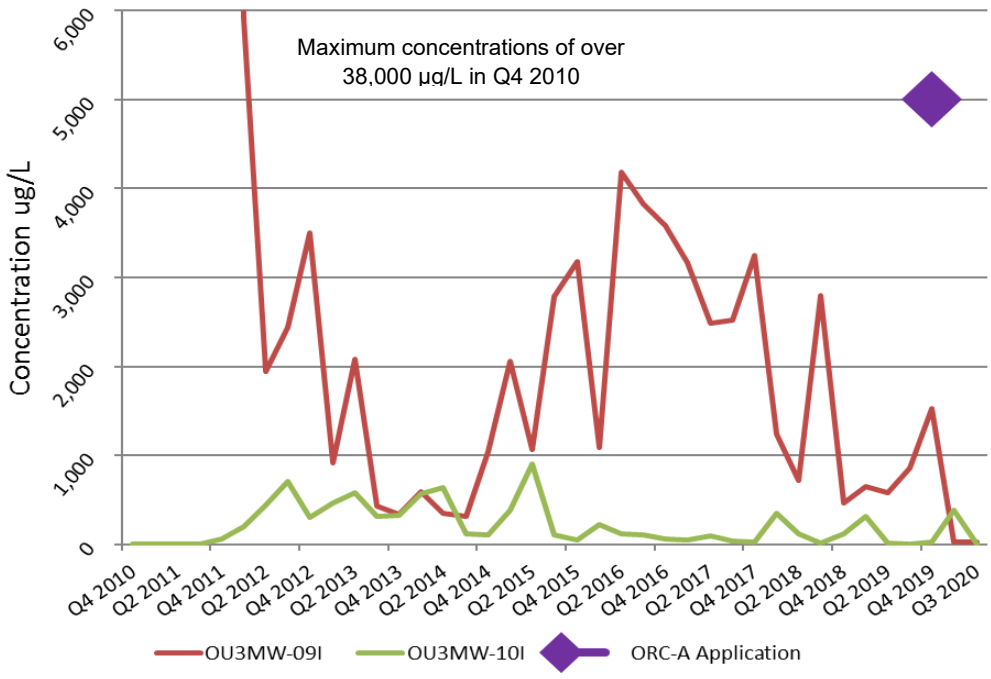
The graphs presented below illustrate the decreases evident in the area and highlights the periods of remedial excavation or ORC-A injections. Similar to the shallow zone, concentrations in other intermediate wells in the area were consistently at or near detection levels and were subsequently eliminated from the sampling program.


Average Shallow and Intermediate Concentrations - Brightwaters Yard
Concentration ug/L
9,000
8,000
7,000
6,000
5,000
4,000
3,000
2,000
1,000
0
Q4 2009
Q2 2010
Q4 2010
Q2 2011
Q4 2011
Q2 2012
Q4 2012
Q2 2013
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
BTEX - Shallow
PAH - Shallow
BTEX - Int
PAH - Int
Excavation - Ph I, II & III


Recent Average Shallow and Intermediate Concentrations - Brightwaters Yard
Concentration ug/L
2,500
2,000
1,500
1,000
500
0
Q2 2012
Q4 2012
Q2 2013
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
BTEX - Shallow
PAH - Shallow
BTEX - Int
PAH - Int
ORC-A Application

No significant total BTEX or total PAH impacts were detected in intermediate groundwater in the Brightwaters Yard prior to removal of the Brightwaters Yard oxygen injection system, and the source area excavation in Q4 2010. During the past year, elevated concentrations (above 100 µg/L) of total BTEX have been present in two intermediate wells installed subsequent to the source area excavation, OU3MW-09I and OU3MW-10I (see graph below), located immediately upgradient of the LIRR excavations. The total BTEX concentrations in OU3MW-09I were elevated in Q3 and Q4 2019 but then decreased below 100 µg/L in Q1 and Q3 2020 following the ORC-A injections, which is 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 have decreased in recent sampling events and were below 100 µg/L during three of the four sampling events in the current annual monitoring period. Concentrations of total PAHs in these wells are lower than the corresponding total BTEX concentrations but have followed similar trends. Total BTEX and total PAHs in the deeper intermediate well OU3MW-09I2, screened from 35 to 40 feet bgs, were at or near detection levels and the well was subsequently removed from the sampling program.

Intermediate BTEX Concentrations - Select Wells in the Brightwaters Yard



The apparent increase in intermediate zone impacts detected immediately following source removal may be due to the abandonment of the Brightwaters Yard oxygen injection system in Q3 2009 prior to the source area excavation and the installation of additional intermediate zone

monitoring wells immediately following the excavation. The Brightwaters Yard oxygen injection system was not effective in reducing the high source area concentrations present in the shallow peat unit in the Brightwaters Yard. However, the data indicate this system may have been effective in addressing the dissolved phase impacts in the intermediate zone sand unit located immediately below the source zone. When this system was abandoned, the intermediate zone groundwater impacts temporarily increased, until removal of the shallow source zone impacts.

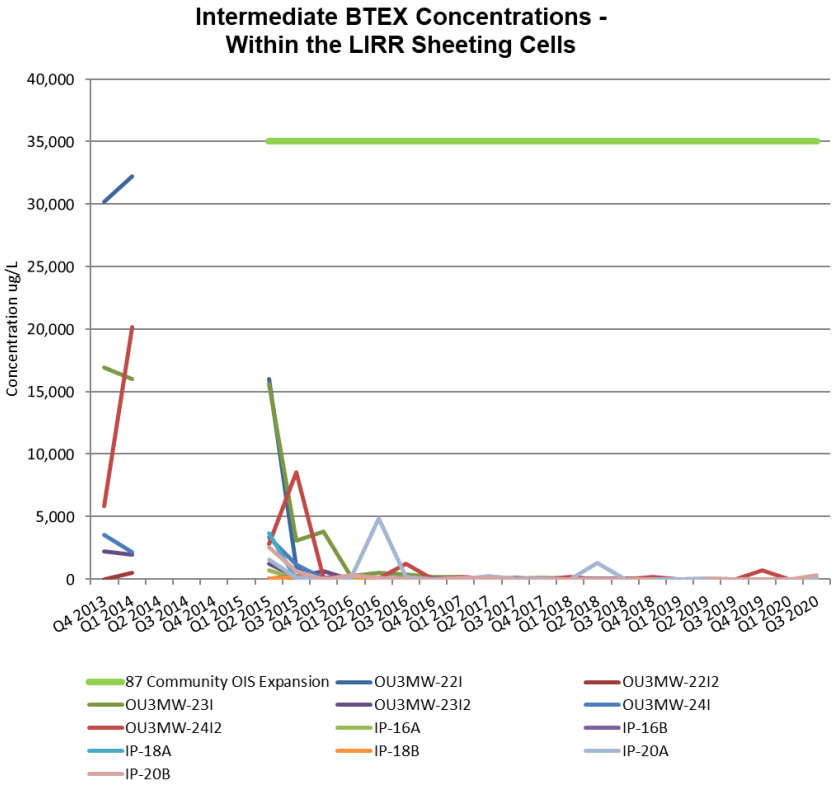
The post ORC-A injection monitoring conducted in Q1 and Q3 2020 have identified significant reductions in the area of OU3MW-09I. Concentrations in the temporary monitoring wells have been reduced from highs in the deeper intermediate wells installed (TMW-01I2, TMW-02I2 and TMW-03I2) of 2,334 µg/L, 814 µg/L and 733 µg/L respectively, to 43 µg/L in TMW-02I2 and ND in TMW-01I2 and TMW-03I2 during Q3 2020. Concentrations in the shallower wells in these clusters were also ND, excluding a detection of 118 µg/L in TMW-03I located in the easternmost sheeting cell during Q3 2020. The Q3 detection in TMW-03I was the highest concentration recorded during the monitoring phase at this temporary well location and will be monitored in future events to determine if an increasing trend is developing. Concentrations in monitoring well OU2MW-09I have also been significantly reduced from 1,530 µg/L during Q4 2020 (pre-injection) to 29 µg/L and 31 µg/L in Q1 and Q3 2020, respectively. Evaluation of the effectiveness of the ORC-A injections in this area is ongoing.

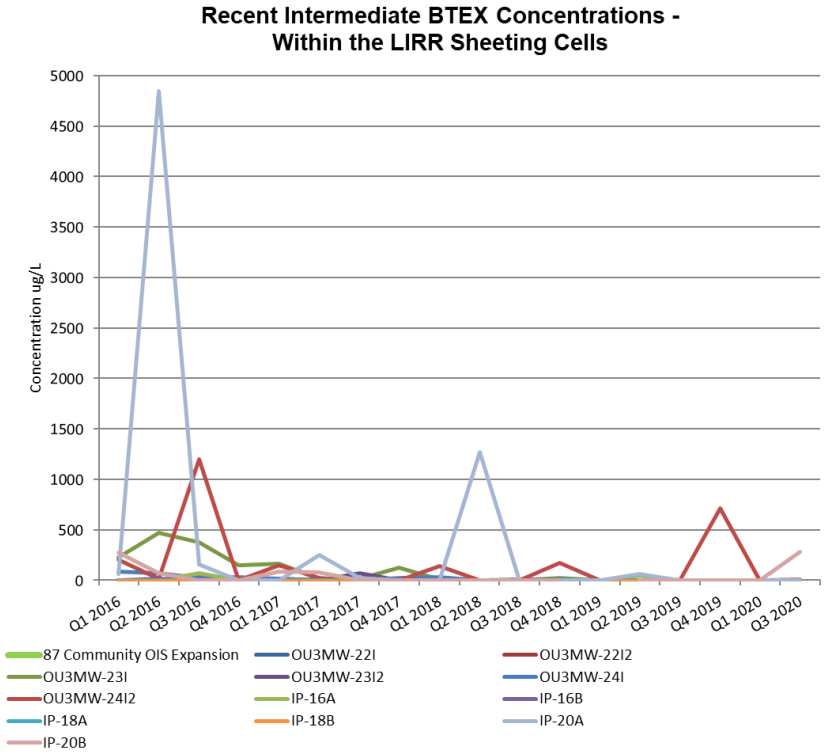
In comparison to the Baseline Q1 2009 BTEX concentrations the magnitude of impacts is significantly less. The location of the remaining impacts is adjacent to the localized spot excavation performed in 2010, west of the main source area excavation and is currently limited to one well. In comparison to Q1 2009, maximum and average shallow total BTEX concentrations in the Brightwaters Yard have decreased by two orders-of-magnitude. Intermediate zone total BTEX impacts have increased relative to Q1 2009 (when no impacts above 100 µg/L were present), following abandonment of the Brightwaters Yard oxygen injection system; however, the reductions are also up to three orders of magnitude lower than they were in the initial sampling events following the completion of excavation. Total PAH impacts have followed similar patterns to those described above for total BTEX.

4.3.2.2 LIRR ROW

Remaining impacts above 100 µg/L in the intermediate zone are currently limited to one of the sheeting cells left in place following the LIRR Excavation IRM, with the exception of the impacts identified above in the temporary monitoring wells installed as part of the ORC-A injection program. 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 below), several wells have been reduced to annual sampling in accordance with the approved reduction criteria. The monitoring wells, injection wells, and sheeting cells are shown on **Figure 1**.

The BTEX and PAH impacts within the LIRR sheeting cells are significantly less than the concentrations detected prior to source removal and are likely residual impacts that have remained elevated due to the reduced groundwater flow through the sheeting cells. These impacts have been significantly reduced since oxygen injection began in the area in late Q2 2015. The maximum total BTEX concentration immediately prior to the start of treatment was 16,000 µg/L in monitoring well OU3MW-22I and were as high as 32,200 µg/L in Q1 2014. During the current annual monitoring period only two detections of total BTEX were noted above 100 µg/L; OU3MW-24I2 in Q4 2019 and IP-20B in Q3 2020. The concentrations in OU3MW-24I2 have sporadically increased to over 100 µg/L but have decreased significantly and were at or below detection levels in two of the four sampling events during the annual period. IP-20B was reduced to annual sampling and was therefore only sampled during Q3 2020, but the total BTEX concentration in Q3 2020 of 278.3 µg/L increased relative to recent sampling events. The Q3 2020 concentration remained significantly below the maximum concentration of 2,511 µg/L from Q2 2015. The highest concentrations in the area have generally been detected in IP-20A, which has peaked as high as 4,486 µg/L (Q2 2016); however, the concentrations observed in this well during the current annual period were below detection levels. Total BTEX concentrations in the remaining wells within the sheeting cells in the annual sampling round were at, or near detection levels. The total BTEX concentrations in these wells are shown in the graphs below.

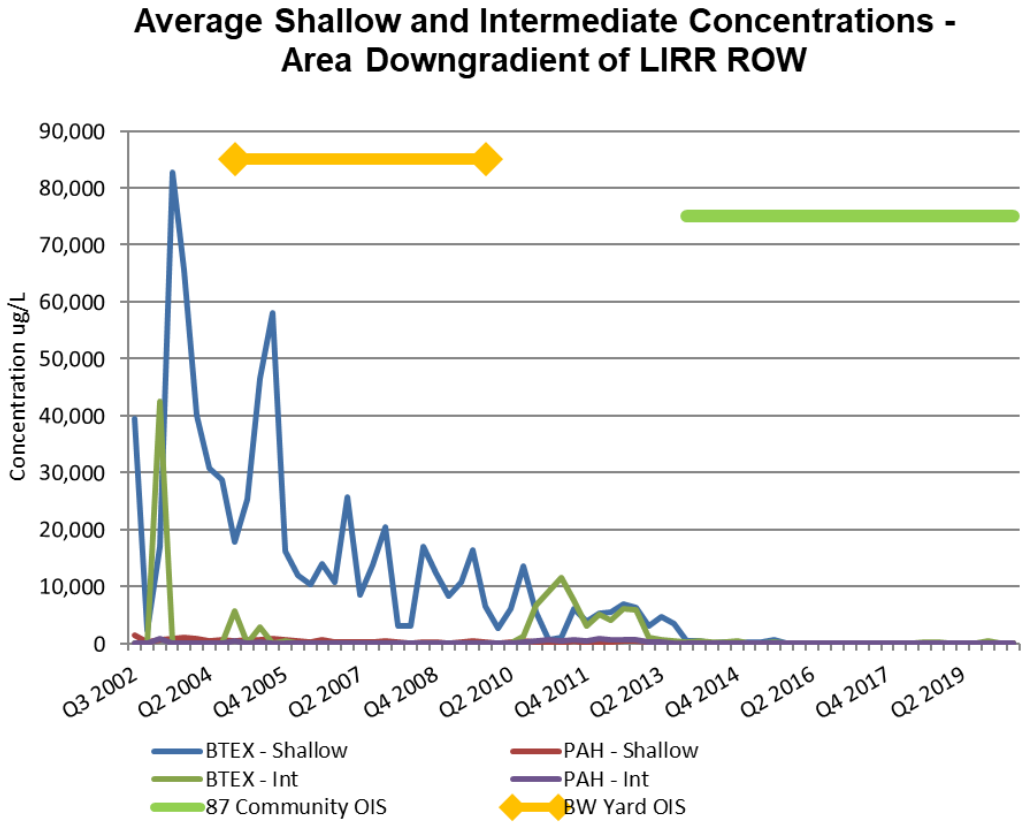




4.3.2.3 Area Immediately South of the LIRR ROW (83 and 87 Community Road Properties)

Shallow and intermediate impacts (above 100 µg/L) have been significantly reduced and are no longer currently present south of the LIRR ROW.

BTEX concentrations in shallow groundwater monitoring wells located on the 83 and 87 Community Road properties immediately south of the LIRR tracks had been decreasing, but highly variable immediately following excavation of the upgradient source material in 2010. Increasing concentrations of BTEX in intermediate zone wells were observed from approximately Q3 2010 through Q4 2012, following the abandonment of the Brightwaters Yard oxygen injection system; however, decreasing trends have been evident since Q4 2012. Groundwater concentrations have decreased significantly since the installation of the oxygen injection system on the 87 Community Road property, which was brought online in early Q4 2013 (see graphs below).

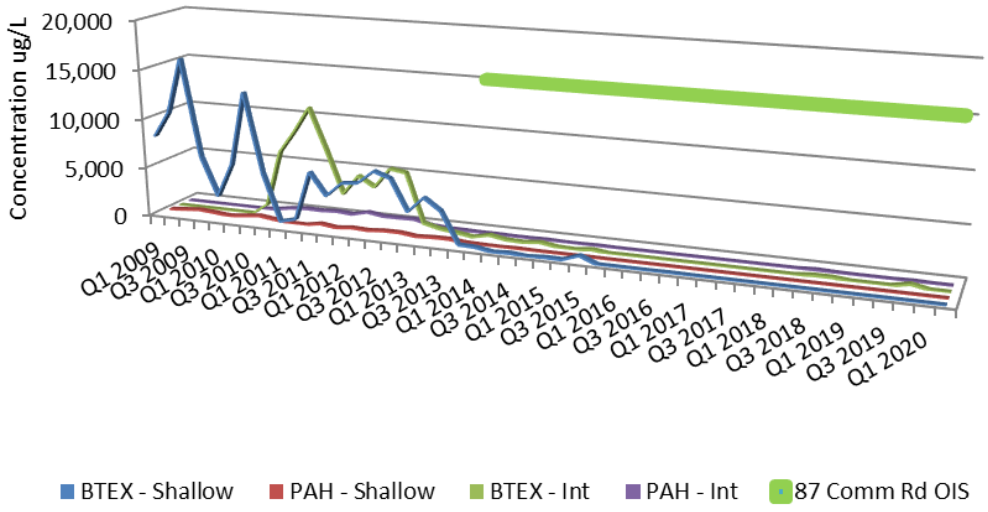


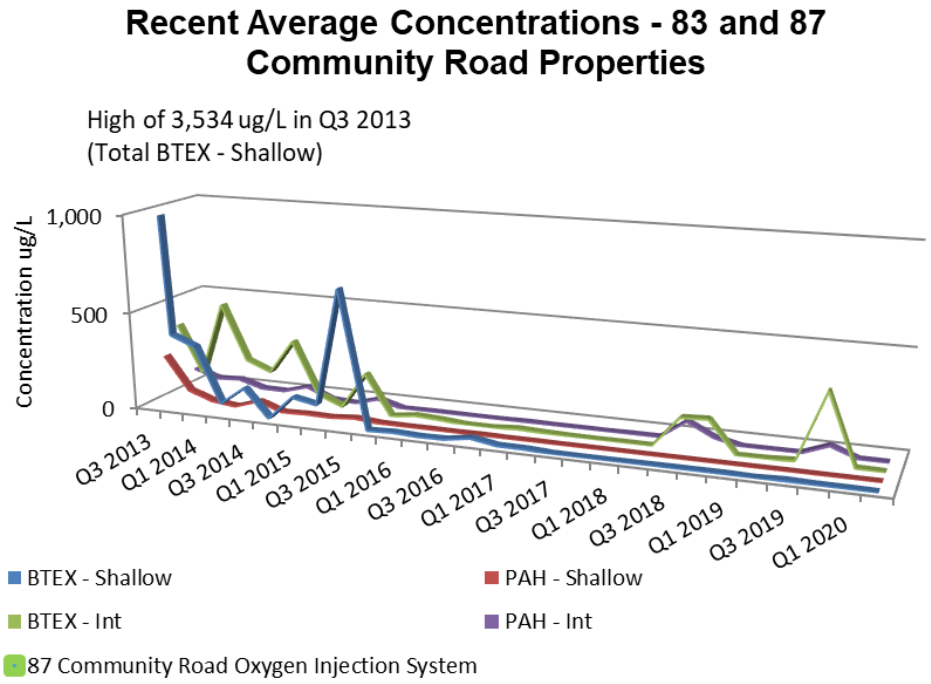
Historically, average shallow total BTEX concentrations in the area have been as high as approximately 80,000 µg/L and were over 13,000 µg/L during Q3 2010 following the completion of the upgradient excavations. Following the start-up of the oxygen injection system in the area in Q4 2013, average shallow total BTEX concentrations decreased by three orders of magnitude, from over 3,000 µg/L to near detection levels. During Q3 2020, the maximum shallow total BTEX concentration in the area was 4.3 µg/L in monitoring well OU3MW-19S. The highest detection in shallow wells in the annual monitoring period was 11.56 µg/L in OU3MW-19S during Q3 2019. Detections above AWQS were limited to one detection each of ethylbenzene in MW-83 and OU3MW-19S in Q3 2019. The average historical detection for shallow PAHs peaked over 1,000 µg/L and were generally at or below detection levels during Q3 2020.

Intermediate zone average total BTEX concentrations, 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 at least two orders-of-magnitude below the Q2 2011 average value. The average intermediate zone total BTEX concentrations have generally remained low (below 20 µg/L) since the Q4 2015 sampling event; however, one detection above 100 µg/L was noted during the current annual monitoring period in well MW-64 (1,602 µg/L) in Q4 2019. Although lower in magnitude, an increase above 100 µg/L in the corresponding total PAH

concentration in well MW-64 (147.1 µg/L) was also observed in Q4 2019. Concentrations in MW-64 were at or near detections levels in the subsequent sampling events during the annual monitoring period, but total xylene did exceed the AWQS in Q3 2020. Additional detections above AWQS were limited to one detection of ethylbenzene in Q3 2019 and two detections of total xylenes in Q3 2019 and Q1 2020 in well MW-65. The graphs below present average concentrations in the area since Q1 2009, illustrating the significant decreases evident since the system installation. The second graph shows more recent average concentrations in wells in the area. All the average detections shown in the graphs were at, or near detections levels during the final two sampling events of the annual monitoring period, with the exception of the detections noted above.

Average Concentrations - 83 and 87 Community Road Properties





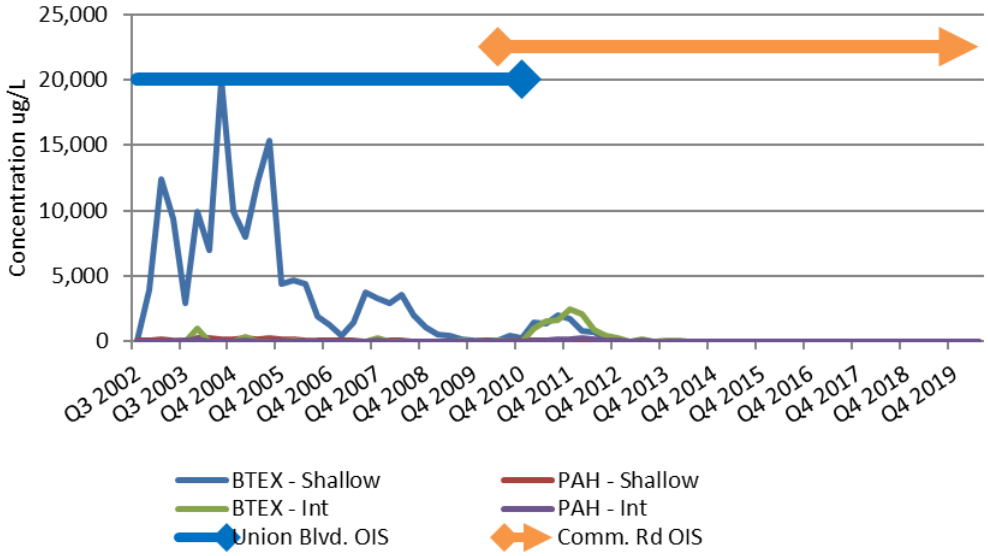
In comparison to Q1 2009, shallow impacts (above 100 µg/L) have been significantly reduced and are no longer present in the area.

4.3.2.4 Downgradient Area

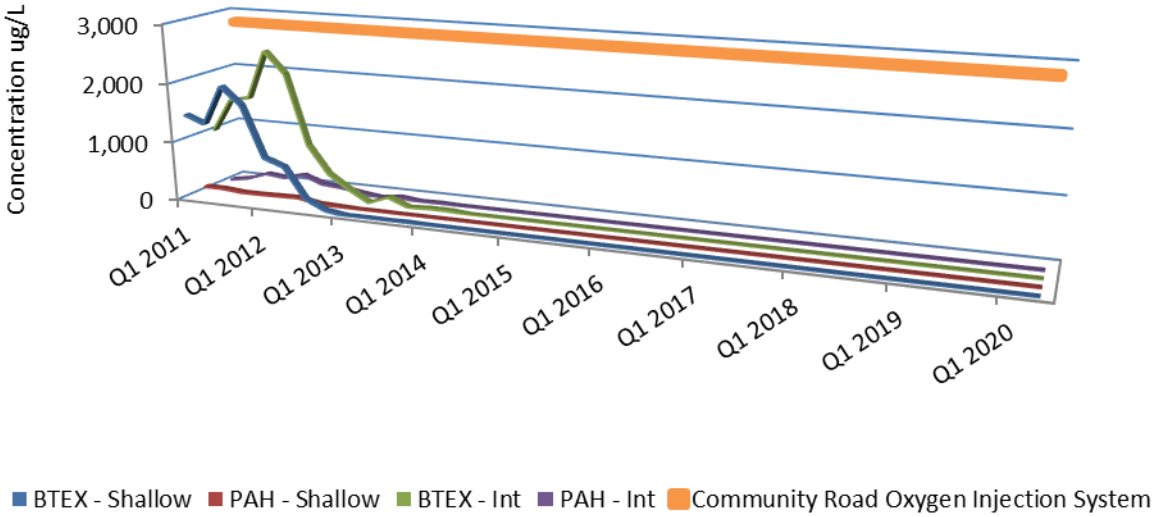
Based on the approved reduction criteria, most of the monitoring wells located downgradient of the Community Road oxygen injection system were removed from the sampling program. Significant concentration reductions in the shallow and intermediate zone in this area are evident resulting in the sampling reductions.

No impacts above 100 µg/L in the downgradient area have been identified since Q1 2014 and no exceedances of the AWQS were observed during the annual monitoring period. 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. The graph below illustrates decreases in concentrations from 2004 through Q1 2010 followed by increasing total BTEX and total PAH concentrations roughly coincident with relocation of the Union Boulevard oxygen injection system and following abandonment of the Brightwaters Yard oxygen injection system and source area excavation in late 2010.

Downgradient - Average Shallow and Intermediate Groundwater Concentrations



Recent Downgradient - Average Shallow and Intermediate Groundwater Concentrations



In Q1 2009, downgradient impacts were limited to BTEX in the shallow zone. As discussed above, these impacts were not present in the area in recent sampling events. The decreases in the area are likely directly attributable to remedial efforts conducted within and upgradient of the area.

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 Q3 2020 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 Q3 2020.

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. An additional monitoring well cluster, WCMW-04, was not sampled in Q3 and Q4 2019 due to restricted access on the LIRR property, but the restrictions were addressed, and the well was sampled in Q1 and Q3 2020. 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 (Q3 2020) a total of seven wells in OU-4 were sampled; two shallow and five 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

In comparison to the OU-4 composite Baseline Q1 2009 Plume, which was indicative of conditions prior to S-ISCO injection, the OU-4 composite Q3 2020 plume depiction is smaller in size (**Figure 1**); however, access restrictions to several monitoring wells in the Cesspool Area during Q3 2020 have affected and likely reduced the current depiction of the plume in the area. The composite plume in Q3 2020 is present in two wells within the Cesspool Area.

The Q3 2020 composite area of impacts is slightly larger than the impacts depicted a year ago, (Q2 2019); however, this is likely due to additional access restrictions in-place during the last annual sampling event that have since been addressed for the WCMW-04 monitoring well cluster.

4.4.2 Current Plume Description and Comparisons

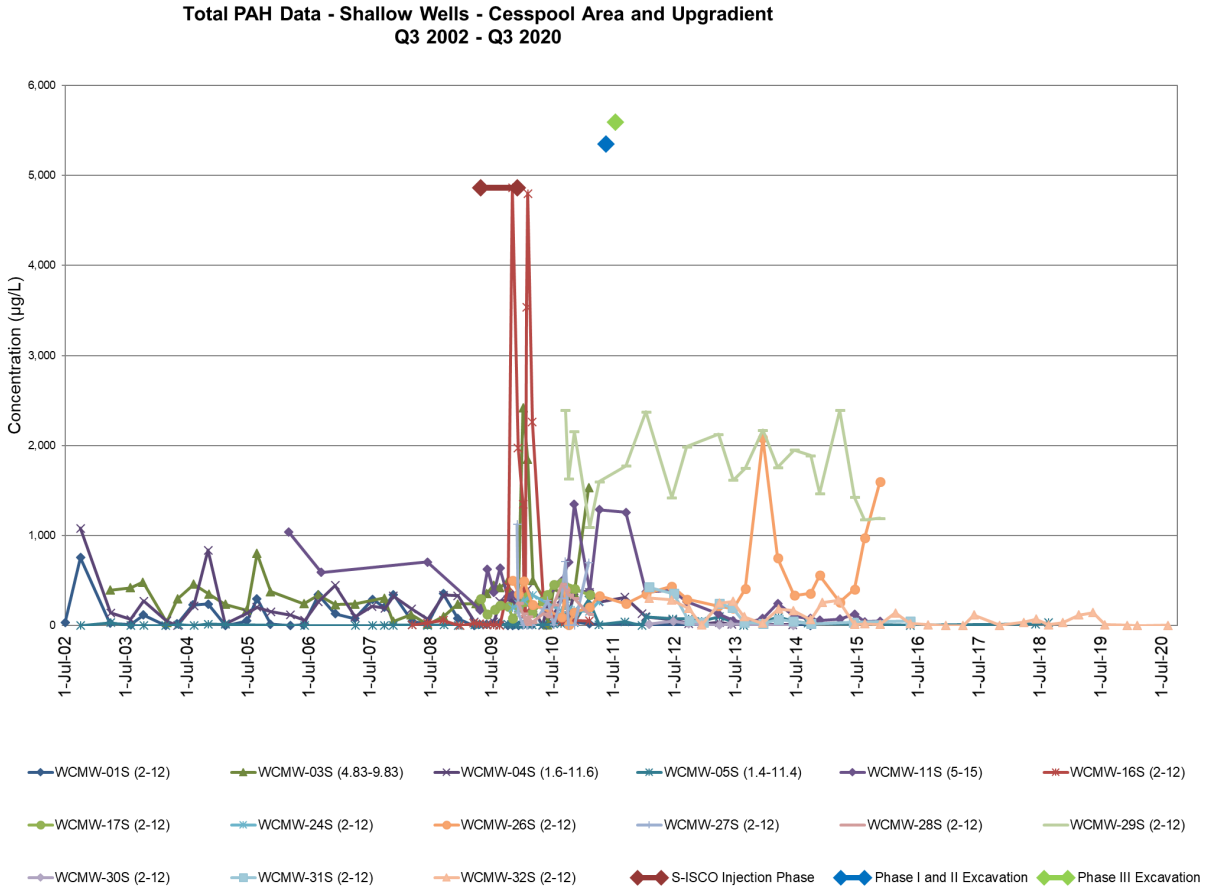
As depicted on **Figures 11, 13**, and **15**, there were no detections of total BTEX above 100 µg/L in OU-4 during Q1 2009 or Q3 2020. As a result of the limited detections of BTEX, the evaluation of groundwater quality for OU-4 will focus on PAHs as the primary COCs. Concentrations of PAHs above 100 µg/L were present in two wells in the intermediate groundwater zone during Q3 2020 (**Figure 14**). No PAHs above 100 µg/L were detected in the shallow or deep groundwater zone, as depicted on **Figures 12** and **16**, respectively. The total BTEX and total PAH concentrations detected in each of the wells through Q3 2020 are presented in **Table 4-14** and **Table 4-15**. The complete analytical results for Q3 2019 through Q3 2020 are presented in **Table 4-16**. The monitoring well locations are shown on **Figure 1**.

There were no detections of total PAHs greater than 100 µg/L in water table wells during the annual monitoring period; however, the monitoring wells with historically elevated detections (WCMW-11S, WCMW-26S, and WCMW-29S) located in the Cesspool Area were not sampled due to access restrictions as mentioned above. During the last sampling event in which access to the wells with historical detections mentioned above was available (Q4 2015), elevated concentrations were detected in two out of three wells with a maximum detection of 1,597 µg/L in WCMW-26S. Concentrations from this sampling event are shown in **Table 4-16**. 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. Average shallow total PAH concentrations have been variable but generally decreasing since the completion of excavation activity. In Q4 2015 only three shallow wells, WCMW-29S, WCMW-26S, and WCMW-11S, had PAH concentrations in exceedance of the groundwater quality criteria. WCWM-26S and WCMW-11S are located downgradient of WCMW-29S on the 22 Oak Street property. The total PAH concentration in well WCMW-32S, located upgradient of the Cesspool Area, decreased and remained below 100 µg/L during the annual monitoring period. During the annual monitoring period detections above the AWQS in shallow wells in this area were limited to one detection of acenaphthene in well WCMW-14S in Q4 2019.

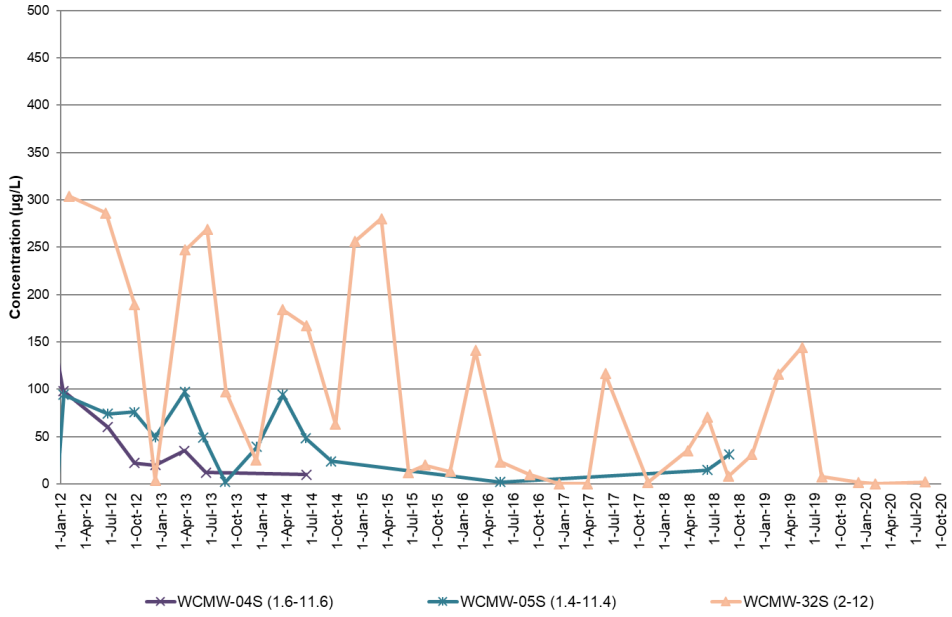
Detections of total PAHs greater than 100 µg/L in intermediate wells during Q3 2020 was limited to wells WCMW-04I and WCMW-05I2; however, other intermediate wells, some of which are typically elevated, were not sampled during Q3 2020 due to access restrictions. Since the completion of excavation (Q3 2011), concentrations have been variable, but generally decreasing. Total PAH impacts in the intermediate zone in Q3 2020 are present in the Cesspool Area just north of the LIRR, while the Q1 2009 impacts extend farther westward away from the LIRR ROW. The extent of intermediate zone total PAH impacts in groundwater within the past year have been confined to the Cesspool Area. Decreasing trends were evident in wells WCMW-05I and WCMW-30I during the current annual period.

Recent total PAH concentrations in shallow and intermediate groundwater wells in the Cesspool Area and upgradient area are provided on the time series graphs below. The time series graphs

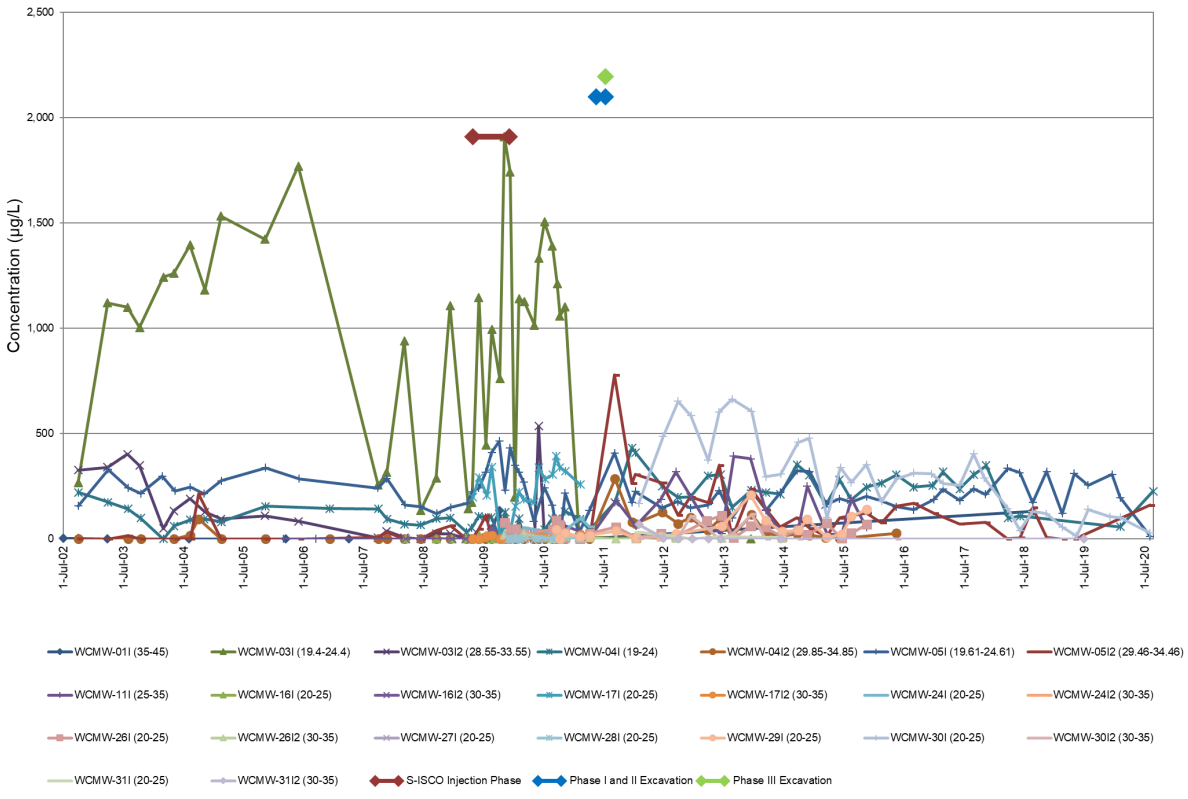
generally illustrate an increase in PAH concentrations during S-ISCO application followed by a decrease in PAH impacts after excavation was complete. The exceptions to the trend are shallow groundwater monitoring wells WCMW-26S and WCMW-29S (as discussed above), as well as WCMW-32S and intermediate monitoring wells WCMW-04I and WCMW-05I. Concentrations in in WCMW-32S, which is within the upgradient excavation zone, have been historically varied but have decreased and remained below 100 µg/L during the annual monitoring period. Concentrations in WCMW-04I and WCMW-05I have been variable but have remained within the range of historic concentrations. The total PAH concentration in WCMW-05I during Q3 2020 was below 100 µg/L for the first time since Q1 2011. WCMW-04I and WCMW-05I are located outside of the excavation area and are screened beneath the excavation zone.

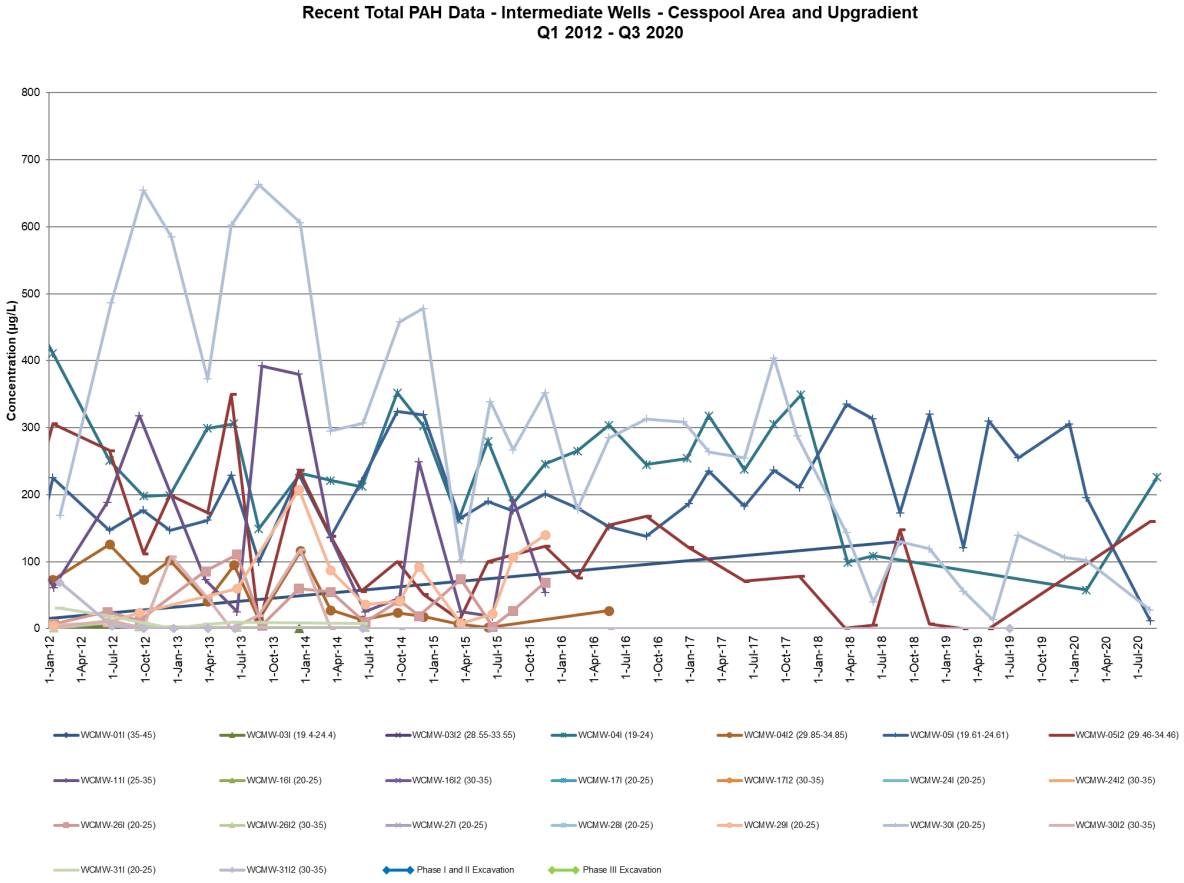


Recent Total PAH Data - Shallow Wells - Cesspool Area and Upgradient
Q1 2012 - Q3 2020

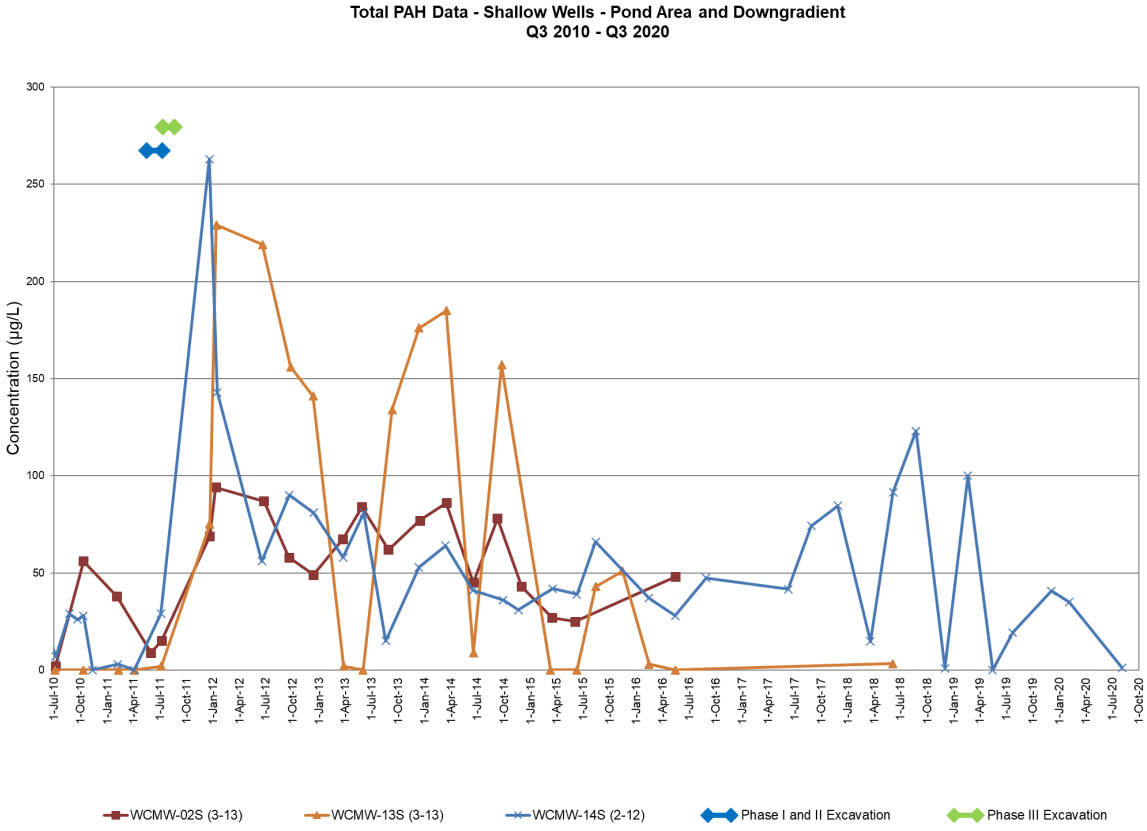


Total PAH Data - Intermediate Wells - Cesspool Area and Upgradient
Q3 2002 - Q3 2020





Total PAH concentrations in shallow and intermediate groundwater in the Pond Area and downgradient generally increased following S-ISCO application and excavation. These increases were generally followed by decreases in concentrations in most wells as shown on the graphs below. The total PAH concentrations throughout the current annual monitoring period were below 100 µg/L in all wells in the Pond Area and downgradient. Detections above AWQS were limited to one detection of acenaphthene in Q4 2019 in well WCMW-14S. Concentrations have been historically varied in WCMW-14S, but a generally decreasing trend was evident in this well during the current annual monitoring period with the concentrations remaining below 50 µg/L throughout. Concentrations in monitoring well WCMW-14I, located on the upgradient portion of the Pond Area south of the LIRR have been decreasing and were at or near detection levels in five of the last seven sampling events. Concentrations in WCMW-14I have historically been varied with sporadic increases above 100 µg/L. The variations in WCMW-14S may be related to the fluctuation in groundwater elevations.


Total PAH Data - Shallow Wells - Pond Area and Downgradient
Q3 2010 - Q3 2020
Concentration (µg/L)
300
250
200
150
100
50
0
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
1-Jul-12
1-Oct-12
1-Jan-13
1-Apr-13
1-Jul-13
1-Oct-13
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1-Apr-16
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1-Apr-17
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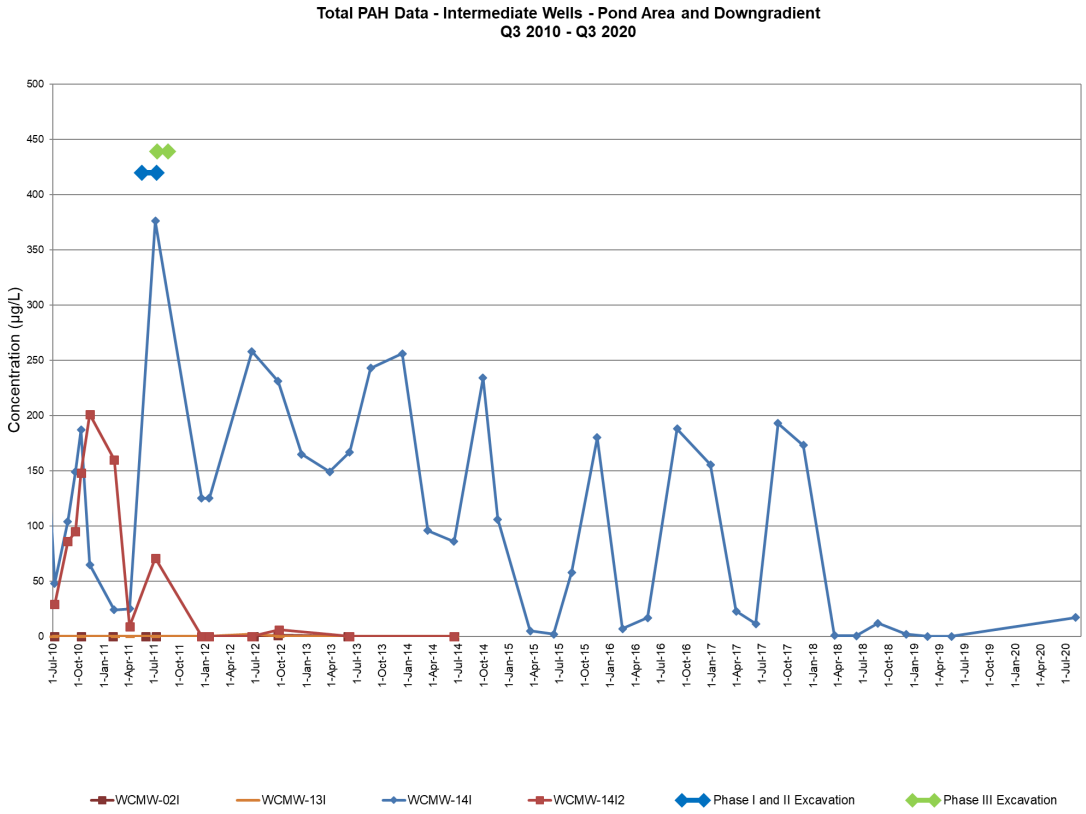
1-Oct-17
1-Jan-18
1-Apr-18
1-Jul-18
1-Oct-18
1-Jan-19
1-Apr-19
1-Jul-19
1-Oct-19
1-Jan-20
1-Apr-20
1-Jul-20
1-Oct-20
WCMW-02S (3-13)
WCMW-13S (3-13)
WCMW-14S (2-12)
Phase I and II Excavation
Phase III Excavation



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. A discussion of the analytical results is presented below. This data is presented in **Appendix H**.

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 H-1 of **Appendix H**. 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. A majority of the concentrations at these wells do not exceed the AWQS of 250,000 µg/L. 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 H,** Graph H-2 for OU-1 monitoring wells and Graph H-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.

Three wells in OU-1 and sixteen wells in OU-2 were sampled for sulfate during the past year (Q3 2019 through Q3 2020). None of the samples exceeded the AWQS of 250,000 µg/L.

Graphical trends observed in Graphs H-2 and H-3 of **Appendix H** indicate that concentrations are declining in the wells located in OU-1 and the majority of wells in OU-2. The only increasing trends apparent are in OU-2 monitoring wells OU2MW-02I2 and OU2MW-19D. 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.
- Continue quarterly 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 (pending NYSDEC approval) and begin post-shutdown monitoring.
- 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.

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.
- Continue to sample for sulfate at and downgradient of monitoring wells that have historically exceeded the AWQS criteria for Class GA groundwater. Evaluate the elimination of sulfate sampling if no additional exceedances are noted during the next annual monitoring period (Q4 2020 through Q3 2021).

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.
- Soil excavation as part of the construction of a new building on the Bay Shore West parcel has been largely completed. Additional soil management will be conducted in accordance with the Draft Site Management Plan as needed to support utility upgrades.

5.3.2 Operable Unit 2

- Continue quarterly 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 (pending NYSDEC approval) and begin post-shut down monitoring.

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 currently planned for the area in Spring 2021.

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.

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			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OZSV-01	OZSV-01	OZSV-01	OZSV-02	DUP-072519	OZSV-02	OZSV-02	DUP-092519	OZSV-03	OZSV-03	OZSV-03
			Sample Date	7/25/2019	8/27/2019	9/25/2019	7/25/2019	7/25/2019	8/27/2019	9/25/2019	9/25/2019	7/25/2019	8/27/2019	9/25/2019
			Parent Sample Code					OZSV-02			OZSV-02			
			Validation Level	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4
Analyte	Units	CAS no.	NYSDOH Background Outdoor Air 95th Percentile											
BTEX	µg/m³													
Benzene		71-43-2	5.8	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 UJ	0.639 U	0.639 U	0.639 U	0.639 U
Toluene		108-88-3	21	**0.554 J**	0.754 U	0.754 U	**0.222 J**	**2.64 J**	**0.716 J**	**0.283 J**	0.754 U	0.754 U	0.754 U	**33.4**
Ethylbenzene		100-41-4	1.9	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 UJ	0.869 U	0.869 U	0.869 U	0.869 U
o-Xylene		95-47-6	2.5	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 UJ	0.869 U	0.869 U	0.869 U	0.869 U
m/p-Xylene		179601-23-1	3.1	**0.573 J**	1.74 U	1.74 U	1.74 U	**0.604 J**	1.74 U	1.74 UJ	1.74 U	1.74 U	1.74 U	1.74 U
Other VOCs	µg/m³													
Acetaldehyde		75-07-0	NE	**6.95**	**4.23 J**	**6.07**	**15 J**	**7.96 J**	**5.51**	**6.7 J**	**6.79**	**8.31**	**7.08**	**24.1**
Acetone		67-64-1	58	**6.51**	**2.47 J**	**1.39 J**	**6.91 J**	**3.75 J**	2.38 U	**3.04 J**	**3.68**	2.38 U	**2.47 J**	**5.94**
Acrolein (propenal)		107-02-8	NE	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	**0.151 J**	1.15 UJ	1.15 U	1.15 U	1.15 U	1.15 U
Allyl chloride (3-Chloropropene)		107-05-1	NE	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 UJ	0.626 U	0.626 U	0.626 U	0.626 U
Benzothiophene (1-Benzothiophene)		11095-43-5	NE	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 UJ	2.74 U	2.74 U	2.74 U	2.74 U
Bromodichloromethane		75-27-4	NE	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 UJ	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform		75-25-2	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 UJ	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane		74-83-9	0.9	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 UJ	0.777 U	0.777 U	0.777 U	0.777 U
1,3-Butadiene		106-99-0	NE	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 UJ	0.442 U	0.442 U	0.442 U	0.442 U
Butane		106-97-8	NE	**0.171 J**	0.475 U	0.475 U	**0.395 J**	0.475 U	0.475 U	**0.359 J**	0.475 U	**0.197 J**	**0.185 J**	0.475 U
t-Butyl alcohol (Tertiary Butyl Alcohol)		75-65-0	NE	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 UJ	1.52 U	1.52 U	1.52 U	1.52 U
Carbon disulfide		75-15-0	NE	**0.258 J**	0.623 U	**0.99**	0.623 U	**0.99**	0.623 U	0.623 UJ	0.623 U	0.623 U	**0.626**	**3.61**
Carbon tetrachloride		56-23-5	1	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 UJ	1.26 U	1.26 U	1.26 U	1.26 U
Chlorobenzene		108-90-7	0.25	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 UJ	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane		75-00-3	0.4	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 UJ	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform (Trichloromethane)		67-66-3	0.5	**4.24**	**6.84**	**7.42**	**2.93**	**3.71**	**9.47**	**9.57 J**	**9.62**	**5.76**	**4.93**	**4.2**
Chloromethane		74-87-3	4.6	**0.279 J**	**0.337 J**	0.413 U	**0.461**	0.413 U	**0.178 J**	0.413 UJ	**0.163 J**	0.413 U	0.413 U	**0.361 J**
2-Chlorotoluene (o-Chlorotoluene)		95-49-8	NE	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 UJ	1.04 U	1.04 U	1.04 U	1.04 U
Cryofluorane (Freon 114)		76-14-2	1.3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 UJ	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane		110-82-7	3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 UJ	0.688 U	0.688 U	0.688 U	0.688 U
n-Decane (C10)		124-18-5	3.6	**0.338 J**	1.16 U	1.16 U	**0.303 J**	**3.32 J**	**1.22**	1.16 UJ	1.16 U	1.16 U	**0.303 J**	1.16 U
Dibromochloromethane		124-48-1	NE	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane (EDB)		106-93-4	0.25	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 UJ	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene (o-DCB)		95-50-1	0.9	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene (m-DCB)		541-73-1	0.7	1.2 UJ	1.2 U	1.2 U	1.2 UJ	1.2 UJ	1.2 U	1.2 UJ	1.2 U	1.2 UJ	1.2 U	1.2 U
1,4-Dichlorobenzene (p-DCB)		106-46-7	0.8	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane (Freon 12)		75-71-8	11	**1.64**	**1.46**	**1.5**	**1.57**	**1.28**	**1.09**	**1.19 J**	**1.28**	**19.9**	**15.5**	**16.2**
1,1-Dichloroethane		75-34-3	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 UJ	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloroethane		107-06-2	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 UJ	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene		75-35-4	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 UJ	0.793 U	0.793 U	0.793 U	0.793 U
cis-1,2-Dichloroethene		156-59-2	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 UJ	0.793 U	0.793 U	0.793 U	0.793 U
trans-1,2-Dichloroethene		156-60-5	NE	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 UJ	0.793 U	0.793 U	0.793 U	0.793 U
1,2-Dichloropropane		78-87-5	0.25	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 UJ	0.924 U	0.924 U	0.924 U	0.924 U
cis-1,3-Dichloropropene		10061-01-5	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 UJ	0.908 U	0.908 U	0.908 U	0.908 U
trans-1,3-Dichloropropene		10061-02-6	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 UJ	0.908 U	0.908 U	0.908 U	0.908 U
1,4-Dioxane		123-91-1	NE	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 UJ	0.721 U	0.721 U	0.721 U	0.721 U
n-Dodecane (C12)		112-40-3	7.6	**0.543 J**	**1.42**	**0.536 J**	**1.69 J**	**0.989 J**	**3.06**	1.39 UJ	1.39 U	**1.3 J**	**0.613 J**	1.39 U
Ethanol		64-17-5	220	4.71 U	4.82 U	5.97 U	4.71 U	4.71 U	4.71 U	5.18 UJ	5.07 U	4.71 U	4.71 U	5.71 U
2-Ethylthiophene		872-55-9	NE	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 UJ	0.918 U	0.918 U	0.918 U	0.918 U
4-Ethyltoluene (p-Ethyltoluene)		622-96-8	NE	0.983 U	0.983 U	0.983 U	0.983 U	**0.334 J**	0.983 U	0.983 UJ	0.983 U	0.983 U	0.983 U	0.983 U
n-Heptane (C7)		142-82-5	5.1	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 UJ	0.82 U	0.82 U	0.82 U	0.82 U
1,3-Hexachlorobutadiene (C-46)		87-68-3	7	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 UJ	2.13 U	2.13 U	2.13 U	2.13 U
n-Hexane (C6)		110-54-3	3.6	0.705 U	0.705 U	0.705 U	**0.761**	0.705 U	0.705 U	0.705 UJ	0.705 U	0.705 U	0.705 U	0.705 U
2-Hexanone		591-78-6	NE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 UJ	0.82 U	0.82 U	0.82 U	0.82 U
Indane		496-11-7	NE	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 UJ	0.967 U	0.967 U	0.967 U	0.967 U
Indene		95-13-6	NE	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 UJ	0.951 U	0.951 U	0.951 U	0.951 U
Methyl ethyl ketone (2-Butanone)		78-93-3	17	**0.97 J**	**0.227 J**	1.47 U	**1.3 J**	**0.92 J**	**0.493 J**	1.47 UJ	1.47 U	**0.46 J**	**0.336 J**	**1.09 J**
Methyl tert-butyl ether (MTBE)		1634-04-4	5.9	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 UJ	0.721 U	0.721 U	0.721 U	0.721 U
4-Methyl-2-pentanone (MIBK)		108-10-1	2.9	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 UJ	2.05 U	2.05 U	2.05 U	2.05 U
Methylene chloride		75-09-2	2.9	1.74 U	**0.653 J**	1.74 U	**4.62 J**	1.74 UJ	**0.292 J**	1.74 UJ	1.74 U	1.74 U	1.74 U	1.74 U
1-Methylnaphthalene		90-12-0	NE	5.82 U	5.82 UJ	5.82 U	5.82 U	5.82 U	5.82 UJ	5.82 UJ	5.82 U	5.82 U	5.82 UJ	5.82 U
2-Methylnaphthalene		91-57-6	NE	5.82 U	5.82 UJ	5.82 UJ	5.82 U	5.82 U	5.82 UJ	5.82 UJ	5.82 UJ	5.82 U	5.82 UJ	5.82 UJ

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National Grid, Bay Shore/Brightwaters Former MGP Site

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OZSV-01	OZSV-01	OZSV-01	OZSV-02	DUP-072519	OZSV-02	OZSV-02	DUP-092519	OZSV-03	OZSV-03	OZSV-03
			Sample Date	7/25/2019	8/27/2019	9/25/2019	7/25/2019	7/25/2019	8/27/2019	9/25/2019	9/25/2019	7/25/2019	8/27/2019	9/25/2019
			Parent Sample Code					OZSV-02			OZSV-02			
			Validation Level	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4
Analyte	Units	CAS no.	NYSDOH Background Outdoor Air 95th Percentile											
2-Methylthiophene		554-14-3	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 UJ	0.803 U	0.803 U	0.803 U	0.803 U
3-Methylthiophene		616-44-4	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 UJ	0.803 U	0.803 U	0.803 U	0.803 U
Naphthalene		91-20-3	10	**0.682 J**	1.05 U	1.05 U	1.05 U	**0.524 J**	1.05 U	1.05 UJ	1.05 U	1.05 U	1.05 U	1.05 U
n-Nonane (C9)		111-84-2	1.2	1.05 U	1.05 U	1.05 U	1.05 U	**0.325 J**	1.05 U	1.05 UJ	1.05 U	1.05 U	1.05 U	1.05 U
n-Octane (C8)		111-65-9	2.1	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 UJ	0.934 U	0.934 U	0.934 U	0.934 U
Pentane		109-66-0	NE	0.59 U	0.59 U	0.59 U	**0.23 J**	0.59 U	0.59 U	0.59 UJ	0.59 U	0.59 U	0.59 U	0.59 U
2-Propanol (Isopropyl Alcohol)		67-63-0	NE	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 UJ	1.23 U	1.23 U	1.23 U	**1.18 J**
Styrene		100-42-5	0.6	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 UJ	0.852 U	0.852 U	0.852 U	0.852 U
1,1,2,2-Tetrachloroethane		79-34-5	0.25	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 UJ	1.37 U	1.37 U	1.37 U	1.37 U
Tetrachloroethene (PCE)		127-18-4	1.6	**1.73**	**0.949 J**	**1.16 J**	**3.5**	**4.22**	**3.3**	**3.63 J**	**3.6**	**4.03**	**3.49**	**2.79**
1,2,4,5-Tetramethylbenzene		95-93-2	NE	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 U	1.1 U	1.1 U	1.1 U
Thiophene		110-02-1	NE	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 UJ	0.688 U	0.688 U	0.688 U	0.688 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	3.6	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 UJ	1.53 U	1.53 U	1.53 U	1.53 U
1,2,4-Trichlorobenzene		120-82-1	4.8	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 UJ	1.48 U	1.48 U	1.48 U	1.48 U
1,1,1-Trichloroethane (TCA)		71-55-6	0.7	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 UJ	1.09 U	1.09 U	1.09 U	1.09 U
1,1,2-Trichloroethane		79-00-5	0.25	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 UJ	1.09 U	1.09 U	1.09 U	1.09 U
Trichloroethene (TCE)		79-01-6	0.5	**0.656 J**	1.07 U	1.07 U	1.07 U	**0.478 J**	1.07 U	1.07 UJ	**0.462 J**	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane (Freon 11)		75-69-4	6.1	**0.933 J**	**0.804 J**	**0.882 J**	**0.905 J**	**0.916 J**	**0.731 J**	**0.826 J**	**0.843 J**	**0.95 J**	**0.719 J**	**0.91 J**
1,2,3-Trimethylbenzene		526-73-8	0.6	0.983 U	0.983 U	0.983 U	0.983 U	**1.11**	0.983 U	0.983 UJ	0.983 U	0.983 U	0.983 U	0.983 U
1,2,4-Trimethylbenzene		95-63-6	2.5	0.983 U	0.983 U	0.983 U	0.983 UJ	**2.9 J**	**0.305 J**	0.983 UJ	0.983 U	0.983 U	0.983 U	0.983 U
1,3,5-Trimethylbenzene		108-67-8	1	0.983 U	0.983 U	0.983 U	0.983 U	**0.811 J**	0.983 U	0.983 UJ	0.983 U	0.983 U	0.983 U	0.983 U
2,2,4-Trimethylpentane (iso-Octane)		540-84-1	2	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 UJ	0.934 U	0.934 U	0.934 U	0.934 U
n-Undecane (C11)		1120-21-4	2.3	**0.774 J**	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 UJ	1.28 U	**0.588 J**	1.28 U	1.28 U
Vinyl bromide (Bromoethene)		593-60-2	NE	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 UJ	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl chloride		75-01-4	0.25	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 UJ	0.511 U	0.511 U	0.511 U	0.511 U

Notes:
$\mu g/m^3$ = micrograms per cubic meter
BTEX = benzene, toluene, ethylbenzene, and xylene
VOCs = volatile organic compounds

[1] Source: NYSDOH, October 2006. Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes reported in various locations within

Bolding indicates a detected result value
NE = not established

Data qualifiers:
J = estimated value
U = not detected to the reporting limit shown
UJ = The results was not detected at or above the reporting limit shown and the reporting limit is estimated.

Table 2-1. Q4-2019 Soil Vapor Quarterly Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid, Bay Shore/Brightwaters Former MGP Site

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OZSV-01	OZSV-01	OZSV-01	OZSV-02	OZSV-02	DUP-112519	OZSV-02	OZSV-03	OZSV-03	OZSV-03
			Sample Date	10/30/2019	11/25/2019	12/23/2019	10/30/2019	11/25/2019	11/25/2019	12/23/2019	10/30/2019	11/25/2019	12/23/2019
			Parent Sample Code						OZSV-02				
			Validation Level	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4
Analyte	Units	CAS no.	NYSDOH Background Outdoor Air 95th Percentile										
BTEX	µg/m^3												
Benzene		71-43-2	5.8	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	**0.275 J**	0.639 U	0.639 U	0.639 U	0.639 U
Toluene		108-88-3	21	0.754 U	0.754 U	**0.268 J**	0.754 U	**0.301 J**	**0.886**	0.754 U	0.754 U	0.754 U	**0.196 J**
Ethylbenzene		100-41-4	1.9	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
o-Xylene		95-47-6	2.5	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
m/p-Xylene		179601-23-1	3.1	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**0.591 J**	1.74 U	1.74 U	1.74 U	1.74 U
Other VOCs	µg/m^3												
Acetaldehyde		75-07-0	NE	**6.67**	**2.76 J**	**2.63 J**	**3.04 J**	**2.95 J**	**4.25 J**	**1.8 J**	**5.01**	**2.36 J**	4.5 U
Acetone		67-64-1	58	2.38 U	**1.71 J**	**3.82**	2.38 U	**2.83**	**4.2 J**	2.38 U	2.38 U	2.38 U	**2.09 J**
Acrolein (propenal)		107-02-8	NE	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	**0.188 J**	1.15 U	1.15 U	1.15 U	1.15 U
Allyl chloride (3-Chloropropene)		107-05-1	NE	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzothiophene (1-Benzothiophene)		11095-43-5	NE	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U
Bromodichloromethane		75-27-4	NE	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform		75-25-2	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane		74-83-9	0.9	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
1,3-Butadiene		106-99-0	NE	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
Butane		106-97-8	NE	0.475 U	0.475 U	**0.366 J**	0.475 U	**1.06**	**1.8**	**0.238 J**	0.475 U	**0.233 J**	0.475 U
t-Butyl alcohol (Tertiary Butyl Alcohol)		75-65-0	NE	1.52 U	**0.152 J**	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U
Carbon disulfide		75-15-0	NE	0.623 U	**0.452 J**	0.623 U	0.623 U	**0.181 J**	**0.174 J**	0.623 U	0.623 U	0.623 U	0.623 U
Carbon tetrachloride		56-23-5	1	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U
Chlorobenzene		108-90-7	0.25	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane		75-00-3	0.4	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform (Trichloromethane)		67-66-3	0.5	**3.16**	**3.98**	**3.59**	**6.1**	**4.56**	**4.26**	**2.39**	**3.83**	**2.56**	**1.41**
Chloromethane		74-87-3	4.6	0.413 U	0.413 U	**0.173 J**	0.413 U	**0.353 J**	**0.258 J**	0.413 U	0.413 U	**0.173 J**	0.413 U
2-Chlorotoluene (o-Chlorotoluene)		95-49-8	NE	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Cryofluorane (Freon 114)		76-14-2	1.3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane		110-82-7	3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 UJ	**2.32 J**	0.688 U	0.688 U	0.688 U	0.688 U
n-Decane (C10)		124-18-5	3.6	1.16 U	1.16 U	1.16 U	**0.652 J**	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U
Dibromochloromethane		124-48-1	NE	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane (EDB)		106-93-4	0.25	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene (o-DCB)		95-50-1	0.9	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene (m-DCB)		541-73-1	0.7	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene (p-DCB)		106-46-7	0.8	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane (Freon 12)		75-71-8	11	**0.87 J**	**0.93 J**	**1.25**	**0.875 J**	**1.01**	**1.15**	**1.02**	**13.7**	**16.9**	**11.4**
1,1-Dichloroethane		75-34-3	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloroethane		107-06-2	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene		75-35-4	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	**0.619 J**	0.793 U	0.793 U	0.793 U	0.793 U
cis-1,2-Dichloroethene		156-59-2	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
trans-1,2-Dichloroethene		156-60-5	NE	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
1,2-Dichloropropane		78-87-5	0.25	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
cis-1,3-Dichloropropene		10061-01-5	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
trans-1,3-Dichloropropene		10061-02-6	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
1,4-Dioxane		123-91-1	NE	0.721 U	0.721 U	**19**	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
n-Dodecane (C12)		112-40-3	7.6	**0.634 J**	1.39 U	**4.31**	**1.42**	1.39 U	1.39 U	1.39 U	1.39 U	1.39 U	1.39 U
Ethanol		64-17-5	220	4.71 U	**2.36 J**	**4.6 J**	4.71 U	**9.29**	**3.05 J**	4.71 U	4.71 U	4.71 U	4.71 U
2-Ethylthiophene		872-55-9	NE	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U
4-Ethyltoluene (p-Ethyltoluene)		622-96-8	NE	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
n-Heptane (C7)		142-82-5	5.1	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,3-Hexachlorobutadiene (C-46)		87-68-3	7	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
n-Hexane (C6)		110-54-3	3.6	0.705 U	0.705 U	0.705 U	0.705 U	**0.423 J**	**0.504 J**	0.705 U	0.705 U	0.705 U	0.705 U
2-Hexanone		591-78-6	NE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Indane		496-11-7	NE	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U
Indene		95-13-6	NE	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
Methyl ethyl ketone (2-Butanone)		78-93-3	17	**0.177 J**	**1.1 J**	1.47 U	1.47 U	1.47 U	**0.714 J**	1.47 U	**0.204 J**	1.47 U	1.47 U
Methyl tert-butyl ether (MTBE)		1634-04-4	5.9	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
4-Methyl-2-pentanone (MIBK)		108-10-1	2.9	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
Methylene chloride		75-09-2	2.9	1.74 U	1.74 U	**1.57 J**	1.74 U	1.74 UJ	**12.7 J**	**0.538 J**	1.74 U	1.74 U	1.74 U
1-Methylnaphthalene		90-12-0	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylnaphthalene		91-57-6	NE	5.82 U	5.82 U	5.82 UJ	5.82 U	5.82 U	5.82 U	5.82 UJ	5.82 U	5.82 U	5.82 UJ
2-Methylthiophene		554-14-3	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
3-Methylthiophene		616-44-4	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U

Table 2-1. Q4-2019 Soil Vapor Quarterly Results
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National Grid, Bay Shore/Brightwaters Former MGP Site

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OZSV-01	OZSV-01	OZSV-01	OZSV-02	OZSV-02	DUP-112519	OZSV-02	OZSV-03	OZSV-03	OZSV-03
			Sample Date	10/30/2019	11/25/2019	12/23/2019	10/30/2019	11/25/2019	11/25/2019	12/23/2019	10/30/2019	11/25/2019	12/23/2019
			Parent Sample Code						OZSV-02				
			Validation Level	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4	Level 4
Analyte	Units	CAS no.	NYSDOH Background Outdoor Air 95th Percentile										
Naphthalene		91-20-3	10	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Nonane (C9)		111-84-2	1.2	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Octane (C8)		111-65-9	2.1	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
Pentane		109-66-0	NE	0.59 U	0.59 U	0.59 U	0.59 U	**0.593**	**0.847**	0.59 U	0.59 U	0.59 U	0.59 U
2-Propanol (Isopropyl Alcohol)		67-63-0	NE	1.23 U	1.23 U	**1.73**	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U
Styrene		100-42-5	0.6	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
1,1,2,2-Tetrachloroethane		79-34-5	0.25	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
Tetrachloroethene (PCE)		127-18-4	1.6	**1.01 J**	**0.556 J**	1.36 U	**2.85**	**1.72**	**1.43**	**0.746 J**	**3.51**	**1.65**	**0.861 J**
1,2,4,5-Tetramethylbenzene		95-93-2	NE	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Thiophene		110-02-1	NE	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	3.6	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,2,4-Trichlorobenzene		120-82-1	4.8	1.48 U	1.48 UJ	1.48 U	1.48 U	1.48 UJ	1.48 UJ	1.48 U	1.48 U	1.48 UJ	1.48 U
1,1,1-Trichloroethane (TCA)		71-55-6	0.7	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1,2-Trichloroethane		79-00-5	0.25	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
Trichloroethene (TCE)		79-01-6	0.5	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane (Freon 11)		75-69-4	6.1	**0.461 J**	**0.433 J**	1.12 U	**0.556 J**	**0.534 J**	**0.545 J**	**0.405 J**	**0.596 J**	**0.657 J**	**0.45 J**
1,2,3-Trimethylbenzene		526-73-8	0.6	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2,4-Trimethylbenzene		95-63-6	2.5	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3,5-Trimethylbenzene		108-67-8	1	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
2,2,4-Trimethylpentane (iso-Octane)		540-84-1	2	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
n-Undecane (C11)		1120-21-4	2.3	1.28 U	1.28 U	1.28 U	**1.74**	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U
Vinyl bromide (Bromoethene)		593-60-2	NE	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl chloride		75-01-4	0.25	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U

Notes:

$\mu g/m^3$ = micrograms per cubic meter
BTEX = benzene, toluene, ethylbenzene, and xylene
VOCs = volatile organic compounds

[1] Source: NYSDOH, October 2006. Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes reported in various locations

Bolding indicates a detected result value
NE = not established

Data qualifiers:
J = estimated value
U = not detected to the reporting limit shown
UJ = The results was not detected at or above the reporting limit shown and the reporting limit is estimated.

Table 2-2. Q3-2019 Ambient Air Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid, Bay Shore/Brightwaters Former MGP Site

Analyte	Units	CAS no.	Operable Unit / Sample Name / Sample Date / Validation Level / NYSDOH Background Outdoor Air 95th Percentile	OU2 OZAA-6 7/25/2019 Level 2	OU2 OZAA-6 8/27/2019 Level 2	OU2 OZAA-6 9/25/2019 Level 2	OU2 OZAA-7 7/25/2019 Level 2	OU2 OZAA-7 8/27/2019 Level 2	OU2 OZAA-7 9/25/2019 Level 2	OU2 OZAA-8 7/25/2019 Level 2	OU2 OZAA-8 8/27/2019 Level 2	OU2 OZAA-8 9/25/2019 Level 2	OU2 OZAA-9 7/25/2019 Level 2	OU2 OZAA-9 8/27/2019 Level 2	OU2 OZAA-9 9/25/2019 Level 2	OU2 OZAA-10 7/25/2019 Level 2	OU2 OZAA-10 8/27/2019 Level 2	OU2 OZAA-10 9/25/2019 Level 2
BTEX	µg/m³																	
Benzene		71-43-2	5.8	**0.339 J**	**0.166 J**	**0.204 J**	**0.265 J**	**0.236 J**	**0.198 J**	**0.419 J**	0.639 U	**0.192 J**	**0.243 J**	**0.198 J**	**0.211 J**	**0.243 J**	0.639 U	0.639 U
Toluene		108-88-3	21	**0.897**	**0.381 J**	**0.486 J**	**0.622 J**	**0.456 J**	**0.411 J**	**1.21**	**0.433 J**	**0.554 J**	**0.652 J**	**0.441 J**	**0.426 J**	**0.637 J**	**0.309 J**	**0.411 J**
Ethylbenzene		100-41-4	1.9	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
o-Xylene		95-47-6	2.5	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	**0.243 J**	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
m/p-Xylene		179601-23-1	3.1	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**0.608 J**	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Other VOCs	µg/m³																	
Acetaldehyde		75-07-0	NE	**5.33**	**2.4 J**	**6.36**	**18**	**4.32 J**	**9.19**	**7.15**	**8.04**	**6.92**	**5.95**	**4.77**	**3.3 J**	**19.8**	**2.99 J**	**4.88**
Acetone		67-64-1	58	**7.03**	**3.52**	**5.04**	**7.67**	**4.3**	**5.32**	**6.79**	**3.56**	**5.34**	**7.39**	**3.56**	**4.75**	**8.48**	**3.37**	**8.79**
Acrolein (propenal)		107-02-8	NE	1.15 U	1.15 U	1.15 U	1.15 U	**0.213 J**	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	**0.232 J**	1.15 U	1.15 U	1.15 U	1.15 U
Allyl chloride (3-Chloropropene)		107-05-1	NE	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzothiophene (1-Benzothiophene)		11095-43-5	NE	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U
Bromodichloromethane		75-27-4	NE	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform		75-25-2	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane		74-83-9	0.9	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
1,3-Butadiene		106-99-0	NE	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
Butane		106-97-8	NE	**2.9**	**0.383 J**	**1.43**	**0.737**	**0.269 J**	**0.706**	**2.08**	**0.442 J**	**0.915**	**0.761**	**0.271 J**	**0.83**	**0.647**	**0.238 J**	**0.704**
t-Butyl alcohol (Tertiary Butyl Alcohol)		75-65-0	NE	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	**0.258 J**	1.52 U	1.52 U	**0.261 J**	1.52 U	1.52 U	**0.621 J**	1.52 U	1.52 U
Carbon disulfide		75-15-0	NE	0.623 U	**0.551 J**	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Carbon tetrachloride		56-23-5	1	**0.453 J**	1.26 U	1.26 U	**0.359 J**	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	**0.421 J**	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U
Chlorobenzene		108-90-7	0.25	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane		75-00-3	0.4	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform (Trichloromethane)		67-66-3	0.5	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane		74-87-3	4.6	**0.929**	**0.785**	**0.857**	**0.925**	**0.764**	**0.878**	**0.942**	**0.739**	**0.865**	**1.01**	**0.768**	**0.884**	**0.898**	**0.764**	**0.855**
2-Chlorotoluene (o-Chlorotoluene)		95-49-8	NE	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Cryofluorane (Freon 114)		76-14-2	1.3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane		110-82-7	3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	**0.272 J**	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
n-Decane (C10)		124-18-5	3.6	**0.402 J**	1.16 U	1.16 U	**0.355 J**	1.16 U	1.16 U	**0.407 J**	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	**0.308 J**	1.16 U	1.16 U
Dibromochloromethane		124-48-1	NE	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane (EDB)		106-93-4	0.25	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene (o-DCB)		95-50-1	0.9	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene (m-DCB)		541-73-1	0.7	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene (p-DCB)		106-46-7	0.8	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane (Freon 12)		75-71-8	11	**2.36**	**1.78**	**2.02**	**2.29**	**1.76**	**2.02**	**2.22**	**1.76**	**2.04**	**2.47**	**1.81**	**2.1**	**2.24**	**1.82**	**2.05**
1,1-Dichloroethane		75-34-3	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloroethane		107-06-2	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene		75-35-4	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
cis-1,2-Dichloroethene		156-59-2	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
trans-1,2-Dichloroethene		156-60-5	NE	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
1,2-Dichloropropane		78-87-5	0.25	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
cis-1,3-Dichloropropene		10061-01-5	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
trans-1,3-Dichloropropene		10061-02-6	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
1,4-Dioxane		123-91-1	NE	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
n-Dodecane (C12)		112-40-3	7.6	**0.703 J**	1.39 U	1.39 U	**0.529 J**	1.39 U	1.39 U	1.39 U	**0.703 J**	1.39 U	1.39 U	**0.71 J**	1.39 U	1.39 U	1.39 U	1.39 U
Ethanol		64-17-5	220	**7.5 B**	**4.97 B**	**7.91 B**	**9.91 B**	**5.35 B**	**7.76 B**	**7.88 B**	**5.95 B**	**8.37 B**	**6.84 B**	**5.6 B**	**7.44 B**	**10.8 B**	**5.14 B**	**7.82 B**
2-Ethylthiophene		872-55-9	NE	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U
4-Ethyltoluene (p-Ethyltoluene)		622-96-8	NE	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
n-Heptane (C7)		142-82-5	5.1	**0.234 J**	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**0.32 J**	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
1,3-Hexachlorobutadiene (C-46)		87-68-3	7	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
n-Hexane (C6)		110-54-3	3.6	**0.705**	0.705 U	**0.197 J**	**0.405 J**	0.705 U	0.705 U	**0.902**	**0.226 J**	**0.321 J**	**0.359 J**	**0.194 J**	0.705 U	**0.331 J**	0.705 U	0.705 U
2-Hexanone		591-78-6	NE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Indane		496-11-7	NE	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U
Indene		95-13-6	NE	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
Methyl ethyl ketone (2-Butanone)		78-93-3	17	**0.932 J**	**0.23 J**	**0.59 J**	**2.11**	**0.301 J**	1.47 U	**0.787 J**	**0.563 J**	**0.69 J**	**0.829 J**	**0.31 J**	1.47 U	**2.05**	**0.268 J**	1.47 U
Methyl tert-butyl ether (MTBE)		1634-04-4	5.9	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
4-Methyl-2-pentanone (MIBK)		108-10-1	2.9	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
Methylene chloride		75-09-2	2.9	**0.327 JB**	**0.382 J**	**0.313 J**	**0.309 JB**	**0.368 J**	**0.299 J**	**0.309 JB**	**0.316 J**	**0.403 J**	**0.344 JB**	**0.361 J**	**0.302 J**	**0.295 JB**	**0.723 J**	**0.306 J**
1-Methylnaphthalene		90-12-0	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylnaphthalene		91-57-6	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylthiophene		554-14-3	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
3-Methylthiophene		616-44-4	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
Naphthalene		91-20-3	10	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Nonane (C9)		111-84-2	1.2	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Octane (C8)		111-65-9	2.1	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
Pentane		109-66-0	NE	**2.13**	**0.328 J**	**0.729**	**0.649**	**0.245 J**	0.59 U	**2.13**	**0.363 J**	**0.552 J**	**0.655**	**0.233 J**	0.59 U	**0.555 J**	**0.254 J**	0.59 U
2-Propanol (Isopropyl Alcohol)		67-63-0	NE	**1.08 JB**	1.23 U	1.23 U	**0.941 JB**	1.23 U	1.23 U	**0.885 JB**	1.23 U	1.23 U	**0.875 JB**	1.23 U	1.23 U	**0.986 JB**	1.23 U	**1.03 JB**

Table 2-2. Q3-2019 Ambient Air Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid, Bay Shore/Brightwaters Former MGP Site

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OZAA-6	OZAA-6	OZAA-6	OZAA-7	OZAA-7	OZAA-7	OZAA-8	OZAA-8	OZAA-8	OZAA-9	OZAA-9	OZAA-9	OZAA-10	OZAA-10	OZAA-10
			Sample Date	7/25/2019	8/27/2019	9/25/2019	7/25/2019	8/27/2019	9/25/2019	7/25/2019	8/27/2019	9/25/2019	7/25/2019	8/27/2019	9/25/2019	7/25/2019	8/27/2019	9/25/2019
			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 2	Level 2	Level 2
Analyte	Units	CAS no.	NYSDOH Background Outdoor Air 95th Percentile															
Styrene		100-42-5	0.6	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
1,1,2,2-Tetrachloroethane		79-34-5	0.25	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
Tetrachloroethene (PCE)		127-18-4	1.6	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U
1,2,4,5-Tetramethylbenzene		95-93-2	NE	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Thiophene		110-02-1	NE	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	3.6	1.53 U	1.53 U	1.53 U	**0.514 J**	1.53 U	1.53 U	**0.521 J**	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	**0.514 J**	1.53 U	1.53 U
1,2,4-Trichlorobenzene		120-82-1	4.8	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,1,1-Trichloroethane (TCA)		71-55-6	0.7	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1,2-Trichloroethane		79-00-5	0.25	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
Trichloroethene (TCE)		79-01-6	0.5	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane (Freon 11)		75-69-4	6.1	**1.05 J**	**0.888 J**	**1.02 J**	**1.03 J**	**0.809 J**	**1.02 J**	**1.03 J**	**0.787 J**	**1.04 J**	**1.03 J**	**0.798 J**	**1.03 J**	**1.02 J**	**0.798 J**	**1.02 J**
1,2,3-Trimethylbenzene		526-73-8	0.6	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2,4-Trimethylbenzene		95-63-6	2.5	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	**0.285 J**	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3,5-Trimethylbenzene		108-67-8	1	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
2,2,4-Trimethylpentane (iso-Octane)		540-84-1	2	**0.57 J**	0.934 U	0.934 U	**0.374 J**	**0.411 J**	0.934 U	**0.929 J**	0.934 U	0.934 U	**0.374 J**	**0.313 J**	0.934 U	**0.327 J**	0.934 U	0.934 U
n-Undecane (C11)		1120-21-4	2.3	**0.55 J**	1.28 U	1.28 U	**0.499 J**	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U
Vinyl bromide (Bromoethene)		593-60-2	NE	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl chloride		75-01-4	0.25	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U

Notes:
$\mu g/m^3$ = micrograms per cubic meter
BTEX = benzene, toluene, ethylbenzene, and xylene
VOCs = volatile organic compounds

[1] Source: NYSDOH, October 2006. Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes reported in various

Bolding indicates a detected result value
NE = not established

Data qualifiers:
B = The analyte was detected in the associated method blank.
J = estimated value
U = not detected to the reporting limit shown

Table 2-2. Q4-2019 Ambient Air Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid, Bay Shore/Brightwaters Former MGP Site

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OZAA-6	OZAA-6	OZAA-6	OZAA-7	OZAA-7	OZAA-7	OZAA-8	OZAA-8	OZAA-8	OZAA-9	OZAA-9	OZAA-9	OZAA-10	OZAA-10	OZAA-10
			Sample Date	10/30/2019	11/25/2019	12/23/2019	10/30/2019	11/25/2019	12/23/2019	10/30/2019	11/25/2019	12/23/2019	10/30/2019	11/25/2019	12/23/2019	10/30/2019	11/25/2019	12/23/2019
			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 2	Level 2	Level 2
Analyte	**Units**	**CAS no.**	**NYSDOH Background Outdoor Air 95th Percentile**															
BTEX	µg/m^3																	
Benzene		71-43-2	5.8	**0.527 J**	**0.492 J**	**1.27**	**0.495 J**	**0.693**	**1.37**	**0.332 J**	**0.454 J**	**1.21**	**0.495 J**	**0.658**	**1.19**	**0.364 J**	**0.454 J**	**1.26**
Toluene		108-88-3	21	**1.98**	**0.614 J**	**1.66**	**1.66**	**0.882**	**1.71**	**1.37**	**0.607 J**	**1.72**	**2.45**	**0.675 J**	**1.62**	**1.83**	**0.705 J**	**1.8**
Ethylbenzene		100-41-4	1.9	**0.33 J**	0.869 U	**0.3 J**	**0.274 J**	0.869 U	**0.282 J**	0.869 U	0.869 U	**0.291 J**	**0.3 J**	0.869 U	**0.274 J**	**0.326 J**	0.869 U	**0.287 J**
o-Xylene		95-47-6	2.5	**0.417 J**	0.869 U	**0.361 J**	**0.356 J**	**0.239 J**	**0.361 J**	**0.274 J**	0.869 U	**0.326 J**	**0.374 J**	0.869 U	**0.334 J**	**0.417 J**	0.869 U	**0.347 J**
m/p-Xylene		179601-23-1	3.1	**1.15 J**	1.74 U	**0.804 J**	**0.99 J**	**0.53 J**	**0.821 J**	**0.812 J**	**0.408 J**	**0.751 J**	**1.06 J**	**0.421 J**	**0.773 J**	**1.21 J**	**0.426 J**	**0.895 J**
Other VOCs	µg/m^3																	
Acetaldehyde		75-07-0	NE	**4.74**	**6.77**	4.5 U	**2.88 J**	**3.89 JB**	4.5 U	**7.48**	**3.57 JB**	4.5 U	**3.35 J**	**2.56 JB**	4.5 U	**6.34**	**4.05 JB**	4.5 U
Acetone		67-64-1	58	**3.9**	**3.85 B**	**5.61**	**7.39**	**3.09 B**	**3.47**	**3.78**	**3.35 B**	**4.68**	**3.85**	**2.35 JB**	**3.63**	**3.42**	**3.47 B**	**4.13**
Acrolein (propenal)		107-02-8	NE	1.15 U	1.15 U	**0.186 J**	1.15 U	1.15 U	**0.211 J**	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U
Allyl chloride (3-Chloropropene)		107-05-1	NE	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzothiophene (1-Benzothiophene)		11095-43-5	NE	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U
Bromodichloromethane		75-27-4	NE	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform		75-25-2	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane		74-83-9	0.9	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
1,3-Butadiene		106-99-0	NE	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
Butane		106-97-8	NE	**3.11**	**1.94**	**4.83**	**2.38**	**2.92**	**5.02**	**2.16**	**1.91**	**4.99**	**2.5**	**2.16**	**4.49**	**2.35**	**1.93**	**4.97**
t-Butyl alcohol (Tertiary Butyl Alcohol)		75-65-0	NE	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U
Carbon disulfide		75-15-0	NE	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Carbon tetrachloride		56-23-5	1	1.26 U	1.26 U	**0.516 J**	1.26 U	**0.478 J**	1.26 U	1.26 U	**0.346 J**	**0.484 J**	1.26 U	1.26 U	1.26 U	1.26 U	**0.321 J**	1.26 U
Chlorobenzene		108-90-7	0.25	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane		75-00-3	0.4	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform (Trichloromethane)		67-66-3	0.5	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane		74-87-3	4.6	**0.896**	**0.851**	**0.832**	**0.892**	**0.896**	**0.828**	**0.869**	**0.832**	**0.863**	**0.869**	**0.876**	**0.822**	**0.911**	**0.857**	**0.838**
2-Chlorotoluene (o-Chlorotoluene)		95-49-8	NE	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Cryofluorane (Freon 114)		76-14-2	1.3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane		110-82-7	3	0.688 U	0.688 U	**0.22 J**	0.688 U	**0.21 JB**	**0.217 J**	0.688 U	0.688 U	**0.224 J**	0.688 U	0.688 U	**0.203 J**	0.688 U	0.688 U	**0.217 J**
n-Decane (C10)		124-18-5	3.6	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U
Dibromochloromethane		124-48-1	NE	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane (EDB)		106-93-4	0.25	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene (o-DCB)		95-50-1	0.9	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene (m-DCB)		541-73-1	0.7	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene (p-DCB)		106-46-7	0.8	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane (Freon 12)		75-71-8	11	**1.83**	**2.22**	**2.24**	**1.74**	**2.24**	**2.25**	**1.77**	**2.16**	**2.21**	**1.79**	**2.2**	**2.31**	**1.76**	**2.16**	**2.27**
1,1-Dichloroethane		75-34-3	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloroethane		107-06-2	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene		75-35-4	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
cis-1,2-Dichloroethene		156-59-2	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
trans-1,2-Dichloroethene		156-60-5	NE	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
1,2-Dichloropropane		78-87-5	0.25	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
cis-1,3-Dichloropropene		10061-01-5	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
trans-1,3-Dichloropropene		10061-02-6	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
1,4-Dioxane		123-91-1	NE	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
n-Dodecane (C12)		112-40-3	7.6	1.39 U	1.39 U	1.39 U	**0.752 J**	1.39 U	1.39 U	1.39 U	1.39 U	1.39 U	1.39 U	1.39 U	1.39 U	1.39 U	1.39 U	1.39 U
Ethanol		64-17-5	220	**4.33 J**	**3.05 JB**	**7.29**	**3.88 J**	**3.75 JB**	**7.9**	**2.66 J**	**2.69 JB**	**8.23**	**4.67 J**	**2.81 JB**	**7.16**	**4.18 J**	**3.07 JB**	**7.56**
2-Ethylthiophene		872-55-9	NE	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U
4-Ethyltoluene (p-Ethyltoluene)		622-96-8	NE	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
n-Heptane (C7)		142-82-5	5.1	**0.279 J**	0.82 U	**0.475 J**	**0.242 J**	**0.238 J**	0.82 U	0.82 U	0.82 U	0.82 U	**0.279 J**	0.82 U	0.82 U	**0.258 J**	0.82 U	0.82 U
1,3-Hexachlorobutadiene (C-46)		87-68-3	7	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
n-Hexane (C6)		110-54-3	3.6	**6.87**	0.705 U	**0.708**	**0.56 J**	**0.458 J**	**0.811**	**0.708**	**0.271 J**	**0.754**	**8.99**	**0.43 J**	**1.66**	**0.694 J**	**2.19**	**0.765**
2-Hexanone		591-78-6	NE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Indane		496-11-7	NE	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U
Indene		95-13-6	NE	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
Methyl ethyl ketone (2-Butanone)		78-93-3	17	**0.838 J**	**0.793 J**	**0.785 J**	**0.549 J**	**0.498 J**	**0.69 J**	**0.534 J**	**0.513 J**	**0.776 J**	**0.593 J**	1.47 U	**0.587 J**	**0.658 J**	1.47 U	**0.693 J**
Methyl tert-butyl ether (MTBE)		1634-04-4	5.9	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
4-Methyl-2-pentanone (MIBK)		108-10-1	2.9	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
Methylene chloride		75-09-2	2.9	**2.65**	1.74 U	**0.525 J**	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**3.58**	**0.538 J**	**3.14**	1.74 U	**2.59**	1.74 U
1-Methylnaphthalene		90-12-0	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylnaphthalene		91-57-6	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylthiophene		554-14-3	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
3-Methylthiophene		616-44-4	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U

Table 2-2. Q4-2019 Ambient Air Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid, Bay Shore/Brightwaters Former MGP Site

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OZAA-6	OZAA-6	OZAA-6	OZAA-7	OZAA-7	OZAA-7	OZAA-8	OZAA-8	OZAA-8	OZAA-9	OZAA-9	OZAA-9	OZAA-10	OZAA-10	OZAA-10
			Sample Date	10/30/2019	11/25/2019	12/23/2019	10/30/2019	11/25/2019	12/23/2019	10/30/2019	11/25/2019	12/23/2019	10/30/2019	11/25/2019	12/23/2019	10/30/2019	11/25/2019	12/23/2019
			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 2	Level 2	Level 2
Analyte	Units	CAS no.	NYSDOH Background Outdoor Air 95th Percentile															
Naphthalene		91-20-3	10	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Nonane (C9)		111-84-2	1.2	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Octane (C8)		111-65-9	2.1	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
Pentane		109-66-0	NE	**1.17**	**0.711**	**1.63**	**0.876**	**0.983**	**1.74**	**0.758**	**0.67**	**1.64**	**0.994**	**0.752**	**1.5**	**1.07**	**0.673**	**1.63**
2-Propanol (Isopropyl Alcohol)		67-63-0	NE	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	1.23 U	**1.34 B**	1.23 U
Styrene		100-42-5	0.6	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
1,1,2,2-Tetrachloroethane		79-34-5	0.25	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
Tetrachloroethene (PCE)		127-18-4	1.6	1.36 U	1.36 U	**0.515 J**	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	**0.461 J**	1.36 U	1.36 U	**0.515 J**
1,2,4,5-Tetramethylbenzene		95-93-2	NE	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Thiophene		110-02-1	NE	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	3.6	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,2,4-Trichlorobenzene		120-82-1	4.8	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,1,1-Trichloroethane (TCA)		71-55-6	0.7	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1,2-Trichloroethane		79-00-5	0.25	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
Trichloroethene (TCE)		79-01-6	0.5	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane (Freon 11)		75-69-4	6.1	**0.798 J**	**0.95 J**	**1.08 J**	**0.798 J**	**0.978 J**	**1.07 J**	**0.792 J**	**0.972 J**	**1.05 J**	**0.809 J**	**1.01 J**	**1.08 J**	**0.82 J**	**0.972 J**	**1.01 J**
1,2,3-Trimethylbenzene		526-73-8	0.6	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2,4-Trimethylbenzene		95-63-6	2.5	**0.369 J**	0.983 U	**0.275 J**	0.983 U	0.983 U	**0.265 J**	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	**0.285 J**
1,3,5-Trimethylbenzene		108-67-8	1	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
2,2,4-Trimethylpentane (iso-Octane)		540-84-1	2	**0.444 J**	**0.388 J**	**0.738 J**	**0.556 J**	**0.645 J**	0.934 U	**0.308 J**	**0.35 J**	**0.715 J**	**0.57 J**	0.934 U	**0.715 J**	**0.589 J**	0.934 U	0.934 U
n-Undecane (C11)		1120-21-4	2.3	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U
Vinyl bromide (Bromoethene)		593-60-2	NE	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl chloride		75-01-4	0.25	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U

Notes:
$\mu g/m^3$ = micrograms per cubic meter
BTEX = benzene, toluene, ethylbenzene, and xylene
VOCs = volatile organic compounds

[1] Source: NYSDOH, October 2006. Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes reported in various locations

Bolding indicates a detected result value
NE = not established

Data qualifiers:
B = The analyte was detected in the associated method blank.
J = estimated value
U = not detected to the reporting limit shown

Table 3-1. OU-1 Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2019/2020 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	10/5/2020	23.97	10.75	13.22	
BBMW-13D	10/5/2020	23.90	6.55	17.35	Stickup to flushmount/needs resurvey
BBMW-20I	10/5/2020	18.63	5.55	13.08	
BBMW-22S	10/5/2020	20.87	7.55	13.32	
BBMW-22I	10/5/2020	17.58	7.55	10.03	
BBMW-22D	10/5/2020	20.77	7.00	13.77	
BBMW-26S	10/5/2020	24.96	10.21	14.75	
BBMW-26I	10/5/2020	25.02	10.25	14.77	
BBMW-27S	10/5/2020	25.03	10.55	14.48	
BBMW-27I	10/5/2020	25.37	10.55	14.82	
BBMW-34S	10/5/2020	25.03	11.22	13.81	
BBMW-34I	10/5/2020	25.24	11.51	13.73	
BBMW-34I2	10/5/2020	25.05	11.38	13.67	
BBMW-34D	10/5/2020	25.21	11.49	13.72	
BBMW-35S	10/5/2020	24.08	11.10	12.98	
BBMW-35I	10/5/2020	24.17	11.20	12.97	
BBMW-35I2	10/5/2020	24.10	11.11	12.99	
BBMW-35D	10/5/2020	24.07	11.11	12.96	
BBMW-38S	10/5/2020	26.14	11.91	14.23	
BBMW-38I	10/5/2020	26.09	11.91	14.18	
BBMW-38I2	10/5/2020	26.16	12.05	14.11	
BBMW-38D	10/5/2020	26.08	11.90	14.18	
BBMW-39S	10/5/2020	23.99	10.37	13.62	
BBMW-39I	10/5/2020	24.03	10.34	13.69	
BBMW-39I2	10/5/2020	23.98	10.37	13.61	
BBMW-39D	10/5/2020	23.98	10.37	13.61	
BBMW-40S	10/5/2020	24.76	10.67	14.09	
BBMW-40I	10/5/2020	24.77	10.71	14.06	
BBMW-40I2	10/5/2020	24.77	10.75	14.02	
BBMW-40D	10/5/2020	24.76	10.74	14.02	
BBMW-41S	10/5/2020	24.28	10.44	13.84	
BBMW-41I	10/5/2020	24.37	10.51	13.86	
BBMW-41I2	10/5/2020	24.47	10.61	13.86	
BBMW-41D	10/5/2020	24.40	10.54	13.86	
MW-03S	10/5/2020	22.59	6.57	16.02	Stickup to flushmount/needs re-survey
MW-03D	10/5/2020	22.48	6.57	15.91	Stickup to flushmount/needs re-survey
MW-05S	10/5/2020	24.05	10.48	13.57	
MW-05D	10/5/2020	24.37	10.46	13.91	
MW-09S	10/5/2020	25.17	10.14	15.03	
MW-09I	10/5/2020	24.71	9.77	14.94	
MW-09I2	10/5/2020	25.59	10.59	15.00	
MW-09D	10/5/2020	25.51	10.57	14.94	
OZMW-16S	10/5/2020	19.88	7.23	12.65	
OZMW-16I	10/5/2020	19.90	7.04	12.86	
OZMW-16I2	10/5/2020	19.72	6.81	12.91	
OZMW-16D	10/5/2020	20.10	7.23	12.87	
OZMW-17S	10/5/2020	19.83	6.48	13.35	
OZMW-17I	10/5/2020	19.91	7.01	12.90	
OZMW-17I2	10/5/2020	19.86	7.46	12.40	
OZMW-17D	10/5/2020	19.88	7.11	12.77	
OZMW-18S	10/5/2020	19.56	6.23	13.33	
OZMW-18I	10/5/2020	19.98	6.82	13.16	
OZMW-18I2	10/5/2020	19.97	6.71	13.26	
OZMW-18D	10/5/2020	19.53	7.29	12.24	
OZMW-19S	10/5/2020	26.11	12.31	13.80	
OZMW-19I	10/5/2020	26.08	12.81	13.27	
OZMW-19I2	10/5/2020	26.08	12.85	13.23	
OZMW-19D	10/5/2020	26.08	12.88	13.20	
OZMW-21S	10/5/2020	24.38	10.69	13.69	
OZMW-21I	10/5/2020	24.38	10.71	13.67	
OZMW-21I2	10/5/2020	24.36	10.75	13.61	
OZMW-21D	10/5/2020	24.33	10.64	13.69	
OZMW-22RS	10/5/2020	22.69	9.67	13.02	
OZMW-22RI	10/5/2020	22.72	9.74	12.98	
OZMW-23S	10/5/2020	24.33	11.21	13.12	

Table 3-1. OU-1 Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2019/2020 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	10/5/2020	24.32	11.28	13.04	
OZMW-23I2	10/5/2020	24.29	11.30	12.99	
OZMW-23D	10/5/2020	24.28	11.25	13.03	
OZMW-24S	10/5/2020	20.39	10.05	10.34	
OZMW-24I	10/5/2020	23.12	11.07	12.05	
OZMW-24I2	10/5/2020	23.12	10.11	13.01	
OZMW-24D	10/5/2020	23.10	10.05	13.05	
OZMW-25S	10/5/2020	24.67	11.23	13.44	
OZMW-25I	10/5/2020	24.55	11.22	13.33	
OZMW-25I2	10/5/2020	24.61	11.17	13.44	
OZMW-25D	10/5/2020	24.82	11.36	13.46	
OZMW-26S	10/5/2020	24.59	11.36	13.23	
OZMW-26I	10/5/2020	24.60	11.30	13.30	
OZMW-26I2	10/5/2020	24.60	11.32	13.28	
OZMW-26D	10/5/2020	24.60	11.31	13.29	

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
2019/2020 Annual GM and OM&M Report

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
OZMW-17S	5.0 - 15.0	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
2019/2020 Annual GM and OM&M Report

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-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
2019/2020 Annual GM and OM&M Report

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
OZMW-17S	5.0 - 15.0	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
2019/2020 Annual GM and OM&M Report

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-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
2019/2020 Annual GM and OM&M Report

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
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

Table 3-2. OU-1 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2019/2020 Annual GM and OM&M Report

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-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
2019/2020 Annual GM and OM&M Report

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	Jun-18
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	13.84
BBMW-05D2	126.5 - 136.5	NC	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	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	14.51
BBMW-20S	4.0 - 14.0	NC	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	13.74
BBMW-20D	62.0 - 72.0	NC	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	13.89
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	10.59
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	14.07
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	15.55
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	15.38
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	15.47
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	15.46
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	14.96
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	14.33
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	14.28
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	14.28
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	13.49
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	13.48
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	13.48
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	13.46
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	15.72
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	14.78
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	14.75
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	14.74
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	13.10
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	14.11
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	14.07
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	14.07
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	14.65
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	14.70
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	14.58
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	14.63
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	13.47
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	13.47
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	14.44
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	14.39
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	14.32
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	14.30
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	14.12
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	14.47
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	15.68
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	15.66
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	15.58
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	15.58
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	13.29
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	13.32
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	13.33
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	13.29
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	13.34

Table 3-2. OU-1 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2019/2020 Annual GM and OM&M Report

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	Jun-18
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	13.34
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	13.31
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	13.30
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	13.21
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	13.67
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	13.73
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	13.25
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	14.12
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	13.85
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	13.79
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	13.86
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	14.20
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	14.37
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	14.29
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	14.42
OZMW-22S	5.0 - 15.0	NC	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	NC
OZMW-22I2	35.0 - 45.0	NC	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	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	13.58
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	13.52
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	13.61
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	13.64
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	13.58
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	13.61
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	10.93
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	13.59
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	13.58
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	13.66
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	14.02
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	13.99
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	14.00
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	14.04
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	13.88
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	13.91
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	13.92
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	13.91

Table 3-2. OU-1 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2019/2020 Annual GM and OM&M Report

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in FeetAbove Mean Sea Level				
		Apr-19	Oct-20	Minimum	Average	Maximum
BBMW-05D	64.0 - 74.0	13.22	13.22	12.15	14.20	16.40
BBMW-05D2	126.5 - 136.5	NC	NC	12.30	15.02	16.27
BBMW-05D2R	127.0 - 137.0	NC	NC	14.26	14.82	15.30
BBMW-13D	62.0 -72.0	17.35	17.35	12.48	14.75	17.35
BBMW-20S	4.0 - 14.0	NC	NC	11.28	13.25	14.59
BBMW-20I	35.0 - 45.0	13.08	13.08	11.21	13.37	14.92
BBMW-20D	62.0 - 72.0	NC	NC	11.32	13.56	14.80
BBMW-22S	5.0 - 10.0	13.32	13.32	11.07	14.00	16.50
BBMW-22I	30.0 - 40.0	10.03	10.03	7.82	12.75	15.52
BBMW-22D	64.0 - 74.0	13.77	13.77	10.92	13.94	16.43
BBMW-26S	6.0 - 16.0	14.75	14.75	14.74	15.82	17.85
BBMW-26I	30.0 - 40.0	14.77	14.77	14.76	15.82	17.84
BBMW-27S	5.0 - 15.0	14.48	14.48	14.48	15.77	17.76
BBMW-27I	30.0 - 40.0	14.82	14.82	14.78	15.82	17.79
BBMW-34S	5.0 - 15.0	13.81	13.81	13.72	14.64	16.65
BBMW-34I	25.0 - 30.0	13.73	13.73	13.63	14.64	16.79
BBMW-34I2	40.0 - 45.0	13.67	13.67	13.48	14.50	16.61
BBMW-34D	65.0 - 70.0	13.72	13.72	13.70	14.55	16.79
BBMW-35S	5.0 - 15.0	12.98	12.98	12.31	13.51	14.57
BBMW-35I	25.0 - 30.0	12.97	12.97	12.85	13.67	14.52
BBMW-35I2	40.0 - 50.0	12.99	12.99	12.83	13.64	14.45
BBMW-35D	63.0 - 68.0	12.96	12.96	12.80	13.61	14.36
BBMW-38S	5.0 - 15.0	14.23	14.23	14.05	15.42	18.72
BBMW-38I	25.0 - 30.0	14.18	14.18	14.07	15.22	18.70
BBMW-38I2	40.0 - 45.0	14.11	14.11	14.11	15.20	18.60
BBMW-38D	65.0 - 70.0	14.18	14.18	13.97	15.20	18.78
BBMW-39S	5.0 - 15.0	13.62	13.62	13.10	14.34	16.58
BBMW-39I	25.0 - 30.0	13.69	13.69	13.48	14.40	16.58
BBMW-39I2	45.0 - 50.0	13.61	13.61	13.45	14.37	16.54
BBMW-39D	65.0 - 70.0	13.61	13.61	13.46	14.41	16.55
BBMW-40S	5.0 - 15.0	14.09	14.09	13.90	14.94	17.15
BBMW-40I	25.0 - 30.0	14.06	14.06	13.97	14.91	17.08
BBMW-40I2	45.0 - 50.0	14.02	14.02	12.93	14.82	17.07
BBMW-40D	70.0 - 75.0	14.02	14.02	12.95	14.85	17.08
BBMW-41S	6.0 - 16.0	13.84	13.84	13.47	14.63	16.68
BBMW-41I	25.0 - 30.0	13.86	13.86	13.47	14.68	16.82
BBMW-41I2	45.0 - 50.0	13.86	13.86	13.78	14.73	16.93
BBMW-41D	65.0 - 70.0	13.86	13.86	13.76	14.70	16.89
MW-03S	3.0 -13.0	16.02	16.02	12.45	14.64	16.48
MW-03D	35.0 - 45.0	15.91	15.91	12.44	14.60	16.46
MW-05S	4.0 - 14.0	13.57	13.57	9.51	14.26	17.61
MW-05D	35.5 - 45.5	13.91	13.91	9.82	14.59	18.51
MW-09S	4.0 - 14.0	15.03	15.03	13.55	15.97	18.00
MW-09I	30.0 - 40.0	14.94	14.94	14.94	16.06	18.02
MW-09I2	45.0 - 50.0	15.00	15.00	14.93	15.91	17.96
MW-09D	65.0 - 70.0	14.94	14.94	14.92	15.89	17.94
OZMW-16S	5.0 - 15.0	12.65	12.65	12.65	13.50	14.37
OZMW-16I	20.0 - 30.0	12.86	12.86	12.80	13.56	14.72
OZMW-16I2	35.0 - 45.0	12.91	12.91	12.77	13.54	14.51
OZMW-16D	55.0 - 65.0	12.87	12.87	12.77	13.57	14.59
OZMW-17S	5.0 - 15.0	13.35	13.35	12.82	13.67	15.92

Table 3-2. OU-1 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2019/2020 Annual GM and OM&M Report

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in FeetAbove Mean Sea Level				
		Apr-19	Oct-20	Minimum	Average	Maximum
OZMW-17I	20.0 - 30.0	12.90	12.90	12.80	13.63	15.94
OZMW-17I2	35.0 - 45.0	12.40	12.40	12.40	13.52	15.91
OZMW-17D	53.0 - 63.0	12.77	12.77	12.75	13.57	15.86
OZMW-18S	5.0 - 15.0	13.33	13.33	12.65	13.50	14.46
OZMW-18I	20.0 - 30.0	13.16	13.16	13.08	13.85	14.82
OZMW-18I2	35.0 - 45.0	13.26	13.26	13.16	13.92	14.88
OZMW-18D	55.0 - 65.0	12.24	12.24	12.24	13.40	14.53
OZMW-19S	5.0 - 15.0	13.80	13.80	12.57	14.34	16.52
OZMW-19I	20.0 - 30.0	13.27	13.27	13.24	14.07	16.37
OZMW-19I2	35.0 - 45.0	13.23	13.23	13.13	13.99	16.31
OZMW-19D	53.0 - 63.0	13.20	13.20	13.12	14.06	16.38
OZMW-21S	5.0 - 15.0	13.69	13.69	13.67	14.45	15.20
OZMW-21I	20.0 - 30.0	13.67	13.67	13.58	14.39	15.18
OZMW-21I2	35.0 - 45.0	13.61	13.61	13.58	14.34	15.13
OZMW-21D	55.0 - 65.0	13.69	13.69	13.63	14.42	15.20
OZMW-22S	5.0 - 15.0	NC	NC	13.44	14.00	14.39
OZMW-22I	20.0 - 30.0	NC	NC	13.48	14.02	14.42
OZMW-22I2	35.0 - 45.0	NC	NC	13.46	14.00	14.39
OZMW-22D	55.0 - 65.0	NC	NC	13.42	13.97	14.38
OZMW-22RS	5.0 - 15.0	13.02	13.02	12.97	13.75	14.89
OZMW-22RI	20.0 - 30.0	12.98	12.98	12.90	13.65	14.65
OZMW-23S	5.0 - 15.0	13.12	13.12	12.87	13.78	15.25
OZMW-23I	20.0 - 25.0	13.04	13.04	12.90	13.74	15.17
OZMW-23I2	35.0 - 40.0	12.99	12.99	12.84	13.63	14.54
OZMW-23D	55.0 - 65.0	13.03	13.03	12.81	13.66	14.63
OZMW-24S	5.0 - 15.0	10.34	10.34	10.20	10.99	11.94
OZMW-24I	20.0 - 25.0	12.05	12.05	12.05	13.53	14.72
OZMW-24I2	35.0 - 40.0	13.01	13.01	12.88	13.64	14.52
OZMW-24D	55.0 - 65.0	13.05	13.05	12.89	13.68	14.45
OZMW-25S	5.0 - 15.0	13.44	13.44	13.38	14.28	16.66
OZMW-25I	20.0 - 30.0	13.33	13.33	13.31	14.19	16.63
OZMW-25I2	35.0 - 45.0	13.44	13.44	13.39	14.24	16.64
OZMW-25D	55.0 - 65.0	13.46	13.46	13.37	14.27	16.63
OZMW-26S	5.0 - 15.0	13.23	13.23	13.04	14.13	16.66
OZMW-26I	20.0 - 25.0	13.30	13.30	13.05	13.99	14.82
OZMW-26I2	35.0 - 40.0	13.28	13.28	13.10	13.99	14.84
OZMW-26D	55.0 - 65.0	13.29	13.29	13.16	13.90	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

Well ID	Date of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-01S	10/6/2020	19.65	7.64	12.01	
BBMW-01I	10/6/2020	19.23	7.19	12.04	
BBMW-01D	10/6/2020	19.20	7.18	12.02	
BBMW-02S	10/5/2020	16.83	5.71	11.12	
BBMW-02I	10/5/2020	16.96	5.85	11.11	
BBMW-02D	10/5/2020	17.13	6.06	11.07	
BBMW-03S	10/6/2020	11.33	3.89	7.44	
BBMW-03I	10/6/2020	11.19	3.75	7.44	
BBMW-03D	10/6/2020	11.24	3.80	7.44	
BBMW-04D	NM	19.69	NM	NC	Could not Locate
BBMW-07S	10/6/2020	12.80	7.41	5.39	
BBMW-07I	10/6/2020	12.60	7.22	5.38	
BBMW-07D	10/6/2020	12.58	7.17	5.41	
BBMW-15S	10/6/2020	15.92	6.03	9.89	
BBMW-15I	10/6/2020	15.82	5.96	9.86	
BBMW-15I2	10/6/2020	15.79	6.02	9.77	
BBMW-15D	10/6/2020	15.63	5.82	9.81	
BBMW-16S	10/6/2020	19.04	9.18	9.86	
BBMW-16I	10/6/2020	19.43	10.13	9.30	
BBMW-16D	10/6/2020	18.97	8.62	10.35	
BBMW-23S	10/5/2020	19.13	6.45	12.68	
BBMW-23I	10/5/2020	19.16	6.88	12.28	
BBMW-23D	10/5/2020	19.17	6.78	12.39	
BBMW-23D2	10/5/2020	18.61	6.29	12.32	
BBMW-24S	10/6/2020	18.14	7.69	10.45	
BBMW-24I	10/6/2020	18.01	7.73	10.28	
BBMW-24D	10/6/2020	17.76	7.54	10.22	
BBMW-25S	10/6/2020	12.80	4.92	7.88	
BBMW-25I	10/6/2020	12.79	4.94	7.85	
BBMW-25D	10/6/2020	12.70	4.86	7.84	
GM-05S	10/5/2020	5.73	2.72	3.01	
GM-05I	10/5/2020	5.92	2.78	3.14	
GM-05D	10/5/2020	7.87	+1.43	9.30	Artesian
GM-06S	10/6/2020	9.52	6.07	3.45	
GM-06I	10/6/2020	9.56	6.14	3.42	
GM-06D	10/6/2020	9.66	6.24	3.42	
GM-07S	10/7/2020	10.61	7.98	2.63	
GM-07I	10/7/2020	10.53	8.13	2.40	
GM-07D	10/7/2020	10.75	7.92	2.83	
GM-08S	10/7/2020	3.90	2.69	1.21	
GM-08I	10/7/2020	4.05	2.87	1.18	
GM-08D	10/7/2020	3.91	2.91	1.00	
GM-09S	10/7/2020	3.22	2.12	1.10	
GM-09I	10/7/2020	3.41	2.32	1.09	
GM-09D	10/7/2020	3.09	2.01	1.08	
GM-10AD	10/6/2020	8.07	6.21	1.86	
GMP-01	10/5/2020	6.58	3.26	3.32	
GMP-02	NM	6.28	NM	NC	Could not locate
GMP-04	NM	3.74	NM	NC	Could not locate
MW-16AS	10/5/2020	16.16	6.09	10.07	
OU2-IW01S	10/5/2020	5.95	2.92	3.03	
OU2MW-01WT	10/6/2020	12.86	4.97	7.89	
OU2MW-01S	10/6/2020	12.41	4.75	7.66	
OU2MW-01I	10/6/2020	12.47	4.69	7.78	
OU2MW-01I2	10/6/2020	12.28	4.64	NC	
OU2MW-01D	10/6/2020	12.35	3.34	NC	
OU2MW-02S	10/6/2020	11.58	3.96	7.62	
OU2MW-02I	10/6/2020	11.59	3.94	7.65	
OU2MW-02I2	10/6/2020	11.74	4.15	7.59	
OU2MW-02D	10/6/2020	11.53	3.48	8.05	
OU2MW-03S	10/6/2020	11.23	4.89	6.34	
OU2MW-03I	10/6/2020	11.15	4.88	6.27	
OU2MW-03I2	10/6/2020	11.15	4.92	6.23	
OU2MW-03D	10/6/2020	11.14	3.20	7.94	
OU2MW-04WT	10/6/2020	10.34	4.33	6.01	

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

Well ID	Date of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OU2MW-04S	10/6/2020	10.18	4.13	6.05	
OU2MW-04I	10/6/2020	10.10	4.06	6.04	
OU2MW-04I2	10/6/2020	10.05	4.02	6.03	
OU2MW-04D	10/6/2020	10.08	4.08	6.00	
OU2MW-05	10/5/2020	6.32	2.41	3.91	
OU2MW-06S	10/5/2020	4.83	2.63	2.20	
OU2MW-06	10/5/2020	4.43	2.26	2.17	
OU2MW-07S	10/5/2020	5.47	3.38	2.09	
OU2MW-07	10/5/2020	5.34	3.29	2.05	
OU2MW-08WT	10/6/2020	14.93	6.89	8.04	
OU2MW-08S	10/6/2020	14.77	6.78	7.99	
OU2MW-08I	10/6/2020	14.70	6.76	7.94	
OU2MW-08I2	10/6/2020	14.78	6.78	8.00	
OU2MW-08D	10/6/2020	14.87	6.09	8.78	
OU2MW-09	10/6/2020	11.26	3.83	7.43	
OU2MW-10S	10/5/2020	5.31	2.95	2.36	
OU2MW-10I	10/5/2020	5.42	3.06	2.36	
OU2MW-10D	10/5/2020	5.43	3.11	2.32	
OU2MW-11S	10/5/2020	6.69	3.12	3.57	
OU2MW-11I	10/5/2020	6.72	3.18	3.54	
OU2MW-11I2	10/5/2020	6.53	3.03	3.50	
OU2MW-11D	10/5/2020	6.65	3.17	3.48	
OU2MW-12S	10/5/2020	5.70	2.72	2.98	
OU2MW-12I	10/5/2020	5.73	2.77	2.96	
OU2MW-12I2	10/5/2020	5.81	2.84	2.97	
OU2MW-12D	10/5/2020	5.59	2.60	2.99	
OU2MW-13S	10/5/2020	4.78	2.07	NC	
OU2MW-13I	10/5/2020	4.81	2.54	2.27	
OU2MW-13D	10/5/2020	4.94	2.70	2.24	
OU2MW-14S	10/6/2020	14.58	6.81	7.77	
OU2MW-14I	10/6/2020	14.75	6.75	8.00	
OU2MW-14I2	10/6/2020	14.77	6.75	8.02	
OU2MW-15S	10/5/2020	4.80	2.41	2.39	
OU2MW-15I	10/5/2020	5.09	2.68	2.41	
OU2MW-15I2	10/5/2020	5.13	2.80	2.33	
OU2MW-15D	10/5/2020	5.21	2.73	2.48	
OU2MW-16S	10/5/2020	5.44	2.93	2.51	
OU2MW-16I	10/5/2020	5.31	2.83	2.48	
OU2MW-16I2	10/5/2020	5.31	2.82	2.49	
OU2MW-16D	10/5/2020	5.61	3.14	2.47	
OU2MW-17S	10/5/2020	19.83	7.75	12.08	
OU2MW-17I	10/5/2020	19.91	7.78	12.13	
OU2MW-17I2	10/5/2020	19.86	7.76	12.10	
OU2MW-17D	10/5/2020	19.71	7.63	12.08	
OU2MW-18I	10/5/2020	19.98	7.95	12.03	
OU2MW-18I2	10/5/2020	19.97	7.93	12.04	
OU2MW-18D	10/5/2020	19.97	7.94	12.03	
OU2MW-39S	10/5/2020	21.22	9.96	11.26	
OU2MW-39I	10/5/2020	21.32	10.07	11.25	
OU2MW-39I2	10/5/2020	21.14	9.88	11.26	
OU2MW-39D	10/5/2020	21.18	9.94	11.24	
OU2MW-49S	10/5/2020	18.88	6.33	12.55	
OU2MW-49I	10/5/2020	19.09	6.14	12.95	
OU2MW-49I2	10/5/2020	18.58	6.03	12.55	
OU2MW-49D	10/5/2020	18.72	6.17	12.55	
OU2MW-50S	10/5/2020	20.97	7.12	13.85	
OU2MW-50I	10/5/2020	20.94	8.24	12.70	
OU2MW-50I2	10/5/2020	21.02	8.33	12.69	
OU2MW-50D	10/5/2020	21.09	8.40	12.69	
OU2MW-51S	10/5/2020	20.99	7.26	13.73	
OU2MW-51I	10/5/2020	20.93	8.25	12.68	
OU2MW-51I2	10/5/2020	21.00	8.26	12.74	
OU2MW-51D	10/5/2020	21.03	8.39	12.64	
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

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	10/5/2020	18.24	5.91	12.33	
OU2MW-54I	10/5/2020	18.14	5.87	12.27	
OU2MW-54I2	10/5/2020	18.06	5.77	12.29	
OU2MW-54D	10/5/2020	18.35	6.02	12.33	
OU2MW-57S	10/5/2020	19.21	6.78	12.43	
OU2MW-57I	10/5/2020	18.88	6.40	12.48	
OU2MW-57I2	10/5/2020	19.09	6.65	12.44	
OU2MW-58S	10/5/2020	20.80	8.41	12.39	
OU2MW-58I	10/5/2020	20.79	8.48	12.31	
OU2SW-01*	10/7/2020	2.65	2.59	0.06	Boat Basin
BBSW-06*	10/7/2020	2.08	2.62	-0.54	Boat Basin
BBSW-07*	10/5/2020	6.83	1.62	5.21	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

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	Aug-04	Oct-04	Feb-05	May-05	Aug-05	Nov-05	Feb-06	May-06	July/Aug-06	Nov-06
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	12.10	12.51	13.16	13.03	11.91	13.41	13.36	12.95	12.64	14.10
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	12.08	12.49	13.14	13.01	11.89	13.49	13.34	12.94	12.63	13.09
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	12.11	12.51	13.16	13.07	11.92	13.50	13.36	12.96	12.64	13.10
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	11.16	11.52	NC	12.06	10.99	12.45	12.36	12.00	11.62	12.12
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	11.15	11.50	NC	12.03	10.96	12.43	12.32	11.95	11.59	12.08
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	11.12	11.48	NC	12.01	10.93	12.41	12.31	11.95	11.58	12.06
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	7.42	7.72	8.25	8.09	7.36	8.43	8.29	8.00	7.65	8.19
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	7.41	7.72	8.24	8.09	7.75	8.82	8.29	8.00	7.64	7.99
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	7.44	7.75	8.26	8.12	7.35	8.44	8.31	8.03	NC	8.14
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	13.38	13.84	14.51	14.39	13.18	14.96	14.67	14.31	14.01	14.48
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	5.27	5.71	5.98	5.80	5.12	6.29	NC	5.75	5.52	5.89
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	5.26	5.72	5.98	5.83	5.13	6.29	NC	5.76	5.53	5.91
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	5.27	5.73	5.98	5.82	5.11	6.29	NC	5.77	5.51	5.94
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	9.86	10.18	10.84	10.69	9.71	11.09	10.98	10.66	10.23	10.75
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	9.84	10.16	10.81	10.67	9.66	11.03	10.91	10.61	10.18	10.73
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	9.81	10.16	10.80	10.60	9.66	11.05	10.93	10.62	10.21	10.73
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	9.82	10.15	10.80	10.63	9.66	11.04	10.92	10.62	10.19	10.71
BBMW-16S	5.0 - 15.0	NC	NC	9.40	NC	NC	NC	12.82	NC	10.07	9.53	9.67	10.79	9.28	9.73	10.15	10.05	9.04	10.45	10.30	10.00	14.62	10.10
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	9.32	9.76	10.15	10.08	9.05	10.47	10.33	10.02	9.63	10.14
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	9.31	9.75	10.18	10.06	9.03	10.46	10.32	10.01	9.62	10.12
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	12.51	12.93	NC	13.46	12.32	14.00	13.78	13.37	13.06	13.52
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	12.50	12.93	NC	13.46	12.31	13.92	13.79	13.38	13.07	13.51
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	12.53	12.94	NC	13.47	12.32	13.95	13.79	13.39	13.08	13.53
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	12.52	12.96	NC	13.47	12.32	13.93	13.78	13.38	13.07	13.52
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	10.23	10.61	11.20	11.09	10.04	11.53	11.39	11.02	10.67	11.09
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	10.22	10.60	11.20	11.09	10.02	11.51	11.37	10.99	10.66	11.07
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	10.24	10.61	11.19	11.09	10.03	11.52	11.38	11.03	10.67	11.10
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	7.23	7.62	8.13	8.01	7.64	8.99	8.84	8.49	NC	8.55
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	7.25	7.64	8.16	8.02	7.66	8.99	8.84	8.49	NC	8.55
BBMW-25D	62.0 - 72.0	NC	NC	NC	NC	7.35	NC	NC	8.22	7.98	7.28	7.56	8.92	7.18	7.55	8.08	7.97	NC	8.99	NC	8.49	NC	8.55
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	9.14	9.53	NC	9.96	8.94	10.42	10.26	9.90	9.53	9.97
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	8.97	9.36	NC	9.80	8.76	10.24	10.09	9.73	9.36	9.80
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	9.07	9.46	NC	9.95	8.86	10.34	10.19	9.83	9.47	9.90
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	2.68	3.36	3.31	2.91	2.65	3.34	3.01	3.00	2.85	3.06
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	2.81	3.49	3.42	3.03	2.76	3.49	3.15	3.13	2.97	3.18
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	8.97	7.58	7.72	7.50	6.56	7.87	7.81	8.23	8.72	7.61
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	3.14	3.69	3.73	3.52	3.06	4.10	3.69	3.50	3.48	3.79
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	3.16	3.70	3.74	3.57	3.08	4.10	3.70	3.52	3.48	3.80
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	3.15	3.70	3.74	3.54	3.07	4.11	3.70	3.52	3.48	3.79
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	2.34	3.01	2.80	2.58	2.36	3.04	2.63	2.64	2.60	2.88
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	2.32	3.00	2.79	2.63	2.34	3.03	2.62	2.64	2.59	2.87
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	2.33	3.02	2.81	2.63	2.34	3.44	2.62	2.65	2.61	2.87
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	1.08	1.74	1.46	0.83	0.89	1.35	0.95	1.04	1.01	1.06
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	1.09	1.76	1.46	0.86	0.91	1.35	0.96	1.04	1.02	1.06
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	1.14	1.77	1.48	0.88	0.93	1.39	0.96	1.03	1.02	1.06
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	0.66	1.41	1.17	0.74	0.65	0.94	0.62	0.79	0.81	0.88
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	0.67	1.43	1.17	0.74	0.65	0.95	0.63	0.80	0.83	0.89
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	0.67	1.41	1.17	0.75	0.65	0.96	0.64	0.79	0.82	0.89
GM-10AD	unknown	NC	NC	NC	1.12	1.86	NC	1.92	1.62	1.82	1.76	1.08	2.43	1.51	2.20	1.92	1.41	1.57	2.08	1.67	1.72	1.74	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

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	Aug-04	Oct-04	Feb-05	May-05	Aug-05	Nov-05	Feb-06	May-06	July/Aug-06	Nov-06
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	3.15	3.78	3.73	3.35	3.08	3.77	3.47	3.44	3.28	3.47
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	2.40	3.15	3.04	2.58	2.41	3.03	2.69	2.70	2.57	2.73
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	0.93	2.11	1.72	1.02	1.37	1.73	1.19	1.23	1.42	1.09
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	10.10	10.44	11.10	10.96	9.93	11.34	11.23	10.92	10.48	11.02
OU2-IW01S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	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	NC	NC	NC	NC	NC	8.79	8.62	8.30	NC	8.37
OU2MW-01I	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8.82	8.65	8.28	NC	9.96
OU2MW-01I2	50.0 - 55.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8.78	8.62	8.30	NC	8.36
OU2MW-01D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	10.24	10.16	9.79	NC	8.23
OU2MW-02S	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8.68	8.66	8.21	NC	8.31
OU2MW-02I	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8.68	8.52	8.22	NC	8.26
OU2MW-02I2	50.0 - 55.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8.67	8.51	8.21	NC	8.25
OU2MW-02D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8.87	8.74	8.41	NC	8.47
OU2MW-03S	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	7.23	7.01	6.73	NC	6.80
OU2MW-03I	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	7.25	7.03	6.75	NC	6.84
OU2MW-03I2	50.0 - 55.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	7.23	7.01	6.74	NC	6.79
OU2MW-03D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8.99	8.95	8.63	NC	6.75
OU2MW-04WT	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	NC	NC	NC	NC	NC	6.97	6.73	6.49	6.19	6.60
OU2MW-04I	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	6.97	6.73	6.49	6.19	6.61
OU2MW-04I2	50.0 - 55.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	6.96	6.72	6.49	NC	6.57
OU2MW-04D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	6.99	6.75	6.51	NC	6.60
OU2MW-05	25.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	4.44	4.16	4.09	3.93	4.16
OU2MW-06S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	NC	NC	NC	NC	NC	2.57	2.17	2.21	2.17	2.17
OU2MW-07S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	NC	NC	NC	NC	NC	2.37	1.98	2.00	2.03	1.90
OU2MW-08WT	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	NC	NC	NC	NC	NC	9.07	8.92	8.61	8.26	8.66
OU2MW-08I	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	9.08	8.92	8.62	8.27	8.67
OU2MW-08I2	50.0 - 55.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	9.12	8.95	8.66	8.30	8.71
OU2MW-08D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	9.89	9.79	9.45	9.01	9.55
OU2MW-09	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	8.42	8.28	7.99	NC	8.04
OU2MW-10S	3.0 - 7.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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

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	Aug-04	Oct-04	Feb-05	May-05	Aug-05	Nov-05	Feb-06	May-06	July/Aug-06	Nov-06
OU2MW-15S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level																				
		Jan-07	May-07	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	Jul-10	Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12
BBMW-01S	5.0 - 15.0	13.03	13.36	12.63	11.91	12.78	13.27	12.22	12.92	12.88	13.10	13.11	12.29	13.41	14.73	12.27	12.47	12.65	13.00	12.78	12.88	13.35
BBMW-01I	32.0 - 42.0	13.01	13.34	12.62	11.90	12.77	13.25	12.21	12.91	12.88	13.07	13.11	12.30	13.43	14.74	12.27	11.58	12.63	13.02	12.55	12.88	12.82
BBMW-01D	68.5 - 78.5	13.02	13.38	12.64	11.91	12.79	13.29	12.24	12.94	12.91	13.08	13.15	12.34	13.43	14.74	12.29	11.99	12.70	13.00	12.58	12.91	13.03
BBMW-02S	5.0 - 15.0	12.07	12.35	11.56	11.00	11.85	12.23	11.23	11.92	11.57	12.08	12.09	11.27	12.39	13.60	11.22	11.05	11.74	12.03	11.57	11.77	11.71
BBMW-02I	30.0 - 40.0	12.02	12.35	11.55	11.00	11.85	12.24	11.24	11.92	11.88	12.08	12.10	11.26	12.39	13.59	11.21	11.05	11.73	12.06	11.63	11.83	11.76
BBMW-02D	73.0 - 83.0	12.02	12.33	11.54	10.98	11.84	12.22	11.21	11.90	11.87	12.07	12.07	11.22	12.34	13.60	11.21	11.03	11.72	11.98	11.68	11.81	11.87
BBMW-03S	3.0 - 13.0	8.02	8.27	7.71	7.36	7.92	8.21	7.43	8.00	7.89	8.09	8.10	7.43	8.28	9.68	7.39	7.50	7.88	8.03	7.62	8.26	7.98
BBMW-03I	30.0 - 40.0	8.01	8.28	7.71	7.37	7.89	8.22	7.43	8.02	7.86	8.09	8.10	7.47	8.28	9.68	7.39	7.52	7.89	8.04	7.40	8.08	7.87
BBMW-03D	52.0 - 62.0	8.05	8.32	7.74	7.38	7.92	8.23	7.43	8.03	7.90	8.09	8.11	7.45	8.29	9.70	7.39	7.51	7.89	8.04	7.36	8.00	7.87
BBMW-04D	63.0 - 73.0	14.39	NC	NC	13.28	14.20	14.78	10.72	14.37	14.39	14.59	14.57	13.15	14.74	16.04	13.67	13.25	14.00	14.35	14.12	14.16	14.40
BBMW-07S	5.0 - 15.0	5.63	NC	NC	4.18	5.63	5.97	5.43	5.76	5.46	5.76	5.98	5.39	6.05	7.77	5.28	5.49	5.58	5.72	5.62	5.82	5.53
BBMW-07I	30.0 - 40.0	5.63	NC	NC	5.16	5.57	5.96	5.43	5.77	5.46	5.86	5.96	5.38	6.03	7.76	5.28	5.47	5.56	5.70	5.45	5.64	5.47
BBMW-07D	55.0 - 65.0	5.64	NC	NC	5.15	5.62	5.98	5.45	5.76	5.46	5.75	5.96	5.37	6.03	7.73	5.29	5.52	5.55	5.69	5.60	5.74	5.47
BBMW-15S	5.0 - 15.0	10.71	11.01	10.26	9.81	10.57	10.91	9.93	10.63	10.57	10.75	10.76	9.92	11.42	12.16	9.87	9.82	10.44	10.67	10.38	10.63	10.71
BBMW-15I	35.0 - 45.0	10.66	10.98	10.27	9.78	10.54	10.85	9.90	10.55	10.55	10.72	10.75	9.92	11.02	12.13	9.84	9.83	10.44	10.67	10.32	10.52	10.55
BBMW-15I2	23.0 - 28.0	10.67	10.98	10.19	9.77	10.60	10.87	9.90	10.60	10.49	10.68	10.70	9.86	10.99	12.09	9.77	9.72	10.38	10.60	10.27	10.46	10.47
BBMW-15D	70.0 -80.0	10.67	10.96	10.22	9.77	10.54	10.86	9.89	10.57	10.51	10.67	10.73	9.87	11.00	12.11	9.82	9.78	10.63	10.62	10.22	10.49	10.33
BBMW-16S	5.0 - 15.0	10.02	10.28	9.56	9.14	9.80	10.14	9.29	9.87	9.85	10.09	10.14	9.46	10.19	11.39	9.33	9.28	9.70	9.94	9.55	9.95	12.95
BBMW-16I	35.0 - 45.0	10.06	10.32	9.58	9.16	9.77	10.18	9.31	9.89	9.89	10.09	15.14	9.45	10.38	11.45	9.34	9.30	9.73	9.97	9.65	9.96	13.26
BBMW-16D	68.0 - 78.0	10.06	10.32	9.56	9.15	9.82	10.23	9.36	9.94	9.92	10.53	10.19	9.48	10.42	11.48	9.38	9.34	9.78	10.49	9.68	10.01	12.89
BBMW-23S	5.0 - 15.0	13.48	13.76	10.35	12.31	13.19	13.67	12.62	13.34	13.25	13.37	13.49	12.67	13.75	15.14	12.63	12.35	13.03	13.09	13.10	13.19	13.14
BBMW-23I	33.0 - 43.0	13.47	13.76	10.48	12.31	13.19	13.68	12.62	13.33	13.24	13.46	13.49	12.61	13.73	15.09	12.60	12.30	13.01	12.99	13.07	13.14	13.06
BBMW-23D	49.5 - 59.5	13.49	13.81	10.29	12.28	13.19	13.71	12.65	13.36	13.26	13.86	13.51	12.69	13.76	15.13	12.63	12.38	13.05	13.05	13.20	13.19	13.10
BBMW-23D2	63.0 - 73.0	13.48	13.76	10.31	12.31	13.16	13.68	12.62	13.36	13.27	13.16	13.48	12.66	13.80	15.13	12.61	12.33	13.01	12.61	12.87	13.19	12.71
BBMW-24S	4.0 - 14.0	11.06	11.41	9.41	10.12	10.86	11.32	10.37	11.27	11.16	11.10	11.43	10.50	11.71	12.89	10.56	11.08	11.01	11.25	11.07	11.26	11.24
BBMW-24I	32.0 - 42.0	11.04	11.43	9.44	10.11	10.82	11.30	10.36	11.09	10.97	11.21	11.24	10.40	11.46	12.70	10.40	10.27	10.83	11.09	10.87	11.08	11.03
BBMW-24D	59.5 - 69.5	11.07	11.43	9.44	10.13	10.88	11.31	10.35	11.04	10.90	11.26	11.15	10.31	11.46	12.63	10.31	10.21	10.52	11.01	10.78	11.00	10.96
BBMW-25S	4.0 - 14.0	8.53	8.84	NC	7.78	8.37	8.77	NC	8.43	8.30	8.60	NC	NC	8.75	10.40	NC	7.89	8.29	8.50	8.14	8.46	8.29
BBMW-25I	25.0 - 35.0	8.55	8.86	NC	NC	NC	NC	NC	8.40	8.32	8.57	NC	NC	8.79	10.37	NC	7.90	8.31	8.49	8.17	8.54	8.30
BBMW-25D	62.0 - 72.0	8.52	8.83	NC	7.76	8.46	8.75	NC	8.45	8.36	8.56	NC	NC	8.90	10.35	NC	7.85	8.30	8.52	8.19	8.52	8.20
GM-03S	6.78 - 21.78	9.92	10.18	9.44	8.97	9.64	10.08	9.15	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
GM-03I	30.03 - 45.03	9.75	10.17	9.43	8.98	9.64	10.06	9.13	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
GM-03D	53.18 - 68.18	9.86	10.19	9.46	8.97	9.67	10.08	9.16	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
GM-05S	5.1 - 20.1	2.82	3.08	2.94	2.59	2.98	3.20	2.88	2.89	2.64	3.04	3.12	2.80	3.03	4.57	2.73	3.21	2.92	2.73	3.05	3.23	3.18
GM-05I	35.05 - 48.05	2.96	3.21	3.08	2.71	3.22	3.39	3.02	3.08	2.83	3.17	3.33	3.06	3.27	4.82	2.88	2.92	3.14	NC	3.10	3.44	3.42
GM-05D	60.95 - 75.95	7.59	7.76	6.96	6.83	7.54	NC	NC	7.66	7.66	7.66	7.87	7.10	7.87	7.87	7.05	7.36	5.53	7.37	7.16	7.87	7.87
GM-06S	8.97 - 23.97	3.29	3.73	3.44	3.07	3.39	3.71	3.35	3.58	3.14	3.64	3.77	3.31	3.82	5.56	3.24	3.51	3.39	3.45	3.51	3.69	3.01
GM-06I	35.40 - 40.40	3.30	3.75	3.45	3.08	3.39	3.72	3.36	3.60	3.16	3.65	3.75	3.31	3.85	5.57	3.25	3.46	3.40	3.46	3.48	3.69	3.24
GM-06D	60.05 - 75.05	3.30	3.74	3.45	3.08	3.38	3.70	3.37	3.59	3.17	3.67	3.75	3.32	3.82	5.57	3.24	3.43	3.41	3.45	3.54	3.69	3.06
GM-07S	9.75 - 24.75	2.42	2.71	2.62	2.30	2.54	2.73	2.57	2.57	2.20	2.70	2.86	2.46	2.81	4.41	2.49	2.80	2.56	2.41	2.54	2.92	2.35
GM-07I	29.6 - 44.6	2.41	2.69	2.60	2.30	2.50	2.72	2.56	2.56	2.20	2.68	2.83	2.42	2.79	4.39	2.47	2.98	2.54	2.38	2.59	2.89	2.30
GM-07D	50.3 - 65.3	2.43	2.70	2.61	2.31	2.55	2.72	2.57	2.57	2.20	2.70	2.83	2.38	2.77	4.36	2.48	2.81	2.57	2.40	2.62	3.01	2.30
GM-08S	6.35 - 21.35	0.79	0.96	1.02	0.72	1.08	1.13	0.99	0.79	0.57	1.21	1.48	1.02	1.16	2.81	0.94	1.54	1.01	0.69	1.19	1.48	0.90
GM-08I	29.95 - 44.95	0.79	0.97	1.02	0.73	1.04	1.13	1.00	0.79	0.58	1.22	1.16	1.04	1.17	2.81	0.74	1.39	1.03	NC	1.33	1.48	0.71
GM-08D	48.25 - 63.25	0.79	0.96	1.02	0.62	1.09	1.13	1.00	0.79	0.58	1.21	1.20	0.86	1.20	2.80	0.74	1.46	1.09	0.66	1.15	1.49	0.72
GM-09S	20.0 - 25.0	0.58	0.75	0.95	0.72	0.96	0.89	0.92	0.68	0.34	1.08	0.90	0.78	0.76	1.63	0.86	1.28	0.93	0.45	1.14	1.33	0.83
GM-09I	40.0 - 45.0	0.60	0.76	0.96	0.73	0.92	0.90	0.92	0.70	0.34	1.07	0.90	0.88	0.74	1.73	0.86	1.27	0.94	0.44	1.14	1.34	0.41
GM-09D	48.35 - 63.35	0.59	0.76	0.96	0.72	0.95	0.90	0.93	0.70	0.36	1.07	0.91	0.78	0.77	1.73	0.87	1.26	0.96	0.44	1.13	1.37	0.79
GM-10AD	unknown	1.43	1.76	1.80	1.50	1.70	1.83	1.75	1.66	1.22	1.79	1.94	1.61	1.82	3.43	1.65	2.01	NC	1.87	1.96	2.05	1.47

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

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level																			
		Jan-07	May-07	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	Jul-10	Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12
GMP-01	25.0 - 30.0	3.33	3.50	3.33	3.00	3.43	3.66	3.27	3.30	3.06	NC	3.57	3.17	3.48	5.4	3.14	3.73	3.39	3.19	3.42	3.70	3.64
GMP-02	18.0 - 23.0	2.59	2.74	2.55	2.30	2.72	2.89	2.58	2.55	2.31	2.74	2.83	2.77	2.79	4.76	2.44	2.97	2.72	2.39	2.79	3.06	2.95
GMP-04	15.5 - 20.5	1.51	1.06	1.63	1.41	1.28	1.00	1.65	1.09	0.70	1.39	1.29	1.01	1.50	2.80	0.95	2.01	1.54	0.89	1.37	1.69	1.36
MW-16AS	3.0 - 13.0	10.98	11.27	10.47	10.11	10.92	11.16	10.22	10.92	10.88	11.22	11.05	10.31	11.37	12.48	10.16	10.10	10.70	10.99	10.81	10.84	10.56
OU2-IW01S	3.0 - 8.0	NC	NC	NC	2.50	2.91	2.97	2.77	2.74	2.57	2.97	2.99	2.68	2.99	4.97	2.70	3.08	2.89	2.65	2.99	3.18	0.95
OU2MW-01WT	3.0 - 8.0	NC	NC	NC	7.74	8.29	8.70	NC	8.42	8.30	8.53	NC	7.82	8.81	10.29	NC	7.84	8.35	8.56	NC	8.51	8.35
OU2MW-01S	20.0 - 25.0	8.30	8.58	NC	7.56	8.12	8.51	NC	8.28	8.15	8.36	NC	7.70	8.61	10.18	NC	7.72	8.12	8.31	NC	8.31	8.20
OU2MW-01I	35.0 - 40.0	8.32	8.61	NC	7.56	8.17	8.52	NC	8.28	8.19	8.43	NC	7.72	8.52	10.25	NC	7.77	8.17	8.36	NC	8.40	8.29
OU2MW-01I2	50.0 - 55.0	8.40	8.59	NC	7.55	8.14	8.47	NC	8.27	8.13	8.33	NC	7.66	8.58	9.16	NC	7.72	8.13	8.28	NC	8.30	8.28
OU2MW-01D	65.0 - 70.0	9.89	10.06	NC	8.95	9.58	9.98	NC	9.70	9.61	9.84	NC	9.15	10.14	11.74	NC	9.13	9.51	9.75	NC	9.67	8.24
OU2MW-02S	20.0 - 25.0	8.31	8.51	NC	7.50	8.07	8.43	NC	8.21	8.08	8.28	NC	7.63	8.53	9.99	NC	7.68	NC	8.23	NC	8.19	8.28
OU2MW-02I	35.0 - 40.0	8.23	8.51	NC	7.52	8.10	8.42	NC	8.21	8.12	8.29	NC	7.63	8.52	10.03	NC	7.67	NC	8.24	NC	8.20	8.25
OU2MW-02I2	50.0 - 55.0	8.22	8.51	NC	7.10	8.08	8.41	NC	8.21	8.08	8.26	NC	7.60	8.51	9.99	NC	7.65	NC	8.21	NC	8.27	7.99
OU2MW-02D	65.0 - 70.0	8.42	8.68	NC	7.71	8.28	8.62	NC	8.42	8.30	8.47	NC	7.83	8.73	10.14	NC	7.87	NC	8.45	NC	8.42	8.26
OU2MW-03S	20.0 - 25.0	6.69	7.01	NC	6.12	6.62	7.01	NC	6.67	6.62	6.84	NC	6.26	7.08	8.84	NC	6.34	NC	6.73	6.63	6.81	6.73
OU2MW-03I	35.0 - 40.0	6.71	7.03	NC	6.14	6.64	7.02	NC	6.72	6.59	6.80	NC	6.27	7.10	8.86	NC	6.34	NC	6.75	6.59	6.79	6.79
OU2MW-03I2	50.0 - 55.0	6.69	7.02	NC	6.12	6.62	7.01	NC	6.68	6.52	6.78	NC	6.25	6.74	8.32	NC	6.34	NC	6.71	6.53	6.70	6.69
OU2MW-03D	65.0 - 70.0	8.85	8.95	NC	7.91	8.28	8.84	NC	8.50	7.17	8.67	NC	8.04	8.83	10.63	NC	7.84	NC	8.56	NC	6.66	6.72
OU2MW-04WT	3.0 - 8.0	NC	NC	NC	5.91	6.41	6.53	6.12	6.50	6.32	6.57	6.63	6.06	6.74	8.55	6.04	6.17	6.33	6.49	6.23	6.53	6.44
OU2MW-04S	20.0 - 25.0	6.41	6.75	6.25	5.93	6.40	6.71	6.12	6.50	6.27	5.60	6.60	6.06	6.77	8.37	6.00	6.15	6.39	6.48	6.33	6.64	6.56
OU2MW-04I	35.0 - 40.0	6.45	6.76	6.28	5.94	6.42	6.73	6.19	6.52	6.33	6.57	6.63	6.05	6.81	8.58	5.99	6.18	6.36	6.50	6.35	6.54	6.50
OU2MW-04I2	50.0 - 55.0	6.43	6.74	6.26	5.90	6.39	6.73	6.13	6.52	6.30	6.56	6.62	6.03	6.74	8.55	5.88	6.16	6.35	6.46	6.26	6.59	6.73
OU2MW-04D	65.0 - 70.0	6.47	6.77	6.28	6.06	6.41	6.74	6.14	6.52	6.25	6.56	6.63	6.02	6.78	8.56	5.99	6.17	6.38	6.48	6.19	6.50	6.69
OU2MW-05	25.0 - 35.0	3.97	4.21	3.97	3.54	4.01	4.29	3.92	4.05	3.80	-1.05	4.22	3.83	4.28	6.14	3.83	4.10	4.00	3.92	4.05	4.30	3.83
OU2MW-06S	3.0 - 8.0	NC	NC	NC	2.05	2.16	2.22	2.35	2.09	1.70	2.25	2.22	2.02	2.38	4.07	1.96	2.69	2.54	1.88	1.28	2.57	2.48
OU2MW-06	25.0 - 35.0	2.21	2.17	2.22	2.03	2.16	2.16	2.32	2.07	1.66	2.27	2.26	2.03	2.37	4.11	1.93	2.65	2.49	1.85	0.81	2.54	2.13
OU2MW-07S	3.0 - 8.0	NC	NC	NC	1.96	2.04	1.94	2.22	1.85	1.50	2.11	2.02	1.87	2.22	3.67	1.75	2.61	2.45	1.72	2.14	2.45	1.65
OU2MW-07	15.0 - 25.0	2.08	1.89	2.02	1.93	2.02	1.89	2.17	1.80	1.45	2.06	1.47	1.75	2.14	3.79	1.72	2.49	2.41	1.70	2.11	2.37	1.58
OU2MW-08WT	3.0 - 8.0	NC	NC	NC	7.87	8.51	8.87	8.04	8.63	8.52	8.74	8.72	8.03	8.98	10.26	7.95	8.07	8.49	8.67	8.37	8.56	8.46
OU2MW-08S	20.0 - 25.0	8.66	8.96	8.28	7.85	8.52	8.86	8.04	8.62	8.52	8.71	8.74	8.00	8.90	10.28	7.97	8.06	8.48	8.67	8.44	8.59	8.47
OU2MW-08I	35.0 - 40.0	8.66	8.97	8.29	7.87	8.56	8.86	8.02	8.61	8.49	8.71	8.74	8.00	8.97	10.24	7.92	8.03	8.45	8.65	8.35	8.54	8.48
OU2MW-08I2	50.0 - 55.0	8.70	8.99	8.32	7.89	8.52	9.58	8.06	8.64	8.52	8.72	8.74	8.53	8.99	10.27	7.96	8.03	8.28	8.68	8.39	8.57	8.45
OU2MW-08D	65.0 - 70.0	9.52	9.83	9.06	8.69	9.34	9.72	8.75	9.45	9.42	9.54	9.58	8.82	9.83	11.06	8.69	8.82	9.27	8.49	8.31	9.41	9.34
OU2MW-09	20.0 - 30.0	8.02	8.27	7.71	7.37	7.93	8.20	7.47	8.00	7.89	8.08	8.11	7.45	8.30	9.67	7.35	7.51	6.96	8.01	7.63	8.00	7.87
OU2MW-10S	3.0 - 7.0	NC	NC	NC	2.00	2.42	2.60	2.38	2.37	1.99	2.41	2.52	2.29	2.35	4.52	2.15	2.65	NC	2.11	2.41	2.65	0.91
OU2MW-10I	20.0 - 25.0	NC	NC	NC	2.01	2.42	2.61	2.35	2.36	1.76	2.47	2.54	2.25	2.32	4.55	2.14	2.65	NC	2.11	2.51	2.75	1.00
OU2MW-10D	35.0 - 40.0	NC	NC	NC	1.99	2.38	2.60	2.33	2.34	1.97	2.41	2.52	2.20	2.32	4.50	2.19	2.60	NC	2.08	2.41	2.65	1.03
OU2MW-11S	3.0 - 8.0	NC	NC	NC	3.29	3.65	3.92	3.58	3.68	3.42	3.75	3.83	3.51	3.84	5.83	3.42	3.80	3.65	3.52	3.74	3.95	3.47
OU2MW-11I	20.0 - 25.0	NC	NC	NC	3.26	3.67	3.89	3.57	3.65	3.38	3.75	3.81	3.44	3.84	5.76	3.33	3.85	3.63	3.52	3.79	4.03	3.54
OU2MW-11I2	30.0 - 35.0	NC	NC	NC	3.24	3.68	3.86	3.55	3.62	3.25	3.71	3.76	3.46	3.81	5.75	3.38	3.75	3.61	3.46	3.58	3.91	3.37
OU2MW-11D	40.0 - 45.0	NC	NC	NC	3.23	3.63	3.85	3.54	3.61	3.35	3.72	3.77	3.55	3.80	5.70	3.36	3.74	3.11	3.45	3.68	3.88	3.45
OU2MW-12S	3.0 - 7.0	NC	NC	NC	2.64	3.05	3.24	3.01	2.88	2.63	3.23	3.12	2.74	3.03	5.02	2.79	3.32	3.02	2.75	3.12	3.31	2.71
OU2MW-12I	20.0 - 25.0	NC	NC	NC	2.70	3.08	3.34	3.05	3.00	2.69	3.19	3.29	2.87	3.29	5.18	2.83	3.42	3.06	2.85	3.12	3.38	2.68
OU2MW-12I2	30.0 - 35.0	NC	NC	NC	2.70	2.97	3.27	3.03	2.91	2.61	3.13	3.16	3.01	3.20	5.07	2.80	3.42	3.07	2.81	3.14	3.31	2.76
OU2MW-12D	40.0 - 45.0	NC	NC	NC	2.67	3.06	3.26	3.02	2.91	2.62	3.15	3.15	2.84	3.19	5.04	2.80	3.41	3.08	2.81	3.13	3.30	2.53
OU2MW-13S	3.0 - 8.0	NC	NC	NC	1.82	2.16	2.27	2.29	1.96	1.64	2.23	2.13	1.92	2.23	3.72	1.89	2.65	2.29	1.81	2.15	2.47	1.47
OU2MW-13I	20.0 - 25.0	NC	NC	NC	1.79	2.08	2.21	2.30	1.95	1.61	2.15	2.09	1.89	2.30	3.70	1.83	2.71	2.37	1.81	2.10	2.44	1.54
OU2MW-13D	35.0 - 40.0	NC	NC	NC	1.79	2.00	2.20	2.29	1.94	1.58	2.12	2.08	1.85	2.25	3.68	1.83	2.74	2.32	1.79	2.20	2.43	1.64
OU2MW-14S	3.0 - 8.0	NC	NC	NC	7.64	7.76	8.63	7.78	8.35	8.21	8.52	8.54	7.85	8.78	10.06	7.81	7.80	8.11	8.33	8.11	8.31	7.99
OU2MW-14I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	8.04	8.61	8.47	8.75	8.77	8.13	9.00	10.30	7.99	8.05	8.35	8.57	8.40	8.57	8.34
OU2MW-14I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	8.05	8.61	8.46	8.74	8.80	8.09	9.01	10.35	7.99	8.10	8.45	8.61	8.40	NC	8.54

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

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level																			
		Jan-07	May-07	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	Jul-10	Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12
OU2MW-15S	3.0 - 8.0	NC	NC	NC	2.04	2.45	2.64	2.37	2.37	2.00	2.44	2.56	2.29	2.40	4.58	2.22	2.63	2.27	2.15	2.17	2.66	1.68
OU2MW-15I	20.0 - 25.0	NC	NC	NC	2.05	2.43	2.63	2.37	2.38	2.02	2.47	2.59	2.49	2.41	4.58	2.24	2.60	2.30	2.66	2.47	2.59	2.02
OU2MW-15I2	30.0 - 35.0	NC	NC	NC	2.06	2.41	2.65	2.37	2.39	2.00	2.40	2.59	2.26	2.43	4.56	2.23	2.58	2.16	2.05	2.48	2.60	2.00
OU2MW-15D	40.0 - 45.0	NC	NC	NC	2.06	2.46	2.66	2.37	2.39	2.02	2.45	2.60	2.30	2.40	4.53	2.26	2.60	2.38	2.22	2.45	2.56	2.16
OU2MW-16S	3.0 - 8.0	NC	NC	NC	2.14	2.59	2.83	2.55	2.55	2.11	2.66	2.69	2.41	2.58	4.73	2.34	2.80	NC	2.26	2.66	3.00	2.34
OU2MW-16I	15.0 - 20.0	NC	NC	NC	2.12	2.56	2.75	2.48	2.47	2.16	2.58	2.67	2.35	2.49	4.63	2.26	2.75	NC	2.23	2.48	2.78	2.29
OU2MW-16I2	25.0 - 30.0	NC	NC	NC	2.13	2.51	2.77	2.49	2.48	2.04	2.56	2.65	2.33	2.50	4.66	2.30	2.76	NC	2.21	2.34	2.55	2.23
OU2MW-16D	35.0 - 40.0	NC	NC	NC	2.14	2.56	2.75	2.48	2.48	2.15	2.58	2.66	2.39	2.50	4.67	2.28	2.72	NC	2.21	2.56	2.79	3.51
OU2MW-17S	5.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.05	12.70	13.56	13.00	12.90	12.69
OU2MW-17I	13.0 - 23.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.07	12.71	13.50	12.92	12.97	12.83
OU2MW-17I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.05	12.66	13.47	12.92	12.99	12.76
OU2MW-17D	60.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.05	12.66	13.35	12.83	12.89	12.59
OU2MW-18I	13.0 - 23.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.04	12.63	13.83	12.73	12.86	12.89
OU2MW-18I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	11.99	12.60	13.79	12.74	12.86	12.75
OU2MW-18D	60.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.02	12.63	13.87	12.58	12.88	12.72
OU2MW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.78	11.47	12.52	13.88	11.43	11.22	11.83	12.15	11.76	12.21	12.21
OU2MW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.26	11.43	12.46	13.86	11.44	11.20	11.82	12.13	11.88	12.27	12.38
OU2MW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	15.26	11.48	12.46	13.86	11.42	11.19	11.83	12.14	11.66	12.07	12.17
OU2MW-39D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.27	11.45	12.45	13.85	11.43	11.19	11.84	12.13	11.23	12.08	12.13
OU2MW-49S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.51	13.23	13.58	13.14	13.53	13.54
OU2MW-49I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.91	13.65	13.99	13.54	13.78	13.79
OU2MW-49I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.50	13.26	13.58	12.97	13.39	13.22
OU2MW-49D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.49	12.80	13.57	13.00	13.22	13.38
OU2MW-50S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.54	13.24	13.55	13.48
OU2MW-50I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.44	13.14	13.52	13.36
OU2MW-50I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.53	13.23	13.51	13.43
OU2MW-50D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.57	13.25	13.54	13.55
OU2MW-51S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.32	13.29	13.46	13.33
OU2MW-51I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.28	13.20	13.47	13.40
OU2MW-51I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.40	13.25	13.52	13.45
OU2MW-51D	61.0 - 66.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.38	13.27	13.46	13.42
OU2MW-52S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	3.17	1.47	2.23	2.33	1.35	2.00	2.11	1.29
OU2MW-52I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	3.36	1.46	2.19	2.09	1.19	1.73	2.12	1.08
OU2MW-52D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	3.35	1.44	2.12	2.10	1.23	1.55	2.13	1.15
OU2MW-53S	3.0 - 8.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	3.12	1.13	1.69	NC	1.03	0.93	1.73	0.64
OU2MW-53I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	2.31	1.13	1.83	NC	0.90	0.89	1.83	0.68
OU2MW-53D	35.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	1.14	1.84	NC	1.13	1.06	1.82	0.70
OU2MW-54S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.29	12.99	13.04	13.07	13.15	13.19
OU2MW-54I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.22	13.00	14.94	12.93	13.08	13.04
OU2MW-54I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.25	12.74	12.55	12.81	13.13	13.07
OU2MW-54D	60.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.26	13.27	13.28	13.21	13.13	13.35
OU2MW-57S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.40	12.59	13.44	13.40	13.30	13.61
OU2MW-57I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.42	12.90	13.46	13.03	NC	13.16
OU2MW-57I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.43	13.33	13.44	13.03	13.33	13.40
OU2MW-58S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.00	12.89	13.09	13.71
OU2MW-58I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.00	12.93	13.05	13.07

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

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Apr-12	Apr-13	Apr-14	Apr-15	Jun-16	Apr-17	Jun-18	Apr-19	Oct-20	Minimum	Average	Maximum
BBMW-01S	5.0 - 15.0	13.26	12.85	14.25	13.14	11.95	13.25	12.52	12.01	12.01	11.91	12.89	14.73
BBMW-01I	32.0 - 42.0	12.82	12.60	13.73	13.13	11.94	13.27	12.51	12.04	12.04	11.58	12.80	14.74
BBMW-01D	68.5 - 78.5	12.90	12.86	13.80	13.17	11.97	13.29	12.55	12.02	12.02	11.91	12.87	14.74
BBMW-02S	5.0 - 15.0	11.41	11.95	12.46	12.05	10.72	12.50	11.55	11.12	11.12	10.72	11.79	13.60
BBMW-02I	30.0 - 40.0	11.65	12.22	12.66	12.31	11.05	12.48	11.57	11.11	11.11	10.96	11.82	13.59
BBMW-02D	73.0 - 83.0	11.74	12.34	12.69	12.13	11.38	12.46	11.54	11.07	11.07	10.93	11.81	13.60
BBMW-03S	3.0 - 13.0	7.76	8.05	8.98	8.14	7.37	8.37	7.77	7.44	7.44	7.36	7.94	9.68
BBMW-03I	30.0 - 40.0	7.59	8.04	8.77	8.10	7.38	8.38	7.77	7.44	7.44	7.37	7.93	9.68
BBMW-03D	52.0 - 62.0	7.64	8.12	8.94	8.15	7.39	8.40	7.76	7.44	7.44	7.35	7.95	9.70
BBMW-04D	63.0 - 73.0	14.29	14.62	13.59	14.50	13.23	14.79	14.24	NC	NC	10.72	14.07	16.04
BBMW-07S	5.0 - 15.0	5.33	5.77	6.59	5.79	5.19	6.30	5.65	5.39	5.39	4.18	5.71	7.77
BBMW-07I	30.0 - 40.0	5.31	5.79	6.60	5.79	5.20	6.30	5.63	5.38	5.38	5.13	5.72	7.76
BBMW-07D	55.0 - 65.0	5.37	5.83	6.58	5.79	5.17	6.31	5.64	5.41	5.41	5.11	5.72	7.73
BBMW-15S	5.0 - 15.0	10.53	10.85	11.35	10.83	9.87	11.19	10.32	9.89	9.89	9.71	10.54	12.16
BBMW-15I	35.0 - 45.0	10.18	10.61	10.32	10.83	9.84	11.17	NC	9.86	9.86	9.66	10.47	12.13
BBMW-15I2	23.0 - 28.0	10.24	10.65	10.22	10.78	9.79	11.09	NC	9.77	9.77	9.66	10.44	12.09
BBMW-15D	70.0 -80.0	10.06	10.60	10.05	10.78	9.84	11.14	NC	9.81	9.81	9.66	10.45	12.11
BBMW-16S	5.0 - 15.0	9.56	9.82	10.44	10.07	9.18	10.30	9.69	9.86	9.86	9.04	10.10	14.62
BBMW-16I	35.0 - 45.0	9.96	10.04	11.03	10.13	9.11	6.75	9.66	9.30	9.30	6.75	10.00	15.14
BBMW-16D	68.0 - 78.0	9.58	10.08	10.60	10.17	9.55	10.27	9.70	10.35	10.35	9.03	10.03	12.89
BBMW-23S	5.0 - 15.0	12.71	13.23	14.06	14.08	12.31	13.64	12.89	12.68	12.68	10.35	13.17	15.14
BBMW-23I	33.0 - 43.0	12.66	13.16	14.04	13.46	12.24	13.62	12.79	12.28	12.28	10.48	13.12	15.09
BBMW-23D	49.5 - 59.5	12.65	13.12	14.21	13.56	12.85	13.67	12.87	12.39	12.39	10.29	13.17	15.13
BBMW-23D2	63.0 - 73.0	12.21	12.73	13.99	13.50	12.29	13.63	12.84	12.32	12.32	10.31	13.09	15.13
BBMW-24S	4.0 - 14.0	10.74	11.27	12.04	11.48	10.35	11.80	10.88	10.45	10.45	9.41	11.01	12.89
BBMW-24I	32.0 - 42.0	10.69	11.10	12.04	11.30	10.21	11.62	10.83	10.28	10.28	9.44	10.92	12.70
BBMW-24D	59.5 - 69.5	10.38	10.99	11.96	11.21	10.14	11.53	10.65	10.22	10.22	9.44	10.88	12.63
BBMW-25S	4.0 - 14.0	9.40	8.55	9.60	8.69	7.76	8.98	8.21	7.88	7.88	7.23	8.34	10.40
BBMW-25I	25.0 - 35.0	9.29	8.57	9.58	8.68	7.78	8.98	8.24	7.85	7.85	7.25	8.35	10.37
BBMW-25D	62.0 - 72.0	9.22	8.52	9.47	8.65	7.72	8.99	8.13	7.84	7.84	7.18	8.34	10.35
GM-03S	6.78 - 21.78	NC	NC	NC	NC	NC	NC	NC	NC	0.00	0.00	9.31	10.83
GM-03I	30.03 - 45.03	NC	NC	NC	NC	NC	NC	NC	NC	0.00	0.00	9.19	10.67
GM-03D	53.18 - 68.18	NC	NC	NC	NC	NC	NC	NC	NC	0.00	0.00	9.28	10.77
GM-05S	5.1 - 20.1	3.76	3.09	3.65	2.91	2.71	3.46	3.04	3.01	3.01	2.12	3.01	4.57
GM-05I	35.05 - 48.05	4.40	3.32	3.80	3.07	2.91	3.65	3.27	3.14	3.14	2.28	3.18	4.82
GM-05D	60.95 - 75.95	7.64	7.87	5.85	NM	2.91	7.87	8.31	9.30	9.30	2.91	7.52	9.30
GM-06S	8.97 - 23.97	3.15	3.52	4.42	3.51	3.11	4.19	3.55	3.45	3.45	2.59	3.52	5.56
GM-06I	35.40 - 40.40	3.16	3.54	4.47	3.50	3.11	4.21	3.57	3.42	3.42	2.60	3.55	5.57
GM-06D	60.05 - 75.05	3.36	3.55	4.45	3.48	3.12	4.20	3.57	3.42	3.42	2.71	3.54	5.57
GM-07S	9.75 - 24.75	2.41	2.71	3.41	2.48	2.42	3.28	2.79	2.63	2.63	1.40	2.62	4.41
GM-07I	29.6 - 44.6	2.42	2.68	3.21	2.25	2.21	3.05	2.59	2.40	2.40	1.32	2.59	4.39
GM-07D	50.3 - 65.3	2.40	2.70	3.63	2.69	2.64	3.48	3.00	2.83	2.83	1.52	2.70	4.36
GM-08S	6.35 - 21.35	0.83	1.35	1.98	0.86	0.92	1.60	1.11	1.21	1.21	0.37	1.09	2.81
GM-08I	29.95 - 44.95	0.94	1.43	1.78	0.84	0.96	1.62	1.13	1.18	1.18	0.53	1.08	2.81
GM-08D	48.25 - 63.25	0.92	1.34	2.01	0.85	0.93	1.62	1.12	1.00	1.00	0.26	1.07	2.80
GM-09S	20.0 - 25.0	0.27	0.92	1.32	0.63	0.89	1.63	1.03	1.10	1.10	0.26	0.78	1.63
GM-09I	40.0 - 45.0	0.49	0.93	1.40	0.60	0.77	1.62	1.01	1.09	1.09	0.26	0.78	1.73
GM-09D	48.35 - 63.35	0.68	0.59	1.28	0.61	0.87	1.65	1.03	1.08	1.08	0.02	0.85	1.73
GM-10AD	unknown	1.47	1.82	2.47	1.55	1.61	2.41	1.91	1.86	1.86	1.08	1.80	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

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Apr-12	Apr-13	Apr-14	Apr-15	Jun-16	Apr-17	Jun-18	Apr-19	Oct-20	Minimum	Average	Maximum
GMP-01	25.0 - 30.0	3.13	3.53	4.13	3.36	3.09	3.86	3.51	3.32	3.32	2.97	3.47	5.40
GMP-02	18.0 - 23.0	2.49	2.80	3.36	2.60	3.09	3.13	2.82	NC	NC	2.24	2.77	4.76
GMP-04	15.5 - 20.5	1.34	NC	1.53	1.38	1.38	0.34	1.54	NC	NC	0.34	1.32	2.80
MW-16AS	3.0 - 13.0	10.55	10.94	11.71	11.15	11.15	11.48	10.59	10.07	10.07	9.93	10.82	12.48
OU2-IW01S	3.0 - 8.0	2.01	3.01	2.40	2.79	2.79	3.32	3.01	3.03	3.03	0.95	2.85	4.97
OU2MW-01WT	3.0 - 8.0	9.35	8.50	9.66	8.74	8.74	8.99	8.27	7.89	7.89	7.74	8.55	10.29
OU2MW-01S	20.0 - 25.0	8.11	8.19	9.16	8.46	8.46	8.79	8.00	7.66	7.66	7.56	8.33	10.18
OU2MW-01I	35.0 - 40.0	8.28	8.36	9.28	8.47	8.47	8.83	8.04	7.78	7.78	7.56	8.43	10.25
OU2MW-01I2	50.0 - 55.0	8.21	8.30	9.23	8.42	NC	8.76	12.28	NC	NC	7.55	8.51	12.28
OU2MW-01D	65.0 - 70.0	8.12	8.32	9.05	10.01	NC	10.17	12.35	NC	NC	8.12	9.67	12.35
OU2MW-02S	20.0 - 25.0	8.45	8.23	9.08	8.37	7.48	8.61	7.99	7.62	7.62	7.48	8.26	9.99
OU2MW-02I	35.0 - 40.0	8.50	8.27	9.38	8.34	7.37	8.60	7.96	7.65	7.65	7.37	8.26	10.03
OU2MW-02I2	50.0 - 55.0	8.43	8.23	9.54	8.33	5.95	8.58	7.94	7.59	7.59	5.95	8.18	9.99
OU2MW-02D	65.0 - 70.0	8.26	7.98	9.23	8.66	7.43	8.92	8.32	8.05	8.05	7.43	8.43	10.14
OU2MW-03S	20.0 - 25.0	6.81	6.83	8.32	6.85	6.12	7.31	6.54	6.34	6.34	6.12	6.84	8.84
OU2MW-03I	35.0 - 40.0	6.75	6.79	8.26	6.85	6.10	7.33	6.50	6.27	6.27	6.10	6.83	8.86
OU2MW-03I2	50.0 - 55.0	6.64	6.77	8.18	6.84	6.05	7.31	6.48	6.23	6.23	6.05	6.77	8.32
OU2MW-03D	65.0 - 70.0	6.64	6.73	8.13	8.66	6.15	8.98	8.17	7.94	7.94	6.15	8.11	10.63
OU2MW-04WT	3.0 - 8.0	6.38	6.49	7.64	6.59	5.79	7.05	6.14	6.01	6.01	5.79	6.47	8.55
OU2MW-04S	20.0 - 25.0	6.38	6.36	7.43	6.59	6.59	7.17	6.26	6.05	6.05	5.60	6.49	8.37
OU2MW-04I	35.0 - 40.0	6.38	6.33	7.55	6.56	6.56	7.15	6.27	6.04	6.04	5.94	6.53	8.58
OU2MW-04I2	50.0 - 55.0	6.21	6.34	7.45	6.55	6.55	7.13	6.25	6.03	6.03	5.88	6.52	8.55
OU2MW-04D	65.0 - 70.0	6.18	6.48	7.42	6.57	6.57	7.15	6.27	6.00	6.00	5.99	6.53	8.56
OU2MW-05	25.0 - 35.0	3.73	4.14	4.92	4.03	4.03	4.55	4.07	3.91	3.91	-1.05	3.98	6.14
OU2MW-06S	3.0 - 8.0	1.94	2.39	3.08	2.14	2.14	2.57	2.40	2.20	2.20	1.28	2.30	4.07
OU2MW-06	25.0 - 35.0	2.86	2.37	3.11	2.10	2.10	2.73	2.40	2.17	2.17	0.81	2.28	4.11
OU2MW-07S	3.0 - 8.0	1.51	2.33	2.77	2.01	2.01	2.29	2.27	2.09	2.09	1.50	2.13	3.67
OU2MW-07	15.0 - 25.0	1.48	2.26	2.79	1.99	1.99	2.22	2.23	2.05	2.05	1.45	2.06	3.79
OU2MW-08WT	3.0 - 8.0	8.53	8.81	9.68	8.83	8.83	9.16	8.33	8.04	8.04	7.87	8.59	10.26
OU2MW-08S	20.0 - 25.0	8.48	8.69	9.37	9.18	9.18	9.15	8.32	7.99	7.99	7.85	8.61	10.28
OU2MW-08I	35.0 - 40.0	8.49	8.63	9.38	8.78	8.78	9.14	8.29	7.94	7.94	7.87	8.58	10.24
OU2MW-08I2	50.0 - 55.0	8.58	8.79	9.43	8.77	8.77	9.15	8.34	8.00	8.00	7.89	8.64	10.27
OU2MW-08D	65.0 - 70.0	8.93	9.49	9.60	9.68	9.68	9.98	9.13	8.78	8.78	8.31	9.33	11.06
OU2MW-09	20.0 - 30.0	7.75	8.03	8.81	8.14	7.36	8.36	7.77	7.43	7.43	6.96	7.93	9.67
OU2MW-10S	3.0 - 7.0	2.09	2.44	3.18	2.21	2.17	2.85	2.54	2.36	2.36	0.91	2.42	4.52
OU2MW-10I	20.0 - 25.0	2.00	2.45	3.32	2.32	2.17	3.00	2.57	2.36	2.36	1.00	2.44	4.55
OU2MW-10D	35.0 - 40.0	2.15	2.38	3.22	2.23	2.13	3.11	2.51	2.32	2.32	1.03	2.42	4.50
OU2MW-11S	3.0 - 8.0	3.36	3.80	4.60	3.66	3.38	4.17	3.76	3.57	3.57	3.29	3.77	5.83
OU2MW-11I	20.0 - 25.0	3.45	3.82	4.60	3.60	3.50	4.14	3.74	3.54	3.54	3.26	3.76	5.76
OU2MW-11I2	30.0 - 35.0	3.26	3.58	4.48	3.53	2.88	4.12	-3.30	3.50	3.50	-3.30	3.42	5.75
OU2MW-11D	40.0 - 45.0	3.35	3.73	4.51	3.56	3.31	4.11	3.73	3.48	3.48	3.11	3.69	5.70
OU2MW-12S	3.0 - 7.0	2.70	3.14	3.80	2.97	2.76	3.47	3.13	2.98	2.98	2.63	3.09	5.02
OU2MW-12I	20.0 - 25.0	2.66	3.23	3.81	2.96	2.84	3.50	3.26	2.96	2.96	2.66	3.16	5.18
OU2MW-12I2	30.0 - 35.0	2.78	3.13	3.86	3.00	2.82	3.49	3.21	2.97	2.97	2.61	3.13	5.07
OU2MW-12D	40.0 - 45.0	2.55	3.11	3.79	2.95	2.74	3.47	3.17	2.99	2.99	2.53	3.10	5.04
OU2MW-13S	3.0 - 8.0	1.69	2.17	2.61	2.07	1.88	2.53	NC	NC	NC	1.47	2.17	3.72
OU2MW-13I	20.0 - 25.0	1.90	2.40	2.54	2.08	1.83	2.32	2.31	2.27	2.27	1.54	2.18	3.70
OU2MW-13D	35.0 - 40.0	2.05	2.35	2.49	2.06	1.80	2.31	2.31	2.24	2.24	1.58	2.17	3.68
OU2MW-14S	3.0 - 8.0	8.18	8.38	10.13	8.88	7.66	8.84	8.14	7.77	7.77	7.64	8.31	10.13
OU2MW-14I	20.0 - 25.0	8.34	8.66	10.33	9.20	7.83	9.09	8.30	8.00	8.00	7.83	8.59	10.33
OU2MW-14I2	40.0 - 45.0	8.47	8.67	10.37	9.21	7.87	9.14	8.29	8.02	8.02	7.87	8.62	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

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Apr-12	Apr-13	Apr-14	Apr-15	Jun-16	Apr-17	Jun-18	Apr-19	Oct-20	Minimum	Average	Maximum
OU2MW-15S	3.0 - 8.0	1.72	2.48	3.45	1.25	2.16	3.04	2.57	2.39	2.39	1.25	2.42	4.58
OU2MW-15I	20.0 - 25.0	1.97	2.45	3.39	2.24	2.18	3.03	2.57	2.41	2.41	1.97	2.52	4.58
OU2MW-15I2	30.0 - 35.0	2.01	2.43	3.28	2.19	2.12	2.96	2.50	2.33	2.33	2.00	2.46	4.56
OU2MW-15D	40.0 - 45.0	2.15	2.48	-2.49	2.34	2.21	3.12	2.64	2.48	2.48	-2.49	2.31	4.53
OU2MW-16S	3.0 - 8.0	2.17	2.55	3.44	2.40	2.35	3.13	2.72	2.51	2.51	2.11	2.65	4.73
OU2MW-16I	15.0 - 20.0	2.21	2.53	3.43	2.34	2.29	3.09	2.68	2.48	2.48	2.12	2.60	4.63
OU2MW-16I2	25.0 - 30.0	2.19	2.55	3.41	2.32	1.83	3.08	2.67	2.49	2.49	1.83	2.56	4.66
OU2MW-16D	35.0 - 40.0	2.18	2.69	3.41	2.36	2.16	3.07	2.67	2.47	2.47	2.14	2.65	4.67
OU2MW-17S	5.0 - 10.0	12.44	12.86	13.80	13.13	11.98	13.22	12.54	12.08	12.08	11.98	12.74	13.80
OU2MW-17I	13.0 - 23.0	12.65	12.99	13.68	13.16	11.97	13.23	12.54	12.13	12.13	11.97	12.77	13.68
OU2MW-17I2	35.0 - 45.0	12.65	12.84	13.65	13.12	11.99	13.22	12.59	12.10	12.10	11.99	12.74	13.65
OU2MW-17D	60.0 - 70.0	12.53	12.71	13.58	13.10	11.95	13.22	12.53	12.08	12.08	11.95	12.68	13.58
OU2MW-18I	13.0 - 23.0	12.86	12.92	13.73	13.10	11.94	13.23	12.51	12.03	12.03	11.94	12.76	13.83
OU2MW-18I2	35.0 - 45.0	12.75	12.87	13.68	13.12	11.94	13.21	12.52	12.04	12.04	11.94	12.73	13.79
OU2MW-18D	60.0 - 70.0	12.79	12.86	13.60	13.12	11.93	13.22	12.52	12.03	12.03	11.93	12.72	13.87
OU2MW-39S	5.0 - 15.0	12.26	12.18	12.92	12.32	11.16	12.50	11.72	11.26	11.26	11.16	12.05	13.88
OU2MW-39I	25.0 - 30.0	12.32	12.15	13.02	12.30	11.15	12.44	11.68	11.25	11.25	11.15	12.03	13.86
OU2MW-39I2	45.0 - 50.0	12.15	11.99	12.72	12.29	11.16	12.45	11.70	11.26	11.26	11.16	12.13	15.26
OU2MW-39D	70.0 - 75.0	12.17	11.98	12.88	12.27	11.16	12.45	11.70	11.24	11.24	11.16	11.96	13.85
OU2MW-49S	3.0 - 13.0	13.29	13.66	14.48	13.75	12.50	13.86	13.07	12.55	12.55	12.50	13.28	14.48
OU2MW-49I	25.0 - 30.0	13.46	13.82	14.72	14.15	12.87	14.24	13.48	12.95	12.95	12.87	13.62	14.72
OU2MW-49I2	45.0 - 50.0	12.90	13.23	14.31	13.74	12.48	12.85	13.06	12.55	12.55	12.48	13.11	14.31
OU2MW-49D	63.0 - 68.0	13.13	13.40	14.39	13.73	12.48	13.83	13.08	12.55	12.55	12.48	13.17	14.39
OU2MW-50S	5.0 - 15.0	13.43	13.48	14.40	13.88	12.64	13.94	13.21	13.85	13.85	12.64	13.58	14.40
OU2MW-50I	25.0 - 30.0	13.28	13.44	14.34	13.81	12.62	13.85	13.21	12.70	12.70	12.62	13.34	14.34
OU2MW-50I2	45.0 - 50.0	13.33	13.47	14.30	13.83	12.56	13.88	13.16	12.69	12.69	12.56	13.35	14.30
OU2MW-50D	65.0 - 70.0	13.48	13.51	14.31	13.85	12.60	13.84	13.20	12.69	12.69	12.60	13.39	14.31
OU2MW-51S	5.0 - 15.0	13.42	13.47	14.28	13.65	12.80	13.78	13.24	13.73	13.73	12.80	13.50	14.28
OU2MW-51I	25.0 - 30.0	13.34	13.47	14.10	13.74	12.59	13.72	13.13	12.68	12.68	12.59	13.29	14.10
OU2MW-51I2	45.0 - 50.0	13.41	13.53	14.30	13.79	12.58	13.78	13.15	12.74	12.74	12.58	13.36	14.30
OU2MW-51D	61.0 - 66.0	13.40	13.41	14.61	13.74	12.56	13.82	13.15	12.64	12.64	12.56	13.35	14.61
OU2MW-52S	3.0 - 8.0	0.58	1.91	2.40	2.20	1.48	1.97	2.12	NC	NC	0.58	1.91	3.17
OU2MW-52I	20.0 - 25.0	0.27	1.94	2.34	1.61	1.44	3.99	1.81	NC	NC	0.27	1.91	3.99
OU2MW-52D	35.0 - 40.0	0.40	1.85	1.90	1.64	1.45	1.85	1.98	NC	NC	0.40	1.74	3.35
OU2MW-53S	3.0 - 8.0	0.34	1.49	2.38	1.34	2.47	2.28	1.63	NC	NC	0.34	1.59	3.12
OU2MW-53I	20.0 - 25.0	0.36	1.36	2.22	1.23	1.18	1.47	1.38	NC	NC	0.36	1.34	2.31
OU2MW-53D	35.0 - 40.0	0.51	1.45	2.86	1.26	1.17	1.49	NC	NC	NC	0.51	1.37	2.86
OU2MW-54S	5.0 - 15.0	12.77	13.42	14.13	13.45	12.70	13.59	13.03	12.33	12.33	12.29	13.03	14.13
OU2MW-54I	25.0 - 30.0	12.73	13.20	14.13	13.44	12.25	13.59	12.83	12.27	12.27	12.22	13.06	14.94
OU2MW-54I2	40.0 - 45.0	12.55	13.18	13.99	13.47	12.27	13.59	12.81	12.29	12.29	12.25	12.87	13.99
OU2MW-54D	60.0 - 65.0	12.85	13.21	14.18	13.45	12.36	13.58	12.80	12.33	12.33	12.26	13.04	14.18
OU2MW-57S	5.0 - 15.0	12.94	13.34	14.94	13.65	12.41	13.82	12.99	12.43	12.43	12.40	13.18	14.94
OU2MW-57I	20.0 - 30.0	12.68	13.17	14.59	13.65	12.39	13.54	12.99	12.48	12.48	12.39	13.07	14.59
OU2MW-57I2	35.0 - 45.0	12.79	13.40	14.79	13.66	12.39	13.98	12.96	12.44	12.44	12.39	13.19	14.79
OU2MW-58S	5.0 - 15.0	12.72	13.11	14.55	13.35	12.24	13.46	12.75	12.39	12.39	12.24	13.05	14.55
OU2MW-58I	25.0 - 30.0	12.60	13.14	14.49	13.30	12.20	13.41	12.75	12.31	12.31	12.20	12.97	14.49

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

Table 3-5. OU-3 Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2019/2020 Annual GM and OM&M Report

Well ID	Date of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-09S	10/7/2020	21.93	8.19	13.74	
BBMW-09I	10/7/2020	22.01	8.12	13.89	
BBMW-09D	NM	22.43	NM	NC	Destroyed
BBMW-28S	10/7/2020	16.43	3.10	13.33	
BBMW-28I	10/7/2020	16.43	3.45	12.98	
BBMW-29	10/7/2020	15.82	4.44	11.38	
BBMW-30S	10/6/2020	16.02	2.77	13.25	
BBMW-30I	10/6/2020	15.69	2.90	12.79	
BBMW-30D	10/6/2020	16.53	3.46	13.07	
BBMW-31S	10/6/2020	13.49	2.90	10.59	
BBMW-31I	10/6/2020	13.33	3.01	10.32	
BBMW-31D	10/6/2020	13.37	3.02	10.35	
BBMW-32S	10/6/2020	14.44	2.78	11.66	
BBMW-32I	10/6/2020	15.50	2.82	12.68	
BBMW-32D	10/6/2020	14.54	2.91	11.63	
BBMW-33	10/7/2020	16.58	3.98	12.60	
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	10/7/2020	19.30	4.11	15.19	
MW-04	10/7/2020	19.16	4.69	14.47	
MW-29S	10/7/2020	18.34	3.49	14.85	
MW-29D	10/7/2020	18.44	3.56	14.88	
MW-30WR	10/6/2020	14.83	1.71	13.12	
MW-32W/WR	10/6/2020	14.65	2.09	12.56	
MW-34S	10/5/2020	15.69	2.81	12.88	
MW-34I	10/5/2020	15.73	2.99	12.74	
MW-34D	10/5/2020	15.58	2.77	12.81	
MW-45W	10/6/2020	15.20	2.31	12.89	
MW-46W-R	10/6/2020	15.40	2.61	12.79	
MW-64	10/6/2020	16.03	2.48	13.55	
MW-65	NM	15.62	NM	NC	No access
MW-73	10/6/2020	15.75	2.30	13.45	
MW-73I	10/6/2020	16.32	2.77	13.55	
MW-75	10/6/2020	16.09	2.68	13.41	
MW-75I	10/6/2020	16.07	2.68	13.39	
MW-76	NM	15.15	NM	NC	No access
MW-78	10/6/2020	15.04	1.51	13.53	
MW-79	10/6/2020	15.32	1.91	13.41	
MW-80	10/6/2020	15.60	2.11	13.49	
MW-81	10/6/2020	15.47	2.00	13.47	
MW-82	10/6/2020	15.01	1.77	13.24	
MW-83	NM	15.02	NM	NC	No access
MWBS-02S	10/6/2020	13.58	2.86	10.72	
MWBS-02I	10/6/2020	13.46	2.91	10.55	
MWBS-02D	10/6/2020	13.54	3.01	10.53	
OU3MW-01S	NM	15.56	NM	NC	could not locate
OU3MW-02S	10/6/2020	15.16	2.21	12.95	
OU3MW-02I	10/6/2020	15.14	2.31	12.83	
OU3MW-04S	10/6/2020	14.80	2.60	12.20	
OU3MW-04I	10/6/2020	14.76	2.88	11.88	
OU3MW-04D	10/6/2020	14.84	2.71	12.13	
OU3MW-05S	10/6/2020	15.96	3.47	12.49	
OU3MW-05I	10/6/2020	15.90	3.51	12.39	
OU3MW-08S	10/7/2020	21.28	2.71	NC	Stickup to flushmount/needs re-survey
OU3MW-08I	10/7/2020	21.42	4.45	NC	Stickup to flushmount/needs re-survey
OU3MW-09S	10/7/2020	21.31	4.11	NC	Stickup to flushmount/needs re-survey
OU3MW-09I	10/7/2020	21.41	4.38	NC	Stickup to flushmount/needs re-survey
OU3MW-09I2	10/7/2020	21.24	4.38	NC	Stickup to flushmount/needs re-survey
OU3MW-10S	10/7/2020	21.70	4.75	NC	Stickup to flushmount/needs re-survey
OU3MW-10I	10/7/2020	21.70	4.91	NC	Stickup to flushmount/needs re-survey
OU3MW-11S	NM	21.64	NM	NC	Could not access
OU3MW-11I	NM	21.62	NM	NC	Could not access

Table 3-5. OU-3 Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2019/2020 Annual GM and OM&M Report

Well ID	Date of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OU3MW-12S	10/7/2020	22.05	4.91	NC	Stickup to flushmount/needs re-survey
OU3MW-12I	10/7/2020	22.07	3.81	NC	Stickup to flushmount/needs re-survey
OU3MW-13S	10/6/2020	15.51	1.48	14.03	
OU3MW-14S	10/6/2020	15.91	2.23	13.68	
OU3MW-15S	10/6/2020	15.38	2.91	12.47	
OU3MW-16S	10/7/2020	21.42	4.19	17.23	
PDMW-01	10/7/2020	19.29	3.05	16.24	
SV-02	10/6/2020	17.37	3.81	13.56	
SV-02I	10/6/2020	17.63	4.11	13.52	
SV-02I2	10/6/2020	17.49	4.00	13.49	
BBSW-13*	10/7/2020	13.07	2.29	10.78	Cooper Lane near unnamed pond

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
2019/2020 Annual GM and OM&M Report

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	Nov-02	Mar-03	Jul-03	Sep-03	Oct-03	Jan-04	Apr-04	Aug-04	Oct-04	Feb-05
BBMW-09S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	14.17	NC	NC	NC	14.84	12.61	14.85	15.27	15.28	14.22	NC	14.65	15.41	14.05	14.48	15.17
BBMW-09I	30.0 - 40.0	NC	NC	NC	NC	NC	NC	14.17	NC	NC	NC	14.82	12.60	14.84	15.27	15.25	14.22	NC	14.64	15.39	14.04	14.47	15.16
BBMW-09D	62.0 - 72.0	NC	NC	NC	NC	NC	NC	14.08	NC	NC	NC	14.78	12.61	14.81	15.25	15.28	14.22	NC	14.63	16.37	14.04	14.48	15.16
BBMW-28S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.31
BBMW-28I	10.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.28
BBMW-29	2.0 - 9.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.41
BBMW-30S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	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	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	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	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	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	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	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	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	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	NC	11.03	11.03	10.23	NC	10.69	11.86	10.08	10.35	10.94
GM-02AI	35.24 - 50.24	10.12	10.21	NC	NC	NC	NC	10.46	NC	NC	NC	10.35	NC	NC	NC	NC	10.24	NC	10.74	11.87	10.10	10.37	10.96
GM-02AD	59.8 - 74.8	10.38	10.42	NC	NC	NC	NC	10.63	NC	NC	NC	10.44	NC	NC	11.32	11.22	10.42	NC	10.97	12.03	10.25	10.59	11.17
MW-01S	4.0 - 14.0	NC	NC	14.88	NC	NC	NC	NC	15.39	NC	NC	NC	NC	13.64	15.89	16.59	16.54	15.93	NC	15.93	17.36	15.33	15.77
MW-01D	35.0 - 45.0	NC	NC	14.74	NC	NC	NC	NC	15.57	NC	NC	NC	NC	13.66	15.88	16.61	16.58	15.64	NC	15.95	17.38	15.37	15.80
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	NC	NC	NC	NC	14.79	14.93	16.47	NC	14.58	15.29
MW-02I/R	22.5 - 23.5	NC	NC	NC	15.10	16.74	NC	15.46	NC	NC	NC	20.02	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.11	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	15.32	15.98	16.00	15.02	NC	15.31	16.77	14.67	15.18	15.85
MW-04	5.1 - 15.1	NC	NC	NC	14.09	NC	15.38	14.59	NC	NC	NC	14.85	12.98	16.28	19.16	15.84	14.89	NC	NC	16.61	14.57	15.19	15.55
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	15.04	15.50	15.40	14.35	NC	14.79	16.47	NC	14.14	14.96
MW-16I	14.0 - 19.0	NC	NC	NC	NC	15.66	15.11	14.22	NC	NC	NC	14.92	12.7	14.89	15.32	15.29	14.28	NC	14.71	16.08	NC	14.64	15.25
MW-29S	5.0 - 10.0	NC	NC	NC	NC	NC	NC	15.12	NC	NC	NC	NC	13.55	15.69	16.30	16.24	15.35	NC	15.64	17.84	15.09	15.48	16.17
MW-29D	14.0 - 19.0	NC	NC	NC	NC	16.52	NC	15.11	NC	NC	NC	NC	13.53	15.68	16.34	NC	15.34	NC	15.65	17.03	15.08	15.48	16.15
MW-30W	2.0 - 10.0	NC	NC	15.20	14.57	15.89	15.37	NC	NC	NC	NC	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	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	15.30
MW-32W/WR	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.57
MW-34S	2.0 - 10.0	NC	NC	13.42	12.76	14.2	13.64	NC	NC	NC	NC	NC	NC	NC	14.13	14.07	13.01	NC	13.52	14.8	12.97	13.28	14.00
MW-34I	18.5 - 19.5	NC	NC	NC	12.77	14.17	13.66	13.12	NC	NC	NC	13.05	NC	NC	14.08	14.02	12.98	NC	13.48	14.76	12.92	13.25	13.97
MW-34D	27.5 - 28.5	NC	NC	NC	12.78	14.64	13.68	13.12	NC	NC	NC	13.07	NC	NC	14.07	14.03	12.98	NC	13.47	14.8	12.93	13.26	13.97
MW-45W	2.0 - 10.0	NC	NC	13.55	12.85	14.34	13.82	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.32	NC	13.71	14.87	13.20	13.40	14.13
MW-46W-R	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	NC	NC	NC	13.95	NC	14.87	15.77	13.85	14.21	NC
MW-65	11.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	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	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	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	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	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	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	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	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	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	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	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
2019/2020 Annual GM and OM&M Report

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	Nov-02	Mar-03	Jul-03	Sep-03	Oct-03	Jan-04	Apr-04	Aug-04	Oct-04	Feb-05
MWBS-02S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	10.77	10.97	11.58
MWBS-02I	14.5 - 15.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	10.69	10.91	11.57
MWBS-02D	24.5 - 25.5	NC	NC	NC	10.39	11.57	11.32	11.00	NC	NC	NC	11.30	NC	NC	NC	NC	NC	NC	NC	NC	10.69	10.95	11.45
OU3MW-01S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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
2019/2020 Annual GM and OM&M Report

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level																					
		May-05	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	Apr-08	Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10	Jul-10
BBMW-09S	5.0 - 15.0	14.99	13.79	15.55	15.43	14.93	14.63	15.09	15.02	15.44	14.67	13.75	14.72	15.29	14.12	14.82	14.86	15.22	15.06	14.21	15.29	16.78	14.13
BBMW-09I	30.0 - 40.0	14.97	13.80	15.54	15.42	14.92	14.63	15.10	15.02	15.44	14.69	13.76	14.72	15.30	14.11	14.81	14.90	15.23	15.09	14.21	15.30	16.77	14.26
BBMW-09D	62.0 - 72.0	14.99	13.80	15.52	15.42	14.93	14.63	15.11	15.01	15.45	14.65	13.74	14.72	15.30	14.12	14.83	14.88	15.24	15.06	14.21	15.28	16.76	14.24
BBMW-28S	2.0 - 12.0	14.05	12.96	14.45	14.35	13.97	13.65	14.11	14.07	14.36	13.72	12.89	13.74	14.28	13.23	13.94	13.92	14.30	14.06	13.25	14.30	15.33	13.26
BBMW-28I	10.0 - 20.0	14.04	12.94	14.45	14.34	13.96	13.63	14.09	14.06	14.34	13.71	12.88	13.73	14.29	13.22	13.94	13.90	14.29	14.05	13.24	14.38	15.32	13.24
BBMW-29	2.0 - 9.0	12.22	11.28	12.53	12.46	12.17	11.80	12.28	12.25	12.53	11.87	11.30	12.03	12.45	11.54	12.21	12.16	12.48	12.27	11.48	12.52	13.51	11.44
BBMW-30S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.68	12.93	13.71	14.22	13.21	13.90	13.87	14.27	13.99	13.24	14.22	15.10	13.25
BBMW-30I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.70	12.92	13.67	14.24	13.21	13.91	13.86	14.25	13.97	13.21	14.22	15.13	13.24
BBMW-30D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.67	12.91	13.64	14.20	13.16	13.88	13.83	14.22	13.92	13.19	14.19	15.11	13.22
BBMW-31S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	10.76	10.51	11.13	11.40	10.46	11.23	11.20	11.48	11.21	10.43	11.46	12.27	10.40
BBMW-31I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	10.77	10.52	11.12	11.40	10.45	11.22	11.18	11.38	11.20	10.42	11.45	12.20	10.38
BBMW-31D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	10.77	10.52	11.12	11.42	10.46	11.23	11.19	11.38	11.21	10.44	11.45	12.21	10.39
BBMW-32S	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.15	11.58	12.29	12.72	11.75	12.45	12.43	12.74	12.49	11.76	12.76	13.62	11.75
BBMW-32I	14.0 -19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.16	12.59	13.30	13.72	12.74	13.45	13.42	13.74	13.50	12.77	13.75	14.66	12.74
BBMW-32D	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.09	11.56	12.26	12.69	11.71	12.42	12.39	12.71	12.47	11.73	12.73	13.63	11.71
BBMW-33	7.0 - 12.0	NC	NC	NC	NC	NC	13.22	13.72	13.59	13.93	13.24	12.56	13.39	13.85	12.78	13.53	13.48	13.89	13.65	12.84	13.86	14.93	12.81
GM-02AS	8.91 - 23.91	10.90	9.94	11.24	11.09	10.83	10.38	10.93	10.94	11.31	10.46	10.10	10.73	11.03	10.06	10.85	10.84	10.93	10.86	10.04	11.14	12.21	9.97
GM-02AI	35.24 - 50.24	10.92	9.96	11.26	11.11	10.85	10.40	10.96	10.94	11.33	10.48	10.12	10.76	11.04	10.07	10.88	10.85	10.95	10.88	10.05	11.16	12.22	10.00
GM-02AD	59.8 - 74.8	11.11	10.06	11.47	11.36	11.05	10.52	11.16	11.20	11.51	10.61	10.26	11.74	11.27	10.18	11.04	11.05	11.36	11.04	10.25	11.37	12.44	10.13
MW-01S	4.0 - 14.0	16.47	16.38	15.08	16.95	16.77	16.28	16.01	16.39	16.37	16.79	16.01	15.93	16.59	15.38	16.08	NC	16.53	16.42	15.49	16.62	17.99	15.61
MW-01D	35.0 - 45.0	16.46	16.40	15.21	16.87	16.79	16.30	16.07	16.40	16.38	16.80	16.00	15.95	16.61	15.41	16.11	16.27	16.55	16.44	15.52	16.65	18.03	15.65
MW-02S/SR	2.0 -12.0	15.09	NC	NC	NC	NC	14.77	15.23	15.13	15.58	14.86	13.87	14.87	15.49	14.23	14.97	14.98	15.32	NC	NC	NC	NC	NC
MW-02I/R	22.5 - 23.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.83	14.56	15.29	14.18	14.84	14.89	15.24	NC	NC	NC	NC	NC
MW-03	4.94 - 14.94	15.73	14.49	16.28	16.15	15.65	15.38	15.79	15.74	16.16	15.38	14.43	15.39	16.02	14.81	15.49	15.62	15.97	15.81	14.91	16.02	17.58	15.01
MW-04	5.1 - 15.1	15.55	14.34	16.13	15.90	15.45	15.19	15.56	15.52	15.73	15.14	14.20	15.07	NC	14.58	15.27	15.28	NC	15.50	14.82	15.73	NC	14.71
MW-16S/SR	2.0 - 10.0	15.15	13.52	15.70	15.6	15.01	14.75	15.29	15.11	15.92	15.03	13.89	14.81	16.14	14.22	14.94	15.00	15.97	NC	NC	NC	NC	NC
MW-16I	14.0 - 19.0	15.13	NC	15.56	15.46	14.98	14.7	15.15	15.07	15.66	14.77	13.84	14.93	15.35	14.22	14.86	14.94	15.28	NC	NC	NC	NC	NC
MW-29S	5.0 - 10.0	16.02	14.84	16.53	16.39	15.91	15.69	16.07	16.00	16.41	15.67	NC	15.66	16.23	15.10	15.76	15.88	16.18	16.00	15.14	16.24	17.43	15.29
MW-29D	14.0 - 19.0	16.01	14.83	16.52	16.38	15.91	15.68	16.06	16.00	16.40	15.66	NC	15.63	16.22	15.08	15.75	15.88	16.16	16.00	15.17	16.25	17.44	15.29
MW-30W	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-30WR	2.0 - 10.0	15.09	14.17	15.40	15.34	15.03	14.69	15.13	15.10	15.40	14.74	11.83	12.58	13.04	12.07	12.8	12.75	13.14	12.83	12.04	13.10	14.15	12.05
MW-32W/WR	2.0 - 10.0	13.36	12.36	13.72	13.6	13.26	12.96	13.41	13.32	13.64	12.99	12.30	13.09	13.56	12.64	13.28	13.21	NC	13.36	12.58	13.61	NC	12.56
MW-34S	2.0 - 10.0	13.73	12.73	14.12	14.03	13.59	13.35	13.81	13.75	14.07	13.38	NC	13.48	14.00	12.94	13.68	13.64	14.05	13.82	13.00	14.03	15.09	12.98
MW-34I	18.5 - 19.5	13.72	12.74	14.12	14.01	13.65	13.35	13.80	13.75	14.07	13.38	NC	13.48	13.98	12.94	13.66	13.63	14.02	13.80	12.98	13.98	15.06	12.95
MW-34D	27.5 - 28.5	13.72	12.75	14.13	14.01	13.66	13.35	14.30	13.76	14.08	13.38	NC	13.38	13.98	12.94	13.67	13.67	14.02	13.80	12.99	14.00	15.07	12.95
MW-45W	2.0 - 10.0	13.97	12.85	14.26	14.15	13.78	13.49	13.97	13.88	14.22	13.51	12.79	13.56	NC	NC	13.79	NC	14.16	14.21	13.18	NC	15.16	13.18
MW-46W-R	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-64	19.0 - 24.0	14.73	13.58	15.09	15.07	14.61	14.24	14.75	14.72	14.99	14.35	13.49	14.33	14.95	13.84	14.52	14.58	14.90	14.65	13.87	14.90	15.75	13.96
MW-65	11.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.88	13.75	14.46	14.51	14.87	14.60	13.80	14.82	NC	13.80
MW-73	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	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	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	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	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	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	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	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	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	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	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
2019/2020 Annual GM and OM&M Report

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level																					
		May-05	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	Apr-08	Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10	Jul-10
MWBS-02S	5.0 - 15.0	11.44	10.59	11.70	11.6	11.38	10.93	11.46	11.47	11.65	11.06	10.67	NC	NC	10.61	11.43	11.38	NC	11.70	10.43	11.65	NC	10.18
MWBS-02I	14.5 - 15.5	11.42	10.55	11.66	11.6	11.39	10.94	11.45	11.45	11.58	10.99	10.63	NC	NC	10.63	11.41	11.34	NC	11.35	10.57	11.66	NC	10.54
MWBS-02D	24.5 - 25.5	11.44	10.61	11.73	11.6	11.39	10.88	11.47	11.47	11.28	11.05	10.67	NC	NC	10.65	11.42	11.22	NC	11.44	10.62	11.49	NC	10.50
OU3MW-01S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.35	15.28	13.43
OU3MW-02S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.10	14.10	15.05	13.10
OU3MW-02I	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.09	14.03	15.05	13.01
OU3MW-04S	1.5 - 11.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.34	13.39	14.42	12.31
OU3MW-04I	16.0 - 21.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.33	13.37	14.39	12.31
OU3MW-04D	26.0 - 31.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.31	13.36	14.38	12.26
OU3MW-05S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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
2019/2020 Annual GM and OM&M Report

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	Jun-18	Apr-19	Oct-20	Minimum	Average	Maximum
BBMW-09S	5.0 - 15.0	13.68	14.44	14.79	14.35	14.70	14.23	14.26	NC	15.81	15.02	13.73	15.05	14.32	13.74	13.74	12.61	14.68	16.78
BBMW-09I	30.0 - 40.0	13.79	14.54	14.90	14.45	14.81	14.78	14.36	14.52	15.83	15.10	13.84	15.16	14.45	13.89	13.89	12.60	14.72	16.77
BBMW-09D	62.0 - 72.0	13.74	14.54	14.89	14.46	14.80	15.14	14.38	14.93	16.20	15.11	13.84	15.12	14.45	NC	NC	12.61	14.79	16.76
BBMW-28S	2.0 - 12.0	12.96	13.69	13.97	13.54	13.86	13.81	13.51	13.93	14.98	14.15	13.04	14.48	NC	13.33	13.33	12.89	13.87	15.33
BBMW-28I	10.0 - 20.0	12.93	13.66	13.96	13.52	14.13	14.06	13.48	13.86	14.88	13.85	12.97	14.43	13.54	12.98	12.98	12.88	13.83	15.32
BBMW-29	2.0 - 9.0	11.35	12.02	12.23	11.83	12.11	13.09	11.85	12.20	13.02	12.47	11.45	12.69	12.00	11.38	11.38	11.28	12.11	13.51
BBMW-30S	2.0 - 10.0	12.96	13.66	13.72	13.51	14.02	13.87	13.49	13.85	14.27	14.12	13.13	14.37	13.67	13.25	13.25	12.93	13.74	15.10
BBMW-30I	14.0 -19.0	12.96	13.66	13.65	13.32	13.48	13.40	13.48	13.67	13.66	14.14	13.02	14.40	13.56	12.79	12.79	12.79	13.63	15.13
BBMW-30D	30.0 - 35.0	12.93	13.63	14.13	13.55	14.24	14.14	13.47	13.83	14.55	13.13	13.00	14.34	13.56	13.07	13.07	12.91	13.71	15.11
BBMW-31S	2.0 - 10.0	10.38	11.04	11.09	10.96	11.08	11.13	11.02	11.19	11.79	11.44	10.60	11.61	10.91	10.59	10.59	10.38	11.05	12.27
BBMW-31I	14.0 -19.0	10.37	11.02	10.95	10.88	11.13	11.11	10.90	10.97	11.83	11.43	10.59	11.59	10.88	10.32	10.32	10.32	11.00	12.20
BBMW-31D	30.0 - 35.0	10.38	11.03	11.02	10.84	11.00	10.97	10.80	11.10	11.67	11.39	10.57	11.60	10.89	10.35	10.35	10.35	10.99	12.21
BBMW-32S	2.0 - 10.0	11.61	12.25	12.24	12.07	11.76	12.34	12.10	12.33	13.04	12.70	11.70	12.89	12.12	11.66	11.66	11.58	12.25	13.62
BBMW-32I	14.0 -19.0	12.60	13.21	13.20	13.10	13.35	13.38	13.11	13.42	14.05	13.68	12.67	13.86	13.08	12.68	12.68	12.59	13.27	14.66
BBMW-32D	30.0 - 35.0	11.56	12.19	12.22	12.05	12.33	12.34	12.18	12.47	13.15	12.69	11.67	12.85	12.06	11.63	11.63	11.56	12.29	13.63
BBMW-33	7.0 - 12.0	13.60	NC	13.69	13.35	13.38	14.26	13.10	13.41	12.68	13.70	12.63	14.05	13.16	12.60	12.60	12.56	13.40	14.93
GM-02AS	8.91 - 23.91	9.96	10.61	10.83	10.46	10.99	10.98	10.51	10.87	11.38	11.15	NC	NC	NC	NC	NC	9.94	10.72	12.21
GM-02AI	35.24 - 50.24	9.97	10.64	10.86	10.48	10.73	10.76	10.52	10.89	11.50	11.14	NC	NC	NC	NC	NC	9.96	10.72	12.22
GM-02AD	59.8 - 74.8	10.16	10.79	11.02	10.60	10.84	10.73	10.72	11.06	11.54	11.33	NC	NC	NC	NC	NC	10.06	10.93	12.44
MW-01S	4.0 - 14.0	14.98	15.70	16.23	15.75	16.07	16.04	15.66	16.16	16.74	16.45	15.06	16.40	NC	NC	NC	13.64	16.06	17.99
MW-01D	35.0 - 45.0	14.99	15.75	16.25	15.78	16.11	16.13	15.69	16.16	16.78	16.46	14.83	16.40	NC	NC	NC	13.66	16.08	18.03
MW-02S/SR	2.0 -12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.02	14.96	16.47
MW-02I/R	22.5 - 23.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.83	15.36	20.02
MW-03	4.94 - 14.94	14.47	15.23	15.61	15.03	15.44	15.46	15.05	15.52	16.21	15.85	14.52	NC	15.15	15.19	15.19	13.18	15.40	17.58
MW-04	5.1 - 15.1	14.18	14.95	15.31	15.04	15.19	15.17	14.78	15.17	15.85	15.54	14.56	15.82	15.12	14.47	14.47	12.98	15.22	19.16
MW-16S/SR	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.35	14.83	16.47
MW-16I	14.0 - 19.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.70	14.93	16.08
MW-29S	5.0 - 10.0	14.77	15.49	15.84	15.45	15.50	15.76	15.40	15.82	17.14	16.09	14.84	16.11	15.49	14.85	14.85	13.55	15.75	17.84
MW-29D	14.0 - 19.0	14.77	15.47	15.89	15.44	15.80	15.82	15.36	15.86	16.84	16.44	14.83	16.28	15.74	14.88	14.88	13.53	15.76	17.44
MW-30W	2.0 - 10.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.57	15.26	15.89
MW-30WR	2.0 - 10.0	11.95	12.58	12.81	12.45	12.70	12.12	12.44	12.73	13.43	13.04	11.96	13.30	12.44	13.12	13.12	11.83	13.37	15.40
MW-32W/WR	2.0 - 10.0	NC	NC	13.29	12.95	13.22	11.91	12.91	13.26	14.05	13.55	12.60	13.81	12.94	12.56	12.56	11.91	13.12	14.05
MW-34S	2.0 - 10.0	12.72	13.46	13.71	13.31	13.69	13.62	13.28	13.66	14.59	13.98	13.10	14.64	13.53	12.88	12.88	12.72	13.63	15.09
MW-34I	18.5 - 19.5	12.95	13.42	13.71	13.30	13.58	13.65	13.25	13.65	14.66	13.93	12.79	14.48	13.28	12.74	12.74	12.74	13.58	15.06
MW-34D	27.5 - 28.5	12.68	13.43	13.73	13.27	13.49	13.58	13.26	13.64	14.49	13.97	12.81	14.60	13.32	12.81	12.81	12.68	13.60	15.07
MW-45W	2.0 - 10.0	12.98	13.60	13.37	13.27	13.62	13.42	13.50	13.66	14.20	14.01	12.84	14.30	13.43	12.89	12.89	12.79	13.66	15.16
MW-46W-R	2.0 - 10.0	NC	NC	NC	13.29	13.60	13.47	13.26	13.43	14.40	13.95	12.94	14.21	13.40	12.79	12.79	12.79	13.46	14.40
MW-64	19.0 - 24.0	13.50	14.21	14.54	14.11	14.44	14.39	14.06	14.46	15.33	14.74	13.58	14.77	14.13	13.55	13.55	13.49	14.45	15.77
MW-65	11.0 - 16.0	13.44	14.18	14.52	14.05	13.88	14.38	14.06	14.48	15.52	14.75	NC	NC	NC	NC	NC	13.44	14.36	15.52
MW-73	2.0 - 12.0	13.41	14.22	14.54	14.04	14.35	14.42	14.03	14.28	15.15	15.69	13.47	14.67	14.09	13.45	13.45	13.41	14.22	15.69
MW-73I	2.0 - 12.0	NC	NC	NC	NC	14.38	14.33	14.01	14.32	14.57	15.13	13.54	14.68	14.09	13.55	13.55	13.54	14.20	15.13
MW-75	2.0 - 12.0	13.24	14.47	14.69	13.70	14.43	14.39	14.01	14.96	15.29	14.75	13.55	14.74	14.15	13.41	13.41	13.24	14.21	15.29
MW-75I	22.0 - 27.0	NC	NC	NC	NC	14.35	14.28	13.95	15.07	15.37	14.58	13.42	14.62	14.00	13.39	13.39	13.39	14.22	15.37
MW-76	2.0 - 12.0	NC	NC	NC	NC	NC	NC	13.92	14.37	14.85	14.73	13.44	NC	NC	NC	NC	13.44	14.26	14.85
MW-78	5.0 - 20.0	NC	14.23	14.60	14.13	14.44	14.42	14.08	14.54	14.94	15.02	13.59	14.84	14.13	13.53	13.53	13.53	14.29	15.02
MW-79	5.0 - 20.0	NC	14.20	14.54	14.09	14.43	14.39	14.04	14.46	14.92	14.72	13.51	15.27	14.09	13.41	13.41	13.41	14.25	15.27
MW-80	5.0 - 20.0	13.48	14.22	14.65	14.09	14.37	14.40	14.09	14.43	15.50	14.70	13.49	15.30	14.08	13.49	13.49	13.48	14.25	15.50
MW-81	5.0 - 20.0	NC	14.21	14.55	14.06	13.47	14.36	14.03	14.43	15.17	14.82	13.50	15.37	14.01	13.47	13.47	13.47	14.21	15.37
MW-82	5.0 - 20.0	NC	14.09	14.63	14.07	14.51	14.40	14.07	14.40	14.81	14.61	13.09	14.71	13.80	13.24	13.24	13.09	14.12	14.81
MW-83	5.0 - 20.0	NC	NC	NC	14.09	14.45	14.33	14.07	14.58	14.72	14.84	NC	NC	NC	NC	NC	14.07	14.44	14.84

Table 3-6. OU-3 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2019/2020 Annual GM and OM&M Report

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	Jun-18	Apr-19	Oct-20	Minimum	Average	Maximum
MWBS-02S	5.0 - 15.0	NC	11.17	11.32	11.04	11.45	11.41	10.91	11.27	12.28	11.68	10.74	11.99	NC	10.72	10.72	10.18	11.22	12.28
MWBS-02I	14.5 - 15.5	NC	11.21	11.39	11.01	11.29	11.34	11.15	11.68	11.46	11.65	10.74	11.89	11.12	10.55	10.55	10.54	11.18	11.89
MWBS-02D	24.5 - 25.5	NC	11.19	11.35	11.04	11.20	11.41	10.83	11.64	12.14	11.56	10.74	11.89	11.13	10.53	10.53	10.39	11.17	12.14
OU3MW-01S	3.0 - 13.0	13.14	13.78	14.11	13.69	14.49	14.04	NC	NC	14.06	14.34	13.2	14.53	13.67	NC	NC	13.14	14.01	15.28
OU3MW-02S	3.0 - 13.0	12.88	13.55	13.57	13.13	13.91	13.83	13.44	13.76	14.56	14.04	12.93	14.29	13.38	12.95	12.95	12.88	13.61	15.05
OU3MW-02I	15.0 - 20.0	12.81	13.47	13.54	13.07	13.34	13.40	13.33	13.67	14.64	13.96	12.83	14.27	13.32	12.83	12.83	12.81	13.50	15.05
OU3MW-04S	1.5 - 11.5	12.17	12.81	13.09	12.79	12.96	12.93	12.65	13.00	13.90	13.35	12.21	14.18	12.83	12.20	12.20	12.17	12.93	14.42
OU3MW-04I	16.0 - 21.0	12.15	12.79	13.06	12.73	12.86	12.92	12.63	12.97	13.76	13.27	12.20	14.71	12.59	11.88	11.88	11.88	12.88	14.71
OU3MW-04D	26.0 - 31.0	12.09	12.78	13.04	12.70	12.89	12.93	12.61	12.97	13.64	13.24	12.19	13.89	12.63	12.13	12.13	12.09	12.85	14.38
OU3MW-05S	2.0 - 12.0	NC	NC	NC	NC	NC	12.03	12.71	13.09	13.82	13.37	12.46	13.87	12.75	12.49	12.49	12.03	12.91	13.87
OU3MW-05I	15.0 - 20.0	NC	NC	NC	NC	NC	11.95	12.67	13.08	13.90	13.36	12.24	13.82	12.72	12.39	12.39	11.95	12.85	13.90
OU3MW-08S	2.0 - 12.0	NC	14.59	14.89	14.46	14.68	14.78	14.42	14.80	15.67	15.08	NC	15.25	14.46	NC	NC	14.42	14.83	15.67
OU3MW-08I	25.0 - 30.0	NC	14.58	14.89	14.48	14.97	14.78	14.44	14.80	15.69	15.10	13.94	15.14	14.49	NC	NC	13.94	14.78	15.69
OU3MW-09S	2.0 - 12.0	NC	14.64	15.02	14.62	15.00	15.01	14.58	14.91	16.10	15.33	14.10	15.33	14.68	NC	NC	14.10	14.94	16.10
OU3MW-09I	25.0 - 30.0	NC	14.58	14.94	14.53	14.90	14.89	14.47	14.99	15.90	15.15	13.96	15.09	14.52	NC	NC	13.96	14.83	15.90
OU3MW-09I2	35.0 - 40.0	NC	NC	NC	NC	14.87	14.85	14.43	14.72	15.86	15.15	13.91	15.16	14.52	NC	NC	13.91	14.83	15.86
OU3MW-10S	2.0 - 12.0	NC	14.62	15.02	14.58	14.99	14.98	14.56	14.82	15.99	15.32	13.83	15.10	14.45	NC	NC	13.83	14.86	15.99
OU3MW-10I	25.0 - 30.0	NC	14.59	14.97	14.55	14.93	14.89	14.49	14.90	15.95	15.20	13.98	15.22	14.57	NC	NC	13.98	14.85	15.95
OU3MW-11S	2.0 - 12.0	NC	14.54	14.94	14.46	14.83	14.81	14.40	14.84	16.03	15.14	14.18	15.19	14.46	NC	NC	14.18	14.82	16.03
OU3MW-11I	25.0 - 30.0	NC	14.54	14.91	14.46	14.81	14.75	14.39	14.77	15.89	15.11	13.85	15.14	14.46	NC	NC	13.85	14.76	15.89
OU3MW-12S	2.0 - 12.0	NC	14.83	15.19	14.76	15.11	15.09	14.66	15.05	16.67	15.41	14.67	18.45	17.79	NC	NC	14.66	15.64	18.45
OU3MW-12I	25.0 - 30.0	NC	14.84	15.20	14.77	NC	17.82	17.47	14.73	16.66	15.14	14.18	18.48	17.85	NC	NC	14.18	16.10	18.48
OU3MW-13S	20. - 12.0	NC	NC	NC	NC	13.63	14.36	14.07	14.44	15.41	14.78	13.58	14.86	14.12	14.03	14.03	13.58	14.30	15.41
OU3MW-14S	2.0 - 12.0	NC	NC	NC	NC	NC	14.36	14.00	14.40	15.21	14.75	13.59	14.83	14.14	13.68	13.68	13.59	14.26	15.21
OU3MW-15S	2.0 - 12.0	NC	NC	NC	NC	14.38	14.34	14.01	14.59	15.08	14.73	13.56	14.73	14.37	12.47	12.47	12.47	14.07	15.08
OU3MW-16S	2.0 - 16.0	NC	NC	NC	NC	14.81	14.80	14.39	14.90	15.73	15.14	14.65	15.77	14.53	17.23	17.23	14.39	15.38	17.23
PDMW-01	5.0 - 20.0	NC	NC	NC	14.77	15.17	15.33	14.71	15.22	15.95	15.42	14.22	15.41	14.82	16.24	16.24	14.22	15.29	16.24
SV-02	2.0 - 12.0	NC	14.33	14.67	14.03	14.97	14.53	14.17	14.77	15.52	14.94	13.55	15.09	13.84	13.56	13.56	13.55	14.40	15.52
SV-02I	22.0 - 27.0	NC	NC	NC	NC	14.31	14.20	13.88	16.22	15.53	14.73	13.40	14.58	13.93	13.52	13.52	13.40	14.35	16.22
SV-02I2	35.0 - 40.0	NC	NC	NC	NC	14.26	14.21	13.90	15.86	15.34	14.42	13.44	14.61	14.22	13.49	13.49	13.44	14.29	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
2019/2020 Annual GM and OM&M Report

Well ID	Date of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
WCMW-02S	10/7/2020	15.34	1.77	13.57	
WCMW-02I	10/7/2020	15.23	2.54	12.69	
WCMW-02D	10/7/2020	15.15	2.67	12.48	
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	10/7/2020	18.46	4.44	14.02	
WCMW-05I	10/7/2020	18.27	4.87	13.40	
WCMW-05I2	10/7/2020	18.39	4.93	13.46	
WCMW-06S	10/7/2020	17.13	3.96	13.17	
WCMW-06I	10/7/2020	17.30	4.21	13.09	
WCMW-06I2	10/7/2020	17.43	4.17	13.26	
WCMW-07S	10/7/2020	NS	3.46	NC	
WCMW-07I	10/7/2020	NS	3.35	NC	
WCMW-07I2	10/7/2020	NS	3.64	NC	
WCMW-08S	10/7/2020	17.64	3.74	13.90	
WCMW-08I	10/7/2020	17.72	3.81	13.91	
WCMW-08I2	10/7/2020	17.76	3.87	13.89	
WCMW-09S	NM	18.02	NM	NC	Abandoned
WCMW-10S	10/7/2020	17.44	3.94	13.50	
WCMW-10D	10/7/2020	17.36	3.86	13.50	
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	10/7/2020	16.88	4.06	12.82	
WCMW-12I	10/7/2020	17.19	4.48	12.71	
WCMW-12D	10/7/2020	17.15	4.43	12.72	
WCMW-13S	10/7/2020	15.11	2.43	12.68	
WCMW-13I	10/7/2020	15.41	2.73	12.68	
WCMW-13D	10/7/2020	15.38	2.69	12.69	
WCMW-14S	10/7/2020	16.97	3.89	13.08	
WCMW-14I	10/7/2020	16.98	3.92	13.06	
WCMW-14I2	10/7/2020	17.01	3.94	13.07	
WCMW-14D	10/7/2020	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*	10/7/2020	15.05	2.61	12.44	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
2019/2020 Annual GM and OM&M Report

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level												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	Aug-05	Nov-05	Feb-06	May-06	Jul/Aug-06	Nov-06	Jan-07	May-07	Jul/Aug-07	Oct/Nov-07
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	12.25	13.69	13.53	13.22	12.95	13.39	13.35	13.60	12.95	12.35
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	12.28	13.75	13.61	13.28	12.98	13.43	13.41	13.67	12.98	12.34
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	12.34	13.84	13.64	13.32	12.98	13.47	13.44	13.70	13.02	12.39
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	13.10	14.73	14.59	14.23	13.90	14.36	14.33	14.58	13.83	13.18
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	13.10	14.73	14.59	14.23	13.90	14.36	14.35	14.59	13.84	13.20
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	13.21	14.83	14.64	14.32	13.99	14.45	14.43	14.70	13.94	13.29
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	13.18	14.85	14.70	14.31	13.99	14.48	14.43	14.67	13.92	13.25
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	13.16	14.81	14.65	14.29	13.97	14.42	14.40	14.66	13.92	13.27
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	13.17	14.84	14.68	14.33	13.98	14.46	14.44	14.70	13.95	13.31
WCMW-06S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.03
WCMW-06I	19.55 - 24.55	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.02
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	12.98	14.62	NC	14.12	NC	NC	14.25	14.45	13.69	13.07
WCMW-07S	2.76 - 12.76	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	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	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	13.73	15.43	15.26	14.92	14.58	14.99	15.01	15.29	14.52	13.82
WCMW-08I	19.2 - 24.2	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.60	15.03	15.03	15.28	14.51	13.85
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	13.77	15.44	15.27	14.92	14.59	15.02	15.02	15.28	14.52	13.82
WCMW-09S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	15.05	14.71	14.39	14.81	14.82	15.08	14.32	13.64
WCMW-10S	15.0 - 20.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.57	17.44	NC	13.47
WCMW-10D	40.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	14.82	14.46	14.14	NC	14.57	17.36	NC	13.42
WCMW-11S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	15.84	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	NC	NC	15.84	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	NC	NC	15.81	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-22S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	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	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	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	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	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	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	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	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	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	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
2019/2020 Annual GM and OM&M Report

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level													Groundwater Elevations in Feet Ab							
		Jan-08	May-08	Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10	Jul-10	Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Apr-15	Jun-16
WCMW-02S	3.0 - 13.0	13.07	13.54	12.59	13.24	13.31	13.63	13.53	12.88	13.63	14.50	12.73	12.57	13.09	13.14	12.87	12.71	13.32	15.34	13.04	13.44	13.30	12.33
WCMW-02I	34.5 - 44.5	13.11	13.62	12.64	13.25	13.25	13.60	13.59	12.92	13.71	14.56	12.75	12.59	13.18	13.16	12.82	12.64	13.24	15.23	13.07	12.98	13.51	12.38
WCMW-02D	62.0 - 72.0	13.16	13.65	12.93	13.30	13.38	13.56	13.62	12.95	13.70	14.64	12.78	12.62	13.20	13.26	12.86	12.85	13.40	15.15	13.28	12.79	13.27	12.22
WCMW-04S	1.5 - 11.5	13.97	14.57	13.49	14.17	14.26	14.58	14.56	13.82	14.66	15.67	13.86	13.35	13.97	13.98	13.89	14.71	14.16	19.27	14.08	14.07	14.33	13.33
WCMW-04I	19.0 - 24.0	14.02	14.59	13.64	14.16	14.30	14.55	14.55	13.79	14.63	15.63	13.62	13.33	13.91	13.92	13.80	14.60	13.99	19.21	14.00	13.86	14.29	13.18
WCMW-04I2	29.85 - 34.85	14.12	14.67	13.45	14.26	14.39	14.62	14.63	13.95	14.66	15.60	13.70	13.37	13.87	13.89	13.79	14.20	14.07	19.16	14.11	13.91	14.40	13.26
WCMW-05S	1.4 - 11.4	14.14	14.64	13.59	14.32	14.40	14.66	14.62	13.97	14.66	15.57	13.91	13.43	14.01	14.53	14.02	14.21	14.30	18.46	13.16	16.01	14.40	13.27
WCMW-05I	19.61 - 24.61	14.07	14.62	13.57	14.23	14.36	14.61	14.65	13.89	14.62	15.60	13.68	13.42	14.01	14.42	14.16	13.88	14.07	18.27	14.04	15.76	14.31	13.24
WCMW-05I2	29.46 - 34.46	14.08	14.66	13.65	14.28	14.40	14.62	14.67	13.92	14.68	15.67	13.74	13.47	14.04	14.60	14.43	14.01	14.07	18.39	14.04	15.63	14.34	13.26
WCMW-06S	2.0 - 12.0	13.83	14.38	13.40	14.01	14.18	14.07	14.35	13.60	14.38	14.76	14.39	13.24	13.77	13.71	NC	8.08	NC	17.13	13.59	14.27	13.87	12.80
WCMW-06I	19.55 - 24.55	13.82	14.36	13.31	13.99	14.07	14.04	14.34	13.65	14.42	14.91	14.50	13.20	13.72	13.74	13.59	8.19	NC	17.30	13.70	14.09	13.94	12.83
WCMW-06I2	29.83 - 34.83	13.83	14.39	13.37	14.02	14.11	14.17	14.38	13.68	14.48	14.99	14.55	13.26	13.80	13.87	13.59	8.36	NC	17.43	13.82	13.98	14.12	12.98
WCMW-07S	2.76 - 12.76	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	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	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	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
WCMW-08S	4.2 - 9.2	14.64	15.26	14.14	14.78	14.99	15.21	15.20	14.43	15.24	16.16	14.31	13.89	14.52	14.54	13.37	14.64	14.58	17.64	14.74	14.96	15.04	13.71
WCMW-08I	19.2 - 24.2	14.66	15.27	14.13	14.80	15.01	15.24	15.21	14.47	15.27	16.19	14.33	13.93	14.55	14.48	13.37	14.71	14.68	17.72	14.75	15.17	15.02	13.72
WCMW-08I2	26.9 - 31.9	14.74	15.25	14.11	14.79	14.99	15.22	15.23	14.44	15.28	16.20	14.35	13.92	14.56	14.55	13.44	14.67	14.73	17.76	14.77	15.16	15.00	13.71
WCMW-09S	5.0 - 15.0	14.45	15.04	13.94	14.60	14.75	15.03	15.03	14.30	15.08	15.98	14.13	13.73	14.34	14.64	NC	14.93	NC	NC	NC	NC	NC	NC
WCMW-10S	15.0 - 20.0	14.18	14.80	13.69	14.37	14.53	14.78	14.72	14.05	14.78	15.76	13.88	13.64	14.13	14.14	14.07	13.81	14.14	17.44	14.23	13.88	14.44	NC
WCMW-10D	40.0 - 50.0	14.18	14.80	13.74	14.37	13.52	14.78	14.71	13.99	14.82	15.76	13.89	13.47	14.16	14.11	14.04	13.89	14.15	17.36	14.07	13.63	14.44	13.30
WCMW-11S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.43	9.06	14.13	NC	13.96	14.09	18.87	14.16	14.56	14.42	NC
WCMW-11I	25.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.64	14.07	14.74	NC	14.29	14.11	19.18	14.34	14.73	14.42	NC
WCMW-11D	50.0 - 60.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.31	14.06	14.44	NC	14.22	14.10	19.02	14.01	14.47	14.41	NC
WCMW-12S	3.0 - 13.0	NC	13.77	12.82	13.42	13.46	13.75	13.73	13.07	13.83	13.43	12.92	12.71	13.18	13.15	12.91	13.06	12.91	16.88	13.27	12.90	13.54	7.49
WCMW-12I	25.0 - 30.0	NC	13.76	12.82	13.43	13.46	13.70	13.73	13.05	13.79	13.77	12.93	12.71	13.25	13.23	12.97	13.32	13.27	17.19	13.25	12.98	13.56	7.47
WCMW-12D	65.0 - 70.0	NC	13.78	12.81	13.44	13.49	13.77	13.74	13.06	13.84	13.78	12.96	12.76	13.25	13.26	12.99	13.16	13.30	17.15	13.23	13.14	13.54	7.47
WCMW-13S	3.0 - 13.0	NC	13.59	12.71	13.30	13.37	13.56	13.66	12.95	13.62	14.10	12.81	12.64	NC	11.35	11.17	13.22	13.19	15.11	12.55	12.56	13.26	12.37
WCMW-13I	25.0 - 30.0	NC	13.68	12.74	13.33	13.41	13.62	13.60	12.97	13.69	14.46	12.95	12.75	NC	11.72	11.52	13.40	13.38	15.41	13.11	12.90	13.37	12.38
WCMW-13D	65.0 - 70.0	NC	13.71	12.92	13.37	13.47	13.68	13.66	13.01	13.73	14.47	12.89	12.70	NC	11.68	11.45	13.23	13.23	15.38	13.20	12.97	13.48	12.41
WCMW-14S	2.0 - 12.0	NC	14.57	13.80	14.20	14.34	14.49	14.24	12.84	14.30	15.30	13.39	13.17	13.71	13.73	13.54	12.00	NC	16.97	13.66	13.16	13.95	12.86
WCMW-14I	20.0 - 25.0	NC	14.53	13.50	14.15	14.25	14.33	14.52	13.79	14.19	14.82	13.60	13.38	14.03	14.01	13.76	11.93	NC	16.98	13.69	12.92	13.95	12.84
WCMW-14I2	30.0 - 35.0	NC	14.53	13.18	14.16	14.28	14.41	14.52	13.83	14.55	14.83	13.61	13.41	14.03	13.64	13.74	11.93	NC	17.01	13.67	12.78	13.97	12.84
WCMW-14D	67.0 - 72.0	NC	14.56	12.42	14.20	14.43	14.45	14.65	13.91	14.78	15.37	13.79	13.54	13.93	14.36	13.83	12.54	NC	17.04	13.89	13.75	14.36	12.97
WCMW-18WT	2.0 - 7.0	NC	NC	NC	NC	NC	NC	15.18	14.51	15.10	15.95	14.22	13.61	14.40	14.34	NC	14.17	14.49	17.00	14.55	14.07	14.73	13.67
WCMW-18S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	15.13	14.43	15.10	16.05	14.22	13.83	14.45	14.49	NC	14.41	14.49	17.20	14.49	14.97	14.71	13.67
WCMW-18I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	15.17	14.43	15.11	16.06	14.21	13.81	14.48	14.48	NC	14.51	14.50	17.22	14.46	14.87	14.74	13.67
WCMW-18I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	15.17	14.42	15.04	16.03	14.19	13.80	14.44	14.44	NC	14.47	14.49	17.22	14.46	14.41	14.72	13.64
WCMW-19S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	14.71	15.56	16.63	14.62	14.15	14.81	14.79	14.59	14.77	14.80	16.68	14.77	15.23	15.01	NC
WCMW-19I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	14.69	15.43	16.53	14.61	14.13	14.80	14.92	14.58	15.04	14.81	16.92	14.82	15.42	15.11	NC
WCMW-19I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	14.65	15.48	16.54	14.59	14.13	14.78	14.84	14.56	14.78	14.83	16.64	14.76	14.74	15.07	NC
WCMW-22S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	14.86	15.90	NC	13.52	14.42	14.48	14.00	NC	NC	NC	NC	NC	NC	NC
WCMW-22I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.78	15.76	NC	13.47	13.84	14.47	13.95	NC	NC	NC	NC	NC	14.42	NC
WCMW-23S	3.0 - 13.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	15.62	NC	13.25	NC	NC	13.72	13.34	NC	NC	NC	NC	NC	NC
WCMW-23I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	15.64	NC	13.23	NC	NC	13.73	13.36	NC	NC	NC	NC	NC	NC
WCMW-25I	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	14.34	15.10	13.41	13.11	13.69	14.07	13.73	13.66	13.79	18.65	9.67	14.40	14.09	12.93
WCMW-25D	55.0 - 60.0	NC	NC	NC	NC	NC	NC	NC	NC	14.16	15.07	13.34	13.04	13.66	14.07	13.72	13.60	13.79	18.61	9.62	14.10	14.07	12.92
WCMW-26S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	16.27	17.37	NC	15.00	15.64	15.98	15.50	15.76	15.70	20.08	15.72	16.15	15.95	NC
WCMW-26I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	16.83	17.91	NC	15.57	16.19	16.54	16.06	16.22	16.22	20.73	16.33	16.52	16.48	NC
WCMW-26I2	30.0 - 35.0	NC	NC	NC	NC	NC	NC	NC	NC	17.13	18.16	NC	15.79	16.48	16.79	16.31	16.61	16.45	20.98	16.55	16.96	16.71	NC
WCMW-29S	2.0 - 12.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.64	14.24	14.23	13.99	14.09	14.25	18.08	14.30	14.74	14.46	NC
WCMW-29I	20.0 - 25.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.58	14.18	14.20	14.01	14.06	14.24	18.09	14.34	14.69	14.51	11.87

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

Table 3-8. OU-4 Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2019/2020 Annual GM and OM&M Report

Well ID	Screen Interval (feet bgs)	ove Mean Sea Level						
		Apr-17	Jun-18	Apr-19	Oct-20	Minimum	Average	Maximum
WCMW-02S	3.0 - 13.0	13.41	12.91	13.57	13.57	12.25	13.25	15.34
WCMW-02I	34.5 - 44.5	13.54	13.03	12.69	12.69	12.28	13.20	15.23
WCMW-02D	62.0 - 72.0	13.32	12.83	12.48	12.48	12.22	13.22	15.15
WCMW-04S	1.5 - 11.5	14.41	13.83	NC	NC	13.10	14.27	19.27
WCMW-04I	19.0 - 24.0	14.33	13.81	NC	NC	13.10	14.24	19.21
WCMW-04I2	29.85 - 34.85	14.21	13.87	NC	NC	13.21	14.28	19.16
WCMW-05S	1.4 - 11.4	14.46	13.99	14.02	14.02	13.16	14.34	18.46
WCMW-05I	19.61 - 24.61	14.35	13.85	13.40	13.40	13.16	14.26	18.27
WCMW-05I2	29.46 - 34.46	12.44	13.89	13.46	13.46	12.44	14.27	18.39
WCMW-06S	2.0 - 12.0	13.90	13.44	13.17	13.17	8.08	13.70	17.13
WCMW-06I	19.55 - 24.55	14.08	13.50	13.09	13.09	8.19	13.71	17.30
WCMW-06I2	29.83 - 34.83	14.22	13.67	13.26	13.26	8.36	13.88	17.43
WCMW-07S	2.76 - 12.76	NC	NC	NC	NC	NC	NC	NC
WCMW-07I	18.9 - 23.9	NC	NC	NC	NC	NC	NC	NC
WCMW-07I2	28.95 - 33.95	NC	NC	NC	NC	NC	NC	NC
WCMW-08S	4.2 - 9.2	14.97	14.45	13.90	13.90	13.37	14.75	17.64
WCMW-08I	19.2 - 24.2	15.05	14.47	13.91	13.91	13.37	14.76	17.72
WCMW-08I2	26.9 - 31.9	15.02	14.43	13.89	13.89	13.44	14.78	17.76
WCMW-09S	5.0 - 15.0	NC	NC	NC	NC	13.64	14.64	15.98
WCMW-10S	15.0 - 20.0	NC	13.95	13.50	13.50	13.47	14.44	17.44
WCMW-10D	40.0 - 50.0	NC	13.98	13.50	13.50	13.30	14.35	17.36
WCMW-11S	5.0 - 15.0	NC	NC	NC	NC	9.06	14.25	18.87
WCMW-11I	25.0 - 35.0	NC	NC	NC	NC	13.64	14.94	19.18
WCMW-11D	50.0 - 60.0	NC	NC	NC	NC	13.31	14.79	19.02
WCMW-12S	3.0 - 13.0	13.59	13.08	12.82	12.82	7.49	13.14	16.88
WCMW-12I	25.0 - 30.0	13.59	13.07	12.71	12.71	7.47	13.19	17.19
WCMW-12D	65.0 - 70.0	13.52	13.08	12.72	12.72	7.47	13.20	17.15
WCMW-13S	3.0 - 13.0	13.33	12.88	12.68	12.68	11.17	13.03	15.11
WCMW-13I	25.0 - 30.0	13.44	12.96	12.68	12.68	11.52	13.17	15.41
WCMW-13D	65.0 - 70.0	13.52	13.02	12.69	12.69	11.45	13.19	15.38
WCMW-14S	2.0 - 12.0	14.05	13.50	13.08	13.08	12.00	13.83	16.97
WCMW-14I	20.0 - 25.0	14.06	13.49	13.06	13.06	11.93	13.87	16.98
WCMW-14I2	30.0 - 35.0	14.09	13.47	13.07	13.07	11.93	13.86	17.01
WCMW-14D	67.0 - 72.0	14.42	13.75	13.36	13.36	12.42	14.07	17.04
WCMW-18WT	2.0 - 7.0	14.68	14.77	NC	NC	13.61	14.67	17.00
WCMW-18S	2.0 - 12.0	14.73	14.31	NC	NC	13.67	14.75	17.20
WCMW-18I	20.0 - 25.0	14.72	14.33	NC	NC	13.67	14.75	17.22
WCMW-18I2	30.0 - 35.0	14.81	14.33	NC	NC	13.64	14.71	17.22
WCMW-19S	2.0 - 12.0	NC	NC	NC	NC	14.15	15.08	16.68
WCMW-19I	20.0 - 25.0	NC	NC	NC	NC	14.13	15.13	16.92
WCMW-19I2	30.0 - 35.0	NC	NC	NC	NC	14.13	15.03	16.64
WCMW-22S	2.0 - 12.0	NC	NC	NC	NC	13.52	14.53	15.90
WCMW-22I	25.0 - 30.0	NC	NC	NC	NC	13.47	14.38	15.76
WCMW-23S	3.0 - 13.0	NC	NC	NC	NC	13.25	13.98	15.62
WCMW-23I	25.0 - 30.0	NC	NC	NC	NC	13.23	13.99	15.64
WCMW-25I	30.0 - 35.0	14.06	13.58	NC	NC	9.67	13.89	18.65
WCMW-25D	55.0 - 60.0	14.06	13.57	NC	NC	9.62	13.84	18.61
WCMW-26S	2.0 - 12.0	NC	NC	NC	NC	15.00	16.26	20.08
WCMW-26I	20.0 - 25.0	NC	NC	NC	NC	15.57	16.80	20.73
WCMW-26I2	30.0 - 35.0	NC	NC	NC	NC	15.79	17.08	20.98
WCMW-29S	2.0 - 12.0	NC	NC	NC	NC	13.64	14.60	18.08
WCMW-29I	20.0 - 25.0	NC	NC	NC	NC	11.87	14.34	18.09

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			
		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
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
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	16	0	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--
BBMW-13D	62.0 - 72.0	--	--	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
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
BBMW-22I	30.0 - 40.0	--	--	--	36	--	25	22	--	28	13	--	--	--	16	--	--	--	16	--	--	--	0	43	37	32	31	32	38	42
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
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--	--
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--	0	0	0	--	0	--	--	--
BBMW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	0	0	0
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	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	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
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	361	15	19	26	--	--	--	45	20	0	0	33	35	--	180	34	0	132	31	250	10	0	111	116	18	30	5	--	--
MW-03D	35.0 - 45.0	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
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

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			
		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
MW-09S	4.0 - 14.0	0	--	29	--	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	--	--	--
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,685	0	0	0
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	512	105	136	189
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	4	8	2
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,664	78	52	25
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,316	82	23	40
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,160	54	212	24
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,600	169	25	84
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	201	95	57	123
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	77	31	79	147
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7,077	7,480	7,381	6,074
OZMW-22I/22IR	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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			
		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
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 4-1. 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																											
		2009				2010				2011				2012				2013				2014				2015			
		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	482	880	1,016	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
BBMW-05D2/D2R	126.5 - 136.5	7	--	--	--	--	--	0	0	0	14	0	0	5	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	0	--	--	--	0	2	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35.0 - 45.0	8	3	5	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
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	10,730	7,820	9,600	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	5506	7430	4501	5040	4069	5141	4960	4276
BBMW-22I	30.0 - 40.0	43	111	199	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
BBMW-22D	64.0 - 74.0	2,314	4,329	4,010	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	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-26I	30.0 - 40.0	8	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27S	5.0 - 15.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
BBMW-27I	30.0 - 40.0	0	0	--	--	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5.0 - 15.0	--	--	749	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
BBMW-34I	25.0 - 30.0	--	--	3,109	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
BBMW-34I2	40.0 - 45.0	--	--	196	192	174	219	229	283	171	154	135	82	101	102	44	43	39	44	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65.0 - 70.0	--	--	8	0	0	0	0	0	0	14	0	0	3	5	0	0	0	0	--	--	--	0	--	0	0	0	3	9
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	0	0	--	7	8	24	7	6	6	0	6	0	7	6	3	--	--	8	--	--	--	0	--	--	--	--	--	--
BBMW-36I	25.0 - 30.0	0	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
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
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	412	341	352	--	216	267	189	249	272	96	6	32	38	6	0	3	8
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	8	0	0	--	0	0	0	--	--	--	1	--	--	--	--	--	--
BBMW-38S	5.0 - 15.0	--	--	49	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
BBMW-38I	25.0 - 30.0	--	--	9	7	10	6	9	3	4	12	3	5	4	2	2	3	3	7	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40.0 - 45.0	--	--	7	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	0	12	0	0	0	0	0	0	--	--	--	6	--	--	--	--	--	--
BBMW-39S	5.0 - 15.0	--	--	9,755	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
BBMW-39I	25.0 - 30.0	--	--	0	0	0	210	0	0	2	0	1	35	0	12	0	0	0	199	356	0	0	0	0	0	--	421	--	0
BBMW-39I2	45.0 - 50.0	--	--	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	--	--	0	--	--	--	--	--	--
BBMW-39D	65.0 - 70.0	--	--	1	0	0	0	0	0	28	0	2	1	23	0	0	0	0	0	--	--	--	--	0	--	--	--	--	--
BBMW-40S	5.0 - 15.0	--	--	5,069	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
BBMW-40I	25.0 - 30.0	--	--	5	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
BBMW-40I2	45.0 - 50.0	--	--	0	0	3	0	0	0	0	15	0	622	2,478	2,302	2,425	0	0	0	0	0	--	0	--	--	--	0	--	--
BBMW-40D	70.0 - 75.0	--	--	37	19	4	0	1	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
BBMW-41S	6.0 - 16.0	--	--	6,819	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
BBMW-41I	25.0 - 30.0	--	--	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
BBMW-41I2	45.0 - 50.0	--	--	2	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	--	--	--	0	--	--	--	--	--	--
BBMW-42S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	76	48	28	346	44	63	20	73	19	22	11	10
BBMW-42I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	516	778	315	515	8	9	2	0	0	5	10	0
BBMW-42I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	407	332	334	606	269	103	78	17	49	23	7	6
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	--	--
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	34	28	--	--	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
MW-03D	35.0 - 45.0	0	0	--	--	0	0	0	--	0	--	--		0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05S	4.0 - 14.0	9,600	2,655	7,891	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
MW-05D	35.5 - 45.5	26	29	22	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

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																											
		2009				2010				2011				2012				2013				2014				2015			
		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
MW-09S	4.0 - 14.0	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	4	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU1PZ-101	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,242	3675	5713	2773	5507.5	4912	2961	5416
OU1PZ-102	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15	25	195	15	130.9	270	168	147
OU1PZ-103	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	982	367	396	178	312	42	216	214
OU1PZ-104	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	14	4	4	102	36	22	12
OU1PZ-105	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	950	1250	1750	1060	380	880	1740	1070
OU2MW-48S	3.0 - 13.0	--	8	6	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	--	--	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	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	--	--	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	--	--	--	--	--	--	--	--	274	239	0	0	39	10	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
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
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
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
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
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
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
OZMW-16I	20.0 - 30.0	441	775	585	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
OZMW-16I2	35.0 - 45.0	12	92	686	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
OZMW-16D	55.0 - 65.0	0	0	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
OZMW-17S	5.0 - 15.0	141	17	337	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
OZMW-17I	20.0 - 30.0	74	42	67	9	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-17I2	35.0 - 45.0	0	36	8	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
OZMW-17D	53.0 - 63.0	0	0	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
OZMW-18S	5.0 - 15.0	244	0	5	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
OZMW-18I	20.0 - 30.0	178	149	449	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
OZMW-18I2	35.0 - 45.0	129	50	104	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
OZMW-18D	55.0 - 65.0	216	94	389	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
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
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
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
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
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
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	11,947	5,605	6,942	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
OZMW-22I/22IR	20.0 - 30.0	607	43	17	8	--	564	214	24	15	0	23	216	191	68	28	72	34	23	2	0	0	5	10	--	--	0	--	--
OZMW-22I2	35.0 - 45.0	2	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	0	0	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
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
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
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
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
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
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
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

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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																											
		2009				2010				2011				2012				2013				2014				2015			
		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
OZMW-25S	5.0 - 15.0	--	1,691	1,724	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
OZMW-25I	20.0 - 30.0	--	198	248	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
OZMW-25I2	35.0 - 45.0	--	91	177	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
OZMW-25D	55.0 - 65.0	--	0	0	0	0	0	0	0	0	17	0	0	0	0	8	0	11	0	9	1	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	--	--	--	--	--	--
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	--	--
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
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)																		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date																						
		2016				2017				2018				2019				2020						
		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	Jul-Sep					
BBMW-05D	64.0 - 74.0	1999	1852	1475	2249.5	1657	814.8	734	1105	893.9	1020.6	961	1132	1161	1058	981	842	1423	1063	0	3,150	1,014	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	3	0	0	1.03	1.62	3.4	0	0	44	3.35	1.3	0.98	0.44	0.81	0.71	1	0	217	34	0	217
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,359	9,639	3,569	1,359	9,639
BBMW-22S	5.0 - 10.0	5907	7065	3974	4739.8	3672	2860.4	3231.3	3430.4	3026.5	2396.2	2597.3	2192.6	2690.3	2385.6	2924.8	2393.6	2571.1	2095.8	2,193	25,800	8,208	2,096	25,800
BBMW-22I	30.0 - 40.0	335	309	212	335.3	321	167.5	192	217.2	240.1	214.9	198.1	320.6	234.4	234.9	279	353.2	334.3	281.8	0	385	180	0	385
BBMW-22D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	501	8,600	2,522	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	365	118.3	68	97.3	221.8	36.81	38.3	39	32.2	56.75	64.8	88.74	57	39.69	76.6	26.65	94.9	8.64	27	885	268	9	885
BBMW-34I	25.0 - 30.0	1277	998.9	916	1063.3	966.4	735.9	615.8	730.9	669.5	735.7	745.9	666.5	638.5	646.3	696.3	612.1	602.3	741	602	3,757	1,322	602	3,757
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	39	283	138	39	283
BBMW-34D	65.0 - 70.0	--	0	0	0	0	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	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	0	24	2	0	24
BBMW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-37S	5.0 - 10.0	4	11	44	18.1	3.2	1.6	15.9	21.01	0.37	2.1	8.3	0	3.98	3.59	21.77	3.67	6.3	21.3	0	271	54	0	271
BBMW-37I	20.0 - 30.0	0	2	227	0	0	0	10.6	0	0	1.58	4.8	0	--	0	--	--	--	1.2	0	3,922	415	0	3,922
BBMW-37I2	35.0 - 45.0	2	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	0	412	108	0	412
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8	1	0	8
BBMW-38S	5.0 - 15.0	204	138.1	629	744.5	457.3	164	321.9	581.7	306.5	215	392.5	278.3	204.2	221.9	220.2	157.85	88.07	256.4	1	757	248	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	86	129	146	199.2	102.5	526	147.69	159.57	0	78	98.46	49.4	49.96	22.08	27.6	52.8	73.5	72.63	0	11,900	2,637	0	11,900
BBMW-39I	25.0 - 30.0	0	0	0	0	0	1.99	--	--	--	10.7	--	--	--	0	0	--	--	0	0	421	38	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	1296	0	1883.8	0	188.79	671.6	1052.6	0	0.55	372.59	0	2.98	1.06	2386.9	15.4	436.4	397.65	0	6,390	1,048	0	6,390
BBMW-40I	25.0 - 30.0	14	0	0	0	5.1	0.23	--	--	--	0	--	--	--	--	--	--	--	--	0	67	6	0	67
BBMW-40I2	45.0 - 50.0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,478	374	0	2,478
BBMW-40D	70.0 - 75.0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	37	4	0	37
BBMW-41S	6.0 - 16.0	3105	4310	5814	6003.1	7296.6	4808.2	4912.4	2600.5	7011.5	4508.7	3308.4	7310	5607	4008.2	4908.4	2804.7	2174.8	3704.6	1,856	13,425	5,367	1,856	13,425
BBMW-41I	25.0 - 30.0	--	124	--	0	0	9.8	0	0	35	0	0	0	74	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	12	10	11.2	11.5	8.5	5.7	5.61	8	5.4	5.4	4.5	7.2	6.67	4.3	4.2	3.8	2.9	4	346	30	3	346
BBMW-42I	15.0-25.0	0	0	0	0	--	1.5	--	--	--	0	--	--	--	--	--	--	--	--	0	778	120	0	778
BBMW-42I2	35.0-45.0	0	9	3	0	--	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	--	--	--	--	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	7	14	0	4.2	1.5	1.25	7.7	--	0.95	3.93	2.3	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	3518	2420	2635	3903.3	3191.3	2092.6	1798.7	2003.9	1962.5	1485.8	1742.3	1457.25	953.41	1248.2	1138.9	1223.84	804.1	991	577	48,430	9,092	577	48,430
MW-05D	35.5 - 45.5	31	16.6	24	42.3	24	13.7	25.06	32.15	87.44	16.27	16.6	19.3	17.2	16.8	17.19	23	16.8	26.7	0	457	37	0	457

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

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentrations (µg/L)																		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date																						
		2016				2017				2018				2019				2020						
		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	Jul-Sep					
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	3273	4796	4966	3752.6	4497.2	2823.5	3865.48	2223.17	2613.3	3684.4	930	1752.4	1020	1872.2	2575.6	1833.2	920	1680	920	5,713	3,184	920	5,713
OU1PZ-102	4.0 - 14.0	8	85	92	161.2	50.6	30.06	49.2	57.85	133.7	4.8	54.57	6.2	4.85	24.28	131.4	5.6	0	49.15	0	270	75	0	270
OU1PZ-103	4.0 - 14.0	791	472	1420	245.7	857.8	40.9	69.4	595.9	230.7	489.84	256.7	311.81	1.3	227.4	505.61	123.95	215	1009.4	1	1,420	382	1	1,420
OU1PZ-104	4.0 - 14.0	10	16	18	11.1	12.6	4.81	6.02	5	0.93	9	2.23	0.98	0	0.49	0	0	--	13	0	102	12	0	102
OU1PZ-105	4.0 - 14.0	153	400	280	137.9	111.1	38	94	23.22	35.96	93.14	52	20.2	46	51	41.66	26	36	29	20	1,750	429	20	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	0	0	0	0	0	274	15	0	274
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	24	1	0	24
OU2MW-50I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	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	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	13	16	7	20.7	5.3	2	3.3	18.2	2.8	3.1	4	3	5.3	4.9	8.4	7.7	10.1	6.7	2	2,082	109	2	2,082
OU2MW-57I	20.0 - 30.0	0	2	2	0	0	0	2.4	0	0	0.38	1.3	0	2.3	4.9	0.76	0	0	0	0	4,716	128	0	4,716
OU2MW-57I2	35.0 - 45.0	0	0	0	1.1	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	0	0	0	0	0	0	4,685	96	0	4,685
OZMW-16I	20.0 - 30.0	0	0	0	2.2	0	0	0	0	0	0	0	2.33	0	0	0	0	0	0	0	775	62	0	775
OZMW-16I2	35.0 - 45.0	7	27	16	4.7	0	3.01	1.02	6.6	2.6	4.5	2.7	0	0	0	0	0	0.66	1.1	0	855	162	0	855
OZMW-16D	55.0 - 65.0	0	0	0	1.4	5.5	3.75	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	0	0	0	0	0	1,664	48	0	1,664
OZMW-17I	20.0 - 30.0	0	0	0	0	0	0	0	0	0	0	5.04	1.1	0	0	0	0	0	0	0	1,316	34	0	1,316
OZMW-17I2	35.0 - 45.0	0	0	0	0	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	322	177	36	4.8	15.5	107.3	74.5	52.7	705	1526.63	70.1	137.3	808	97	27.1	72.7	595	28	0	1,527	155	0	1,527
OZMW-18S	5.0 - 15.0	0	0	0	0	1.4	0	0	0	0	0	12.9	3.5	0	0	0	0	0	0	0	3,160	76	0	3,160
OZMW-18I	20.0 - 30.0	0	0	0	1	0	0	0	0	0	0	3.79	0	0	0	0	0	0	0	0	3,600	100	0	3,600
OZMW-18I2	35.0 - 45.0	0	0	0	0	46.7	1.21	0	0	0	0	0	1.6	0	0	0	0	1.1	0	0	201	19	0	201
OZMW-18D	55.0 - 65.0	102	105	147	132.3	219	148.3	109.44	109	312.34	165.27	95.98	71.7	110	54.7	91.71	67.1	55.3	185.2	0	612	182	0	612
OZMW-19S	5.0 - 15.0	77	694	773	461	762	781.73	901.29	451.24	500.76	470.85	470.67	280.4	211.59	370.55	249	231.67	341.74	223	0	1,792	376	0	1,792
OZMW-19I	20.0 - 30.0	116	204	179	280.2	230.7	145.3	122.22	83.57	189.67	195.5	215.7	122.51	157.86	267.4	252.47	105.73	156.8	100.94	84	1,143	373	84	1,143
OZMW-19I2	35.0 - 45.0	285	578	512	396.6	439.5	413.2	234.7	188	379	313.8	190.8	226.3	320.1	72.63	408	181.07	203.8	202.1	73	1,332	518	73	1,332
OZMW-19D	55.0 - 65.0	2	9	43	12.7	5.5	7.18	0.64	26.96	12.66	0	0	12	0	0	0	0	0	0	0	76	14	0	76
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,122	8,270	5,604	2,122	8,270
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	309	542	410	309	542
OZMW-21I2	35.0 - 45.0	192	154.5	201	245.3	197.5	74.5	51.7	86.1	96.5	72.69	56.98	131	84.96	69.84	116.3	165.5	109.68	62.53	52	380	141	52	380
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	14	5	0	14
OZMW-22S/22SR	5.0 - 15.0	30	48	6	0	11.1	14.63	4.06	0.42	3.6	22.83	3	1.6	22.83	--	5.42	1.4	3.94	6.3	0	11,947	1,495	0	11,947
OZMW-22I/22IR	20.0 - 30.0	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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	0	0	0	0	0	13	0	0	13
OZMW-23I	20.0 - 30.0	0	0	0	0	0	0	0	0	0	0	6.4	0	0	0	0	0	0	0	0	8	1	0	8
OZMW-23I2	35.0 - 45.0	0	0	0	0	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	0	0	0	0	0	33	2	0	33
OZMW-24S	5.0 - 15.0	0	0	0	2.8	0	1.22	0.37	4.1	0	0	13.3	0	1.06	1.86	0	1.65	0.47	0	0	25	2	0	25
OZMW-24I	20.0 - 30.0	0	0	0	0	0	0	0	2.08	0	0	464.7	3.9	0.71	0	0	0	0	0	0	465	13	0	465
OZMW-24I2	35.0 - 45.0	162	100	77	62.9	110.8	127.6	74.1	152.54	183.569	151.45	110.5	132.46	194.56	121.45	110.47	122.4	100.3	134.5	63	674	163	63	674
OZMW-24D	55.0 - 65.0	891	893	681	710.3	874.9	498.93	619	846.6	802.4	687.1	571.84	756.5	670.3	647.1	722	712	551.86	499.65	499	1,595	867	499	1,595

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)																		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date																						
		2016				2017				2018				2019				2020						
		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	Jul-Sep					
OZMW-25S	5.0 - 15.0	823	751.9	1035	842	804.7	586.9	756.8	659.1	855.8	534	850.8	754.2	647.4	584.2	690.8	645.6	720.2	438.2	0	3,070	1,092	0	3,070
OZMW-25I	20.0 - 30.0	446	496	425	381.3	527	338.3	280	286.3	448.4	425.5	354	310.9	411.8	395.2	362	308.9	451.4	369	198	575	397	198	575
OZMW-25I2	35.0 - 45.0	11	3.4	15	37.6	2.7	43.5	86.76	7	4.11	6.61	44.13	15	4.22	5.8	24.73	5.2	1.5	8.7	2	306	78	2	306
OZMW-25D	55.0 - 65.0	--	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	13	0	79
OZMW-26I2	35.0 - 45.0	11	0	2	23	10.8	0	0	1.59	5.4	0	0	12.7	20.2	0	0	11.19	0	0	0	393	39	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
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
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	147	0	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--
BBMW-13D	62.0 - 72.0	--	--	0	40	--	--	--	--	--	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	--	--	--	--	--
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
BBMW-20D	62.0 - 72.0	--	--	--	14,594	--	7,300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,289	4,688	5,460	--	--	--	--	--
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
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
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
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--	0	0	0	24	0	--	--	--
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--	0	0	1	--	0	--	--	--
BBMW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0	0	0	0	0	2	0
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	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	--	--
MW-03D	35.0 - 45.0	0	0	0	0	--	--	--	--	--	184	--	--	--	--	--	--	--	0	--	--	--	0	0	0	2	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
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
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
MW-09S	4.0 - 14.0	0	--	0	--	0	74	0	--	--	0	--	--	0	--	--	--	--	0	--	--	--	0	0	0	0	0	0	0	0
MW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0	2	--	4	--	--	--
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,447	39	22	440
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	219	0	159
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0	0	0
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,963	1	0	0
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,197	5	0	0
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7	0	2	0
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	27	0	0	3
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	569	15	0	2
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,312	625	7	600
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8,178	7,353	11,417	10,065
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,684	461	0	1,279
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
OZMW-22I/22IR	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	1	0
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	49
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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
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				2015			
		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	786	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
BBMW-05D2/D2R	126.5 - 136.5	0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	0	--	--	--	0	0	0	0	0	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4.0 - 14.0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35.0 - 45.0	1,150	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
BBMW-20D	62.0 - 72.0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	1,664	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
BBMW-22I	30.0 - 40.0	4,949	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
BBMW-22D	64.0 - 74.0	5,140	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	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-26I	30.0 - 40.0	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	--	--	--	0	--	--	--	--	--	--
BBMW-27I	30.0 - 40.0	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
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
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
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	--	--	--	--	--	--
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
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
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
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
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
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
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
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
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
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
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
BBMW-42I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,181	1107	666	1110	80	9	5	5	1	0	4	0
BBMW-42I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,504	1163	2090	1625	496	104	244	315	122	97	9	4
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	--	--
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	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
MW-03D	35.0 - 45.0	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				2015			
		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
MW-05S	4.0 - 14.0	1,052	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
MW-05D	35.5 - 45.5	232	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
MW-09S	4.0 - 14.0	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	--	--	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU1PZ-101	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	365	814	1146	619	1374	707	1095	912
OU1PZ-102	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	7	0	14	17	41	12
OU1PZ-103	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	779	311	153	103	205	105	107	249
OU1PZ-104	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	1	2	23	23	14	14
OU1PZ-105	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	322	369	409	239	322	408	792	430
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
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
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
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
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
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
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
OZMW-16S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	2	0	1	6	0	0	0	0	0	2	0	0	0	0	0	0	0	0
OZMW-16I	20.0 - 30.0	153	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
OZMW-16I2	35.0 - 45.0	6	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
OZMW-16D	55.0 - 65.0	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
OZMW-17S	5.0 - 15.0	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
OZMW-17I	20.0 - 30.0	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
OZMW-17I2	35.0 - 45.0	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
OZMW-17D	53.0 - 63.0	2	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
OZMW-18S	5.0 - 15.0	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
OZMW-18I	20.0 - 30.0	9	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
OZMW-18I2	35.0 - 45.0	7,728	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
OZMW-18D	55.0 - 65.0	435	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
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
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
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
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
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
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	1,850	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
OZMW-22I/22IR	20.0 - 30.0	95	0	3	7	--	220	4	0	1	0	20	1	89	28	16	39	11	8	0	0	0	0	6	--	--	0	--	--
OZMW-22I2	35.0 - 45.0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	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
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
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
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
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
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
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

Table 4-2. OU-1 Summary of 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 Concentrations (µg/L)																											
		Sampling Date																											
		2009				2010				2011				2012				2013				2014				2015			
		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
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
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
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
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
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	--	--
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	--	--
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
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)																		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date																						
		2016				2017				2018				2019				2020						
		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	Jul-Sep					
BBMW-05D	64.0 - 74.0	1895	1939	1846	3137.7	3038	1227.2	1555	1776	1321	2412	1680	2131	1975	1549	1763	1639	2423	2405	0	4,492	1,899	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	209	204	257	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	1	8,636	1,381	1	8,636
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	14,594	5,722	0	14,594
BBMW-22S	5.0 - 10.0	1944	1404	2406	3638.1	3379.1	1177.5	2719	2232	2259	1936	360.5	2888	1069.8	601	371.95	871	1945	56.6	24	6,024	2,614	24	6,024
BBMW-22I	30.0 - 40.0	5671	2704	3568	5002.5	4985.6	3034	3678	2662	3036	4326	2398.3	4646	2594.3	1351	3894	2622	4235	1409.8	1,351	8,810	4,757	1,351	8,810
BBMW-22D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,725	145,100	9,922	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	195	207	177	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	52	969	238	52	969
BBMW-34I	25.0 - 30.0	1755	1372	1559	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	1,198	3,307	2,182	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	--	35	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	--	--	--	--	--	--	--	--	--	--	--	--	0	23	3	0	23
BBMW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--			--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-37S	5.0 - 10.0	2	6	20	28.8	0	0	3	27.6	0	0	0	0	16.48	0	1.9	3.7	13.6	86.86	0	520	78	0	520
BBMW-37I	20.0 - 30.0	0	0	15	0	0	0	3	0	0	0	0	0	--	0	--	--	--	13.1	0	8,853	713	0	8,853
BBMW-37I2	35.0 - 45.0	2	0	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	59	35	204	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	262	78	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	83	141	5	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	0	2,988	454	0	2,988
BBMW-39I	25.0 - 30.0	0	0	0	0	0	13.3	--	--	--	35.9	--	--	--	1.3	0	--	--	0	0	433	34	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	0	256	0	685.6	0	256	759	668	0	0	348	0	3.6	1.4	1882	39.9	362.6	396.3	0	4,533	692	0	4,533
BBMW-40I	25.0 - 30.0	26	8	7	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	1919	1487	1897	2364.2	2210.4	1600	1384	844.3	1564	1898	1400	2000	2410	114.85	1810	1478	655.8	1665	0	3,693	1,595	0	3,693
BBMW-41I	25.0 - 30.0	--	39	--	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	127	148	170	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	3	720	213	1	720
BBMW-42I	15.0-25.0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	0	1,181	232	0	1,181
BBMW-42I2	35.0-45.0	2	107	25	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	--	--	--	--	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	24	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

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
		2016				2017				2018				2019				2020						
		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	Jul-Sep					
MW-05S	4.0 - 14.0	1420	613	1471	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	1	5,514	1,283	1	5,514
MW-05D	35.5 - 45.5	1671	1134	1912	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	9	4,944	1,627	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
OU1PZ-101	4.0 - 14.0	1286	1291	1199	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	365	1,845	935	365	1,845
OU1PZ-102	4.0 - 14.0	0	6	17	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	41	8	0	41
OU1PZ-103	4.0 - 14.0	590	266	897	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	0	897	221	0	897
OU1PZ-104	4.0 - 14.0	2	2	6	5.1	5.3	2.9	0	2.2	1.2	4.3	0	0	0	0	0	0	--	1.8	0	23	5	0	23
OU1PZ-105	4.0 - 14.0	228	455	300	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	38	792	237	38	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	0	0	0	1.6	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	0	0	0	1.2	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	28	29	32	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	0	375	60	0	375
OU2MW-57I	20.0 - 30.0	14	41	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	0	102	25	0	102
OU2MW-57I2	35.0 - 45.0	0	0	88	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	17	0	830
OZMW-16I	20.0 - 30.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,447	70	0	1,447
OZMW-16I2	35.0 - 45.0	8	24	8	13.9	0	3	0	4	5	0	1.1	0	0	0	0	0	0	0	0	5,792	507	0	5,792
OZMW-16D	55.0 - 65.0	41	7	17	44.2	45.1	9.3	0	0	0	0	0	0	0	0	0	0	0	0	0	514	18	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	40	0	1,963
OZMW-17I	20.0 - 30.0	2	0	2	0	0	0	0	1.4	0	0	0	0	0	0	0	0	0	0	0	5,197	107	0	5,197
OZMW-17I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0.89	0	0	0	0	0	0	0	0	0	0	62	3	0	62
OZMW-17D	53.0 - 63.0	922	1178	233	85.2	141.1	538.1	677.4	467.1	2257	3560	950	801.1	4046	626	459.9	272.8	1487	138.94	0	4,046	786	0	4,046
OZMW-18S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	2.4	0	0	0	0	0	0	0	0	569	12	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	0	0	2,312	78	0	2,312
OZMW-18I2	35.0 - 45.0	25	5	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	11,417	1,557	0	11,417
OZMW-18D	55.0 - 65.0	593	489	570	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	0	5,445	1,231	0	5,445
OZMW-19S	5.0 - 15.0	63	623	270	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	3	1,016	339	3	1,016
OZMW-19I	20.0 - 30.0	279	1096	140	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	140	4,325	1,818	140	4,325
OZMW-19I2	35.0 - 45.0	2233	1797	2312	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	19	7,531	2,308	19	7,531
OZMW-19D	55.0 - 65.0	251	289	406	505.1	304.1	51	25.7	245	135.2	0	4	58.1	5.99	0	0	2.5	0	0	0	661	193	0	661
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,152	6,618	4,279	1,152	6,618
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,458	7,522	4,877	2,458	7,522
OZMW-21I2	35.0 - 45.0	3529	3181	2676	4375.3	4398	4475	3324	3862	4635	4675	4318	4876	3946	3094	3551	2693.2	3395	3916	2,564	6,727	4,464	2,564	6,727
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	56	952	397	56	952
OZMW-22S/22SR	5.0 - 15.0	0	6	10	0	0	11.6	0.98	0	0	14.8	0	0	3.2	--	5.99	0	0	0	0	2,555	376	0	2,555
OZMW-22I/22IR	20.0 - 30.0	--	0	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	281	0	0	0	0	0	0	0	0	0	0	0	0	0	21.54	0	0	0	0	281	8	0	281
OZMW-23D	55.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	3	0	51
OZMW-24S	5.0 - 15.0	0	0	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	0	160	13	0	160
OZMW-24I	20.0 - 30.0	0	0	0	0	0	1.1	0	1.8	0	0	262.8	0	0	0	0	0	0	0	0	263	13	0	263
OZMW-24I2	35.0 - 45.0	4152	2395	1968	2390.7	4230.6	3994	3824	4017	4739	4738	4442	4093	3968	4664	4335	4347	3760	3718	1,228	5,641	4,002	1,228	5,641

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
		2016				2017				2018				2019				2020						
		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	Jul-Sep					
OZMW-24D	55.0 - 65.0	3078	2483	3305	2200.2	3408.8	3842	3746	3228	3734	3172	3131	3103	2896	2551	3192	2729	2618	2737	1,624	5,508	3,237	1,624	5,508
OZMW-25S	5.0 - 15.0	2846	1185	934	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	59	6,452	2,122	51	6,452
OZMW-25I	20.0 - 30.0	3660	1734	2212	2986.8	3160.9	2311.5	1168.7	1728.2	2946	3323	2910	1897	3488	3455	856.1	2216	2376.9	1647	292	6,045	3,022	292	6,045
OZMW-25I2	35.0 - 45.0	246	144	207	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	29	1,419	402	29	1,419
OZMW-25D	55.0 - 65.0	--	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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	14	0	182
OZMW-26I2	35.0 - 45.0	45	0	7	37.5	31.2	0	0	1.4	15.25	0	0	31.9	64.6	0	0	15.1	0	0	0	176	31	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	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	BBMW-05D	BBMW-05D	BBMW-05D	BBMW-05D	BBMW-20I	BBMW-20I	BBMW-20I	BBMW-20I	BBMW-22S	BBMW-22S	BBMW-22S	BBMW-22S	BBMW-22I	BBMW-22I	DUP-03	BBMW-22I	BBMW-22I	BBMW-34S	BBMW-34S	BBMW-34S	BBMW-34S
			Start Depth	64	64	64	64	35	35	35	35	5	5	5	5	30	30	30	30	30	5	5	5	5
			End Depth	74	74	74	74	45	45	45	45	10	10	10	10	40	40	40	40	40	15	15	15	15
			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	07/18/19	10/09/19	01/17/20	07/31/20	08/08/19	12/10/19	01/17/20	07/30/20	07/22/19	10/23/19	02/10/20	08/04/20	07/22/19	10/23/19	10/23/2019	02/10/20	08/04/20	07/08/19	11/04/19	01/10/20	08/27/20
			Parent Sample Code															BBMW-22I						
			Validation Level	Level 2	Level 4	Level 2	Level 4	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	Level 4	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**																					
BTEX	µg/L																							
Benzene		71-43-2	1	**15**	**12**	**13**	**13**	1 U	1 U	1 U	1 U	**20**	**19**	**17**	**22**	**35**	**37**	**37**	**38**	**36**	**28**	**23**	**55**	**7.6**
Toluene		108-88-3	5	**270**	**220**	**360**	**270**	1 U	1 U	1 U	1 U	**4.8 J**	**4.6 J**	**4.1 J**	**3.8 J**	**7**	**6.2**	**6.2**	**6.3**	**5.8**	**1.6**	**0.75 J**	**1.5**	**0.46 J**
Ethylbenzene		100-41-4	5	**76**	**70**	**120**	**90**	**0.44 J**	1 U	1 U	1 U	**1800**	**1500**	**1800**	**1400**	**140**	**180**	**190**	**170**	**140**	**31**	**1.3**	**31**	**0.58 J**
Total Xylene		1330-20-7	5	**620**	**540**	**930**	**690**	2 U	**0.81 J**	**0.71 J**	**1 J**	**1100**	**870**	**750**	**670**	**97**	**130**	**130**	**120**	**100**	**16**	**1.6 J**	**7.4**	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	**981**	**842**	**1423**	**1063**	**0.44**	**0.81**	**0.71**	**1**	**2924.8**	**2393.6**	**2571.1**	**2095.8**	**279**	**353.2**	**363.2**	**334.3**	**281.8**	**76.6**	**26.65**	**94.9**	**8.64**
PAH17	µg/L																							
Acenaphthene		83-32-9	20*	200 U	200 U	500 U	200 U	10 U	**2.9 J**	**4.1 J**	**2.3 J**	**120**	**96**	**100**	**43**	**200**	**160**	**140**	**220**	**160**	**38**	**34**	**57**	**38**
Acenaphthylene		208-96-8	NE	**73 J**	**59 J**	**83 J**	**94 J**	10 U	**18**	**37**	**8.4 J**	**2.5 J**	50 U	100 U	**1.1 J**	200 U	100 U	100 U	200 U	50 U	**1.4 J**	**1.2 J**	**1.6 J**	**1 J**
Anthracene		120-12-7	50*	200 U	200 U	500 U	200 U	**0.99 J**	**2.3 J**	**2.2 J**	**2.3 J**	**8.9 J**	**7 J**	100 U	**1.1 J**	200 U	100 U	100 U	200 U	**4.8 J**	**1.7 J**	**1 J**	**2.1 J**	10 U
Benzo(a)anthracene		56-55-3	0.002*	20 U	20 U	50 U	20 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	20 U	10 U	10 U	20 U	5 U	1 U	1 U	1 U	1 U*
Benzo(b)fluoranthene		205-99-2	0.002*	40 U	40 U	100 U	40 U	2 U	2 U	2 U	2 U	2 U	10 U	20 U	2 U	40 U	20 U	20 U	40 U	10 U	2 U	2 U*	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	20 U	20 U	50 U	20 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	20 U	10 U	10 U	20 U	5 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	200 U	200 UJ	500 U	200 U	10 U	10 U	10 U	10 U	10 U	50 U	100 U	10 U	200 U	100 U	100 U	200 U	50 U	10 U	10 U*	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	20 U	20 U	50 U	20 U	1 U	1 U	1 U	1 U	**0.45 J**	5 U	10 U	1 U	20 U	10 U	10 U	20 U	5 U	1 U	1 U*	1 U	1 U
Chrysene		218-01-9	0.002*	40 U	40 U	100 U	40 U	2 U	2 U	2 U	2 U	2 U	10 U	20 U	2 U	40 U	20 U	20 U	40 U	10 U	2 U	2 U	2 U	2 U*
Dibenz(a,h)anthracene		53-70-3	NE	20 U	20 UJ	50 U	20 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	1 U	20 U	10 U	10 U	20 U	5 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	200 U	200 U	500 U	200 U	10 U	10 U	10 U	10 U	**2.5 J**	50 U	100 U	**1.5 J**	200 U	100 U	100 U	200 U	50 U	**2 J**	**1.4 J**	**1.6 J**	**1.3 J**
Fluorene		86-73-7	50*	200 U	200 U	500 U	200 U	**3.7 J**	**10**	**11**	**9.7 J**	**45**	**41 J**	**34 J**	**7.6 J**	**46 J**	**43 J**	**35 J**	**58 J**	**35 J**	**25**	**21**	**38**	**13**
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	40 U	40 UJ	100 U	40 U	2 U	2 U	2 U	2 U	2 U	10 U	20 U	2 U	40 U	20 U	20 U	40 U	10 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	**170 J**	**160 J**	**240 J**	**190 J**	10 U	10 U	**58**	10 U	**140**	**280**	**380**	10 U	**1200**	**880**	**760**	**1400**	**550**	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	**1500**	**1400**	**2100**	**2100**	10 U	10 U	**87**	2 U	**5.7 J**	**410**	**1400**	2 U	**2400**	**1500**	**1400**	**2500**	**630**	**7.5 J**	10 U	**3 J**	2 U
Phenanthrene		85-01-8	50*	**20 J**	**20 J**	500 U	**21 J**	**2 J**	**11**	**12**	**11**	**42**	**37 J**	**31 J**	10 U	**48 J**	**39 J**	**34 J**	**57 J**	**30 J**	**8.5 J**	**12**	**30**	10 U
Pyrene		129-00-0	50*	200 U	200 U	500 U	200 U	10 U	10 U	10 U	10 U	**4.9 J**	50 U	100 U	**2.3 J**	200 U	100 U	100 U	200 U	50 U	**2.6 J**	**1.7 J**	**2.7 J**	**2.2 J**
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**1763**	**1639**	**2423**	**2405**	**6.69**	**44.2**	**211.3**	**33.7**	**371.95**	**871**	**1945**	**56.6**	**3894**	**2622**	**2369**	**4235**	**1409.8**	**86.7**	**72.3**	**136**	**55.5**
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	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
				Sample Name	BBMW-34I	BBMW-34I	BBMW-34I	BBMW-34I	BBMW-37S	BBMW-37S	BBMW-37S	BBMW-37S	BBMW-37I	BBMW-38S	BBMW-38S	DUP-07	BBMW-38S	BBMW-38S	DUP-08	BBMW-39S	BBMW-39S	BBMW-39S	BBMW-39S	BBMW-39I	BBMW-39I
				Start Depth	25	25	25	25	5	5	5	5	20	5	5	5	5	5	5	5	5	5	5	25	25
				End Depth	30	30	30	30	10	10	10	10	30	15	15	15	15	15	15	15	15	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	07/08/19	11/04/19	01/10/20	08/27/20	08/16/19	12/09/19	02/11/20	08/31/20	08/31/20	07/15/19	12/04/19	12/04/19	01/14/20	08/31/20	8/31/2020	07/08/19	11/04/19	01/10/20	08/27/20	07/08/19	08/27/20
				Parent Sample Code												BBMW-38S			BBMW-38S						
				Validation Level	Level 2	Level 2	Level 4	Level 2	Level 4	Level 2	Level 2	Level 4	Level 4	Level 4	Level 2	Level 2	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	**33**	**39**	**29**	**28**	1 U	1 U	1 U	1 U	1 U	**9.2**	**11**	**9.8**	**9.5**	**21**	**21**	**9.1**	**34**	**51**	**36**	1 U	1 U
Toluene		108-88-3	5	**3.3**	**3.1**	**3.3**	**3**	**0.47 J**	1 U	1 U	1 U	1 U	**1**	**0.85 J**	**0.85 J**	**0.57 J**	**2.4**	**2.5**	1 U	1 U	1 U	**0.63 J**	1 U	1 U
Ethylbenzene		100-41-4	5	**410**	**340**	**340**	**460**	**3.3**	**0.67 J**	**1.3**	**3.3**	1 U	**160**	**120**	**120**	**64**	**190**	**180**	**12**	**13**	**17**	**25**	1 U	1 U
Total Xylene		1330-20-7	5	**250**	**230**	**230**	**250**	**18**	**3**	**5**	**18**	**1.2 J**	**50**	**26**	**29**	**14**	**43**	**44**	**6.5**	**5.8**	**5.5**	**11**	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	**696.3**	**612.1**	**602.3**	**741**	**21.77**	**3.67**	**6.3**	**21.3**	**1.2**	**220.2**	**157.85**	**159.65**	**88.07**	**256.4**	**247.5**	**27.6**	**52.8**	**73.5**	**72.63**	ND	ND
PAH17	µg/L																								
Acenaphthene		83-32-9	20*	**130**	**110**	**99 J**	**110**	10 U	10 U	**2.3 J**	**4.8 J**	10 U	**2.2 J**	**1.2 J**	**1.1 J**	**1.8 J**	**2.9 J**	**2.8 J**	**4.1 J**	**3 J**	**5.7 J**	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	50 U	100 U	100 U	50 U	10 U	10 U	10 U	**2.7 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
Anthracene		120-12-7	50*	**11 J**	**8.4 J**	**7.2 J**	**8.4 J**	10 U	10 U	10 U	10 U	10 U	**0.98 J**	10 U	10 U	10 U	**0.95 J**	**0.88 J**	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	5 U	10 U	10 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*	1 U	1 U*
Benzo(b)fluoranthene		205-99-2	0.002*	10 U	20 U*	20 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	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	5 U	10 U	10 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	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	50 U	100 U*	100 U	50 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 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	5 U	10 U*	10 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	1 U	1 U
Chrysene		218-01-9	0.002*	10 U	20 U	20 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*	2 U	2 U*
Dibenz(a,h)anthracene		53-70-3	NE	5 U	10 U	10 UJ	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	1 U	1 U
Fluoranthene		206-44-0	50*	50 U	100 U	100 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	10 U	10 U
Fluorene		86-73-7	50*	**62**	**51 J**	**42 J**	**52**	10 U	10 U	**1.9 J**	**1.7 J**	10 U	**3.5 J**	**1.3 J**	**1.9 J**	**1.8 J**	**4.6 J**	**4.3 J**	**1.5 J**	10 U	**2.5 J**	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	10 U	20 U	20 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	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	**790**	**970**	**850**	**330**	10 U	10 U	10 U	**22**	**3.1 J**	**20**	10 U	10 U	**9 J**	**16**	**28**	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	**410**	**810**	**790**	**51**	**1.9 J**	**3.7 J**	**9.4 J**	**55**	**10**	**75**	10 U	10 U	**47**	**31**	**140**	10 U	**13**	**23**	2 U	10 U	2 U
Phenanthrene		85-01-8	50*	**67**	**51 J**	**47 J**	**29 J**	10 U	10 U	10 U	**0.66 J**	10 U	**4.3 J**	10 U	**1.1 J**	**1.6 J**	**4.3 J**	**4.6 J**	10 U	10 U	**0.7 J**	10 U	10 U	10 U
Pyrene		129-00-0	50*	50 U	100 U	100 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1.7 J**	**1.7 J**	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**1470**	**2000.4**	**1835.2**	**580.4**	**1.9**	**3.7**	**13.6**	**86.86**	**13.1**	**105.98**	**2.5**	**4.1**	**61.2**	**61.45**	**182.28**	**5.6**	**16**	**31.9**	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	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	BBMW-40S	BBMW-40S	BBMW-40S	BBMW-40S	BBMW-41S	BBMW-41S	BBMW-41S	BBMW-41S	BBMW-41I	Dup-02	BBMW-41I	BBMW-41I	BBMW-41I	BBMW-42S	BBMW-42S	BBMW-42S	BBMW-42S	MW-03S	MW-03S	MW-05S	MW-05S
			Start Depth	5	5	5	5	6	6	6	6	25	25	25	25	25	5	5	5	5	3	3	4	4
			End Depth	15	15	15	15	16	16	16	16	30	30	30	30	30	10	10	10	10	13	13	14	14
			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	07/15/19	11/04/19	01/14/20	08/31/20	07/08/19	10/10/19	01/14/20	08/31/20	07/08/19	07/08/19	10/10/19	01/14/20	08/31/20	08/08/19	12/09/19	02/12/20	09/01/20	08/16/19	08/10/20	07/18/19	10/09/19
			Parent Sample Code										BBMW-41I											
			Validation Level	Level 4	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	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	**11**	1 U	**5.3**	**6.8**	10 U	5 U	5 U	**1 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**7.3**	**13**
Toluene		108-88-3	5	**5.9**	1 U	**1.1**	**0.85 J**	**8.4 J**	**4.7 J**	**4.8 J**	**3.6 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.6 J**	**0.84 J**
Ethylbenzene		100-41-4	5	**1700**	**11**	**310**	**280**	**2800**	**1600**	**1300**	**1700**	1 U	1 U	1 U	1 U	1 U	**1.3**	**1.3**	**1.2**	**1.1**	1 U	1 U	**660**	**700**
Total Xylene		1330-20-7	5	**670**	**4.4**	**120**	**110**	**2100**	**1200**	**870**	**2000**	2 U	2 U	2 U	2 U	2 U	**3 J**	**2.9**	**2.6**	**1.8 J**	2 U	2 U	**470**	**510**
Total BTEX (ND=0)		TBTEX_ND0	NE	**2386.9**	**15.4**	**436.4**	**397.65**	**4908.4**	**2804.7**	**2174.8**	**3704.6**	ND	ND	ND	ND	ND	**4.3**	**4.2**	**3.8**	**2.9**	ND	ND	**1138.9**	**1223.84**
PAH17	µg/L																							
Acenaphthene		83-32-9	20*	**92 J**	**29**	**19 J**	**41 J**	250 U	100 U	50 U	250 U	10 U	10 U	10 U	10 U	10 U	10 U	**22**	**23 J**	10 U	10 U	10 U	**16**	**24**
Acenaphthylene		208-96-8	NE	500 U	10 U	20 U	50 U	250 U	100 U	50 U	250 U	10 U	10 U	10 U	10 U	10 U	10 U	**3.1 J**	100 U	10 U	10 U	10 U	**1.1 J**	10 U
Anthracene		120-12-7	50*	500 U	10 U	20 U	50 U	250 U	100 U	50 U	250 U	10 U	10 U	10 U	10 U	10 U	10 U	**2.3 J**	100 U	10 U	10 U	10 U	**1.9 J**	**5.4 J**
Benzo(a)anthracene		56-55-3	0.002*	50 U	1 U	2 U	5 U	25 U	10 U	5 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.8**	10 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	100 U	2 U*	4 U	10 U	50 U	20 U	10 U	50 U	2 U	2 U	2 U	2 U	2 U	**1.3 J**	**1.2 J**	20 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	50 U	1 U	2 U	5 U	25 U	10 U	5 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	500 UJ	10 U*	20 U	50 U	250 U	100 U	50 U	250 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	50 U	1 U*	2 U	5 U	25 U	10 U	5 U	25 U	1 U	1 U	1 U	1 U	1 U	**2**	**1.6**	10 U	**0.8 J**	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	100 U	2 U	4 U	10 U	50 U	20 U	10 U	50 U	2 U	2 U	2 U	2 U	2 U	2 U	**1.9 J**	20 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	50 U	1 U	2 U	5 U	25 U	10 U	5 U	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	500 U	10 U	20 U	50 U	250 U	100 U	50 U	250 U	10 U	10 U	10 U	10 U	10 U	10 U	**2.7 J**	100 U	10 U	10 U	10 U	**1.5 J**	**1.9 J**
Fluorene		86-73-7	50*	500 U	**4.9 J**	**4.2 J**	**7.3 J**	250 U	100 U	50 U	250 U	10 U	10 U	10 U	10 U	10 U	10 U	**10**	100 U	10 U	10 U	10 U	**14**	**26**
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	100 U	2 U	4 U	10 U	50 U	20 U	10 U	50 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	**190 J**	**4.9 J**	**58**	**48 J**	**110 J**	**78 J**	**62**	**65 J**	10 U	10 U	10 U	10 U	10 U	10 U	**9.3 J**	100 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	**1600**	**1.1 J**	**280**	**300**	**1700**	**1400**	**590**	**1600**	10 U	10 U	10 U	10 U	2 U	10 U	**16**	**11 J**	2 U	10 U	2 U	10 U	10 U
Phenanthrene		85-01-8	50*	500 U	10 U	**1.4 J**	50 U	250 U	100 U	**3.8 J**	250 U	10 U	10 U	10 U	10 U	10 U	10 U	**2.6 J**	100 U	10 U	10 U	10 U	10 U	**27**
Pyrene		129-00-0	50*	500 U	10 U	20 U	50 U	250 U	100 U	50 U	250 U	10 U	10 U	10 U	10 U	10 U	10 U	**6.8 J**	100 U	10 U	10 U	10 U	**2.1 J**	**2.1 J**
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**1882**	**39.9**	**362.6**	**396.3**	**1810**	**1478**	**655.8**	**1665**	ND	ND	ND	ND	ND	**3.3**	**81.3**	**34**	**0.8**	ND	ND	**36.6**	**86.4**
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	OU1	OU1	OU1	OU1	OU1	OU1	OU1
				Sample Name	MW-05S	MW-05S	MW-05D	MW-05D	MW-05D	DUP-02	MW-05D	OU1PZ-101	OU1PZ-101	OU1PZ-101	OU1PZ-101	OU1PZ-102	OU1PZ-102	OU1PZ-102	OU1PZ-102	Dup-02	OU1PZ-103	OU1PZ-103	OU1PZ-103	OU1PZ-103	OU1PZ-104
				Start Depth	4	4	35.5	35.5	35.5	35.5	35.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
				End Depth	14	14	45.5	45.5	45.5	45.5	45.5	14	14	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	ft	ft	ft	ft	ft	ft	ft	ft	ft
				Sample Date	01/15/20	07/31/20	07/18/19	10/09/19	01/15/20	1/15/2020	07/31/20	07/10/19	12/03/19	01/08/20	07/30/20	07/10/19	12/03/19	01/08/20	07/30/20	7/30/2020	08/08/19	12/10/19	01/17/20	07/30/20	08/08/19
				Parent Sample Code						MW-05D										OU1PZ-102					
				Validation Level	Level 2	Level 4	Level 2	Level 4	Level 2	Level 2	Level 4	Level 4	Level 2	Level 2	Level 4	Level 4	Level 2	Level 2	Level 4	Level 4	Level 4	Level 2	Level 2	Level 4	Level 4
Analyte	**Units**	**CAS no.**	**NYS AWQS**																						
BTEX	µg/L																								
Benzene		71-43-2	1	**4.1**	**11**	1 U	1 U	1 U	1 U	1 U	10 U	5 U	5 U	5 U	**4.2**	1 U	1 U	**1.2**	**1.3**	**0.51 J**	**0.65 J**	**1.4**	5 U	1 U
Toluene		108-88-3	5	2 U	2 U	**0.49 J**	1 U	1 U	1 U	1 U	**5.6 J**	**3.2 J**	5 U	5 U	**3.2**	1 U	1 U	**0.95 J**	**1**	**5.1**	**2.3**	**3.6**	**9.4**	1 U
Ethylbenzene		100-41-4	5	**460**	**590**	**8.4**	**11**	**10**	**9.9**	**17**	**2300**	**1600**	**800**	**1500**	**79**	**3.1**	1 U	**29**	**31**	**360**	**86**	**160**	**830**	1 U
Total Xylene		1330-20-7	5	**340**	**390**	**8.3**	**12**	**6.8**	**6.7**	**9.7**	**270**	**230**	**120**	**180**	**45**	**2.5**	2 U	**18**	**21**	**140**	**35**	**50**	**170**	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	**804.1**	**991**	**17.19**	**23**	**16.8**	**16.6**	**26.7**	**2575.6**	**1833.2**	**920**	**1680**	**131.4**	**5.6**	ND	**49.15**	**54.3**	**505.61**	**123.95**	**215**	**1009.4**	ND
PAH17	µg/L																								
Acenaphthene		83-32-9	20*	**38 J**	**48**	**180**	**180**	**180**	**210**	**220**	**12 J**	**12 J**	**11 J**	**12 J**	**6.6 J**	10 U	10 U	**4.1 J**	**2.9 J**	**4.8 J**	**6 J**	**20**	**11 J**	10 U
Acenaphthylene		208-96-8	NE	**4.8 J**	**2.4 J**	**18 J**	**18 J**	**12 J**	**14 J**	**15 J**	100 U	50 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Anthracene		120-12-7	50*	**5.1 J**	**6.8 J**	**4.3 J**	**6.5 J**	**6.3 J**	**8.2 J**	**7.1 J**	100 U	50 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	**1.3 J**	**3 J**	40 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	5 U	1 U	5 U	10 U	5 U	5 U	10 U	10 U	5 U	2 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	10 U	2 U	10 U	20 U	10 U	10 U	20 U	20 U	10 U	4 U*	10 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	8 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	5 U	1 U	5 U	10 U	5 U	5 U	10 U	10 U	5 U	2 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	50 U	10 U	50 U	100 UJ	50 U	50 U	100 U	100 U	50 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Benzo(a)pyrene		50-32-8	ND	5 U	1 U	5 U	10 U	5 U	5 U	10 U	10 U	5 U	2 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U
Chrysene		218-01-9	0.002*	10 U	2 U	10 U	20 U	10 U	10 U	20 U	20 U	10 U	4 U	10 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	8 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	5 U	1 U	5 U	10 UJ	5 U	5 U	10 U	10 U	5 U	2 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	4 U	1 U
Fluoranthene		206-44-0	50*	50 U	**2.2 J**	50 U	100 U	50 U	50 U	100 U	100 U	50 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U	**0.85 J**	10 U	**1 J**	40 U	10 U
Fluorene		86-73-7	50*	**22 J**	**32**	**42 J**	**45 J**	**39 J**	**44 J**	**49 J**	100 U	**7.3 J**	**6.4 J**	**7.3 J**	**1.3 J**	10 U	10 U	**1.2 J**	10 U	**1.3 J**	**2.5 J**	**6.6 J**	**4.7 J**	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	10 U	2 U	10 U	20 UJ	10 U	10 U	20 U	20 U	10 U	4 U	10 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	8 U	2 U
2-Methylnaphthalene		91-57-6	NE	**150**	10 U	**650**	**880**	**750**	**840**	**990**	**34 J**	**34 J**	**27**	**29 J**	10 U	10 U	10 U	10 U	10 U	10 U	**9.5 J**	**11**	**12 J**	10 U
Naphthalene		91-20-3	10*	**340**	2 U	**120**	**320**	**190**	**210**	**240**	**860**	**560**	**320**	**460 J**	**4 J**	10 U	10 U	**1.4 J**	2 U	10 U	**130**	**120**	**280**	10 U
Phenanthrene		85-01-8	50*	**25 J**	**40**	**33 J**	**39 J**	**35 J**	**41 J**	**43 J**	**6.7 J**	**6.4 J**	**5.2 J**	**6.9 J**	10 U	10 U	10 U	10 U	10 U	10 U	**5 J**	**11**	**6.1 J**	10 U
Pyrene		129-00-0	50*	50 U	**2.5 J**	50 U	100 U	50 U	50 U	100 U	100 U	50 U	20 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**584.9**	**133.9**	**1047.3**	**1488.5**	**1212.3**	**1367.2**	**1564.1**	**912.7**	**619.7**	**369.6**	**515.2**	**11.9**	ND	ND	**6.7**	**2.9**	**6.95**	**154.3**	**172.6**	**313.8**	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
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			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	OU1PZ-104	OU1PZ-104	OU1PZ-105	OU1PZ-105	OU1PZ-105	OU1PZ-105	OU2MW-50S	OU2MW-50S	Dup-01	OU2MW-50S	OU2MW-50S	OU2MW-50I	OU2MW-50I	OU2MW-50I	OU2MW-50I	DUP-01	OU2MW-50I2	OU2MW-50I2	OU2MW-50I2	OU2MW-50I2	OU2MW-50D
			Start Depth	4	4	4	4	4	4	5	5	5	5	5	25	25	25	25	25	45	45	45	45	65
			End Depth	14	14	14	14	14	14	15	15	15	15	15	30	30	30	30	30	50	50	50	50	70
			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	12/10/19	07/30/20	07/31/19	12/03/19	01/08/20	07/30/20	07/03/19	10/07/19	10/7/2019	01/07/20	07/28/20	07/03/19	10/07/19	01/07/20	07/28/20	7/28/2020	07/03/19	10/07/19	01/07/20	07/28/20	07/03/19
			Parent Sample Code									OU2MW-50S							OU2MW-50I					
			Validation Level	Level 2	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 4	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**																					
BTEX	µg/L																							
Benzene		71-43-2	1	1 U	**1.4**	**1.2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	**1.1**	**0.46 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	**4.6**	**20**	**15**	**19**	**16**	1 U	1 U	1 U	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	**5.9**	**20**	**11**	**17**	**13**	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	**13**	**41.66**	**26**	**36**	**29**	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	**1.8 J**	**3.1 J**	**2.9 J**	**3.1 J**	**3.1 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	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*	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
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	**1.8 J**	**1.8 J**	**1.8 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	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	**12**	**22**	**21**	**13**	10 U	10 U	10 U	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*	10 U	2 U	**71**	**72**	**76**	**50**	10 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	2 U	10 U	10 U	10 U	2 U	10 U
Phenanthrene		85-01-8	50*	10 U	10 U	**1.3 J**	**2 J**	**1.5 J**	**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	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	**1.8**	**89.2**	**100.7**	**103.4**	**69.4**	ND	ND	ND	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
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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	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	OU2MW-50D	OU2MW-50D	OU2MW-50D	OU2MW-57S	OU2MW-57S	OU2MW-57S	OU2MW-57S	OU2MW-57I	OU2MW-57I	OU2MW-57I	OU2MW-57I	OU2MW-57I2	OU2MW-57I2	OU2MW-57I2	OU2MW-57I2	OZMW-16S	OZMW-16S	OZMW-16S	OZMW-16S	OZMW-16I	OZMW-16I
			Start Depth	65	65	65	5	5	5	5	20	20	20	20	35	35	35	35	5	5	5	5	20	20
			End Depth	70	70	70	15	15	15	15	30	30	30	30	45	45	45	45	15	15	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	10/07/19	01/07/20	07/28/20	07/30/19	10/08/19	01/08/20	08/07/20	07/30/19	10/08/19	01/08/20	08/07/20	07/30/19	10/08/19	01/08/20	08/07/20	07/02/19	10/01/19	01/06/20	08/03/20	07/02/19	10/01/19
			Parent Sample Code																					
			Validation Level	Level 2	Level 2	Level 4	Level 2	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 4	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 U	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	**3.9**	**4.6**	**5**	**3.4**	1 U	1 U	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	**4.5**	**3.1 J**	**5.1**	**3.3**	**0.76 J**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	**8.4**	**7.7**	**10.1**	**6.7**	**0.76**	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	**5.1 J**	**6.2 J**	**4.7 J**	10 U	**1.9 J**	**2.3 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	**12**	**15**	**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
Anthracene		120-12-7	50*	10 U	10 U	10 U	**0.66 J**	**2.9 J**	**1.1 J**	10 U	**1.7 J**	**1.9 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
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*	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
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	**0.92 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	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	**3.7 J**	**7.3 J**	**4.3 J**	10 U	**6.6 J**	**7.3 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
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*	10 U	10 U	2 U	10 U	**12**	**19**	2 U	**4 J**	**2.3 J**	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	**12**	**5.1 J**	10 U	**6.3 J**	**5.8 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
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	**9.46**	**41.32**	**34.2**	ND	**32.5**	**34.6**	**1.4**	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	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	OZMW-16I	OZMW-16I	OZMW-16I2	OZMW-16I2	OZMW-16I2	OZMW-16I2	DUP-03	OZMW-16D	OZMW-16D	OZMW-16D	OZMW-16D	OZMW-17S	OZMW-17S	OZMW-17S	OZMW-17S	OZMW-17I	OZMW-17I	OZMW-17I	OZMW-17I	OZMW-17I2	OZMW-17I2
			Start Depth	20	20	35	35	35	35	35	55	55	55	55	5	15	5	15	20	30	20	30	35	35
			End Depth	30	30	45	45	45	45	45	65	65	65	65	15	15	15	15	30	30	30	30	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	01/06/20	08/03/20	07/02/19	10/01/19	01/06/20	08/03/20	8/3/2020	07/02/19	10/01/19	01/06/20	08/03/20	07/09/19	10/02/19	01/06/20	08/03/20	07/09/19	10/02/19	01/06/20	08/06/20	07/09/19	10/02/19
			Parent Sample Code							OZMW-16I2														
			Validation Level	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 4	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	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	**0.66 J**	**1.1 J**	**1.2 J**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	**0.66**	**1.1**	**1.2**	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*	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
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*	10 U	2 U	10 U	10 U	10 U	2 U	2 U	10 U	10 U	10 U	2 U	10 U*	10 U	10 U	2 U	10 U*	10 U	10 U	2 U	10 U*	10 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																					

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	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	OZMW-17I2	OZMW-17I2	OZMW-17D	OZMW-17D	OZMW-17D	OZMW-17D	OZMW-18S	OZMW-18S	OZMW-18S	OZMW-18S	OZMW-18I	OZMW-18I	OZMW-18I	OZMW-18I	OZMW-18I2	OZMW-18I2	OZMW-18I2	OZMW-18I2	OZMW-18D	OZMW-18D	OZMW-18D
			Start Depth	35	35	53	53	53	53	5	5	5	5	20	20	20	20	35	35	35	35	55	55	55
			End Depth	45	45	63	63	63	63	15	15	15	15	30	30	30	30	45	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	ft	ft
			Sample Date	01/06/20	08/06/20	07/09/19	10/02/19	01/06/20	08/06/20	07/09/19	10/02/19	01/07/20	08/10/20	07/09/19	10/02/19	01/07/20	08/10/20	07/09/19	10/02/19	01/07/20	08/10/20	07/09/19	10/02/19	01/07/20
			Parent Sample Code																					
			Validation Level	Level 4	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	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 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.71 J**	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	**1.2**	**35**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**12**	**4.9**	**5.9**
Ethylbenzene		100-41-4	5	1 U	1 U	**3.1**	**7.5**	**60**	**3**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.42 J**	1 U	**13**	**9.2**	**6.4**
Total Xylene		1330-20-7	5	2 U	2 U	**24**	**64**	**500**	**25**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**0.68 J**	2 U	**66**	**53**	**43**
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	**27.1**	**72.7**	**595**	**28**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.1**	ND	**91.71**	**67.1**	**55.3**
PAH17	µg/L																							
Acenaphthene		83-32-9	20*	10 U	10 U	50 U	**3.6 J**	100 U	**2.1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1.4 J**	**1.7 J**	10 U	**7.2 J**	100 U	**5 J**
Acenaphthylene		208-96-8	NE	10 U	10 U	**44 J**	**29**	**110**	**19**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**56**	**45 J**	**32**
Anthracene		120-12-7	50*	10 U	10 U	50 U	20 U	100 U	**0.64 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	50 U	100 U	20 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	5 U	2 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	2 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	10 U	4 U*	20 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	10 U	20 U*	4 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	5 U	2 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	10 U	2 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	50 U	20 U	100 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	50 U	100 U	20 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	5 U	2 U*	10 U	1 U	1 U	1 U*	1 U	1 U	1 U	1 U*	1 U	1 U	1 U	1 U*	1 U	1 U	1 U	5 U	10 U*	2 U
Chrysene		218-01-9	0.002*	2 U	2 U*	10 U	4 U	20 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	10 U	20 U	4 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	5 U	2 U	10 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	5 U	10 U	2 U
Fluoranthene		206-44-0	50*	10 U	10 U	50 U	20 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	100 U	20 U
Fluorene		86-73-7	50*	10 U	10 U	**6.9 J**	**3.9 J**	**16 J**	**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	10 U	10 U	50 U	100 U	20 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	10 U	4 U	20 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	10 U	20 U	4 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	**34 J**	**33**	**150**	**14**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**12 J**	**17 J**	**15 J**
Naphthalene		91-20-3	10*	10 U	2 U	**360 ***	**200**	**1200**	**97**	10 U*	10 U	10 U	2 U	10 U*	10 U	10 U	2 U	10 U*	10 U	10 U	2 U	**620 ***	**590**	**310**
Phenanthrene		85-01-8	50*	10 U	10 U	**15 J**	**3.3 J**	**11 J**	**3.8 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	**11 J**	**8.8 J**	**2.8 J**
Pyrene		129-00-0	50*	10 U	10 U	50 U	20 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	100 U	20 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	**459.9**	**272.8**	**1487**	**138.94**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.4**	**1.7**	ND	**706.2**	**660.8**	**364.8**
Other																								
Sulfate	µg/L	14808-79-8	250000			**38200**	**27100**	**26600**	**32000**														**35600**	**36400**	**34500**

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	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	OZMW-18D	OZMW-19S	OZMW-19S	OZMW-19S	OZMW-19S	OZMW-19I	OZMW-19I	OZMW-19I	DUP-06	OZMW-19I	OZMW-19I2	OZMW-19I2	OZMW-19I2	OZMW-19I2	OZMW-19D	OZMW-19D	OZMW-19D	OZMW-19D	OZMW-21I2	OZMW-21I2	OZMW-21I2
			Start Depth	55	5	5	5	5	20	20	20	20	20	35	35	35	35	55	55	55	55	35	35	35
			End Depth	65	15	15	15	15	30	30	30	30	30	45	45	45	45	65	65	65	65	45	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	08/10/20	07/02/19	11/12/19	02/06/20	07/28/20	07/02/19	11/12/19	02/06/20	2/6/2020	07/28/20	07/02/19	11/12/19	02/06/20	07/28/20	07/02/19	11/12/19	02/06/20	07/28/20	07/31/19	10/23/19	02/06/20
			Parent Sample Code									OZMW-19I												
			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 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	**2.2**	1 U	1 U	**0.54 J**	1 U	**1.9**	**17**	**5.7**	**5.7**	**4.4**	**13**	**9.3**	**6.8**	**10**	1 U	1 U	1 U	1 U	**1.1**	**1.3**	1 U
Toluene		108-88-3	5	**49**	1 U	**0.67 J**	**1.2**	1 U	**0.57 J**	**0.73 J**	**1.1**	**1.1**	**0.54 J**	**5**	**0.77 J**	**2**	**1.1**	1 U	1 U	1 U	1 U	**1.2**	**1.2**	**0.68 J**
Ethylbenzene		100-41-4	5	**24**	**79**	**61**	**120**	**73**	**150**	**58**	**99**	**99**	**57**	**250**	**85**	**140**	**91**	1 U	1 U	1 U	1 U	**64**	**91**	**61**
Total Xylene		1330-20-7	5	**110**	**170**	**170**	**220**	**150**	**100**	**30**	**51**	**50**	**39**	**140**	**86**	**55**	**100**	2 U	2 U	2 U	2 U	**50**	**72**	**48**
Total BTEX (ND=0)		TBTEX_ND0	NE	**185.2**	**249**	**231.67**	**341.74**	**223**	**252.47**	**105.73**	**156.8**	**155.8**	**100.94**	**408**	**181.07**	**203.8**	**202.1**	ND	ND	ND	ND	**116.3**	**165.5**	**109.68**
PAH17	µg/L																							
Acenaphthene		83-32-9	20*	**8.1 J**	10 U	**28**	**47**	**29**	**110**	**160**	**110**	**110**	**130**	**53**	**110 J**	**33**	**90**	10 U	**1.6 J**	10 U	10 U	**150 J**	**130**	**180 J**
Acenaphthylene		208-96-8	NE	**46 J**	**0.86 J**	**1.7 J**	**2.6 J**	**1.6 J**	**2 J**	100 U	**2.2 J**	**2.2 J**	**2.8 J**	**1.4 J**	250 U	**1.6 J**	50 U	10 U	10 U	10 U	10 U	500 U	**20 J**	**25 J**
Anthracene		120-12-7	50*	50 U	10 U	**3.8 J**	**7.3 J**	**2.5 J**	**6.6 J**	**13 J**	**7.8 J**	**8.2 J**	**8.3 J**	**3.1 J**	250 U	**3.4 J**	**4.4 J**	10 U	10 U	10 U	10 U	500 U	**7.2 J**	**13 J**
Benzo(a)anthracene		56-55-3	0.002*	5 U	1 U	1 U	2 U	**0.67 J**	1 U	10 U	1 U	1 U	1 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U	1 U	50 U	10 U	20 U
Benzo(b)fluoranthene		205-99-2	0.002*	10 U	2 U	2 U	4 U*	2 U	2 U	20 U	2 U*	2 U*	2 U	2 U	50 U	2 U*	10 U	2 U	2 U	2 U*	2 U	100 U	20 U	40 U*
Benzo(k)fluoranthene		207-08-9	0.002*	5 U	1 U	1 U	2 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U	1 U	50 U	10 U	20 U
Benzo(g,h,i)perylene		191-24-2	NE	50 U	10 U	10 U	20 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	250 U	10 U	50 U	10 U	10 U	10 U	10 U	500 U	100 U	200 U
Benzo(a)pyrene		50-32-8	ND	5 U	1 U	1 U	2 U*	1 U	1 U	10 U	1 U*	1 U*	1 U	1 U	25 U	1 U*	5 U	1 U	1 U	1 U*	1 U	50 U	10 U	20 U*
Chrysene		218-01-9	0.002*	10 U	2 U	2 U	4 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	50 U	2 U	10 U	2 U	2 U	2 U	2 U	100 U	20 U	40 U
Dibenz(a,h)anthracene		53-70-3	NE	5 U	1 U	1 U	2 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U	1 U	50 U	10 U	20 U
Fluoranthene		206-44-0	50*	50 U	10 U	**1.5 J**	**2.5 J**	**2.3 J**	**2.5 J**	100 U	**2.7 J**	**2.7 J**	**3.2 J**	**1.6 J**	250 U	**1.4 J**	50 U	10 U	10 U	10 U	10 U	500 U	100 U	200 U
Fluorene		86-73-7	50*	50 U	10 U	**18**	**28**	**13**	**45**	**70 J**	**44**	**46**	**62**	**10**	**29 J**	**3.5 J**	**19 J**	10 U	10 U	10 U	10 U	**52 J**	**42 J**	**58 J**
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	10 U	2 U	2 U	4 U	2 U	2 U	20 U	2 U	2 U	2 U	2 U	50 U	2 U	10 U	2 U	2 U	2 U	2 U	100 U	20 U	40 U
2-Methylnaphthalene		91-57-6	NE	**30 J**	10 U	**33**	**49**	10 U	10 U	**220**	**39**	**2.3 J**	10 U	10 U	**260**	**7 J**	**180**	10 U	10 U	10 U	10 U	**900**	**750**	**950**
Naphthalene		91-20-3	10*	**560**	10 U	**150**	**290**	**3.5**	**1.1 J**	**1200**	**13**	10 U	2 U	10 U	**1600**	**56**	**380**	10 U	10 U	10 U	2 U	**2400**	**1700**	**2100**
Phenanthrene		85-01-8	50*	**5.6 J**	10 U	**15**	**22**	10 U	**50**	**90 J**	**53**	**57**	**59**	**28**	**54 J**	**29**	**56**	10 U	**0.9 J**	10 U	10 U	**49 J**	**44 J**	**69 J**
Pyrene		129-00-0	50*	50 U	**1.7 J**	**1.7 J**	20 U	**3.6 J**	**4.3 J**	100 U	**4.1 J**	**4.1 J**	**5.2 J**	**2.5 J**	250 U	**2.3 J**	50 U	10 U	10 U	10 U	10 U	500 U	100 U	200 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**649.7**	**2.56**	**252.7**	**448.4**	**56.17**	**221.5**	**1753**	**275.8**	**232.5**	**270.5**	**99.6**	**2053**	**137.2**	**729.4**	ND	**2.5**	ND	ND	**3551**	**2693.2**	**3395**
Other																								
Sulfate	µg/L	14808-79-8	250000	**37700**																				

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	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
				Sample Name	OZMW-21I2	OZMW-22SR	OZMW-22SR	OZMW-22SR	OZMW-22SR	OZMW-23S	OZMW-23S	OZMW-23S	Dup-01	OZMW-23S	OZMW-23I	OZMW-23I	OZMW-23I	OZMW-23I	OZMW-23I2	OZMW-23I2	OZMW-23I2	OZMW-23I2	OZMW-23D	DUP-01	OZMW-23D
				Start Depth	35	5	5	5	5	5	5	5	5	5	20	20	20	20	35	35	35	35	55	55	55
				End Depth	45	15	15	15	15	15	15	15	15	15	30	30	30	30	45	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	ft	ft
				Sample Date	08/04/20	07/22/19	12/04/19	01/08/20	08/04/20	07/01/19	10/03/19	01/09/20	1/9/2020	08/13/20	07/01/19	10/03/19	01/09/20	/2020 10:40:00	2019 10:05:00	3/2019 1:35:00	01/09/20	08/13/20	07/01/19	7/1/2019	10/03/19
				Parent Sample Code									OZMW-23S											OZMW-23D	
				Validation Level	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 4	Level 4	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**																						
BTEX	µg/L																								
Benzene		71-43-2	1	1 U	1 U	1 U	**0.54 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	**0.53 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	**35**	**0.72 J**	1 U	1 U	1 U	**4.1**	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
Total Xylene		1330-20-7	5	**27**	**4.7**	**1.4 J**	**3.4**	**2.2**	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	**62.53**	**5.42**	**1.4**	**3.94**	**6.3**	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*	**160 J**	**3.7 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	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	**20 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	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**0.74 J**	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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*	40 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 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	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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	200 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U
Benzo(a)pyrene		50-32-8	ND	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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*	40 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
Dibenz(a,h)anthracene		53-70-3	NE	20 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 UJ	1 UJ	1 U
Fluoranthene		206-44-0	50*	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	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*	**45 J**	**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	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	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U	2 U	2 UJ	2 U	2 U	2 U	2 UJ	2 UJ	2 U
2-Methylnaphthalene		91-57-6	NE	**950**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**7 J**	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	**2700**	10 U	10 U	10 U	2 U	10 U	10 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	**11**	10 U	10 U	2 U	10 U	10 U	10 U
Phenanthrene		85-01-8	50*	**41 J**	**0.89 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	**2.8 J**	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	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	**3916**	**5.99**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**21.54**	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	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	OZMW-23D	OZMW-23D	OZMW-24S	OZMW-24S	OZMW-24S	OZMW-24S	OZMW-24I	OZMW-24I	OZMW-24I	OZMW-24I	OZMW-24I2	OZMW-24I2	OZMW-24I2	OZMW-24I2	OZMW-24D	OZMW-24D	OZMW-24D	OZMW-24D	OZMW-25S	OZMW-25S	OZMW-25S
			Start Depth	55	55	5	5	5	15	20	20	30	20	35	35	45	35	55	55	55	55	5	5	5
			End Depth	65	65	15	15	15	15	30	20	30	30	45	45	45	45	65	65	65	65	15	15	15
			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	01/09/20	08/13/20	07/01/19	10/07/19	01/09/20	08/31/20	07/01/19	10/07/19	01/09/20	08/31/20	07/01/19	10/07/19	01/09/20	08/31/20	07/01/19	10/07/19	01/09/20	08/31/20	07/22/19	10/09/19	01/29/20
			Parent Sample Code																					
			Validation Level	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 4	Level 2	Level 2	Level 4	Level 4	Level 2	Level 2	Level 4	Level 4	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 R	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	**1**	**0.86 J**	**0.65 J**	**7.7**	**23**	**27**
Toluene		108-88-3	5	1 U	1 U	1 R	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.47 J**	**0.4 J**	**0.4 J**	**0.5 J**	**87**	**92**	**67**	**53**	**3.1**	**2.6**	**3.2**
Ethylbenzene		100-41-4	5	1 U	1 U	1 R	**0.69 J**	**0.47 J**	1 U	1 U	1 U	1 U	1 U	**12**	**12**	**9.9**	**14**	**64**	**59**	**54**	**46**	**400**	**380**	**380**
Total Xylene		1330-20-7	5	2 U	2 U	2 R	**0.96 J**	2 U	2 U	2 U	2 U	2 U	2 U	**98**	**110**	**90**	**120**	**570**	**560**	**430**	**400**	**280**	**240**	**310**
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	**1.65**	**0.47**	ND	ND	ND	ND	ND	**110.47**	**122.4**	**100.3**	**134.5**	**722**	**712**	**551.86**	**499.65**	**690.8**	**645.6**	**720.2**
PAH17	µg/L																							
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	**28**	**12**	10 U	10 U	10 U	10 U	10 U	**96 J**	1000 U	500 U	**58 J**	200 U	250 U	500 U	500 U	**52**	**53**	**110**
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	**1.3 J**	10 U	**0.88 J**	10 U	10 U	10 U	10 U	**160 J**	**140 J**	500 U	**130 J**	**190 J**	**160 J**	**140 J**	**160 J**	**1 J**	**1.1 J**	**3 J**
Anthracene		120-12-7	50*	10 U	10 U	10 U	**1.7 J**	10 U	10 U	10 U	10 U	10 U	10 U	200 U	1000 U	500 U	500 U	200 U	250 U	500 U	500 U	**5.5 J**	**4.4 J**	**5.1 J**
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	20 U	100 U	50 U	50 U	20 U	25 U	50 U	50 U	1 U	1 U	2 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	40 U	200 U	100 U	100 U	40 U	50 U	100 U	100 U	2 U	2 U	4 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	20 U	100 U	50 U	50 U	20 U	25 U	50 U	50 U	1 U	1 U	2 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	200 U	1000 U	500 U	500 U	200 UJ	250 U	500 U	500 U	10 U	10 U	20 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	20 U	100 U	50 U	50 U	20 U	25 U	50 U	50 U	1 U	1 U	2 U
Chrysene		218-01-9	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	40 U	200 U	100 U	100 U	40 U	50 U	100 U	100 U	2 U	2 U	4 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 UJ	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	20 U	100 U	50 U	50 U	20 UJ	25 U	50 U	50 U	1 U	1 U	2 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	**0.95 J**	10 U	10 U	10 U	10 U	10 U	10 U	200 U	1000 U	500 U	500 U	200 U	250 U	500 U	500 U	**1.9 J**	**1.4 J**	20 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	**15**	**4.4 J**	10 U	10 U	10 U	10 U	10 U	**57 J**	1000 U	500 U	500 U	**40 J**	**41 J**	500 U	500 U	**37**	**33**	**41**
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 UJ	2 U	2 U	2 U	2 UJ	2 U	2 U	2 U	40 U	200 U	100 U	100 U	40 UJ	50 U	100 U	100 U	2 U	2 U	4 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	**670**	**610 J**	**620**	**430 J**	**510**	**480**	**440 J**	**440 J**	10 U	10 U	**230**
Naphthalene		91-20-3	10*	10 U	2 U	10 U	**4 J**	**6.4 J**	2 U	10 U	10 U	10 U	2 U	**3300**	**3500**	**3100**	**3100**	**2400**	**2000**	**2000**	**2100**	10 U	10 U	**130**
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	**1.8 J**	**1.7 J**	10 U	10 U	10 U	10 U	10 U	**52 J**	**97 J**	**40 J**	500 U	**52 J**	**48 J**	**38 J**	**37 J**	**29**	**28**	**35**
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	200 U	1000 U	500 U	500 U	200 U	250 U	500 U	500 U	**3 J**	**1.9 J**	20 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	**52.75**	**27.5**	**0.88**	ND	ND	ND	ND	**4335**	**4347**	**3760**	**3718**	**3192**	**2729**	**2618**	**2737**	**129.4**	**122.8**	**554.1**
Other																								
Sulfate	µg/L	14808-79-8	250000															**117000**	**104000**	**72900**	**97600**			

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-25S	OZMW-25I	OZMW-25I	OZMW-25I	OZMW-25I	OZMW-25I2	OZMW-25I2	OZMW-25I2	OZMW-25I2	OZMW-26I2	OZMW-26I2	OZMW-26I2	OZMW-26I2
			Start Depth	5	20	20	20	20	35	35	35	35	35	35	35	35
			End Depth	15	30	30	30	30	45	45	45	45	45	45	45	45
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	08/03/20	07/18/19	10/09/19	02/04/20	08/03/20	07/22/19	10/09/19	01/29/20	08/03/20	07/31/19	10/09/19	01/23/20	07/28/20
			Parent Sample Code													
			Validation Level	Level 2	4-Completnes	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**													
BTEX	µg/L															
Benzene		71-43-2	1	**16**	**20**	**27**	**29**	**27**	**0.73 J**	1 U	1 U	**0.3 J**	1 U	**4.6**	1 U	1 U
Toluene		108-88-3	5	**2.2**	**2**	**1.9**	**2.4**	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	**270**	**210**	**170**	**250**	**210**	**12**	**1.8**	1 U	**4.1**	1 U	**0.79 J**	1 U	1 U
Total Xylene		1330-20-7	5	**150**	**130**	**110**	**170**	**130**	**12**	**3.4 J**	**1.5 J**	**4.3**	2 U	**5.8 J**	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	**438.2**	**362**	**308.9**	**451.4**	**369**	**24.73**	**5.2**	**1.5**	**8.7**	ND	**11.19**	ND	ND
PAH17	µg/L															
Acenaphthene		83-32-9	20*	**36**	**120**	**120 J**	**140**	**120 J**	**24 J**	**17**	**12**	**13**	10 U	**8.4 J**	10 U	10 U
Acenaphthylene		208-96-8	NE	**0.86 J**	**18 J**	200 U	**12 J**	250 U	**41 J**	**40**	**40**	**34**	10 U	**1.7 J**	10 U	10 U
Anthracene		120-12-7	50*	**1.4 J**	**6.1 J**	200 U	**7.9 J**	250 U	**8.9 J**	**7.7 J**	**8.2 J**	**6.4 J**	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	5 U	20 U	10 U	25 U	5 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	40 U	20 U*	50 U	10 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	20 U	10 U	25 U	5 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 U	200 UJ	100 U	250 U	50 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	20 U	10 U*	25 U	5 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	40 U	20 U	50 U	10 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	5 U	20 UJ	10 U	25 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	**1.1 J**	50 U	200 U	100 U	250 U	50 U	**2.9 J**	**3.2 J**	**2.3 J**	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	**10**	**43 J**	**46 J**	**46 J**	**36 J**	**27 J**	**24**	**28**	**21**	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	10 U	40 UJ	20 U	50 U	10 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	**380**	**600**	**620**	**460**	**26 J**	**6.1 J**	**6 J**	**5.9 J**	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	**250**	**1400**	**1500**	**1000**	**230**	**61**	**26**	**23**	10 U	10 U	10 U	2 U
Phenanthrene		85-01-8	50*	**1.2 J**	**39 J**	**50 J**	**51 J**	**31 J**	**64**	**52**	**57**	**44**	10 U	**5 J**	10 U	10 U
Pyrene		129-00-0	50*	10 U	50 U	200 U	100 U	250 U	50 U	**3.7 J**	**4.5 J**	**3.2 J**	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**50.56**	**856.1**	**2216**	**2376.9**	**1647**	**420.9**	**214.4**	**184.9**	**152.8**	ND	**15.1**	ND	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
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
BBMW-01I	32.0 - 42.0	3	222	--	230	710	460	350	190	170	170	93	220
BBMW-01D	68.5 - 78.5	214	542	--	--	--	1,294	1,193	293	265	304	94	191
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
BBMW-23I	33.0 - 43.0	--	--	0	--	0	0	0	0	0	0	0	--
BBMW-23D	49.5 - 59.5	--	--	10	17	15	53	45	0	12	136	71	234
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)	Total BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2005			2006				2007				2008
		Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar
BBMW-01S	5.0 - 15.0	1,085	1,080	1,090	273	59	1,361	2,329	949	3,640	7,420	5,590	4,210
BBMW-01I	32.0 - 42.0	230	120	120	43	94	110	110	77	156	375	274	262
BBMW-01D	68.5 - 78.5	585	112	32	24	216	462	109	32	555	386	9	43
BBMW-23S	5.0 - 15.0	29,430	3,300	1,725	7,450	4,070	6,558	120	12,332	18,185	19,818	14,940	26,389
BBMW-23I	33.0 - 43.0	0	0	--	0	0	0	0	0	0	19	10	0
BBMW-23D	49.5 - 59.5	446	210	--	729	467	509	579	519	96	1,324	660	493
BBMW-23D2	63.0 - 73.0	--	--	--	0	--	--	--	0	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 4-4. 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											
		2008			2009				2010				2011
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
BBMW-01S	5.0 - 15.0	3,022	1,251	797	284	43	29	187	23	38	4	11	2
BBMW-01I	32.0 - 42.0	64	57	36	47	66	29	19	76	11	0	3	1
BBMW-01D	68.5 - 78.5	81	75	21	33	47	115	105	213	83	72	58	32
BBMW-23S	5.0 - 15.0	22,830	18,758	9,986	11,860	6,483	11,108	7,779	9,643	11,441	6,213	4,890	4,327
BBMW-23I	33.0 - 43.0	3	0	0	0	0	0	115	0	6	0	3	0
BBMW-23D	49.5 - 59.5	23	12	14	7	10	6	3	2	1	0	1	0
BBMW-23D2	63.0 - 73.0	3	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	90	0	0	80	164	17	0	6	245	4	0	0
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
OU2MW-18I	13.0 - 23.0	5,500	5,447	27,560	28,040	3,791	1,500	3,275	3,033	799	1,592	2,468	2,559
OU2MW-18I2	35.0 - 45.0	0	0	0	0	0	0	336	418	490	575	410	200
OU2MW-18D	60.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	85	59	4	0	0
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
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	2

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											
		2011			2012				2013				2014
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
BBMW-01S	5.0 - 15.0	2	1	0	0	0	0	--	--	0	--	--	--
BBMW-01I	32.0 - 42.0	0	0	0	0	0	0	--	--	3	--	0	0
BBMW-01D	68.5 - 78.5	11	94	20	26	2	124	0	9	7	5	6	4
BBMW-23S	5.0 - 15.0	4,104	654	3,771	3509	3718	2569	2,477	1,667	5,214	1,156	1,787	1,418
BBMW-23I	33.0 - 43.0	17	0	0	0	41	0	0	0	100	49	0	0
BBMW-23D	49.5 - 59.5	0	0	50	44	0	0	2	0	0	--	0	--
BBMW-23D2	63.0 - 73.0	0	0	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	2	19	3	10	0	0	1	7	3	0	3	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	0	0	--	--	--
OU2MW-18I	13.0 - 23.0	1,739	2,190	126	6	0	2	4	0	0	--	--	--
OU2MW-18I2	35.0 - 45.0	315	568	298	96	66	21	24	19	27	3	7	0
OU2MW-18D	60.0 - 70.0	0	9	0	0	0	0	0	--	0	--	--	--
OU2MW-54S	5.0 - 15.0	0	0	0	0	0	0	--	--	0	--	--	--
OU2MW-54I	20.0 - 25.0	0	0	0	0	0	0	--	--	0	--	--	--
OU2MW-54I2	40.0 - 45.0	0	0	0	0	0	0	--	--	0	--	--	--
OU2MW-54D	60.0 - 65.0	0	0	0	0	0	0	--	--	0	--	--	--
OU2MW-58S	5.0-15.0	0	0	0	0	0	0	--	--	0	--	--	--
OU2MW-58I	25.0-30.0	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			
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	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
BBMW-01D	68.5 - 78.5	10	125	2	6	7	117	5	5	2	36	2
BBMW-23S	5.0 - 15.0	1,866	1,317	1,730	2,205	1,854	582	573	183	1,962	922	192
BBMW-23I	33.0 - 43.0	0	0	0	--	6	--	0	--	0	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	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	5	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											
		2017				2018				2019			
		Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec
BBMW-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32.0 - 42.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01D	68.5 - 78.5	8	2	6	9	6	0.54	3	1	6	1	4	--
BBMW-23S	5.0 - 15.0	42	1,385	542	68	21	270.51	41	110	51	3,208	945	896
BBMW-23I	33.0 - 43.0	0	1	0	0	--	0	--	--	--	0	--	--
BBMW-23D	49.5 - 59.5	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23D2	63.0 - 73.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	0	--	--	--	0	--	--
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	--	--	--	0	--	0	--	--	--	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)		
			2020
		Jan-Mar	Jul-Sept
BBMW-01S	5.0 - 15.0	--	--
BBMW-01I	32.0 - 42.0	--	--
BBMW-01D	68.5 - 78.5	2	1
BBMW-23S	5.0 - 15.0	463	544
BBMW-23I	33.0 - 43.0	--	--
BBMW-23D	49.5 - 59.5	--	--
BBMW-23D2	63.0 - 73.0	--	--
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)	Total BTEX Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
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	0	1,294	126	0	1,294
BBMW-23S	5.0 - 15.0	21	43,650	7,876	21	43,650
BBMW-23I	33.0 - 43.0	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
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	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
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
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
BBMW-01D	68.5 - 78.5	1,605	4,566	--	--	--	4,871	4,543	1,460	1,800	1,359	429	821
BBMW-23S	5.0 - 15.0	--	--	2,397	2,681	1,400	2,319	2,383	1,288	1,733	2,220	599	921
BBMW-23I	33.0 - 43.0	--	--	0	--	178	0	61	0	0	0	0	--
BBMW-23D	49.5 - 59.5	--	--	741	802	910	1,203	1,562	468	400	1,081	931	1,493
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											
		2005			2006				2007				2008
		Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar
BBMW-01S	5.0 - 15.0	1,333	1,034	2,425	1,043	0	956	2,158	659	4,347	3,927	3,929	1,432
BBMW-01I	32.0 - 42.0	7,734	10,674	8,276	3,679	6,746	7,141	10,165	5,812	7,721	8,946	8,071	10,403
BBMW-01D	68.5 - 78.5	2,832	50	251	349	863	2,250	425	195	2,090	1,248	50	55
BBMW-23S	5.0 - 15.0	1,830	994	890	1,410	959	759	2,521	1,741	2,519	1,785	2,703	2,569
BBMW-23I	33.0 - 43.0	13	33	--	146	88	65	59	199	2,207	2,559	31	16
BBMW-23D	49.5 - 59.5	1,665	2,161	--	2,459	2,391	2,994	2,353	2,591	6,619	5,835	5,620	3,118
BBMW-23D2	63.0 - 73.0	--	--	--	0	--	--	--	0	0	1	0	2
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											
		2008			2009				2010				2011
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
BBMW-01S	5.0 - 15.0	1,640	1,991	142	359	119	0	126	46	63	44	42	36
BBMW-01I	32.0 - 42.0	6,532	8,764	5,806	3,303	10,202	5,703	5,737	5,463	904	431	1,714	508
BBMW-01D	68.5 - 78.5	183	274	13	68	92	141	220	273	248	135	134	103
BBMW-23S	5.0 - 15.0	2,169	1,838	1,340	1,673	2,456	3,162	2,697	1,571	2,292	948	976	71
BBMW-23I	33.0 - 43.0	14	23	0	12	2	0	237	2	1	0	0	0
BBMW-23D	49.5 - 59.5	188	95	0	0	31	1	27	5	14	15	12	0
BBMW-23D2	63.0 - 73.0	50	0	0	0	0	0	0	0	0	1	0	0
OU2MW-17S	5.0 - 10.0	0	2	0	0	0	0	0	0	0	0	0	0
OU2MW-17I	13.0 - 23.0	25	2	0	0	24	6	2	1	0	0	0	0
OU2MW-17I2	35.0 - 45.0	0	1	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
OU2MW-18I	13.0 - 23.0	2,957	3,489	5,188	4,932	5,201	4,006	2,881	4,150	1,283	1,745	1,446	3,965
OU2MW-18I2	35.0 - 45.0	0	0	0	0	0	0	0	490	0	30	757	0
OU2MW-18D	60.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	41	10	0	0	0
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
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)											
		Sampling Date											
		2011			2012				2013				2014
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
BBMW-01S	5.0 - 15.0	3	50	21	2	1	0	--	--	0	--	--	--
BBMW-01I	32.0 - 42.0	0	0	0	0	0	0	--	--	623	--	0	0
BBMW-01D	68.5 - 78.5	0	423	73	88	58	418	11	30	30	33	16	6
BBMW-23S	5.0 - 15.0	427	224	389	519	437	436	429	460	525	380	725	243
BBMW-23I	33.0 - 43.0	0	2	0	0	6	0	0	0	10	12	0	0
BBMW-23D	49.5 - 59.5	0	0	0	17	9	6	7	7	5	--	4	--
BBMW-23D2	63.0 - 73.0	0	0	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	0	4	0	2	2	3	2	3	2	2	2	0
OU2MW-17I2	35.0 - 45.0	0	0	0	0	0	0	--	--	0	--	--	--
OU2MW-17D	60.0 - 75.0	0	0	0	4	0	0	0	0	0	--	--	--
OU2MW-18I	13.0 - 23.0	1,337	1,164	57	141	78	23	14	7	7	--	--	--
OU2MW-18I2	35.0 - 45.0	0	521	0	46	12	4	2	0	0	0	0	0
OU2MW-18D	60.0 - 70.0	0	13	3	0	0	0	0	--	0	--	--	--
OU2MW-54S	5.0 - 15.0	0	0	0	0	0	0	--	--	0	--	--	--
OU2MW-54I	20.0 - 25.0	0	0	0	0	0	0	--	--	0	--	--	--
OU2MW-54I2	40.0 - 45.0	0	0	0	0	0	0	--	--	0	--	--	--
OU2MW-54D	60.0 - 65.0	0	0	0	0	0	0	--	--	0	--	--	--
OU2MW-58S	5.0-15.0	0	0	2	0	0	0	--	--	0	--	--	--
OU2MW-58I	25.0-30.0	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			
		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	4	0	0	0	0	0	0	0	0	0	0
BBMW-01D	68.5 - 78.5	11	364	9	11	13	169	5	5	3	61	0
BBMW-23S	5.0 - 15.0	187	96	281	229	166	131	204	28	243	136	14
BBMW-23I	33.0 - 43.0	0	0	0	--	0	--	0	--	0	0	0
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	--	--
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	--	--	--	--	--	--
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)											
		Sampling Date											
		2017				2018				2019			
		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	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32.0 - 42.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01D	68.5 - 78.5	12.6	2	15	18	18	1.3	10	3	9	3	8	--
BBMW-23S	5.0 - 15.0	12.7	225	140	15	0	0	1	2	0	148	42	10
BBMW-23I	33.0 - 43.0	0	3	0	1	--	0	--	--	--	0	--	--
BBMW-23D	49.5 - 59.5	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23D2	63.0 - 73.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	0	--	--	--	0	--	--
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	--	--	--	0	--	0	--	--	--	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		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2020						
		Jan-Mar	Jul-Sep					
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	6	0	0	4,871	529	0	4,871
BBMW-23S	5.0 - 15.0	16	53	0	3,162	962	0	3,162
BBMW-23I	33.0 - 43.0	--	--	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	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	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			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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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			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-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				2012			
		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	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	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	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	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	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	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	0	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	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	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	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	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	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	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	0	0	2	0
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	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	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	2	0	16	4
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	104	129	104	66
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	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	0	0	0	121
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	130	133	112	103	75	61	108	0	10	22	0	0	0	0	0	0	0	0	114
OU2MW-19D	65.0 - 70.0	--	--	--	--	--	--	543	1,818	542	341	127	152	0	13	14	14	38	84	63	13	39	34	40	125
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	0	1	0	0	0	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	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	0	0	0	--
OU2MW-20D	65.0 - 70.0	--	--	--	--	--	--	0	0	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	1	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	2	0	0	--
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	46	83	367	479	99	176	26	5	6	6	0	0	0	0	0	3	0	0	--
OU2MW-22S	5.0 - 15.0	--	--	--	--	--	--	--	0	2	0	0	0	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	0	2	0	5
OU2MW-22I2	46.0 - 51.0	--	--	--	--	--	--	--	0	0	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	0	0	0	--
OU2MW-23S	5.0 - 15.0	--	--	--	--	--	--	--	0	0	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	2	0	0	0
OU2MW-23I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	18	215	224	139	399	91
OU2MW-23D	65.0 - 70.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	--
OU2MW-24S	5.0 - 15.0	--	--	--	--	--	--	--	0	23	0	0	0	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	0	0	0	--
OU2MW-24I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	31	39	114	92	0	0	30	186	2
OU2MW-24D	62.0 - 67.0	--	--	--	--	--	--	--	0	0	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	0	0	0	--
OU2MW-25I	25.0 - 30.0	--	--	--	--	--	--	--	125	276	138	49	732	6	0	29	260	13	0	7	62	0	0	2	26
OU2MW-25I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	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	0	0	0	--
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	--
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	40	253	245	287	4	5	3	24	0	0	0	0	0	2	0	0	0	0	0
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	0	5	347	1,559	26	3	319	136	5	41	0	2	0	0	2	6	0	0	--
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	76	167	187	474	335	491	890	362	980	640	580	269	48	15	36	73	1	5	6
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	2	0	0	0	0	0	0	--
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	1	0	0	0	0	0	0	--
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	24	11	12	0	6	2	0	0	0	0	0	--
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	18	24	0	0	3	24	7	27	1	0	0	0
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	0	0	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	0	0	0	--
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	0	2	1	2	72	66	85	286	264	16	12	56	20	4	105	6	9	4
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	1,290	1,715	1,122	480	31	4	0	0	0	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	0	0	0	--
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	211	405	359	388	173	211	141	85	188	247	124	160	119	77	64	70	63	34
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	52	251	3	0	0	0	0	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	0	0	0	0
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	533	41	43	471	195	143	80	4	3	0	0	0	0	0	0	0	0	0
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	91	247	254	130	31	19	10	3	37	1	3	10	97	77	3	10	0	0
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	301	206	134	197	30	117	62	254	137	186	33	30	51	22	26	46	18	4

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				2012			
		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	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	282	406	375	347	220	303	120	422	301	251	0	1	233	0	1	0	18	0
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	512	343	779	856	3	1	0	0	0	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	0	0	0	--
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	0	0	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	0	0	0	--
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	1,493	375	71	57	7	2	25	76	2	0	1	0	0	0	7	2	60	233
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	57	177	25	8	0	0	7	0	0	0	0	0	22	270	159	228	446	217
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	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	0	6	0	--
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	--	--	--	77	2	0	154	1	0	0	3	0	0	0	0	0	0	0	--
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	--	--	--	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	--
OU2MW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	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	1	0	5	0
OU2MW-34I2/34I2R	45.0 - 50.0	--	--	--	--	--	--	--	--	0	0	0	14	0	0	0	0	0	0	0	42	0	0	21	27
OU2MW-35S	5.0 - 15.0	--	--	--	--	--	--	--	17	9	16	0	0	0	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	0	0	0	--
OU2MW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	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	0	0	0	0
OU2MW-36S	5.0 - 15.0	--	--	--	--	--	--	--	0	0	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	0	0	0	--
OU2MW-36I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	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	0	0	0	--
OU2MW-37S	5.0 - 15.0	--	--	--	--	--	--	--	0	0	9	18	0	0	0	0	0	0	0	0	0	0	2	0	--
OU2MW-37I	25.0 - 30.0	--	--	--	--	--	--	--	87	373	411	2,623	3	267	11	338	0	0	0	0	0	0	0	0	--
OU2MW-37I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	4	0	0	0	0	0	0	0	0	0	0	0	2	0	--
OU2MW-37D	67.0 - 72.0	--	--	--	--	--	--	--	0	0	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	0	0	0	--
OU2MW-38I	25.0 - 30.0	--	--	--	--	--	--	--	4,001	122	204	240	29	1	0	6	1	0	0	0	0	0	0	0	--
OU2MW-38I2	46.0 - 51.0	--	--	--	--	--	--	--	0	0	0	0	0	0	1	197	125	445	204	155	43	588	919	78	2
OU2MW-38D	56.0 - 61.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	80	18	0	0	0	0	0	3	0	0
OU2MW-39S	5.0 - 15.0	--	--	--	--	--	--	--	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0
OU2MW-39I	25.0 - 30.0	--	--	--	--	--	--	--	0	0	5	0	4	18	0	0	0	0	0	0	0	3	0	0	0
OU2MW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	1	0	1	3	0	84	228	26	5	5	48	74	151	232	243	152	276
OU2MW-39D	70.0 - 75.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	2	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	--	--	--	--	--	--	192	61	270	168	24	0	0	0	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	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	0	0	0	0
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	22	11	0	3	0	0	0	0	0	0	0	0	0	0	--
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	4	86	18	13	33	0	0	0	0	0	0	0	0	0	--
OU2MW-42I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	0	0	0	2	4	0	0	0	0	0	0	0	0	3	--
OU2MW-42D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	0	100	45	8	12	18	14	43	17	23	4	8	5	216	690
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	963	1	118	0	0	0	0	0	0	0	0	0	--
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	205	0	2	5	0	0	0	0	0	0	0	0	--
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	81	5	13	12	32	50	1	7	0	6	2	4	11
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	58	14	4	2	17	1	77	124	6	66	47	267	321
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	--	--	--	--	--	--	--	108	60	15	27	67	1	0	0	6	1	0	0	0	0	0	0	--
OU2MW-45I	20.0 - 25.0	--	--	--	--	--	--	--	3	10	20	1	2	600	62	0	26	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	1	0	0	0	--
OU2MW-45D	55.0 - 60.0	--	--	--	--	--	--	--	0	0	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	0	0	0	--
OU2MW-46I	20.0 - 25.0	--	--	--	--	--	--	--	1,898	1,991	37	0	0	0	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	0	0	0	--
OU2MW-47S	5.0 - 15.0	--	--	--	--	--	--	--	148	146	0	0	5	0	0	0	0	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	0	0	1	0
OU2MW-47I2	40.0 - 45.0	--	--	--	--	--	--	--	297	159	7	173	3	2	57	0	0	0	0	3	5	0	0	0	0
OU2MW-47D	60.0 - 65.0	--	--	--	--	--	--	--	472	569	695	258	234	39	13	11	5	7	50	6	0	0	4	0	0
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	8	8	5	0	0	0	0	0	0	0	0
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	18	10	7	1	0	0	0	20	0	0	0
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	120	100	14	9	4	4	2	0	4	15	4
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	159	156	149	84	59	4	11	0	2	0	0
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	--
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	45	6	4	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)																			
		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-02S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02D	73.0 - 83.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-15S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-15I	23.0 - 28.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-15I2	35.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-15D	70.0 - 80.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16I	35.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16D	68.0 - 78.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4.0 - 14.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24I	32.0 - 42.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-24D	59.5 - 69.5	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20.0 - 25.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35.0 - 40.0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-08I2	50.0 - 55.0	90	61	42	21	18	31	15	26	23	22	15	4	2	2	2	0	--	0	--	--
OU2MW-08D	65.0 - 70.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13.0 - 23.0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-19I2	35.0 - 45.0	0	4	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-19D	65.0 - 70.0	0	398	415	137	629	318	174	146	254	482	376	296	250	141	80	14	29	72	0	1
OU2MW-20S	4.0 - 9.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13.0 - 23.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	35.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65.0 - 70.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13.0 - 23.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I	25.0 - 30.0	--	0	0	10	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46.0 - 51.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67.0 - 72.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25.0 - 30.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45.0 - 50.0	4	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65.0 - 70.0	--	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45.0 - 50.0	66	347	162	106	467	67	98	41	55	0	0	0	0	0	0	--	--	--	--	0
OU2MW-24D	62.0 - 67.0	--	2	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-25S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25.0 - 30.0	0	0	0	8	0	0	0	72	0	0	0	0	0	0	--	--	--	--	--	0
OU2MW-25I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70.0 - 75.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	16	1	4	1	0	0	--	--	--	1	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65.0 - 70.0	--	0	0	0	0	0	--	--	--	2	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU2MW-28I2	40.0 - 45.0	6	2	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	0
OU2MW-29D	45.0 - 50.0	18	12	10	12	23	19	7	4	0	4	0	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	10	0	0	0	0	0	0
OU2MW-30I3	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-30D	50.0 - 55.0	2	0	0	0	0	0	0	0	0	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)																			
		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
OU2MW-30D2	60.0 - 65.0	0	0	12	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-31I	18.0 - 23.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30.0 - 35.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I	20.0 - 25.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30.0 - 35.0	0	0	0	55	0	0	0	0	95	0	0	0	0	0	--	--	--	--	--	0
OU2MW-32D	40.0 - 45.0	168	331	288	114	174	105	174	187	94	0	8	4	0	0	0	0	--	0	--	--
OU2MW-33S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33I2	35.0 - 40.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-33D	50.0 - 55.0	--	6	--	40	--	42	--	--	--	0	--	--	--	0	0	--	--	--	--	--
OU2MW-34S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I/34IR	25.0 - 30.0	0	0	0	0	0	0	0	--	--	--	--	0	--	--	--	--	--	--	--	0
OU2MW-34I2/34I2R	45.0 - 50.0	0	134	35	102	6	0	0	3	0	--	70	--	--	--	--	--	--	--	--	0
OU2MW-35S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35D	57.0 - 62.0	0	0	30	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-36S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61.0 - 66.0	--	0	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37D	67.0 - 72.0	--	0	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46.0 - 51.0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56.0 - 61.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5.0 - 15.0	5	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
OU2MW-39I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
OU2MW-39I2	45.0 - 50.0	502	137	86	115	30	63	0	0	0	24	2	0	4	0	0	0	18	4	0	1
OU2MW-39D	70.0 - 75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
OU2MW-40S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	--	0
OU2MW-40I	18.0 - 23.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	0	--	--	0	--	--
OU2MW-41I	18.0 - 23.0	0	0	0	0	0	0	0	0	0	--	--	--	--	0	--	--	--	--	--	--
OU2MW-42S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45.0 - 50.0	--	9	--	0	9	0	0	15	0	0	0	2	0	0	0	0	0	0	--	--
OU2MW-42D	60.0 - 65.0	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	1,625	1,061	334	744
OU2MW-43S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45.0 - 50.0	25	84	12	4	8	0	0	5	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-43D	65.0 - 70.0	375	454	471	484	665	376	94	725	795	909	682	592	238	143	91	95	183	77	94	109
OU2MW-44S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65.0 - 70.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--
OU2MW-45I	20.0 - 25.0	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--
OU2MW-45I2	40.0 - 45.0	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--
OU2MW-45D	55.0 - 60.0	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--
OU2MW-46S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20.0 - 25.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40.0 - 45.0	--	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	0	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	0	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	2	0	0	0	0	0	--	--	--	0	--	--
OU2MW-55I	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU2MW-55I2	50.0 - 55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU2MW-55D	65.0 - 70.0	2	4	2	0	0	0	0	0	2	0	0	0	0	0	--	--	--	0	--	--
OU2MW-56S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--
OU2MW-56I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--
OU2MW-56I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--
OU2MW-56D	65.0 - 70.0	--	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)														
		Sampling Date										Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep					
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	501	0	2,210
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	0	0	527	129	0	527
OU2MW-08I2	50.0 - 55.0	--	0	--	--	--	--	--	--	--	0	0	590	126	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	4,617	189	0	4,617
OU2MW-19I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	133	18	0	133
OU2MW-19D	65.0 - 70.0	2	0.78	0	0	0	0	5	0	5	3	0	1,818	175	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	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	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	400	35	0	400
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	0	0	286	41	0	286
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	0	0	1,715	193	0	1,715
OU2MW-29I2	30.0 - 35.0	--	0	--	--	--	0	--	--	--	0	0	1,316	72	0	1,316
OU2MW-29D	45.0 - 50.0	--	0	--	--	--	--	--	--	--	0	0	405	90	0	405
OU2MW-30S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	251	7	0	251
OU2MW-30I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	729	37	0	729
OU2MW-30I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	533	32	0	533
OU2MW-30I3	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	254	22	0	254
OU2MW-30D	50.0 - 55.0	0	0	0	0	0	0	0	0	0	0	0	301	39	0	301

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										Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep					
OU2MW-30D2	60.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	422	70	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	1,493	73	0	1,493
OU2MW-32D	40.0 - 45.0	--	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	2,348	347	0	2,348
OU2MW-34I2/34I2R	45.0 - 50.0	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	5	0	0	5
OU2MW-39I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	18	1	0	18
OU2MW-39I2	45.0 - 50.0	0	0.15	2	3	0	0	0	0	0	0	0	502	55	0	502
OU2MW-39D	70.0 - 75.0	0	0	1	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
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	0	270	38	0	270
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	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	15	1	0	15
OU2MW-42D	60.0 - 65.0	919	918.53	559	357	557	323	281	321	158	311	0	2,290	655	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	39	59	69	72	31	44	58	10	12	31	1	909	215	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	108	12	0	108
OU2MW-45I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	0	600	30	0	600
OU2MW-45I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	1	0	0	1
OU2MW-45D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	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	148	7	0	148
OU2MW-47I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	2,714	82	0	2,714
OU2MW-47I2	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	297	15	0	297
OU2MW-47D	60.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	695	51	0	695
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	8	1	0	8
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	0	20	2	0	20
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	0	120	11	0	120
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	0	159	24	0	159
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	0	45	3	0	45
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
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 4-7. 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			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	June	August	Nov/Dec	March	June	Jul/Aug	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	--	--	0	0	0	0
BBMW-15I	23.0 - 28.0	--	--	30	--	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	0	--
BBMW-15I2	35.0 - 45.0	--	--	3	--	0	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	--	0	0	0	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	--	--	5,772	--	2,115
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	--	--	3,037	--	4,055
GM-03S	6.78 - 21.78	196	6	6	4	37	--	510	--	--	100	--	--	182	12	--	183	110	0	250	245	72
GM-03I	30.03 - 45.03	350	0	21	12	273	--	149	--	--	898	--	--	--	67	--	429	--	1,330	0	0	0
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	--	9,968	7,000	4,974	8,445
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,453	--	4,983	4,020	2,328	3,013
OU2MW-08I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,364	--	1,666	2,664	1,347	1,961
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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			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	June	August	Nov/Dec	March	June	Jul/Aug	Nov/Dec
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																			
		2007				2008				2009				2010				2011			
		March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	July-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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	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	2	0	0
BBMW-15I	23.0 - 28.0	0	0	0	0	0	0	0	0	48	0	0	0	0	0	0	0	0	0	0	0
BBMW-15I2	35.0 - 45.0	0	0	0	0	0	0	0	77	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-15D	70.0 - 80.0	0	0	0	2	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	2	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	2	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	23	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	120	0	0	0	0	1	0	0	0	0	0	0	0	0
BBMW-24I	32.0 - 42.0	184	434	1,863	103	85	87	0	0	0	1,027	0	0	0	0	0	0	0	0	0	0
BBMW-24D	59.5 - 69.5	3,852	0	1	0	0	160	2	113	233	13	53	131	268	114	26	3	1	0	2	0
GM-03S	6.78 - 21.78	235	21	8	8	0	0	47	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-03I	30.03 - 45.03	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	0	0	0	0	0	0	0	0
OU2MW-08S	20.0 - 25.0	5,763	9,121	8,025	13,563	6,542	6,504	7,369	6,698	4,426	4,661	4,301	714	1,958	820	84	52	1	4	2	4
OU2MW-08I	35.0 - 40.0	507	2,354	799	2,954	2,264	4,805	12,258	8,486	4,781	7,615	2,887	1	344	9	60	0	0	7	17	0
OU2MW-08I2	50.0 - 55.0	1,454	1,429	262	3,501	1,646	2,120	3,037	2,954	906	0	70	2,140	2,182	524	704	2,146	489	909	2,102	2,599
OU2MW-08D	65.0 - 70.0	0	111	0	3,892	0	0	9	0	0	0	0	0	0	0	0	0	0	0	6	0
OU2MW-19I	13.0 - 23.0	--	--	--	--	--	1,043	1,459	357	175	92	146	55	26	11	0	0	0	0	0	0
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	6,212	7,648	6,239	7,147	6,811	3,337	5,885	644	41	69	4	3	0	0	0
OU2MW-19D	65.0 - 70.0	--	--	--	--	--	--	801	3,718	1,862	2,841	3,601	2,932	0	0	0	30	212	20	4	14
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	101	91	0	74	0	0	5	1	2	3	16	0	0	0	0
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	4	0	0	0	0	0	0	0	0	0	0	0	0	5	0
OU2MW-20D	65.0 - 70.0	--	--	--	--	--	--	2	0	0	0	0	2	0	0	0	0	0	0	0	0
OU2MW-21S	5.0 - 15.0	--	--	--	--	--	--	--	424	341	9	4	0	0	13	0	0	0	0	0	0
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	5,417	4,165	297	1,948	24	86	0	17	29	0	0	0	0	0	0
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	3,922	3,985	3,134	3,902	1,244	110	10	6	1	2	1	1	0	0	0
OU2MW-22S	5.0 - 15.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-22I	25.0 - 30.0	--	--	--	--	--	--	--	181	32	0	23	0	0	0	22	22	0	0	58	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	--	--	--	--	--	--	--	429	178	63	323	0	0	0	0	583	1,009	0	0	0
OU2MW-23I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	2	0	9	434
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	0	0	3	0	258	0	0	0	0	0	0	0
OU2MW-24I	25.0 - 30.0	--	--	--	--	--	--	--	6,015	5,796	1,068	493	80	0	5	0	0	0	0	0	0
OU2MW-24I2	45.0 - 50.0	--	--	--	--	--	--	--	4	0	0	0	0	0	0	0	187	9	24	356	3
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	--	--	--	--	--	--	--	149	121	133	72	63	45	0	6	52	30	3	1	30
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	5	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	102	154	235	277	0	3	0	1	1	0	0	0	0	0	19
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	54	965	3,990	2,576	26	14	7	15	6	0	0	0	0	0	0
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	623	149	1,369	1,742	3,482	4,328	5,814	4,267	2,232	3,291	3,640	381	14	14	0
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	10	2	0	0	0	0	0	0	0
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	18	8	0	2	1	0	0	0	0
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	1,150	0	2	1	0	0	4	438	0
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	0	0	0	1	0	0	0	0	0	0	0	0	1	0
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	283	132	121	0	11	13	0	0	0	0	0	0	1	0
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	12	16	15	0	1,712	532	79	4,443	4,414	0	0	3	99	20
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	863	1,083	700	513	38	6	0	0	0	0	1	27	0	0
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	3,642	6,159	2,778	6,117	274	501	76	57	15	1	0	0	0	0
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	2,656	2,474	314	2,842	2,937	2,890	1,726	789	2,278	652	1,316	721	1,513	813
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	2	1,990	10	0	0	0	0	0	0	0	0	0	0	0
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	5,560	7,304	5,175	2,186	33	6	11	5	0	0	0	0	0	0
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	6,605	5,671	6,025	4,696	195	76	6	2	13	0	0	0	0	0
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	93	5,101	5,562	5,586	94	80	3	0	73	0	0	0	5	4
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	1,087	5,989	1,652	4,681	84	586	8	3	6	2	5	0	2	0
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	2,638	4,689	4,735	2,274	15	2,904	147	2,248	2,312	273	10	0	194	0
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	212	488	79	137	4	0	0	0	0	0	0	0	0	0

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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																			
		2007				2008				2009				2010				2011			
		March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	1	6	0	841	21	1	0	0	0	0	18	0	0	0
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	0	0	63	0	0	0	0	0	0	0	0	0	0	0
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	4,029	3,970	2,818	7,796	4,621	2,814	1,579	573	202	116	34	25	27	21
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	5,230	3,459	1,164	408	94	39	503	578	132	58	14	10	16	6
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	29	1,336	189	32	10	0	0	0	2	0	0	0	2	598
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-33I	25.0 - 30.0	--	--	--	--	--	--	--	--	565	158	39	66	25	63	10	0	0	0	0	0
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	--	--	--	104	14	4	679	16	6	0	0	0	0	0	0
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	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	--	--	--	--	--	--	--	--	257	333	153	280	295	195	53	34	14	2	230	2
OU2MW-34I2/34I2R	45.0 - 50.0	--	--	--	--	--	--	--	--	3	0	0	11	0	0	0	0	0	0	0	17
OU2MW-35S	5.0 - 15.0	--	--	--	--	--	--	--	3	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-35I	25.0 - 30.0	--	--	--	--	--	--	--	2,270	250	8	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	--	--	--	--	--	--	--	4	0	0	0	0	0	0	0	8	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	--	--	--	--	--	--	--	1,302	573	325	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	1	0	0	0	0	0	0	0	0	0	0	0
OU2MW-37S	5.0 - 15.0	--	--	--	--	--	--	--	0	0	3	0	0	0	0	0	0	0	0	0	0
OU2MW-37I	25.0 - 30.0	--	--	--	--	--	--	--	43	38	216	23	0	11	0	65	0	0	0	0	0
OU2MW-37I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	3	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	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-38I	25.0 - 30.0	--	--	--	--	--	--	--	2,992	2,202	206	61	14	0	0	0	0	0	0	0	0
OU2MW-38I2	46.0 - 51.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	26	5	7	116	164	0
OU2MW-38D	56.0 - 61.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	60	11	0	0	0	0
OU2MW-39S	5.0 - 15.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	4
OU2MW-39I	25.0 - 30.0	--	--	--	--	--	--	--	32	4	3	0	0	0	0	0	0	0	0	0	2
OU2MW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	1	0	55	130	1	671	220	89	0	14	0	393	1,217
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	51
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	165	122	167	71	25	16	14	0	0	0	0	0	0	0
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	0	143	0	0	0	0	1	19	0	0	0	0	0	0
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	2,370	3,785	4,276	1,981	540	129	543	0	13	0	0	0	0	54
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	107	0	0	5	0	0	5	0	2	3	0
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	2	0	0	106	14	7	0	0	0	0	0
OU2MW-42I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-42D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	4	185	373	199	80	56	121	26	115	68	13
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	219	31	0	0	0	0	0	0	0
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	197	18	0	0	0	0	0	0	0
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	5,130	10	96	0	1,293	259	5	38	0
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	14	71	10	4	44	0	119	320	416
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	1	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	--	--	--	--	--	--	--	--	--	--	--	45	0	0	0	0	0	0	0	0
OU2MW-45I	20.0 - 25.0	--	--	--	--	--	--	--	30	8	5	1	2	200	25	1	0	0	0	0	0
OU2MW-45I2	40.0 - 45.0	--	--	--	--	--	--	--	39	7	0	0	0	0	0	0	0	0	0	0	0
OU2MW-45D	55.0 - 60.0	--	--	--	--	--	--	--	0	0	0	2	0	0	0	0	0	0	13	0	0
OU2MW-46S	5.0 - 15.0	--	--	--	--	--	--	--	0	31	0	0	0	0	0	0	0	0	0	0	0
OU2MW-46I	20.0 - 25.0	--	--	--	--	--	--	--	2,503	2,169	12	0	0	0	0	0	0	0	0	0	0
OU2MW-46I2	40.0 - 45.0	--	--	--	--	--	--	--	0	4	56	0	0	0	0	0	0	0	0	0	0
OU2MW-47S	5.0 - 15.0	--	--	--	--	--	--	--	56	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-47I	20.0 - 25.0	--	--	--	--	--	--	--	785	1,043	4	0	1	0	0	0	0	0	0	0	0
OU2MW-47I2	40.0 - 45.0	--	--	--	--	--	--	--	6,146	3,627	8	31	7	4	8	0	0	0	0	0	0
OU2MW-47D	60.0 - 65.0	--	--	--	--	--	--	--	7,437	7,007	6,751	3,906	1,550	0	6	32	4	2	21	10	0
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	111
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	18	336	0	0	0	0	0
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	179	29	252	5	35	2	0
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	6	0	0	0	0	0	0
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	8
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)																			
		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	1	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	0	0	0	0	2	--	--	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	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20.0 - 25.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35.0 - 40.0	39	9	0	1	2	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-08I2	50.0 - 55.0	1,989	2,330	630	363	146	171	85	103	56	75	117	105	135	134	173	76	108	66	79	41
OU2MW-08D	65.0 - 70.0	0	0	6	--	--	1	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13.0 - 23.0	0	3	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-19I2	35.0 - 45.0	0	8	0	5	0	16	44	0	0	0	0	0	0	0	0	2	0	0	0	0
OU2MW-19D	65.0 - 70.0	254	180	231	13	0	1,568	1,911	3	1,141	1,308	748	1,274	3,101	750	2,386	1,335	351	205	204	47
OU2MW-20S	4.0 - 9.0	0	2	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	1	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-21S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13.0 - 23.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35.0 - 45.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5.0 - 15.0	0	3	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-22I	25.0 - 30.0	0	4	0	4	--	0	0	3	--	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	1	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45.0 - 50.0	126	123	268	81	9	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-23D	65.0 - 70.0	0	4	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	1	220	523	4	122	1,610	1,959	961	3,130	322	688	202	719	1	1	0	0	0	0	--
OU2MW-24D	62.0 - 67.0	0	3	0	--	--	20	0	--	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-25S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25.0 - 30.0	4	0	0	12	0	0	0	16	0	0	0	45	0	0	0	0	0	2	--	--
OU2MW-25I2	45.0 - 50.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70.0 - 75.0	0	2	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	0	0	0	--	--	0	--	--	--	1	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	6	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
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	10	0	4	25	--	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	0	0	4	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	0	2	5	--	--	0	--	--	--	2	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40.0 - 45.0	183	0	1	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	0	8	11	--	0	0	0	10	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	0	0	33	--	0	0	67	0	5	0	0	0	0	0	--	--	--	--	--	--
OU2MW-29D	45.0 - 50.0	1,372	1,193	1,402	328	207	58	70	128	118	76	41	42	11	15	8	1	1	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	6	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	2	0	0
OU2MW-30I3	45.0 - 50.0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-30D	50.0 - 55.0	3	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
OU2MW-30D2	60.0 - 65.0	0	0	2	0	0	0	4	10	0	0	63	0	0	0	0	0	0	0	0	0
OU2MW-31I	18.0 - 23.0	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																			
		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-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	22	16	12	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30.0 - 35.0	26	5	4	128	0	0	0	47	0	0	0	0	0	0	0	0	0	0	--	--
OU2MW-32D	40.0 - 45.0	4	55	1,578	225	825	1,451	1,572	752	284	440	1,135	1,120	427	5	4	7	2	0	0	0
OU2MW-33S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-33I	25.0 - 30.0	0	1	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-33I2	35.0 - 40.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-33D	50.0 - 55.0	0	0	0	--	--	16	--	15	--	2	--	--	--	0	--	--	--	0	0	--
OU2MW-34S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-34I/34IR	25.0 - 30.0	0	0	4	0	0	10	0	0	0	0	0	--	--	--	--	0	--	--	--	--
OU2MW-34I2/34I2R	45.0 - 50.0	14	2	16	16	0	21	24	121	14	0	0	11	0	--	0	--	--	--	--	--
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	4	3	0	0	0	0	16	--	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-36S	5.0 - 15.0	0	2	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25.0 - 30.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45.0 - 50.0	0	1	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61.0 - 66.0	0	0	0	--	--	0	0	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-37S	5.0 - 15.0	0	4	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25.0 - 30.0	0	4	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45.0 - 50.0	0	4	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-37D	67.0 - 72.0	0	0	0	--	--	0	0	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5.0 - 15.0	0	2	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25.0 - 30.0	0	2	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46.0 - 51.0	439	1,312	35	2	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-38D	56.0 - 61.0	0	3	0	9	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-39S	5.0 - 15.0	0	4	0	0	12	0	1	0	0	0	0	7	2	0	0	0	0	0	0	0
OU2MW-39I	25.0 - 30.0	1	4	0	0	0	0	1	1	0	0	0	0	0	0	0	4	1	0	0	0
OU2MW-39I2	45.0 - 50.0	1,051	1,063	1,404	1,825	3,780	853	877	2,004	223	76	0	2	1	5	12	0	4	3	0	0
OU2MW-39D	70.0 - 75.0	1	3	0	0	0	0	1	8	0	1	0	0	0	0	0	1	0	0	3	0
OU2MW-40S	5.0 - 15.0	0	0	0	0	20	0	1,490	0	33	14	0	0	0	0	0	0	0	0	--	--
OU2MW-40I	18.0 - 23.0	10	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	0	--
OU2MW-41I	18.0 - 23.0	66	0	5	10	32	0	0	102	27	0	0	0	0	0	--	--	--	0	--	--
OU2MW-42S	5.0 - 15.0	0	2	0	--	--	1	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25.0 - 30.0	0	2	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45.0 - 50.0	0	0	44	--	--	128	--	22	33	0	59	742	0	0	0	97	49	0	0	0
OU2MW-42D	60.0 - 65.0	41	25	347	917	3,289	2,468	2,901	3,504	3,948	3,444	2,650	3,502	2,628	2,091	2,033	3,531	1,827	1,768	2,251	2,931
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	218	97	4	295	291	1,349	602	417	170	5	0	9	12	0	--	--	--	0	--	--
OU2MW-43D	65.0 - 70.0	333	313	1,407	1,869	2,458	1,868	4,928	2,286	3,044	2,393	2,579	2,219	3,767	1,628	1,357	2,312	673	319	315	370
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	--	--	--	18	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	2	--	--	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	0	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	0	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	5	0	0	0	0	--	--
OU2MW-55I	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	--	--
OU2MW-55I2	50.0 - 55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	--	--
OU2MW-55D	65.0 - 70.0	0	0	0	0	1	0	0	0	0	0	0	0	0	4	0	0	0	0	--	--
OU2MW-56S	5.0 - 15.0	0	0	0	--	--	2	--	--	--	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 4-7. 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														Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2017				2018				2019				2020						
		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					
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	3,773	0	13,563
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	12,258	1,889	0	12,258
OU2MW-08I2	50.0 - 55.0	--	10	--	--	--	1.7	--	--	--	--	--	--	--	0	0	3,501	1,004	0	3,501
OU2MW-08D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	3,892	134	0	3,892
OU2MW-19I	13.0 - 23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,459	71	0	1,459
OU2MW-19I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,648	919	0	7,648
OU2MW-19D	65.0 - 70.0	104	0	0	5	18	448.6	6	0	2	0	8.2	0	31	36	0	3,718	716	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	--	--	--	--	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	--	--	--	--	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	0	4	0	0	4
OU2MW-28I	28.0 - 33.0	--	--	--	0	--	0	--	--	--	0	--	--	0	0	0	283	26	0	283
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	4,443	461	0	4,443
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	1,083	136	0	1,083
OU2MW-29I2	30.0 - 35.0	--	--	--	0	--	0	--	--	--	0	--	--	0	0	0	6,159	658	0	6,159
OU2MW-29D	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	1	0	2,937	805	0	2,937
OU2MW-30S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,990	43	0	1,990
OU2MW-30I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,304	432	0	7,304
OU2MW-30I2	30.0 - 35.0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	6,605	496	0	6,605
OU2MW-30I3	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,586	353	0	5,586
OU2MW-30D	50.0 - 55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,989	300	0	5,989
OU2MW-30D2	60.0 - 65.0	3	1	1	1	1	1.2	0	0	0	0	0	0	0	0	0	4,735	479	0	4,735
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	488	48	0	488

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														Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2017				2018				2019				2020						
		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					
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	--	--	--	--	0	5,230	341	0	5,230
OU2MW-32D	40.0 - 45.0	--	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	0	333	62	0	333
OU2MW-34I2/34I2R	45.0 - 50.0	--	--	--	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	2	0	0	0	0	0	0	0	0	0	0	0	12	1	0	12
OU2MW-39I	25.0 - 30.0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	32	1	0	32
OU2MW-39I2	45.0 - 50.0	32	0	0	0	0	0	0	9	0	0	0	0	0	0	0	3,780	348	0	3,780
OU2MW-39D	70.0 - 75.0	0	2	0	3	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8
OU2MW-40S	5.0 - 15.0	--	--	--	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	--	--	--	--	--	--	--	--	--	--	--	--	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	--	--	--	0	--	--	--	--	0	742	37	0	742
OU2MW-42D	60.0 - 65.0	5,230	2,370	4,487	2,531	4,269	4736	3,034	1,753	2,037	692	642	498	646	948	4	5,230	1,824	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	597	332	526	599	155	0	405	551	173	335	69.97	13	69	297	0	4,928	982	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	--	--	--	--	--	--	--	--	--	--	--	--	0	45	2	0	45
OU2MW-45I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	0	200	12	0	200
OU2MW-45I2	40.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	0	39	2	0	39
OU2MW-45D	55.0 - 60.0	--	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	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	0	1,043	40	0	1,043
OU2MW-47I2	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,146	214	0	6,146
OU2MW-47D	60.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,437	581	0	7,437
OU2MW-55S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	0	5	0	0	5
OU2MW-55I	30.0 - 35.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	0	111	5	0	111
OU2MW-55I2	50.0 - 55.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	0	336	14	0	336
OU2MW-55D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	0	252	20	0	252
OU2MW-56S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	2
OU2MW-56I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	0	6	0	0	6
OU2MW-56I2	45.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	0	8	0	0	8
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 4-8. 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				2006			
		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	Mar	Jun	Jul/Aug	Nov/Dec
BBMW-03S	3.0 - 13.0	--	--	0	--	2	0	--	--	--	--	--	--	0	0	--	--	0	--	0	0	0	0
BBMW-03I	30.0 - 40.0	--	--	2	--	1	0	--	--	--	--	--	--	0	0	--	--	0	--	0	0	0	0
BBMW-03D	52.0 - 62.0	--	--	3	--	3	0	--	--	--	--	--	--	--	0	--	--	0	--	0	0	0	0
BBMW-07S	5.0 - 15.0	--	--	2	--	--	5	0	0	116	241	160	11	39	20	0	--	--	0	0	0	37	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	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	264	0	79	344
BBMW-25D	62.0 - 72.0	--	--	--	--	--	45	--	59	75	44	29	20	0	110	78	--	47	--	11	21	78	76
GM-05S	5.1 - 20.1	0	422	283	124	27	106	307	87	367	0	0	0	157	0	134	0	40	57	140	21	0	12
GM-05I	35.05 - 48.05	0	0	2	0	0	0	0	0	--	0	--	--	0	0	--	--	--	--	0	--	--	--
GM-05D	60.95 - 75.95	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	--	--	--	1,090	1,056	433	348	250	824	454	692	455	587	200	2,130	3,200	1,280	250	562	577	1,156	4,726
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	151	11	12	0
GMP-04	15.5 - 20.5	--	--	--	60	67	44	82	0	11	12	331	385	345	1,483	263	214	366	1,132	242	83	242	280
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,243	--	348	176	988	288
OU2MW-01I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	77	--	767	170	170	424
OU2MW-01I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25	--	195	126	52	51
OU2MW-01D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0	0
OU2MW-02S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100	--	181	111	282	573
OU2MW-02I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	477	--	370	415	493	459
OU2MW-02I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	--	0	0	0	0
OU2MW-02D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0	0
OU2MW-03S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	151	--	530	234	225	206
OU2MW-03I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0	182
OU2MW-03I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0	0
OU2MW-03D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0	0
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,130	--	844	740	1,176	386
OU2MW-04I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	267	--	885	296	23	0
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	41	--	32	0	0	0
OU2MW-04D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0	0
OU2MW-05	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,120	--	224	254	1,039	3,159
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,085	--	11	0	0	0
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	35	--	59	39	0	35
OU2MW-09	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	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																			
		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-03S	3.0 - 13.0	393	0	0	0	0	0	0	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	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	1	1	0	0	0	0	0
BBMW-07S	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-07I	30.0 - 40.0	--	0	--	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0
BBMW-25S	4.0 - 14.0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-25I	25.0 - 35.0	0	150	252	41	158	169	101	523	469	301	46	18	6	0	0	0	0	0	0	0
BBMW-25D	62.0 - 72.0	0	0	16	6	2	6	8	8	35	32	2	4	15	9	0	0	0	0	23	7
GM-05S	5.1 - 20.1	0	2	0	14	185	55	16	113	8	36	11	6	8	7	13	2	0	0	1	0
GM-05I	35.05 - 48.05	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GM-05D	60.95 - 75.95	0	0	0	0	4	0	0	0	2	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	185	169	49	135	182	94	170	655	762	869	432	372	535	247	93	37	68	7	12	2
GMP-02	18.0 - 23.0	0	0	0	0	3	4	0	0	0	0	0	0	0	0	3	0	0	0	0	0
GMP-04	15.5 - 20.5	652	36	295	264	15	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
OU2IW-01S	3.0 - 8.0	--	--	0	0	0	0	0	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	0	0	0	0	0	0	0
OU2MW-01S	20.0 - 25.0	876	46	182	102	42	6	15	82	69	334	107	2	0	4	0	0	0	0	0	0
OU2MW-01I	35.0 - 40.0	885	443	408	85	8	1	13	10	2	195	186	4	2	0	0	0	0	0	0	0
OU2MW-01I2	50.0 - 55.0	51	31	0	0	0	0	0	0	0	0	3	1	0	47	14	10	0	0	0	0
OU2MW-01D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72	0	0	0	0	0
OU2MW-02S	20.0 - 25.0	27	270	137	1	29	52	20	6	5	184	46	0	0	0	0	0	0	0	0	0
OU2MW-02I	35.0 - 40.0	645	260	410	229	377	412	281	359	370	335	350	154	378	118	136	179	137	130	97	107
OU2MW-02I2	50.0 - 55.0	0	0	0	1	11	0	2	1	3	2	0	0	0	0	0	0	0	0	0	0
OU2MW-02D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0
OU2MW-03S	20.0 - 25.0	0	1,108	223	9	45	94	42	53	30	99	48	90	13	0	7	0	0	0	0	0
OU2MW-03I	35.0 - 40.0	0	0	0	0	0	0	85	1,262	366	15	0	14	158	219	0	0	0	0	0	0
OU2MW-03I2	50.0 - 55.0	11	29	0	0	0	0	0	0	5	38	10	8	2	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	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	0	0	0	0	0	0	0	0
OU2MW-04S	20.0 - 25.0	421	873	253	600	791	200	200	730	841	891	654	818	345	70	89	51	0	0	0	0
OU2MW-04I	35.0 - 40.0	134	244	252	158	174	25	67	120	97	198	28	22	68	68	17	34	123	121	115	136
OU2MW-04I2	50.0 - 55.0	0	5	0	0	0	0	0	0	0	189	1	0	63	36	7	0	0	0	0	8
OU2MW-04D	65.0 - 70.0	0	0	0	3	2	1	0	1	2	0	0	0	0	0	0	0	0	0	0	0
OU2MW-05	25.0 - 35.0	280	188	110	202	221	158	181	514	466	290	369	242	94	137	139	51	30	8	18	11
OU2MW-06S	3.0 - 8.0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-06	15.0 - 25.0	53	0	0	0	11	3	0	2	0	0	0	0	0	3	0	0	0	0	0	0
OU2MW-07S	3.0 - 8.0	--	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-07	15.0 - 25.0	0	3	0	1	15	3	3	0	0	2	0	0	4	53	0	0	0	0	0	0
OU2MW-09	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
OU2MW-10S	3.0 - 7.0	--	0	0	0	0	0	0	0	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	0	41	529	326	140	192	13	2
OU2MW-10D	35.0 - 40.0	--	0	0	0	0	198	39	351	78	0	28	43	0	2	65	120	4	0	0	0
OU2MW-11S	3.0 - 8.0	--	0	0	0	0	0	0	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	48	187	55	73	91	27	2	0
OU2MW-11I2	30.0 - 35.0	--	293	329	43	67	33	41	81	98	25	1	66	10	0	0	24	9	4	8	18
OU2MW-11D	40.0 - 45.0	--	3	0	0	0	0	0	0	8	5	20	18	26	56	39	1	14	19	92	1
OU2MW-12S	3.0 - 7.0	--	0	0	0	0	0	0	0	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	77	13	35	121	60	5	0	0
OU2MW-12I2	30.0 - 35.0	--	30	2	7	23	2	0	0	53	19	7	58	0	2	37	3	26	5	0	3
OU2MW-12D	40.0 - 45.0	--	23	13	21	17	11	0	0	0	0	0	0	0	80	73	49	0	15	16	4
OU2MW-13S	3.0 - 8.0	--	0	0	0	0	0	0	0	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	19	8	3	0	2	1	0	0
OU2MW-13D	35.0 - 40.0	--	4	27	5	0	10	10	0	34	13	29	23	9	10	8	24	10	2	1	0
OU2MW-14S	3.0 - 8.0	--	0	0	0	0	0	0	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	0	0	0	0	0	0
OU2MW-14I2	45.0 - 50.0	--	--	--	--	0	0	0	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	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	0	0	73	6	12	83	0	0
OU2MW-15I2	30.0 - 35.0	--	0	599	367	0	0	0	0	0	0	0	0	0	0	0	184	0	0	0	0
OU2MW-15D	40.0 - 45.0	--	0	0	0	0	0	0	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	0	0	0	0	0	0	0
OU2MW-16I	15.0 - 20.0	--	79	1	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0
OU2MW-16I2	25.0 - 30.0	--	0	9	53	6	2	0	0	0	0	84	0	0	0	22	0	5	0	0	4
OU2MW-16D	35.0 - 40.0	--	0	0	0	149	0	0	1	0	2	0	0	0	0	0	0	0	0	0	20
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	128	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
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	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
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	0	0	0	2	0	0	0	0	0	0	3

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																			
		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-03S	3.0 - 13.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-03I	30.0 - 40.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-03D	52.0 - 62.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-07S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-07I	30.0 - 40.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-07D	55.0 - 65.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-25S	4.0 - 14.0	0	0	0	--	--	0	--	--	--	0	0	--	--	--	--	--	--	--	--	--
BBMW-25I	25.0 - 35.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-25D	62.0 - 72.0	1	1	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
GM-05S	5.1 - 20.1	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
GM-05I	35.05 - 48.05	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
GM-05D	60.95 - 75.95	0	0	0	--	--	0	--	--	--	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	0	0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--
GMP-02	18.0 - 23.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
GMP-04	15.5 - 20.5	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2IW-01S	3.0 - 8.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3.0 - 8.0	0	0	0	--	--	0	--	--	--	0	0	--	--	--	--	--	--	--	--	--
OU2MW-01S	20.0 - 25.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35.0 - 40.0	3	1	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-01I2	50.0 - 55.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-01D	65.0 - 70.0	1	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20.0 - 25.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
OU2MW-02I	35.0 - 40.0	61	50	56	46	32	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-02I2	50.0 - 55.0	0	2	0	0	0	0	3	6	8	1	2	2	0	0	0	0	0	0	0	1.6
OU2MW-02D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
OU2MW-03S	20.0 - 25.0	0	0	0	--	--	0	--	--	--	0	0	--	--	--	--	--	--	--	--	--
OU2MW-03I	35.0 - 40.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50.0 - 55.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65.0 - 70.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3.0 - 8.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20.0 - 25.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-04I	35.0 - 40.0	118	70	35	32	22	20	5	17	14	6	9	6	4	0	0	12	2	2	3	0
OU2MW-04I2	50.0 - 55.0	0	0	0	0	0	0	2	--	--	3	--	--	--	0	--	--	--	0	--	--
OU2MW-04D	65.0 - 70.0	0	0	0	--	--	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-05	25.0 - 35.0	2	6	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-06S	3.0 - 8.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15.0 - 25.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3.0 - 8.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15.0 - 25.0	9	1	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30.0 - 40.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3.0 - 7.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	0	--	--
OU2MW-10I	20.0 - 25.0	0	0	0	3	2	0	0	0	0	0	--	--	--	1	--	--	--	114	--	--
OU2MW-10D	35.0 - 40.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3.0 - 8.0	2	3	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20.0 - 25.0	0	3	1	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30.0 - 35.0	18	3	14	0	0	0	0	12	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-11D	40.0 - 45.0	5	87	50	10	5	15	0	0	0	0	0	0	--	0	--	--	--	1	--	--
OU2MW-12S	3.0 - 7.0	2	0	0	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	0	0	0	0
OU2MW-12I2	30.0 - 35.0	0	0	5	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	0	5	3	3	0	0	13	2	11	10	30	33	1	0	0	0	0	0
OU2MW-13S	3.0 - 8.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20.0 - 25.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35.0 - 40.0	8	0	3	3	2	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-14S	3.0 - 8.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-14I	20.0 - 25.0	0	0	261	--	194	13	0	31	27	90	0	0	0	0	0	--	--	0	--	--
OU2MW-14I2	45.0 - 50.0	0	0	1	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3.0 - 8.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20.0 - 25.0	0	9	279	18	4	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-15I2	30.0 - 35.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
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	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25.0 - 30.0	0	0	0	0	1	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35.0 - 40.0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-52S	3.0 - 8.0	0	0	0	--	--	0	--	--	--	0	--	--	--	0	0	0	0	--	--	--
OU2MW-52I	20.0 - 25.0	0	0	0	--	--	0	--	--	--	0	--	--	--	0	0	0	0	--	--	--
OU2MW-52D	35.0 - 40.0	0	0	0	--	--	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	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														Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2017				2018				2019				2020						
		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					
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	0	0	0	0	1	0	0	0	0	0	0	0	0	573	35	0	573
OU2MW-02I	35.0 - 40.0	0	0	0	0	0	1.5	0	0	0	0	26	69	20	0	0	645	139	0	645
OU2MW-02I2	50.0 - 55.0	1.5	3	2	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	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
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	3,130	415	0	3,130
OU2MW-04I	35.0 - 40.0	0	0	--	--	--	0	--	--	--	--	--	--	--	0	0	885	84	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	34	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	87	0	356
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	329	36	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	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	0	466	32	0	466
OU2MW-12I2	30.0 - 35.0	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	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	--	--	--	--	--	--	--	--	--	--	--	--	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		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		2007		2008				2009				2010			
		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	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	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	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	0	25	2	0
BBMW-07S	5.0 - 15.0	0	0	0	0	0	0	3	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	0	0
BBMW-07D	55.0 - 65.0	--	--	--	--	873	0	--	0	2	0	0	0	0	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	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	3	0	0	0
BBMW-25D	62.0 - 72.0	308	179	160	384	0	0	3	1	0	0	59	0	0	0	0	0	0	8	0	0
GM-05S	5.1 - 20.1	34	0	0	0	0	--	0	13	25	30	7	35	5	19	9	19	2	0	25	1
GM-05I	35.05 - 48.05	0	--	--	--	0	0	7	0	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	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	1,916	1,228	921	276
GMP-02	18.0 - 23.0	0	0	10	11	0	0	0	0	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	0	0	0	0
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	0	0	48	0	0	0	0	0	0	0	0	0	0	0
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	70	0	0	0	0	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	0	0	0	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	0	0	0	0
OU2MW-01I2	50.0 - 55.0	1,249	0	0	100	0	488	7	4	0	0	0	0	0	0	0	0	0	364	0	0
OU2MW-01D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135	0
OU2MW-02S	20.0 - 25.0	311	209	164	424	0	154	155	27	57	96	46	8	33	146	44	0	0	6	0	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	2,515	1,278	1,232	1,329
OU2MW-02I2	50.0 - 55.0	11	0	0	0	0	16	0	11	30	1	12	0	6	0	0	0	0	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	0	0	0	0
OU2MW-03S	20.0 - 25.0	339	353	181	379	0	317	201	49	87	61	79	85	80	157	118	142	71	20	16	1
OU2MW-03I	35.0 - 40.0	0	0	0	49	0	0	0	0	0	7	0	95	146	0	0	6	56	61	0	0
OU2MW-03I2	50.0 - 55.0	36	16	0	0	0	144	4	1	0	0	0	0	0	0	0	1	0	0	0	0
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	0	6	3	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	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	4,529	352	152	170
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	241	0	0	252
OU2MW-04I2	50.0 - 55.0	115	101	57	78	0	19	16	2	0	23	0	0	0	1,340	0	4	536	14	0	0
OU2MW-04D	65.0 - 70.0	0	0	0	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	288	484	335	957
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	0	10	0	0	0	6	0	0	0	0	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	0	0	0	0
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	0	0	7	0	0	0	0	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	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	0	0	0	0
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	4	0	297	201	1	0	2	29	22	3	54	12	37	149	597
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	0	0	0	0	413	32	727	0	1	49	5	0	0	23	22
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	0	0	0	2	0	0	4	0	0	0	0	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	220	26	125	565
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	426	2,412	52	0	0	275	264	1,011	131	9	193	6	0	1	27
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	8	7	5	0	0	0	0	9	0	54	69	40	77	63	0
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	1	0	0	0	0	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	851	8	11	159
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	224	3	7	30	5	0	0	720	39	15	3	2	2	58	9
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	108	79	39	44	35	0	0	2	0	0	0	0	992	197	141
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	0	0	0	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	15	36	41	0
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	13	15	2	1	4	2	0	21	18	31	24	21	15	15	17
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	0	0	0	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	0	0	0	0
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	0	0	0	0	0	0
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	261	86	8	34	0	0	0	0	1	219	24	0	0	33	1
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	0	320	76	0	0	0	0	0	0	0	0	0	0	0	77
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	0	0	0	0	0	0	2	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	0	0	0
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	22	5	0	0	0	0	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	0	0	26	0
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	0	0	0	102	0	0	0	0	0	0	0	0	0	0	0
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	101	0	0	25	0	0	0
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	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																							
		2011	2011			2012				2013		2013		2014				2015				2016		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	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-03S	3.0 - 13.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-03I	30.0 - 40.0	0	0	0	2	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-03D	52.0 - 62.0	0	0	0	0	0	0	0	--	--	0	--	--	--	9	--	--	--	--	--	--	--	--	--	--
BBMW-07S	5.0 - 15.0	0	0	0	0	0	5	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-07I	30.0 - 40.0	0	0	0	0	0	1	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-07D	55.0 - 65.0	0	0	0	0	0	2	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-25S	4.0 - 14.0	0	0	0	0	0	1	0	--	--	0	--	--	--	0	0	--	--	--	--	--	--	--	--	--
BBMW-25I	25.0 - 35.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-25D	62.0 - 72.0	0	0	7	54	20	31	0	10	19	1	3	0	0	0	--	--	--	0	--	--	--	--	--	--
GM-05S	5.1 - 20.1	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
GM-05I	35.05 - 48.05	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
GM-05D	60.95 - 75.95	0	0	0	0	0	0	0	--	--	0	--	--	--	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	720	65	70	15	16	5	12	3	0	2	0	0	--	0	--	--	--	0	--	--	--	--	--	--
GMP-02	18.0 - 23.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
GMP-04	15.5 - 20.5	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2IW-01S	3.0 - 8.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3.0 - 8.0	0	0	2	0	0	0	0	--	--	0	--	--	--	0	0	--	--	--	--	--	--	--	--	--
OU2MW-01S	20.0 - 25.0	0	0	0	0	0	3	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35.0 - 40.0	0	0	0	0	10	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-01I2	50.0 - 55.0	0	0	0	0	0	2	2	--	--	11	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-01D	65.0 - 70.0	0	0	1	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20.0 - 25.0	0	1	0	0	0	48	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-02I	35.0 - 40.0	733	76	1,764	1,097	1,161	698	926	561	119	38	7	4	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-02I2	50.0 - 55.0	0	0	0	0	0	8	2	3	2	0	23	32	17	8	15	9	4	3	5	6	6	6	7	10.8
OU2MW-02D	65.0 - 70.0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-03S	20.0 - 25.0	3	5	0	3	0	1	0	--	--	0	--	--	--	0	0	--	--	--	--	--	--	--	--	--
OU2MW-03I	35.0 - 40.0	0	0	0	0	0	3	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50.0 - 55.0	0	0	0	0	0	1	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3.0 - 8.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20.0 - 25.0	40	51	17	22	34	10	8	2	1	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-04I	35.0 - 40.0	32	1,789	0	2,047	2,666	1,294	506	152	96	102	53	49	13	7	20	16	10	7	9	16	21	15	11	0
OU2MW-04I2	50.0 - 55.0	0	0	0	0	6	0	0	0	3	0	3	--	--	2	--	--	--	4	--	--	--	6	--	--
OU2MW-04D	65.0 - 70.0	0	0	0	3	0	0	0	--	--	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-05	25.0 - 35.0	86	33	75	92	30	34	7	2	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-06S	3.0 - 8.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15.0 - 25.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3.0 - 8.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15.0 - 25.0	0	0	0	0	68	3	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30.0 - 40.0	0	0	0	0	0	1	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3.0 - 7.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	0	--	--
OU2MW-10I	20.0 - 25.0	76	167	57	21	0	12	0	0	10	10	2	2	1	0	--	--	--	7	--	--	--	17	--	--
OU2MW-10D	35.0 - 40.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3.0 - 8.0	--	0	0	0	0	1	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20.0 - 25.0	38	16	19	0	0	1	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30.0 - 35.0	11	2	55	126	89	18	83	0	0	0	0	49	--	1	--	--	--	0	--	--	--	--	--	--
OU2MW-11D	40.0 - 45.0	9	35	842	5	3	1,018	136	45	26	80	3	2	0	0	0	0	--	1	--	--	--	0	--	--
OU2MW-12S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
OU2MW-12I	20.0 - 25.0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12I2	30.0 - 35.0	18	7	0	13	3	10	30	1	7	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12D	40.0 - 45.0	1	80	112	6	2	0	0	9	6	14	2	0	2	0	12	23	17	30	5	1	5	3	0	0
OU2MW-13S	3.0 - 8.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20.0 - 25.0	7	18	7	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35.0 - 40.0	14	7	9	0	78	24	73	24	7	0	0	2	--	0	--	--	--	0	--	--	--	--	--	--
OU2MW-14S	3.0 - 8.0	0	0	0	0	0	2	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-14I	20.0 - 25.0	0	0	0	0	0	2	14	--	29	16	5	6	6	37	0	0	0	0	0	--	--	0	--	--
OU2MW-14I2	45.0 - 50.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3.0 - 8.0	0	0	0	0	0	1	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20.0 - 25.0	2	4	0	0	0	0	32	53	21	3	2	0	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-15I2	30.0 - 35.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40.0 - 45.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3.0 - 8.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15.0 - 20.0	0	0	17	0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25.0 - 30.0	0	0	0	0	0	1	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35.0 - 40.0	0	0	0	40	0	1	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU2MW-52S	3.0 - 8.0	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	0	--	--	--
OU2MW-52D	35.0 - 40.0	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	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20.0 - 25.0	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	--	--	--	--	--	--	--	--	--	--

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														Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2017				2018				2019				2020						
		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					
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	0	0	0	0	1	2.2	0	0	0	0	0	0	0	0	0	424	37	0	424
OU2MW-02I	35.0 - 40.0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	5,251	952	0	5,251
OU2MW-02I2	50.0 - 55.0	18	17	24	9	11	5.7	3	3	2	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	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	2,561	0	12,611
OU2MW-04I	35.0 - 40.0	0	0	--	--	--	0	--	--	--	--	--	--	--	0	0	6,438	720	0	6,438
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	1,340	77	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	273	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	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	459	0	3,627
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	2,412	159	0	2,412
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	--	--	--	1	0	0	0	0	0	0	1,018	69	0	1,018
OU2MW-12S	3.0 - 7.0	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	0	0	0	0	1	0	0	0	0	0	0	0	1,646	97	0	1,646
OU2MW-12I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720	23	0	720
OU2MW-12D	40.0 - 45.0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	0	992	38	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	--	--	--	--	--	--	--	--	--	--	--	--	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-03S	BBMW-03I	BBMW-03D	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-25D	BBMW-25D	BBMW-25D	BBMW-25D	OU2MW-01I2	OU2MW-01I2	OU2MW-01I2	OU2MW-01I2	OU2MW-02S	OU2MW-02S	DUP-06
			Start Depth	68.5	68.5	68.5	3	30	52	5	5	5	5	62	62	62	62	50	50	50	50	20	20	20
			End Depth	78.5	78.5	78.5	13	40	62	15	15	15	15	72	72	72	72	55	55	55	55	25	25	25
			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	08/16/19	02/12/20	08/27/20	08/24/20	08/24/20	08/24/20	08/22/19	12/06/19	02/12/20	09/03/20	07/24/19	11/19/19	01/21/20	08/26/20	07/24/19	11/22/19	01/21/20	09/10/20	07/25/19	11/22/19	11/22/19
			Parent Sample Code																					OU2MW-02S
			Validation Level	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	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**																					
BTEX	µg/L																							
Benzene		71-43-2	1	**1.4**	1 U	**0.99 J**	1 U	1 U	1 U	**1.4**	**1.4**	**0.83 J**	**1.3**									1 U	1 U	1 U
Toluene		108-88-3	5	1 U	**0.38 J**	1 U	1 U	1 U	1 U	**3.9**	**4.4**	**2.3**	**3**									1 U	1 U	1 U
Ethylbenzene		100-41-4	5	**1.2**	1 U	**0.49 J**	1 U	1 U	1 U	**490**	**470**	**250**	**310**									1 U	1 U	1 U
Total Xylene		1330-20-7	5	**1.1 J**	**1.6 J**	2 U	2 U	2 U	2 U	**450**	**420**	**210**	**230**									2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	**3.7**	**1.98**	**1.48**	ND	ND	ND	**945.3**	**895.8**	**463.13**	**544.3**									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
Acenaphthylene		208-96-8	NE	**1.7 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
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
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 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*
Chrysene		218-01-9	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
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
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	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-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	**1.2 J**	10 U	10 U	**1.7 J**									10 U	10 U	10 U
Naphthalene		91-20-3	10*	**6.4 J**	**5.6 J**	2 U	2 U	2 U	2 U	**41**	**10**	**16**	**51**									10 U	10 U	10 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
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	**8.1**	**5.6**	ND	ND	ND	ND	**42.2**	**10**	**16**	**52.7**									ND	ND	ND
Other																								
Sulfate	µg/L	14808-79-8	250000											**24600**	**31600**	**22400**	**13000**	**5700**	**105000**	**86400**	**51000**			

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-02S	OU2MW-02S	OU2MW-02I	OU2MW-02I	OU2MW-02I	Dup-03	OU2MW-02I	OU2MW-02I2	OU2MW-02I2	OU2MW-02I2	OU2MW-02I2	OU2MW-02D	OU2MW-02D	OU2MW-02D	OU2MW-02D	OU2MW-04WT	OU2MW-04S	OU2MW-04I	OU2MW-04I2	OU2MW-04D	DUP-09Q3
			Start Depth	20	20	35	35	35	35	35	50	50	50	50	65	65	65	65	3	20	35	50	65	65
			End Depth	25	25	40	40	40	40	40	55	55	55	55	70	70	70	70	8	25	40	55	70	70
			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	01/22/20	08/27/20	07/25/19	11/22/19	01/22/20	1/22/2020	08/27/20	07/24/19	11/22/19	01/22/20	09/09/20	07/24/19	11/22/19	01/22/20	09/09/20	09/09/20	09/09/20	09/09/20	09/09/20	09/09/20	9/9/2020	
			Parent Sample Code						OU2MW-02I															OU2MW-04D
			Validation Level	Level 4	Level 2	Level 4	Level 2	Level 4	Level 4	Level 2	Level 4	Level 2	Level 4	Level 2	Level 4	Level 2	Level 4	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 U	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	**26**	**69**	**20**	**20**	1 U	1 U	1 U	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	**26**	**69**	**20**	**20**	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	**0.96 J**	**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	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*	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
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*	10 U	2 U	10 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 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	**0.96**	**1.2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other																								
Sulfate	µg/L	14808-79-8	250000			**21500**	**33700**	**48900**	**43100**	**36300**	**59800 J**	**111000**	**96800**	**184000**	**5400 J**	**6300**	**6800**	**6900**						

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-06S	Dup-06	OU2MW-06S	OU2MW-06S	OU2MW-06S	OU2MW-06	OU2MW-06	DUP-04	OU2MW-06	OU2MW-06	OU2MW-08WT	OU2MW-08S	OU2MW-08I	OU2MW-08I2	OU2MW-08D	OU2MW-09	OU2MW-11S	OU2MW-11S	OU2MW-11S	OU2MW-11S	OU2MW-11I
			Start Depth	3	3	3	3	3	15	15	15	15	15	3	20	35	50	65	30	3	3	3	3	20
			End Depth	8	8	8	8	8	25	25	25	25	25	8	25	40	55	70	40	8	8	8	8	25
			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	08/05/19	8/5/2019	11/12/19	02/26/20	09/01/20	08/05/19	11/12/19	11/12/2019	02/26/20	09/01/20	08/25/20	08/25/20	08/25/20	08/25/20	08/25/20	08/24/20	07/24/19	11/06/19	01/13/20	08/26/20	07/24/19
			Parent Sample Code		OU2MW-06S						OU2MW-06													
			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 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 U	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*	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
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*	10 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	10 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	10 U	10 U	10 U	2 U	10 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																					

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-11I	OU2MW-11I	OU2MW-11I	Dup-07	OU2MW-11I2	OU2MW-11I2	OU2MW-11I2	OU2MW-11I2	OU2MW-11D	OU2MW-11D	OU2MW-11D	OU2MW-11D	OU2MW-12S	OU2MW-12S	OU2MW-12S	OU2MW-12S	OU2MW-12I	OU2MW-12I	OU2MW-12I	OU2MW-12I2
			Start Depth	20	20	20	20	30	30	30	30	40	40	40	40	3	3	3	3	20	20	20	30
			End Depth	25	25	25	25	35	35	35	35	45	45	45	45	7	7	7	7	25	25	25	35
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	11/06/19	01/13/20	08/26/20	8/26/2020	07/24/19	11/06/19	01/13/20	08/26/20	07/24/19	11/06/19	01/13/20	08/26/20	08/15/19	11/06/19	01/13/20	08/27/20	08/15/19	11/06/19	01/13/20	08/27/20	08/15/19
			Parent Sample Code				OU2MW-11I																	
			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 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 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
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
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
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
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
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
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
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*
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
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
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
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
Chrysene		218-01-9	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*
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
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
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
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-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
Naphthalene		91-20-3	10*	10 U	10 U	2 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 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
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
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
Other																							
Sulfate	µg/L	14808-79-8	250000													7100	8100	10900	12000	2800 J	3800 J	2500 J	2400 J	7900

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-12I2	OU2MW-12I2	OU2MW-12I2	OU2MW-12D	OU2MW-12D	OU2MW-12D	OU2MW-12D	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I2	OU2MW-19I2	DUP-05	OU2MW-19I2	OU2MW-19I2	OU2MW-19D	OU2MW-19D	OU2MW-19D	OU2MW-19D	OU2MW-28S
			Start Depth	30	30	30	40	40	40	40	13	13	13	13	35	35	35	35	35	65	65	65	65	65	5
			End Depth	35	35	35	45	45	45	45	23	23	23	23	45	45	45	45	45	70	70	70	70	70	15
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	11/06/19	01/13/20	08/27/20	08/15/19	11/06/19	01/13/20	08/27/20	07/24/19	11/15/19	01/15/20	08/21/20	07/24/19	11/15/19	11/15/19	01/15/20	08/21/20	07/24/19	11/15/19	01/15/20	08/21/20	08/20/20	
			Parent Sample Code														OU2MW-19I2								
			Validation Level	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 4	Level 4	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	1 U	**0.69 J**	1 U	1 U	**0.77 J**	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	**0.33 J**	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	**4.5**	2 U	**4.3**	**2.7**	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	**5.19**	ND	**4.63**	**3.47**	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	**2.9 J**	10 U	**1.7 J**	**5.8 J**	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*	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
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*	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	10 U	2 U	**5.3 J**	10 U	**29**	**30**	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	**8.2**	ND	**30.7**	**35.8**	ND
Other																									
Sulfate	µg/L	14808-79-8	250000	**5600**	**6200**	**10000**	**10200**	**28900**	**15700**	**10400**										**37000**	**31000**	**46100**	**89400**	

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-28I	OU2MW-28I2	DUP-06	OU2MW-29I	OU2MW-29I2	OU2MW-29D	OU2MW-30S	OU2MW-30S	OU2MW-30S	OU2MW-30S	OU2MW-30I	OU2MW-30I	OU2MW-30I	OU2MW-30I	OU2MW-30I2	OU2MW-30I2	OU2MW-30I2	OU2MW-30I3	OU2MW-30I3	OU2MW-30I3
				Start Depth	28	40	40	18	30	45	5	5	5	5	25	25	25	25	30	30	30	30	45	45	45
				End Depth	33	45	45	23	35	50	15	15	15	15	30	30	30	30	35	35	35	35	50	50	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	08/20/20	08/20/20	08/20/20	08/20/20	08/20/20	08/20/20	07/15/19	11/11/19	01/20/20	08/18/20	07/15/19	11/11/19	01/20/20	08/18/20	07/15/19	11/11/19	01/20/20	08/18/20	07/15/19	11/11/19	01/20/20
				Parent Sample Code			OU2MW-28I2																		
				Validation Level	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 4	Level 2	Level 4	Level 2	Level 4	Level 2	Level 4	Level 2	Level 4	Level 2	Level 4	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	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	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	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	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	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
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
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
Benzo(b)fluoranthene		205-99-2	0.002*	2 U*	2 U*	2 U*	2 U*	2 U*	**0.79 J***	2 U	2 U*	2 U	2 U	2 U	2 U*	2 U	2 U	2 U	2 U	2 U*	2 U	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
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*	10 U
Benzo(a)pyrene		50-32-8	NE	1 U*	1 U*	1 U*	1 U*	1 U*	**0.42 J***	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 UJ
Chrysene		218-01-9	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
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 UJ	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 UJ	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
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	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 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	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	10 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	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
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	**1.21**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other																									
Sulfate	µg/L	14808-79-8	250000																				**29100**	**50200**	**15000**

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-30I3	OU2MW-30D	OU2MW-30D	OU2MW-30D	OU2MW-30D	OU2MW-30D2	OU2MW-30D2	OU2MW-30D2	OU2MW-30D2	OU2MW-34IR	OU2MW-34I2R	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39I	OU2MW-39I	OU2MW-39I	OU2MW-39I	OU2MW-39I2	OU2MW-39I2
			Start Depth	45	50	50	50	50	60	60	60	60	25	45	5	5	5	5	25	25	25	25	45	45
			End Depth	50	55	55	55	55	65	65	65	65	30	50	15	15	15	15	30	30	30	30	50	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	08/18/20	07/15/19	11/11/19	01/20/20	08/18/20	07/15/19	11/11/19	01/20/20	08/18/20	08/26/20	08/26/20	08/22/19	11/14/19	02/25/20	08/11/20	08/21/19	11/14/19	02/25/20	08/11/20	08/22/19	11/14/19
			Parent Sample Code																					
			Validation Level	Level 2	Level 4	Level 2	Level 4	Level 2	Level 4	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	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	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 UJ	1 U	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
Chrysene		218-01-9	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
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 UJ	1 U	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
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	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	2 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 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	**17500**	**36200**	**189000**	**44800**	**33600**	**171000**	**188000**	**164000**	**188000**												

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-39I2	OU2MW-39I2	DUP-05	OU2MW-39D	DUP-07	OU2MW-39D	OU2MW-39D	OU2MW-39D	OU2MW-39D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-43D	OU2MW-43D	OU2MW-43D	OU2MW-43D	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47I
			Start Depth	45	45	45	70	70	70	70	70	70	60	60	60	60	65	65	65	65	5	5	5	5	20
			End Depth	50	50	50	75	75	75	75	75	75	65	65	65	65	70	70	70	70	15	15	15	15	25
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	02/25/20	08/11/20	8/11/2020	08/21/19	08/21/19	11/14/19	02/25/20	08/11/20		08/20/19	11/14/19	02/25/20	08/11/20	08/20/19	11/14/19	02/12/20	08/26/20	07/23/19	11/18/19	02/24/20	08/26/20	07/23/19
			Parent Sample Code			OU2MW-39I2		OU2MW-39D																	
			Validation Level	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2		Level 2	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	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		**1.6**	**3.6**	**2.9**	**4.2**	**1.4**	**1.4**	**2.6**	**3.3**	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	**0.45 J**	**0.43 J**	1 U	1 U	1 U		**32**	**39**	**17**	**28**	**2.2**	1 U	**0.52 J**	**1.3**	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		**37**	**38**	**18**	**49**	**4.5**	**0.31 J**	**0.45 J**	**1.3**	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	2 U	2 U		**210**	**240**	**120**	**230**	**50**	**8.6**	**8.8**	**25**	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	**0.45**	**0.43**	ND	ND	ND		**280.6**	**320.6**	**157.9**	**311.2**	**58.1**	**10.31**	**12.37**	**30.9**	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		100 U	50 U	50 U	100 U	**1.8 J**	**1.4 J**	**1.7 J**	**3.9 J**	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		**32 J**	**39 J**	**35 J**	**74 J**	**16**	**6.5 J**	**16**	**33**	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		100 U	50 U	50 U	100 U	**0.77 J**	10 U	10 U	20 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		10 U	5 U	5 U	10 U	1 U	1 U	1 U	2 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		20 U	10 U	10 U	20 U	2 U	2 U	2 U	4 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		10 U	5 U	5 U	10 U	1 U	1 U	1 U	2 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		100 U	50 U	50 U	100 U	10 U	10 U	10 U	20 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		10 U	5 U	5 U	10 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	2 U	2 U*	2 U*	2 U	2 U	2 U	2 U	2 U*		20 U	10 U	10 U	20 U*	2 U	2 U	2 U	4 U	2 U	2 U	2 U	2 U	2 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		10 U	5 U	5 U	10 U	1 U	1 U	1 U	2 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*		100 U	50 U	50 U	100 U*	10 U	10 U	10 U	20 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		100 U	50 U	50 U	100 U	10 U	10 U	10 U	20 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		20 U	10 U	10 U	20 U	2 U	2 U	2 U	4 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		**70 J**	**63**	**35 J**	**67 J**	**7.4 J**	10 U	10 U	**4.6 J**	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	10 U	2 U	2 U	10 U	10 U	10 U	10 U	2 U		**540**	**390**	**570**	**800**	**40**	**3 J**	**49**	**250**	10 U	10 U	10 U	2 U	10 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		100 U	**6.2 J**	**5.9 J**	**6.9 J**	**4 J**	**2 J**	**2.7 J**	**5.1 J**	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		100 U	50 U	50 U	100 U	10 U	10 U	10 U	20 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		**642**	**498.2**	**645.9**	**947.9**	**69.97**	**12.9**	**69.4**	**296.6**	ND	ND	ND	ND	ND
Other																									
Sulfate	µg/L	14808-79-8	250000										**132000**	**172000**	**163000**	**164000**	**165000**	**119000**	**160000**	**174000**					

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
			Sample Name	Dup-04	OU2MW-47I	OU2MW-47I	DUP-07	OU2MW-47I	OU2MW-47I2	OU2MW-47I2	OU2MW-47I2	OU2MW-47I2	OU2MW-47I2	OU2MW-47D	OU2MW-47D	OU2MW-47D	OU2MW-47D
			Start Depth	20	20	20	20	20	40	40	40	40	40	60	60	60	60
			End Depth	25	25	25	25	25	45	45	45	45	45	65	65	65	65
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	7/23/2019	11/18/19	02/24/20	02/24/20	08/26/20	07/23/19	11/18/19	02/25/20	08/26/20	07/23/19	11/18/19	02/24/20	08/26/20	
			Parent Sample Code	OU2MW-47I			OU2MW-47I										
			Validation Level	Level 4	Level 2	Level 2	Level 2	Level 2	Level 4	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
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
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
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
Total BTEX (ND=0)		TBTEX_ND0	NE	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
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
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
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
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
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
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
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
Chrysene		218-01-9	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
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
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
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
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-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
Naphthalene		91-20-3	10*	10 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 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
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
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other																	
Sulfate	µg/L	14808-79-8	250000										**26700 J**	**26900**	**24500**	**37800**	

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		2000		2001				2002						2003			2004		
		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	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	85	--	--	--	--	--	--	--	--	--	--	2	--	3	5	0	0	0	0	0	0
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7,580	5,380	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	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	99,400	124,800	263,000	149,000	172,400	22,000
MW-02I/I-R	22.5 - 23.5	--	--	238,900	1,435	4,201	650	965	144	0	65	199	33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	63	14	--	--
MW-03	4.94 - 14.94	--	35	--	1	--	--	--	--	--	178	--	--	--	--	--	--	--	--	--	24	24	--	3	28	23	85	--	35	51	52
MW-04	5.1 - 15.1	--	1	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	2	--	28	9	0	69	--	0	0	0
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	172	382	16	0	0	0
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	10,400	27,260	42,700	354	1,320	41,800
MW-16I	14.0 - 19.0	--	--	--	24	10	55	1	45	0	0	6	12	0	--	--	--	--	--	--	--	--	2	--	--	--	--	0	0	--	--
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	0	0	0	0	0	0
MW-29D	14.0 - 19.0	--	--	--	0	--	0	0	0	0	0	0	0	8	--	--	--	--	--	--	--	--	0	--	--	--	--	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,290	4,832	1,189	2,048	74,400
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	2,141	34,600	2,827	13,000	13,900	3,364
MW-34I	18.5 - 19.5	--	--	25,600	--	0	3	0	0	0	6	10	3	0	--	--	--	--	--	--	--	--	3,690	--	--	--	--	--	4,090	--	--
MW-34D	27.5 - 28.5	--	--	16,200	--	35	3	0	1	0	0	15	0	55	--	--	--	--	--	--	--	--	0	--	--	--	0	0	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	--	8,500	720	1,950	25,000	2,780
MW-46W/W-R	2.0 - 10.0	--	30,000	--	29,900	--	--	--	--	--	--	--	--	57,900	25,300	23,800	17,300	--	--	--	--	--	--	--	21,100	35,800	18,800	8,800	43,400	20,800	23,100
MW-64	19.0 - 24.0	--	--	--	0	0	0	0	0	0	0	25	--	0	0	0	0	--	84	--	--	9	0	0	14	85,000	0	0	0	0	24
MW-65	11.0 - 16.0	--	--	--	0	--	--	--	--	18	--	31	0	0	0	1	0	51	0	--	--	9	0	0	31	0	0	0	0	0	0
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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		2000		2001				2002						2003			2004		
		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	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
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	23,800	12	1,170	1,114	6,150	39,400
MW-73	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	29,500	8,990	7,140	9,400	26,600	5,220	--	64,000	89,000	34,000	33,000	71,500
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-75	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6,580	4,010	78	45	65,700	82,800	158	1,260	161,100	110,500	4,060	1,302	34,500
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,702	230	37	252	4,560	21	0	109	136	0	--	0
MW-78	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17,400	3,790	2,156	2,840	17,700	1,320	11,960	30,800	42,000	11,800	18,200	13,400
MW-79	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,090	627	74,200	87,100	12,700	69,800	101,600	93,700	116,000	82,600	34,820
MW-80	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	48,000	635	457	6,220	87,600	387	33,300	88,000	126,000	118,000	96,000	81,400
MW-81	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,449	1,318	28,200	31,600	1,530	12,930	53,600	33,000	63,000	25,000	20,400
MW-82	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,840	1,269	110	26,900	48,300	1,444	17,910	245,000	46,000	20,280	9,160	30,300
MW-83	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	189	120	3	458	1,297	8	62	40	950	0	54	0
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	0	0	0	2,853	323	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	--	0	--	--	0	0	0
MWBS-02D	24.5 - 25.5	--	--	62	0	--	2,450	23	25	0	17,530	0	0	0	--	--	--	--	--	--	--	--	3	--	--	0	--	--	0	--	--
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	694	885	--	307	1,727	1,033	1,110	1,911	51	2,343	2,700
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	661	1,340	--	335	599	1,160	2,400	1,854	440	1,812	3,800
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	75	141	--	21	46	33	79	74	145	320	0
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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		2000		2001				2002						2003			2004		
		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	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
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	1,400	0	0	0	0	0
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	86,100	72,600	67,700	93,600	53,300	--	--	68,000	74,000	115,900	117,600	82,000
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	52	40	2	137	820	2	127	73,800	92,300	0	0	0
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	5,870	9,810	23,100	33,200	11,600	615
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																											
		2004	2005				2006				2007				2008				2009				2010				2011			
		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	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	--	--	--
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	0	--	0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	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	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	10	0	0	0	0	--	0
BBMW-29	2.0 - 9.0	--	0	0	0	4,368	974	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	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	0
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	2	--	--	0	0	0	0	0	0	0	0	0
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	3	--	--	0	0	0	0	0	0	0	0	0
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	3	--	--	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	--	--	0	0	0	2	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	0	0	--	0
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	0	0	0	0	0	1	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	0	0	--	--	--
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	0	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	10	21,100	290	3,627	45	0	0	0	101	2,300	0	0	83	0	73	0	0	0	0	0	0	0	0	1,275	82	17,660	11,855	13,120	9,050
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	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	0	--	--	--	0	0	0	--	0	--	--	--	0	--	--	--
MW-02S/S-R	2.0 - 12.0	427	2,050	13	94	194	945	51	0	68	346	625	1,695	248	27	1	16	47	812	64	--	--	--	--	--	--	--	--	--	--
MW-02I/I-R	22.5 - 23.5	--	62	--	--	--	0	--	--	--	0	0	0	0	0	0	3	0	0	0	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	0	22	28	24	27	0	24	28	14	0	0	20	18	5	5	9	11	6	14	16	18	14	14	12	3	3	--	--	--
MW-04	5.1 - 15.1	0	0	0	0	0	12	0	0	0	0	0	0	0	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	1,449	30	6,580	1,400	2,071	190	61	0	933	42	110	62	97	95	77	35	8	0	0	27	0	0	0	0	0	0	10	33	52
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	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	36,270	11,710	5,840	14,280	3,275	4,192	--	--	--	--	--	--	--	--	--	--
MW-16I	14.0 - 19.0	--	0	--	--	--	0	--	--	--	0	103	0	59	84	17	0	4	0	0	--	--	--	--	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	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	10	0	0	106	130	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0
MW-32W/W-R	2.0 - 9.0	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	2,040	57	0	29	232	91	277	2	120	0	0	0	0	62	1,548	795
MW-34S	2.0 - 10.0	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	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
MW-34I	18.5 - 19.5	--	1,348	--	--	--	0	--	--	--	0	0	5	934	35	0	0	0	0	0	0	0	0	0	222	0	1,240	4,970	6,421	7,177
MW-34D	27.5 - 28.5	--	0	--	--	--	0	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,773	2,357
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
MW-45W	2.0 - 10.0	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	3,600	5,690	242	142	4,210	15,700	1,737	15	323	1,075	1	0	14	0	0	0
MW-46W/W-R	2.0 - 10.0	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	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
MW-64	19.0 - 24.0	7,650	0	5,651	0	750	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2,270	13,530	18,020	23,140	21,050	3,698
MW-65	11.0 - 16.0	3,852	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	7	0	0	0	0	0	0	0	5	0	0	0	5,639
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	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	0
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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																											
		2004	2005				2006				2007				2008				2009				2010				2011			
		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	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	70	267	45,500	57,000	4,630	4,360	175	277	363	31	268	351	1,577	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
MW-73	2.0 - 12.0	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	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
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8,350	1,760
MW-75	2.0 - 12.0	212	1,815	129,200	157,100	17,000	5,389	1,540	3,600	491	580	355	9,420	2,254	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
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,370	5,821
MW-76	2.0 - 12.0	33	0	170	23	0	27	0	0	0	0	0	4	7	2	0	1	0	0	0	0	0	0	2	0	0	1	0	0	112
MW-78	5.0 - 20.0	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	54	167	449	312	2,590	2,140	3,370	599	650	--	4,890	4,650	210	1,380	583	3,010
MW-79	5.0 - 20.0	24,100	32,300	9,800	7,300	588	3,740	3,320	1,220	7,690	13,900	2,840	2,030	542	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
MW-80	5.0 - 20.0	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	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
MW-81	5.0 - 20.0	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	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
MW-82	5.0 - 20.0	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	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
MW-83	5.0 - 20.0	1,543	788	980	1,280	142	101	0	5,042	161	41	2,320	6,761	39	36	0	687	2,145	0	0	66	0	0	4	10	2,387	11	16	155	2,339
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	0	22	82	0	0	0	0	0	0	0	0	0	8	0	0	0	0	98	0	268	103	939	56	115	3	0	11	4	120
MWBS-02I	14.5 - 15.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	3	30	14	4	107	83	0	2	4	1	34
MWBS-02D	24.5 - 25.5	--	87	--	--	--	191	--	--	--	0	0	0	0	17	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
MW-UST1	2.0 - 12.0	240	122	660	830	1,083	117	1,270	2,400	944	950	1,250	796	470	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	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	22	247	41	12	0	0	19	0	0	14	0	6	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	5	0	0	0	0	0	0	0
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	3	0	0
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	58	0	0	15	0	0	542	224	698	8,690
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	4	132	0	0	2,463	1,480	5,630	769
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37	114	0	0	7	0	21	2	0	18
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	187	0	0	336	208	0	0	108	541	115
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	152	15,384
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	246	75	0	0
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	7	0	0	11	0	0
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,461	39	8	251	179	108	0	0
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	4,040	326	61	38
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	3,267	10,427	3,520	1,416
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,200	5,730	4,530	4,940	1,970
OU3MW-08I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-09S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,002	407	365	287	79
OU3MW-09I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38,700	31,840	20,390	22,230	23,690
OU3MW-09I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	46
OU3MW-10S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,614	3,084	958	492	251
OU3MW-10I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8	0	0	1	63
OU3MW-11S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU3MW-11I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,490	2,730
OU3MW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	34,200	31,100
OU3MW-15S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,598	1,444
OU3MW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	43	898
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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																												
		2004	2005				2006				2007				2008				2009				2010				2011			
		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	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
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	70,920	0	0	0	0	0	0	--	0	0	0	0	0	0	18	0	0
PDMW-02	5.0 - 20.0	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	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	26,900	24,900	25,500	1,600	32	27,400	42	0	0	26,000	0	0	0	0	0	26	1	34,300	4	0	212	32,000	27	0	0	17	20
SV-02I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12,120	1,562
SV-02I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
SV-03	2.0 - 12.0	4,400	936	5,509	249	2,702	570	257	831	116	65	207	185	341	105	477	60	56	29	10	5	8	0	0	5	144	3	7	10	3
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																											
		2012				2013				2014				2015				2016				2017				2018			
		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-09S	5.0 - 15.0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09I	30.0 - 40.0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09D	62.0 - 72.0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28S	2.0 - 12.0	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	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-29	2.0 - 9.0	0	0	15	0	1	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-30S	2.0 - 10.0	0	0	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	0	0	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	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	--	--	--	--	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	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	--	--	--	--	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	0	0	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	0	0	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	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	--	--	--	--	--	--	--	--	--	--
BW-UST-10	5.0 - 10.0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-11	5.0 - 10.0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-28	5.0 - 10.0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-29	5.0 - 10.0	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	4,578	5,794	0	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	--	0	--	--
IP-16B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	43	201	20	0	18	0	0	0	6	0	--	--	1.043	--	--
IP-18A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	3,660	0	0	0	0	0	0	--	0	--	--	--	0	--	--
IP-18B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	3	167	12	0	0	3	0	0	0	--	--	--	0	--	--
IP-20A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	1,580	126	10	62	4,846	159	0	0	247	24	2	0	1272.7	0	0
IP-20B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	2,511	654	0	271	69	0	0	87	76	0	0	0	0.92	0	--
MW-01S	4.0 -14.0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01D	35.0 - 45.0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02S/S-R	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02I/I-R	22.5 - 23.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04	5.1 - 15.1	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08W	5.0 - 10.0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	13	585	1,534	428	2	4	0	--	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-12W	2.0 - 10.0	4	488	18	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	--	--	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29D	14.0 - 19.0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-30W/W-R	2.0 - 9.0	30	26	0	--	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-32W/W-R	2.0 - 9.0	8	25	10	156	2	3	1	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-34S	2.0 - 10.0	4,310	1,737	227	126	1	0	0	1	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-34I	18.5 - 19.5	11,070	4,165	80	58	38	18	13	4	510	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-34D	27.5 - 28.5	236	1,747	203	1	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	0	0	--	--	--	15	--	--	--	--	0	--	--	0	--	--
MW-37W	2.0 - 10.0	0	0	0	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	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	36	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-46W/W-R	2.0 - 10.0	270	1,187	9	3	0	0	0	156	0	0	0	0	0	0	--	--	--	11	--	--	--	--	--	--	--	0	--	--
MW-64	19.0 - 24.0	5,704	12,929	25,962	6,549	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	4	1.96	4	966
MW-65	11.0 - 16.0	2,324	564	557	328	309	4	151	94	58	12	67	21	9	0	89	8	141	22	--	--	--	--	1	0	--	0	--	4
MW-66S	1.5 - 11.5	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	--	--	--	--	--	--	--	--	--	--
MW-67S	2.5 - 12.5	0	--	--	--	--	0	--	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29	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	--	--	--	--	--	--	--	--	--	--

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																											
		2012				2013				2014				2015				2016				2017				2018			
		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
MW-68D	25.0 - 30.0	--	--	--	--	20	2	0	0	5	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	5,120	1,908	1,735	38	4	0	3	9	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-73	2.0 - 12.0	581	3,610	1,128	1,338	1,109	1,822	315	3	11	0	0	0	200	0	0	0	2	3	0	0	0	0	0	--	--	0	--	--
MW-73I	22.0 - 27.0	1,200	1,590	1,325	1,098	1,147	719	945	4	13	10	0	75	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-75	2.0 - 12.0	32	72	6,990	3,420	24	173	1,471	7	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-75I	22.0 - 27.0	20,409	990	2,012	1,652	492	517	335	22	104	12	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
MW-76	2.0 - 12.0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-78	5.0 - 20.0	4,390	4,280	25,300	8,900	2,030	18,290	14,250	88	7	0	117	19	29	59	11	0	38	14	0	0	0	26	0	0	4	8.08	0	--
MW-79	5.0 - 20.0	9,580	9,930	14,900	8,040	3,340	4,260	4,030	25	6	0	0	17	17	0	0	0	3	3	0	0	29	4	0	0	0	0	0	--
MW-80	5.0 - 20.0	5,270	12,980	5,250	4,450	5,340	3,080	5,230	50	421	44	203	8	0	930	4,591	4	0	0	42	0	0	0	0	0	--	0	--	--
MW-81	5.0 - 20.0	2,225	7,390	7,852	7,158	251	1,023	1,096	8	6	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-82	5.0 - 20.0	1,487	1,196	259	1,609	523	461	564	12	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-83	5.0 - 20.0	1,992	662	186	281	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	177	28	12	1	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MWBS-02I	14.5 - 15.5	43	80	376	3	0	1	8	0	0	3	1	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	0	--
MWBS-02D	24.5 - 25.5	0	2,971	414	71	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	43	0	0	8	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	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	665	530	81	89	48	2	1	5	2	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	138	285	1,621	21	0	2,472	76	627	108	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	0	4	0	0	0	0	0	0	0	7	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	2,837	939	3,001	1,665	7	7	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	11	6	770	400	13	4	3	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	0	0	1	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	3	0	0	0	0	2	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	0	0	72	39	115	364	60	0	0	0	0	2	2	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	32	0	0	0	0	0	16	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	0	23	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
OU3MW-07I	15.0 - 20.0	0	850	57	1,121	0	0	0	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	7,366	2,502	37	20	19	14	6	4	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-07I3	25.0 - 30.0	12,187	107	12	3	36	5	0	1	0	0	0	0	30	0	0	0	0	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	0	0	0	0	0	0	0	0
OU3MW-08S	2.0 - 12.0	2,330	2,260	1,321	966	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	460	340	1,109	65
OU3MW-08I	25.0 - 30.0	0	2	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0 - 12.0	37	56	59	115	0	0	15	25	0	0	1	5	11	0	10	2	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-09I	25.0 - 30.0	5,920	1,948	2,441	3,497	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	1,244	719.2	2,798	466
OU3MW-09I2	35.0 - 40.0	27	18	73	27	16	70	9	14	6	10	7	8	6	3	0	--	--	0	--	--	--	9	--	--	--	--	--	--
OU3MW-10S	2.0 - 12.0	113	143	42	40	0	0	6	6	0	1	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--
OU3MW-10I	25.0 - 30.0	201	440	712	303	469	580	314	326	574	642	113	112	388	900	106	54	217	--	104	55	54	101	41	21	353	116.2	14	113
OU3MW-11S	2.0 - 12.0	8	0	0	--	--	0	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0 - 30.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0 - 12.0	5	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0 - 30.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0 - 12.0	21,000	2,700	3,940	21,000	6,100	12,120	537	4	277	810	1	15	1,370	168	0	8	4	0	0	203	0	0	0	3	1	0	2	0
OU3MW-14S	2.0 - 12.0	23,600	27,800	20,100	23,100	21,500	19,600	18,200	14	9	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0 - 12.0	204	412	1,847	2,254	51	184	881	21	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0 - 12.0	769	846	259	164	1,128	219	161	18	200	180	648	1,129	980	158	36	1,187	789	910	619	631	162	681	72	506	165	180.6	625	173
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	0	5.5	10	8
OU3MW-19I	20.0 - 25.0	--	--	--	--	--	--	106	502	0	--	0	74	427	142	0	0	0	0	0	0	0	13	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	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	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	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	0	0	774	0

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)																											
		Sampling Date																											
		2012				2013				2014				2015				2016				2017				2018			
		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
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	--	--	--	0	--	--
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	--	--	--	--	0	480	--	--	--	--	43	13	0	0	0	0	0	--	0	--	--	--	0.75	--	--
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	11	0	3	24
OU3MW-23I2/IP-17A	25.0 - 30.0	--	--	--	--	--	--	--	2,210	1,960	--	--	--	--	1,200	144	635	0	0	32	0	0	0	68	0	0	0	5	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	34	0.15	1	4
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	144	0	0	176
PDMW-01	5.0 - 20.0	2	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	114	0	767	1	0	0	0	7	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	0	--	--
SV-02I	22.0 - 27.0	1,035	8,568	6,944	25,765	1,407	294	147	32	0	6	1,413	270	0	1	271	0	0	0	0	0	0	--	--	0	--	0	--	--
SV-02I2	35.0 - 40.0	2	62	47	1	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--
SV-03	2.0 - 12.0	73	536	21	5	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)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2019				2020						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep					
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	--	50	--	0	0	0	0	664	54	51	51
IP-16B	24.0 - 25.0	--	0	--	--	--	--	0	201	24	24	24
IP-18A	14.0 - 15.0	--	--	--	--	--	--	0	3,660	407	407	407
IP-18B	24.0 - 25.0	--	--	--	--	--	--	0	167	19	19	19
IP-20A	14.0 - 15.0	0	59	--	0	0	0	0	4,846	441	419	419
IP-20B	24.0 - 25.0	--	4	--	--	--	278	0	2,511	245	247	247
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	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	57,900	9,981	9,981	9,981
MW-64	19.0 - 24.0	0	0	0	1,602	3	10	0	85,000	2,967	2,933	2,933
MW-65	11.0 - 16.0	0	7	47	1	12	0	0	5,639	191	188	188
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

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						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2019				2020						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep					
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	--	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	--	0	--	--	--	0	0	42,000	5,542	5,462	5,462
MW-79	5.0 - 20.0	--	0	--	--	--	0	0	116,000	13,356	13,163	13,163
MW-80	5.0 - 20.0	--	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	0	6,761	530	521	521
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	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	3,461	99	97	97
OU3MW-07I	15.0 - 20.0	0	0	0	0	0	0	0	4,040	158	155	155
OU3MW-07I2	20.0 - 25.0	0	0	0	0	0	0	0	10,427	698	681	681
OU3MW-07I3	25.0 - 30.0	1	0	0	0	0	0	0	12,187	375	364	364
OU3MW-07I4	35.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-08S	2.0 - 12.0	1,038	21	42	1,460	1,229	1,289	0	5,730	1,425	1,422	1,422
OU3MW-08I	25.0 - 30.0	--	--	--	--	--	--	0	2	0	0	0
OU3MW-09S	2.0 - 12.0	--	--	--	--	--	--	0	2,002	124	124	124
OU3MW-09I	25.0 - 30.0	645	586	857	1,530	29	31	29	38,700	5,231	5,097	5,097
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	319	16	8	28	388	7	0	900	223	217	217
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	3	0	--	--	--	0	0	21,000	2,328	2,257	2,257
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	151	242	212	94	77	49	18	1,187	438	427	427
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	7	0	12	5	5	4	0	6,350	768	739	739
OU3MW-19I	20.0 - 25.0	0	0	0	0	0	0	0	502	49	47	47
OU3MW-19I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-20S	2.0 - 12.0	0	0	0	0	0	0	0	85	7	7	7
OU3MW-20I	20.0 - 25.0	0	0	0	0	0	0	0	551	36	35	35
OU3MW-20I2	30.0 - 35.0	0	0	0	531	8	0	0	774	54	52	52

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						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2019				2020						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep					
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	32,200	6,108	6,108	6,108
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	--	--	--	0	480	49	49	49
OU3MW-23I/IP-17B	10.0 - 15.0	0	0	0	0	0	0	0	16,900	2,586	2,474	2,474
OU3MW-23I2/IP-17A	25.0 - 30.0	--	0	--	--	--	0	0	2,210	347	329	329
OU3MW-24I/IP-19A	10.0 - 15.0	0	0	--	--	--	0	0	3,530	549	522	522
OU3MW-24I2/IP-19B	25.0 - 30.0	0	0	0	711	1	9	0	20,120	1,819	1,741	1,741
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	92,300	6,556	6,556	6,556
SV-02I	22.0 - 27.0	--	--	--	--	--	--	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	2	350	119	89	89
TMW-1I2	25.0 - 30.0	--	--	2,334	538	82	459	82	2,334	985	853	853
TMW-2I	12.0 - 17.0	--	--	3	5	3	0	3	5	4	3	3
TMW-2I2	25.0 - 30.0	--	--	814	333	251	43	251	814	466	360	360
TMW-3I	12.0 - 17.0	--	--	5	42	26	118	5	42	25	48	48
TMW-3I2	25.0 - 30.0	--	--	733	26	221	0	26	733	327	245	245

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

Table 4-12. OU-3 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	1997		1998			1999				2000		2000		2001				2002						2003			2004			
		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	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	99	--	99	53	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	786	625	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
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	1,800	1,300	1,500	2,400	2060	254	0
MW-02I/I-R	22.5 - 23.5	--	--	6,478	99	12	11	10	1	0	0	0	53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	--	--	--
MW-03	4.94 - 14.94	--	40	--	0	--	--	--	--	--	77	--	--	--	--	--	--	--	--	--	103	85	--	89	50	0	45	--	26	19	43	19
MW-04	5.1 - 15.1	--	4	--	99	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	90	--	99	--	0	53	--	0	0	0	0
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	21	35	11	0	1729	0	110
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	72	590	649	0	0	1,022	2,068
MW-16I	14.0 - 19.0	--	--	--	18	0	0	3	0	0	7	0	0	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	0	0	0	0	0	0	0
MW-29D	14.0 - 19.0	--	--	--	0	--	0	0	0	0	0	0	0	2	--	--	--	--	--	--	--	--	0	--	--	--	--	--	0	--	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	130	0	0	370	877
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	27	130	30	160	130	49	210
MW-34I	18.5 - 19.5	--	--	103	--	0	0	2	8	0	0	0	203	0	--	--	--	--	--	--	--	--	22	--	--	--	--	--	496	--	--	--
MW-34D	27.5 - 28.5	--	--	10	--	0	0	0	2	0	0	0	0	2	--	--	--	--	--	--	--	--	0	--	--	--	0	96	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	--	49	38	170	699	65	341
MW-46W/W-R	2.0 - 10.0	--	1,482	--	4,156	--	--	--	--	--	--	--	--	2,141	228	0	21	--	--	--	--	--	--	--	380	690	264	160	647	150	589	443
MW-64	19.0 - 24.0	--	--	--	1	0	0	12	3	0	14	0	13	97	0	14	2	--	50	--	--	0	1	9	0	1,600	0	0	0	0	0	120
MW-65	11.0 - 16.0	--	--	--	17	--	--	--	--	3	--	9	34	8	13	34	4	--	228	--	--	0	0	0	38	0	65	0	37	0	0	502
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. OU-3 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	1997		1998			1999				2000		2000		2001				2002						2003			2004			
		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	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec
MW-70/70S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	1,720	84	2	1	0	4	--	7	--	4	3	0	200	18	32	18	46	260	0
MW-73	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,471	223	213	738	1,336	280	--	940	1,557	843	1,470	1,500	1,030
MW-73I	22.0-27.0																															
MW-75	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	73	153	93	100	2,553	2,863	58	0	1,700	1,490	60	0	387	0
MW-75I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	142	105	101	116	115	58	--	15	120	0	0	0	0
MW-78	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,439	371	278	161	735	66	550	692	958	585	707	85	22
MW-79	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	120	106	6,015	2,911	234	2,000	1,100	1,380	2,000	0	1,200	661
MW-80	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,511	88	2,316	152	1,426	53	1,100	1,178	1,700	2,500	1,600	1,390	1,370
MW-81	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	118	129	2,345	1,382	101	780	2,100	1,611	1,714	696	1,112	1,100
MW-82	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	245	138	83	2,784	3,090	49	390	570	810	733	276	19	995
MW-83	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	116	98	108	108	180	180	0	14	29	0	0	0	76
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	0	18	24	160	75	25	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	0	--	--	0	0	0	0
MWBS-02D	24.5 - 25.5	--	--	1	47	--	254	0	0	0	237	0	0	0	--	--	--	--	--	--	--	--	0	--	--	0	--	--	64	--	--	--
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	247	216	--	112	979	230	96	344	0	221	520	52
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	263	330	--	101	53	140	357	227	0	297	500	353
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	92	134	--	105	--	0	14	25	33	0	0	16
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. OU-3 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	1997		1998			1999				2000		2000		2001				2002						2003			2004			
		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	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec
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	13,000	0	0	0	0	0	71
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,929	2,181	1,933	5,848	3,250	--	--	1,130	1,714	2,300	2,463	1,918	2,316
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	95	112	99	99	186	103	0	430	515	0	0	0	0
SV-02I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	332	95	108	297	279	49	190	280	548	536	272	150	130
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 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																													
		2005				2006				2007				2008				2009				2010				2011				2012		
		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	Mar-Apr	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
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	1	--	--	--	0	--	--
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	150	--	0	--	0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	0	--	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	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	0	7	--	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	0	0	2	0	0	0	0
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	0	0	0	0	0	0	0	0	4	0	0
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	0	4	0	0	--	--	--	0	--	--	3	0	0	0	0	0	0	0	0	0	1	5
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	0	0	0	0	0	0	0	0	0	0	2
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	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	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	0	0
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	0	1	1	0	--	--	--	0	--	--	3	0	0	0	1	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	0	0	0
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	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	0	0	--	0	0	0	0
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	0	0	0	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	0	0	0	68	0	2	1	0	0	0	0	0	0	0	0	0	0	0	--	--	--	16	--	--
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	0	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	3	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	937	91	350	0	0	0	0	0	100	0	0	18	0	4	0	0	0	0	0	0	0	0	102	0	992	1,285	682	689	704	876	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	1	0	0	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	--	--	--	0	--	--
MW-02S/S-R	2.0 - 12.0	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	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	21	34	40	57	0	28	35	34	35	11	56	0	12	0	0	28	0	0	82	16	0	62	0	0	3	--	--	--	6	--	--
MW-04	5.1 - 15.1	0	0	0	0	0	0	0	0	0	0	1	0	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	0	10	0	27	15	18	0	19	0	0	5	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	2	8	37
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47	0
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0		0	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	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	57	--	--	--	0	--	--	--	0	44	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	3	0	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	--	--
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	0	0	0	0	0	1	0
MW-32W/W-R	2.0 - 9.0	55	59	0	180	110	89	98	100	97	45	47	105	123	38	12	0	3	6	4	4	0	0	0	0	0	0	29	39	14	3	0
MW-34S	2.0 - 10.0	212	52	67	110	461	397	210	140	150	68	110	402	81	186	51	42	83	105	17	0	15	14	49	702	112	78	229	179	284	196	120
MW-34I	18.5 - 19.5	290	--	--	--	0	--	--	--	0	0	0	124	12	0	0	0	0	0	0	0	0	0	247	0	150	234	832	598	869	696	8
MW-34D	27.5 - 28.5	0	--	--	--	0	--	--	--	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	306	290	40	281	82
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
MW-45W	2.0 - 10.0	723	180	424	561	895	74	40	233	0	0	10	9	0	0	0	0	10	153	60	0	2	0	1	0	0	0	0	0	0	0	0
MW-46W/W-R	2.0 - 10.0	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	195	103	92	51	27	95	3
MW-64	19.0 - 24.0	0	318	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	3	0	0	0	284	806	1,067	995	1,183	516	500	2,199	2,168
MW-65	11.0 - 16.0	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	1,415	1,268	299	208
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	0	0	0	1	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	0	0	0	0
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. OU-3 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																													
		2005				2006				2007				2008				2009				2010				2011				2012		
		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	Mar-Apr	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
MW-70/70S	2.0 - 12.0	0	170	556	57	91	0	11	13	0	0	10	13	39	25	96	22	14	8	13	0	25	2	102	179	182	222	319	257	295	243	264
MW-73	2.0 - 12.0	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	37	190	175	171	16	183	123
MW-73I	22.0-27.0																									--	--	698	131	96	134	120
MW-75	2.0 - 12.0	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	0	0	765	10	0	0	395
MW-75I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	656	656	3,289	469	670
MW-76	2.0 - 12.0	47	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-78	5.0 - 20.0	463	1,160	493	0	445	493	616	0	0	46	40	31	0	0	0	0	0	191	0	0	0	--	0	36	58	0	37	155	264	1	527
MW-79	5.0 - 20.0	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	32	0	623	6	443	5	1,206
MW-80	5.0 - 20.0	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	215	0	640	14	79	487	229
MW-81	5.0 - 20.0	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	86	0	463	5	126	563	850
MW-82	5.0 - 20.0	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	50	0	326	182	522	319	0
MW-83	5.0 - 20.0	140	0	150	25	0	0	230	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0	11	7	23	0	242	249	5
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	150	41	0	0	0	0	0	0	0	0	0	0	0	7	0	0	3	1	7	13	122	45	33	0	0	0	0	0	88	31	2
MWBS-02I	14.5 - 15.5	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	14
MWBS-02D	24.5 - 25.5	0	--	--	--	16	--	--	--	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	174	160
MW-UST1	2.0 - 12.0	55	260	392	373	140	520	541	260	358	363	239	140	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	621	373	361	208	265	457	227	120	155	59	450	550	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	26	0	0	0	0	12	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	1	0	0
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	0	0	0	0	0	34	160	17	100	110	35	28
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	6	0	0	40	57	368	33	13	28	252
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19	21	0	0	0	8	69	25	0	0	0	1	0
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9	0	0	30	44	0	0	2	24	15	0	0	0
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	32	690	297	134	804
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6	195
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	6	12	0	0	0	3
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	10	0	0	3	0	0	0	0	0
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	527	36	13	5	0	1	0	0	0	0	0
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	73	21	0	0	0	77	1
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	91	654	695	257	1,020	517	6
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,800	0	3
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU3MW-08S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	297	449	0	855	0	376	360	206
OU3MW-08I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	2	0
OU3MW-09S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	345	0	0	61	3	0	0	4
OU3MW-09I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,453	1,528	1,207	1,765	1,973	1,263	331	259
OU3MW-09I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		--	--	0	2	3	2	4
OU3MW-10S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	417	240	225	123	0	42	51	16
OU3MW-10I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	30	116	28	85
OU3MW-11S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	2	0	0
OU3MW-11I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OU3MW-12S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OU3MW-12I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OU3MW-13S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	117	55	1,244	13	268
OU3MW-14S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	785	579	641	660	612
OU3MW-15S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	377	113	19	0	277
OU3MW-16S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9	110	140	220	191
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. OU-3 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																														
		2005				2006				2007				2008				2009				2010				2011				2012		
		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	Mar-Apr	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
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	1,464	0	0	2	0	0	0	--	0	0	0	0	0	0	4	0	0	0	0	0
PDMW-02	5.0 - 20.0	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	39	190	324	0	0	35	0	0	0	133	0	0	3	0	0	0	0	669	0	0	0	770	0	0	0	6	1	1	0	9
SV-02I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,075	133	104	618	626
SV-02I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	5	5
SV-03	2.0 - 12.0	80	33	0	0	96	57	0	0	17	0	31	72	17	0	0	0	0	0	1	0	0	0	0	1	0	0	0	6	11	17	39
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 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																								
		2012	2013				2014				2015				2016				2017				2018			
		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-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	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-28I	10.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-29	2.0 - 9.0	0	0	0	2	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	--	--	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	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	--	--	--	--	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	0	0	0	0	0	0	0	0	2	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	--	--	--	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	0	4	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
IP-16A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	1	0	0	0	4	0	0	0	0	0	--	0	--	--
IP-16B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	43	2	0	16	0	0	0	5	0	--	--	6.3	--	--
IP-18A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	--	0	--	--	--	0	--	--
IP-18B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	12	0	0	0	--	--	--	0	--	--
IP-20A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	17	0	0	284	5	0	0	2	0	0	0	64	0	0
IP-20B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	95	0	220	27	0	0	26	41	0	0	0	2.6	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	38	3	0	0	--	2	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-12W	2.0 - 10.0	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	--	--	--	--	--	--	--	--	--	--
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	16	0	0	0	0	0	0	0	2	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-34S	2.0 - 10.0	134	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-34I	18.5 - 19.5	23	0	7	1	0	26	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-34D	27.5 - 28.5	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	--	--	--	12	--	--	--	--	0	--	--	0	--	--
MW-37W	2.0 - 10.0	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	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-46W/W-R	2.0 - 10.0	1	0	0	0	2	0	0	0	0	0	0	--	--	--	11	--	--	--	--	--	--	--	0	--	--
MW-64	19.0 - 24.0	1,134	648	370	267	0	598	193	22	563	39	4	312	0	0	4	0	0	15	6	1	0	8	0	11	172
MW-65	11.0 - 16.0	201	76	3	20	57	24	22	23	20	27	1	10	0	14	8	--	--	--	--	0	0	--	11	--	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	1	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	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	--	--	--	--	--	--	--	--	--	--

Table 4-12. OU-3 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																							
		2012	2013				2014				2015				2016				2017				2018			
		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
MW-70/70S	2.0 - 12.0	40	1	0	0	1	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-73	2.0 - 12.0	89	31	92	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
MW-73I	22.0-27.0	130	80	95	124	0	0	0	0	2	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-75	2.0 - 12.0	114	1	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-75I	22.0-27.0	837	230	105	176	8	10	3	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
MW-76	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-78	5.0 - 20.0	476	176	744	743	4	0	0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	--
MW-79	5.0 - 20.0	838	246	894	474	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--
MW-80	5.0 - 20.0	275	223	121	188	0	11	0	24	0	0	6	56	0	0	0	0	0	0	0	0	--	0	--	--
MW-81	5.0 - 20.0	784	27	107	205	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-82	5.0 - 20.0	341	74	74	180	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-83	5.0 - 20.0	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	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MWBS-02I	14.5 - 15.5	14	0	0	0	8	0	0	0	0	0	15	--	--	--	0	--	--	--	--	--	--	--	--	0	--	--
MWBS-02D	24.5 - 25.5	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	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	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	12	19	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	21	0	611	5	209	1	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	402	0	26	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	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	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	1	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	7	10	156	29	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	0	0	0	0	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	0	0	0	0	0
OU3MW-07I	15.0 - 20.0	86	0	0	0	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	5	1	1	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-07I3	25.0 - 30.0	0	0	3	0	0	0	0	0	0	3	0	0	0	0	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	2	2	0	0	0
OU3MW-08S	2.0-12.0	153	397	28	285	468	383	247	217	155	227	0	194	195	61	71	323	123	121	82	237	47	10	0	0	10
OU3MW-08I	25.0-30.0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0-12.0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-09I	25.0-30.0	525	267	283	184	121	123	55	101	154	308	60	121	184	57	256	135	150	132	214	143	242	204	84.3	224	82
OU3MW-09I2	35.0-40.0	2	2	9	2	2	1	1	0	1	2	1	0	--	--	0	--	--	--	2	--	--	--	--	--	--
OU3MW-10S	2.0-12.0	3	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--
OU3MW-10I	25.0-30.0	79	0	120	121	105	97	132	44	48	102	62	29	12	56	--	14	3	9	22	4	4	88	14	0	24
OU3MW-11S	2.0-12.0	--	--	0	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	720	600	662	262	0	0	89	0	0	77	5	0	0	0	0	0	22	0	0	0	3	0	0	0	0
OU3MW-14S	2.0-12.0	661	413	380	778	3	2	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0-12.0	260	4	12	282	3	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0-12.0	120	263	161	0	8	61	94	334	486	204	45	8	211	142	261	122	55	72	121	0	34	11	34	0	98
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	7	7	1	0	0	0	0	0
OU3MW-19I	20.0 - 25.0	--	--	--	17	61	0	--	0	4	17	2	0	0	0	0	0	0	0	0	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	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	0	1	0	0	0	0	0	0
OU3MW-20I	20.0 - 25.0	--	--	--	310	421	3	0	0	0	0	0	0	0	0	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	0	0	4	0	0	0	468	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	--	--	--	--	--	--	--	--	--	--

Table 4-12. OU-3 Summary of 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 Concentrations (µg/L)																								
		Sampling Date																								
		2012	2013				2014				2015				2016				2017				2018			
		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
OU3MW-22I/IP-15A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	379	22	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	3	0	0	0	0	0	0	--	0	--	--	--	0	--	--
OU3MW-23I/IP-17B	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	388	42	179	19	36	63	4	29	4	5	28	0	0	2	1
OU3MW-23I2/IP-17A	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	132	21	12	0	--	0	0	0	0	2	0	0	0	0	0
OU3MW-24I/IP-19A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	165	1	1	3	2	1	0	0	0	0	3	0	0	0	0
OU3MW-24I2/IP-19B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	300	255	0	16	0	18	0	0	0	0	0	2	0	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	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	0	--	--
SV-02I	22.0-27.0	1,688	386	68	51	3	0	0	109	23	0	0	6	1	0	0	0	0	0	--	--	0	--	0	--	--
SV-02I2	35.0-40.0	0	0	0	0	0	0	0	0	0	0	6	--	--	--	0	--	--	--	0	--	--	--	--	--	--
SV-03	2.0 - 12.0	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 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 Concentrations (µg/L)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2019				2020						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep					
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	4	0	0	0
IP-16B	24.0 -25.0	--	0	--	0	--	--	0	43	6	6	6
IP-18A	14.0 - 15.0	--	--	--	--	--	--	0	0	0	0	0
IP-18B	24.0 -25.0	--	--	--	--	--	--	0	12	1	1	1
IP-20A	14.0 - 15.0	0	0	--	0	0	0	0	284	21	20	20
IP-20B	24.0 -25.0	--	0	--	--	--	93	0	220	29	34	34
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	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	4,156	312	312	312
MW-64	19.0 - 24.0	0	0	0	147	0	7	0	2,199	192	190	190
MW-65	11.0 - 16.0	0	0	4	0	2	0	0	1,415	63	62	62
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

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Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2019				2020						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep					
MW-70/70S	2.0 - 12.0	--	--	--	--	--	--	0	1,720	94	94	94
MW-73	2.0 - 12.0	--	0	--	--	--	--	0	1,800	442	442	442
MW-73I	22.0-27.0	--	--	--	--	--	--	0	698	77	77	77
MW-75	2.0 - 12.0	--	--	--	--	--	--	0	2,890	375	375	375
MW-75I	22.0-27.0	--	--	--	--	--	--	0	3,289	374	374	374
MW-76	2.0 - 12.0	--	--	--	--	--	--	0	142	15	15	15
MW-78	5.0 - 20.0	--	0	--	--	--	0	0	1,439	204	201	201
MW-79	5.0 - 20.0	--	0	--	--	--	0	0	6,015	392	386	386
MW-80	5.0 - 20.0	--	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	249	33	33	33
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	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	527	14	14	14
OU3MW-07I	15.0 - 20.0	0	0	0	0	0	0	0	86	6	6	6
OU3MW-07I2	20.0 - 25.0	0	0	0	0	0	0	0	1,020	81	79	79
OU3MW-07I3	25.0 - 30.0	0	0	0	0	0	0	0	1,800	55	53	53
OU3MW-07I4	35.0 - 40.0	0	2	0	0	0	9	0	2	0	0	0
OU3MW-08S	2.0-12.0	144	0	0	115	7	499	0	855	180	188	188
OU3MW-08I	25.0-30.0	--	--	--	--	--	--	0	2	0	0	0
OU3MW-09S	2.0-12.0	--	--	--	--	--	--	0	345	15	15	15
OU3MW-09I	25.0-30.0	109	88	101	174	71	15	55	1,973	388	378	378
OU3MW-09I2	35.0-40.0	--	--	--	--	--	--	0	9	2	2	2
OU3MW-10S	2.0-12.0	--	--	--	--	--	--	0	417	70	70	70
OU3MW-10I	25.0-30.0	73	2	0	2	30	0	0	132	42	41	41
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	0	1,244	129	125	125
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	18	64	35	66	7	51	0	486	109	107	107
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	0	0	2	0	0	0	0	1,004	115	111	111
OU3MW-19I	20.0 - 25.0	0	0	0	0	0	0	0	61	4	4	4
OU3MW-19I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-20S	2.0 - 12.0	0	0	0	0	0	0	0	23	2	2	2
OU3MW-20I	20.0 - 25.0	0	0	0	0	0	0	0	421	27	26	26
OU3MW-20I2	30.0 - 35.0	0	0	0	167	9	0	0	468	28	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

Table 4-12. OU-3 Summary of 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 Concentrations (µg/L)										
		Sampling Date						Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2019				2020						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep					
OU3MW-22I/IP-15A	10.0 - 15.0	--	0	--	--	--	--	0	379	36	36	36
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	--	--	--	0	3	0	0	0
OU3MW-23I/IP-17B	10.0 - 15.0	0	0	0	0	0	0	0	388	40	38	38
OU3MW-23I2/IP-17A	25.0 - 30.0	--	0	--	--	--	0	0	132	11	10	10
OU3MW-24I/IP-19A	10.0 - 15.0	0	0	--	--	--	0	0	165	10	10	10
OU3MW-24I2/IP-19B	25.0 - 30.0	0	0	0	66	0	0	0	300	33	31	31
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	770	68	68	68
SV-02I	22.0-27.0	--	--	--	--	--	--	0	1,688	196	196	196
SV-02I2	35.0-40.0	--	--	--	--	--	--	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	34	11	8	8
TMW-1I2	25.0 - 30.0	--	--	318	11	0	0	0	318	110	82	82
TMW-2I	12.0 - 17.0	--	--	0	0	0	0	0	0	0	0	0
TMW-2I2	25.0 - 30.0	--	--	157	64	25	24	25	157	82	68	68
TMW-3I	12.0 - 17.0	--	--	0	18	0	11	0	18	6	7	7
TMW-3I2	25.0 - 30.0	--	--	56	0	21	0	0	56	26	19	19

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

Analyte	Units	CAS no.	NYS AWQS	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	OU3	OU3	OU3	OU3	OU3
				Sample Name	TMW-3I	TMW-11I	TMW-2I	DUP-08	TMW-1I	TMW-2I	TMW-3I	TMW-11I	DUP-05	TMW-2I	TMW-3I	TMW-1I	TMW-2I	TMW-3I	TMW-3I2	TMW-1I2	TMW-2I2	TMW-1I2	TMW-2I2	TMW-3I2	TMW-1I2	TMW-2I2	TMW-3I2	TMW-1I2	TMW-2I2	TMW-3I2	IP-16A	IP-16A	IP-16A	IP-20A	IP-20A	IP-20A	IP-20B
				Start Depth	12	12	12	12	12	12	12	12	12	12	12	12	12	12	25	25	25	30	30	30	25	30	30	30	25	25	25	30	30	30	14	14	14	24
				End Depth	17	17	17	17	17	17	17	17	17	17	17	17	17	17	30	30	30	35	35	35	30	35	35	35	30	30	30	35	35	35	15	15	15	25
				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	ft	ft	ft	ft	ft	ft	ft	ft
				Sample Date	09/26/19	09/26/19	09/26/19	9/26/2019	11/05/19	11/05/19	11/05/19	01/30/20	1/30/2020	01/30/20	01/31/20	07/08/20	07/08/20	07/08/20	09/26/19	09/26/19	09/26/19	11/05/19	11/05/19	11/05/19	01/30/20	01/30/20	01/31/20	07/08/20	07/08/20	07/08/20	12/04/19	02/04/20	07/23/20	12/04/19	02/04/20	07/23/20	07/23/20
				Parent Sample Code				TMW-2I					TMW-1I																								
				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 4	Level 4	Level 4	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4	Level 4	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 4	Level 4
BTEX	µg/L																																			
Benzene		71-43-2	1		1 U	**7.2**	**0.47 J**	**0.46 J**	1 U	1 U	1 U	**0.7 J**	**0.66 J**	1 U	1 U	1 U	1 U	1 U	**3.3**	**24**	**1.5 J**	**8**	**5.9**	1 U	**0.55 J**	**2.8**	1 U	**12 J**	**1.6 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**0.3 J**
Toluene		108-88-3	5		1 U	**23**	1 U	**0.43 J**	1 U	**0.38 J**	**1.4**	1 U	1 U	1 U	**0.51 J**	1 U	1 U	**2.7**	**190**	**530**	**12**	**180**	**2.9**	**5.3**	**5.7**	**32**	**20**	**280 J**	**3.5 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**5**
Ethylbenzene		100-41-4	5		**0.91 J**	**130**	**1.3**	**1.2**	**0.76 J**	**2.1**	**22**	**2.3**	**2.2**	**1.9**	**9.4**	1 U	**1.1**	**67**	**250**	**680**	**270**	**150**	**94**	**13**	**36**	**150**	**91**	**47 J**	**28 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**93**
Total Xylene		1330-20-7	5		**4.3**	**190**	**1.7 J**	**1.6 J**	**1.1 J**	**2.5**	**19**	**1.6 J**	**1.6 J**	**0.66 J**	**16**	2 U	2 U	**48**	**290**	**1100**	**530**	**200**	**230**	**7.6**	**40**	**66**	**110**	**120 J**	**9.4 J**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**180**
Total BTEX (ND=0)		TBTEX_ND0	NE		**5.21**	**350.2**	**3.47**	**3.69**	**1.86**	**4.98**	**42.4**	**4.6**	**4.46**	**2.56**	**25.91**	ND	**1.1**	**117.7**	**733.3**	**2334**	**813.5**	**538**	**332.8**	**25.9**	**82.25**	**250.8**	**221**	**459**	**42.5**	ND	ND	ND	ND	ND	ND	ND	**278.3**
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	**1.1 J**	**1.1 J**	**9.4 J**	**6.7 J**	**3.8 J**	**3.6 J**	10 U	10 U	**1.8 J**	10 U	10 U	**1.6 J**	10 U	10 U	10 U	10 U	10 U	10 U	**1.7 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	10 U	10 U	10 U	10 U	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	**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	10 U	10 U	10 U	10 U	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	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	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	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*	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	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 UJ	1 UJ	1 UJ	1 UJ	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ	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	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	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	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	1 U
Chrysene		218-01-9	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	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	2 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	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	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	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	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	**0.98 J**	50 U	**2.8 J**	10 U	**1.8 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
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	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	2 U
2-Methylnaphthalene		91-57-6	NE		10 U	**2.8 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	**5.9 J**	**19 J**	**26**	10 U	**16**	10 U	10 U	10 U	10 U	**1.8 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*		10 U	**31**	10 U	10 U	10 U	10 U	**18**	10 U	10 U	10 U	10 U	2 U	2 U	**9.5**	**47**	**290**	**120**	**7.5 J**	**43**	10 U	10 U	**23**	**21**	2 U	**21**	2 U	10 U	10 U	2 U	10 U	10 U	2 U	**90**
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	**0.89 J**	50 U	**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	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	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	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE		ND	**33.8**	ND	ND	ND	ND	**18**	ND	ND	ND	ND	ND	ND	**10.6**	**55.87**	**318.4**	**156.5**	**11.3**	**64.4**	ND	ND	**24.8**	**21**	ND	**24.4**	ND	ND	ND	ND	ND	ND	ND	**93.1**

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

Analyte	Units	CAS no.	NYS AWQS	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	MW-64	MW-64	MW-64	MW-64	MW-65	MW-65	MW-65	MW-65	MW-78	MW-79	MW-83	MW-83	MW-83	MW-83	MW-83	OU3MW-07S	OU3MW-07S	OU3MW-07S	OU3MW-07S	OU3MW-07I	OU3MW-07I	OU3MW-07I	OU3MW-07I	OU3MW-07I2	OU3MW-07I2	OU3MW-07I2	OU3MW-07I2	OU3MW-07I3	DUP-03
				Start Depth	19	19	19	19	11	11	11	11	5	5	5	5	5	5	5	3	3	3	3	15	15	15	15	20	20	20	20	25	25
				End Depth	24	24	24	24	16	16	16	16	20	20	20	20	20	20	20	13	13	13	13	20	20	20	20	25	25	25	25	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	ft	ft	ft	ft	ft	ft	ft	ft
				Sample Date	07/12/19	12/03/19	02/27/20	07/24/20	08/20/19	12/09/19	02/28/20	09/02/20	08/13/20	07/24/20	08/21/19	12/09/19	02/28/20	09/02/20	07/10/19	10/08/19	01/28/20	08/05/20	07/10/19	10/08/19	01/28/20	08/05/20	07/10/19	10/08/19	02/11/20	08/05/20	07/10/19	7/10/2019
				Parent Sample Code																												OU3MW-07I3
				Validation Level	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4	Level 4	Level 2	Level 2	Level 4	Level 4	Level 2	Level 2	Level 4	Level 4	Level 2	Level 2	Level 4	Level 4
BTEX	µg/L																															
Benzene		71-43-2	1		1 U	**2.4**	1 U	1 U	**0.48 J**	1 U	1 U	1 U	1 U	1 U	**0.96 J**	**0.96 J**	**0.53 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5		1 U	**330**	1 U	**0.39 J**	**0.78 J**	1 U	1 U	1 U	1 U	1 U	**0.62 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	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5		1 U	**350**	**1.4**	**2**	**22**	**0.38 J**	**3.6**	1 U	1 U	1 U	**6.4**	**0.74 J**	**2**	**1.7**	1 U	1 U	1 U	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	**920**	**1.7 J**	**7.9**	**24**	**0.85 J**	**7.9**	2 U	2 U	2 U	**2.6**	2 U	**0.66 J**	**1.5 J**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE		ND	**1602.4**	**3.1**	**10.29**	**47.26**	**1.23**	**11.5**	ND	ND	ND	**10.58**	**2.7**	**3.19**	**3.2**	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	**1.9 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	10 U	10 U	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	**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	10 U	10 U	10 U	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	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	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	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	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	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	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	2 U	2 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	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	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	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 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE		10 U	**4.1 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	10 U	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*		10 U	**140**	10 U	**6.8**	**4.2 J**	10 U	**1.6 J**	2 U	2 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 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	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	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE		ND	**147.1**	ND	**6.8**	**4.2**	ND	**1.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 4-13. OU-3 Summary of Expanded Groundwater Analytical Results
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National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Analyte	Units	CAS no.	NYS AWQS	OU3 OU3MW-07I3 25 30 ft 10/08/19 Level 4	OU3 OU3MW-07I3 25 30 ft 02/03/20 Level 2	OU3 OU3MW-07I3 25 30 ft 08/05/20 Level 2	OU3 OU3MW-07I4 35 40 ft 07/10/19 Level 4	OU3 OU3MW-07I4 35 40 ft 10/08/19 Level 4	OU3 OU3MW-07I4 35 40 ft 02/03/20 Level 2	OU3 OU3MW-07I4 35 40 ft 08/05/20 Level 2	OU3 OU3MW-08S 2 12 ft 07/23/19 Level 4	OU3 OU3MW-08S 2 12 ft 11/05/19 Level 2	OU3 OU3MW-08S 2 12 ft 01/27/20 Level 4	OU3 DUP-04 2 12 ft 1/27/2020 OU3MW-08S Level 4	OU3 OU3MW-08S 2 12 ft 07/09/20 Level 2	OU3 OU3MW-09I 25 30 ft 07/23/19 Level 2	OU3 Dup-05 25 30 ft 7/23/2019 OU3MW-09I Level 2	OU3 OU3MW-09I 25 30 ft 11/25/19 Level 2	OU3 OU3MW-09I 25 30 ft 01/27/20 Level 4	OU3 OU3MW-09I 25 30 ft 07/09/20 Level 2	OU3 OU3MW-10I 25 30 ft 07/23/19 Level 2	OU3 OU3MW-10I 25 30 ft 11/25/19 Level 2	OU3 OU3MW-10I 25 30 ft 01/27/20 Level 4	OU3 OU3MW-10I 25 30 ft 07/09/20 Level 2	OU3 OU3MW-13S 2 12 ft 07/09/20 Level 2	OU3 OU3MW-16S 2 12 ft 07/23/19 Level 4
BTEX	µg/L																									
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**11**	**120**	**69**	**69**	**110**	**3.7**	**3.3**	**20**	**0.71 J**	**2.8**	1 U	1 U	1 U	1 U	1 U	**4.4**
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**5.3**	**170**	**280**	**280**	**59**	**23**	**21**	**360**	**3**	**22**	**0.41 J**	**6.2**	**78**	1 U	1 U	**1.3**
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**13**	**480**	**340**	**340**	**670**	**330**	**300**	**470**	**12**	**3.1**	**4.4**	**11**	**130**	**3.7**	1 U	**86**
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**13**	**690**	**540**	**530**	**450**	**500**	**460**	**680**	**13**	**3.5**	**3.6**	**11**	**180**	**3.2**	2 U	**120**
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	ND	**42.3**	**1460**	**1229**	**1219**	**1289**	**856.7**	**784.3**	**1530**	**28.71**	**31.4**	**8.41**	**28.2**	**388**	**6.9**	ND	**211.7**
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	50 U	**3.4 J**	**3.7 J**	**4.6 J**	**1.8 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	10 U	10 U	10 U	10 U	10 U	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
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	50 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	5 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	10 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	5 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	50 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	5 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	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	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
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 UJ	1 UJ	5 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 UJ	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	50 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	50 U	10 U	10 U	**1.2 J**	**25**	**1.8 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	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-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**4.6 J**	10 U	**1.2 J**	**19 J**	**5.2 J**	**4.9 J**	**17**	**16**	**1.5 J**	10 U	10 U	**3 J**	10 U	10 U	10 U
Naphthalene		91-20-3	10*	10 U	10 U	2 U	10 U	10 U	10 U	**8.6**	10 U	**110**	**7.1 J**	**9.7 J**	**480**	**92**	**87**	**150**	**23**	**10**	10 U	**2.3 J**	**27**	2 U	2 U	**35**
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	50 U	**0.67 J**	10 U	**0.96 J**	**4.9 J**	**1.2 J**	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	50 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	**8.6**	ND	**114.6**	**7.1**	**10.9**	**499**	**101.27**	**95.6**	**173.76**	**70.7**	**14.5**	ND	**2.3**	**30**	ND	ND	**35**

Table 4-13. OU-3 Summary of Expanded Groundwater Analytical Results
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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-16S	OU3MW-16S	OU3MW-16S	OU3MW-19S	OU3MW-19S	OU3MW-19S	OU3MW-19S	OU3MW-19I	OU3MW-19I	OU3MW-19I	OU3MW-19I	OU3MW-19I	OU3MW-19I2	OU3MW-19I2	OU3MW-19I2	OU3MW-20S	OU3MW-20S	OU3MW-20S	OU3MW-20S	OU3MW-20I	OU3MW-20I	OU3MW-20I	OU3MW-20I
				Start Depth	2	2	2	2	2	2	2	20	20	20	20	20	30	30	30	2	2	2	2	20	20	20	20
				End Depth	12	12	12	12	12	12	12	25	25	25	25	25	35	35	35	12	12	12	12	25	25	25	25
				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
				Sample Date	11/05/19	01/27/20	07/09/20	07/12/19	10/10/19	01/28/20	08/04/20	07/11/19	10/10/19	01/28/20	08/04/20	07/11/19	10/10/19	01/28/20	08/04/20	07/11/19	10/10/19	01/28/20	08/04/20	07/11/19	10/10/19	01/28/20	08/05/20
				Parent Sample Code																							
				Validation Level	Level 2	Level 4	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2	Level 2	Level 4	Level 2	Level 2
Analyte	**Units**	**CAS no.**	**NYS AWQS**																								
BTEX	µg/L																										
Benzene		71-43-2	1	**2.7**	**2.7 J**	**3.5**	**0.56 J**	1 U	**0.3 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	**2.2**	**0.62 J**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	**63**	**55 J**	**33**	**11**	**5**	**4.4**	**4.3**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	**26**	**19**	**12**	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	**93.9**	**77.32**	**48.5**	**11.56**	**5**	**4.7**	**4.3**	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	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
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
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
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
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
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	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	1 U	1 U	1 U
Chrysene		218-01-9	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
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	1 U*	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	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	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 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	**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	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*	**66**	**6.5 J**	**50**	**1.5 J**	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	2 U	10 U	10 U	10 U	10 U	2 U	10 U	10 U	10 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	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
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**66**	**6.5**	**51.2**	**1.5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 4-13. OU-3 Summary of Expanded Groundwater Analytical Results
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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
			Sample Name	OU3MW-20I2	DUP-02	OU3MW-20I2	OU3MW-20I2	OU3MW-20I2	OU3MW-23I/IP-17B	OU3MW-23I/IP-17B	OU3MW-23I/IP-17B	OU3MW-23I/IP-17B	OU3MW-23I2/IP-17A	OU3MW-24I/IP-19A	OU3MW-24I2/IP-19B	OU3MW-24I2/IP-19B	OU3MW-24I2/IP-19B	OU3MW-24I2/IP-19B
			Start Depth	30	30	30	30	30	10	10	10	10	25	10	25	25	25	25
			End Depth	35	35	35	35	35	15	15	15	15	30	15	30	30	30	30
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	07/11/19	10/10/19	10/10/19	01/28/20	08/06/20	07/12/19	11/25/19	02/04/20	07/09/20	07/23/20	07/23/20	07/12/19	11/25/19	02/04/20	07/23/20
			Parent Sample Code		OU3MW-20I2													
			Validation Level	Level 2	Level 4	Level 4	Level 2	Level 2	Level 2	Level 2	Level 2	Level 2	Level 4	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	**0.23 J**	1 U	1 U	1 U	1 U	**0.51 J**	1 U	1 U
Toluene		108-88-3	5	1 U	**1.2**	**1.6**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**130**	1 U	**2.6**
Ethylbenzene		100-41-4	5	1 U	**55**	**69**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**190**	**0.55 J**	**2.1**
Total Xylene		1330-20-7	5	2 U	**360**	**460**	**8.2**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**390**	2 U	**4.6**
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	**416.2**	**530.6**	**8.2**	ND	ND	ND	**0.23**	ND	ND	ND	ND	**710.51**	**0.55**	**9.3**
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
Acenaphthylene		208-96-8	NE	10 U	**1.7 J**	**1.7 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
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
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 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
Chrysene		218-01-9	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
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
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
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
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-Methylnaphthalene		91-57-6	NE	10 U	**15**	**15**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**7.2 J**	10 U	10 U
Naphthalene		91-20-3	10*	10 U	**160**	**150**	**8.6 J**	2 U	10 U	10 U	10 U	2 U	2 U	2 U	10 U	**59**	10 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
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
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	**176.7**	**166.7**	**8.6**	ND	ND	ND	ND	ND	ND	ND	ND	**66.2**	ND	ND

Table 4-14. OU-4 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 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
WCMW-01S	2.0 - 12.0	5	1	0	0	0	0	0	11	0	0	0	10
WCMW-01I	35.0 - 45.0	0	0	0	0	0	--	0	0	--	0	--	--
WCMW-01D	64.0 - 74.0	0	0	--	0	--	--	0	0	--	--	--	--
WCMW-02S	3.0 - 13.0	6	0	0	0	0	0	0	0	--	0	--	--
WCMW-02I	34.5 - 44.5	µg/L	0	0	0	0	--	0	0	--	--	--	--
WCMW-02D	62.0 - 72.0	0	0	--	--	--	--	0	0	--	--	--	--
WCMW-03S	4.83 - 9.83	--	10	12	25	0	10	25	14	0	42	14	23
WCMW-03I	19.4 - 24.4	--	0	0	0	0	0	0	0	0	0	--	--
WCMW-03I2	28.55 - 33.55	--	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
WCMW-04I	19.0 - 24.0	--	0	0	0	0	0	0	0	--	0	--	--
WCMW-04I2	29.85 - 34.85	--	0	--	0	0	--	0	0	0	0	--	--
WCMW-05S	1.15 - 11.15	--	0	0	0	0	0	0	0	0	0	--	--
WCMW-05I	19.61 - 24.61	--	0	0	0	0	0	0	0	--	0	--	--
WCMW-05I2	29.46 - 34.46	--	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	--	--	--	--
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 4-14. OU-4 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 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
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 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 Concentration (µg/L)											
		Sampling Date											
		2005	2006				2007				2008		
		Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
WCMW-01S	2.0 - 12.0	0	0	0	23	0	0	0	13	9	2	0	12
WCMW-01I	35.0 - 45.0	--	0	--	--	--	0	--	0	1	0	0	0
WCMW-01D	64.0 - 74.0	--	0	--	--	--	0	--	0	2	0	0	0
WCMW-02S	3.0 - 13.0	--	0	0	0	0	0	0	4	6	0	0	2
WCMW-02I	34.5 - 44.5	--	0	--	--	--	0	--	0	0	0	0	0
WCMW-02D	62.0 - 72.0	--	0	--	--	--	0	--	0	0	0	0	0
WCMW-03S	4.83 - 9.83	10	--	0	22	20	0	12	32	0	20	21	25
WCMW-03I	19.4 - 24.4	0	--	0	--	--	--	--	0	0	0	0	0
WCMW-03I2	28.55 - 33.55	0	--	0	--	--	--	--	0	0	0	0	0
WCMW-04S	1.6 - 11.6	0	11	10	31	16	0	12	23	25	6	22	24
WCMW-04I	19.0 - 24.0	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
WCMW-05I	19.61 - 24.61	0	--	0	--	--	--	--	0	0	0	0	0
WCMW-05I2	29.46 - 34.46	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
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	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
WCMW-10S	15.0 - 20.0	--	0	0	0	0	0	0	0	0	0	0	0
WCMW-10D	40.0 - 50.0	--	0	0	0	--	--	--	1	0	0	0	0
WCMW-11S	5.0 - 15.0	--	80	--	148	--	--	--	--	--	--	53	--
WCMW-11I	25.0 - 35.0	--	0	--	0	--	--	--	--	--	--	0	--
WCMW-11D	50.0 - 60.0	--	0	--	0	--	--	--	--	--	--	0	--
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	0	0	1
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	0	0	0

Table 4-14. OU-4 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 Concentration (µg/L)											
		Sampling Date											
		2005	2006				2007				2008		
		Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	0	0	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 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 Concentration (µg/L)											
		Sampling Date											
		2008	2009				2010				2011		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Aug	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
WCMW-01S	2.0 - 12.0	3	3	1	4	0	1	5	10	14	1	--	--
WCMW-01I	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	--	--
WCMW-01D	64.0 - 74.0	0	0	0	0	0	0	0	0	0	0	--	--
WCMW-02S	3.0 - 13.0	0	0	0	0	5	0	0	0	3	9	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
WCMW-03S	4.83 - 9.83	24	33	34	23	6	27	29	30	27	24	--	--
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	26	21	34	10	2	6	12	32	25	30	11	2
WCMW-04I	19.0 - 24.0	0	0	0	2	0	0	0	0	0	0	0	14
WCMW-04I2	29.85 - 34.85	0	0	0	0	0	0	0	0	0	0	0	2
WCMW-05S	1.15 - 11.15	0	1	0	0	1	2	3	0	0	3	2	2
WCMW-05I	19.61 - 24.61	0	0	0	0	0	0	0	0	0	0	0	1
WCMW-05I2	29.46 - 34.46	0	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	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	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	0	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	0	--	--
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	0	0	0	0	0	0	0	--	--	--	--	--
WCMW-10S	15.0 - 20.0	0	0	0	0	0	0	0	--	--	--	--	--
WCMW-10D	40.0 - 50.0	0	0	0	0	0	0	0	--	--	--	--	--
WCMW-11S	5.0 - 15.0	--	--	53	36	2	23	--	12	16	27	30	75
WCMW-11I	25.0 - 35.0	--	--	0	0	0	0	--	0	0	0	0	0
WCMW-11D	50.0 - 60.0	--	--	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	0	0	0	0	0	2	0	0
WCMW-13S	3.0 - 13.0	0	0	0	0	0	0	0	0	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	0	0	0	0
WCMW-14I	20.0 - 25.0	0	0	0	0	0	1	0	0	0	0	0	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	2	0	9	0	0	0	0	0	--	--
WCMW-16I	20.0 - 25.0	0	0	1	0	0	0	0	0	0	0	--	--

Table 4-14. OU-4 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 Concentration (µg/L)											
		Sampling Date											
		2008	2009				2010				2011		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Aug	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
WCMW-16I2	30.0 - 35.0	0	0	2	0	0	0	0	0	0	0	--	--
WCMW-17S	2.0 - 12.0	--	--	5	6	2	0	1	1	1	4	--	--
WCMW-17I	20.0 - 25.0	--	--	0	2	0	0	1	0	0	0	--	--
WCMW-17I2	30.0 - 35.0	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-18WT	2.0 - 7.0	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-18S	2.0 - 12.0	--	--	0	0	1	0	0	0	0	0	--	--
WCMW-18I	20.0 - 25.0	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-18I2	30.0 - 35.0	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-19S	2.0 - 12.0	--	--	--	0	0	0	0	0	0	0	0	0
WCMW-19I	20.0 - 25.0	--	--	--	0	0	0	0	0	0	0	0	0
WCMW-19I2	30.0 - 35.0	--	--	--	0	0	0	0	0	0	0	0	0
WCMW-20S	2.0 - 12.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-20I	20.0 - 25.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-20I2	30.0 - 35.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-21S	2.0 - 12.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-21I	20.0 - 25.0	--	--	--	0	0	0	0	0	0	0	0	--
WCMW-21I2	30.0 - 35.0	--	--	--	0	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	0	--	--	--	--	--	--
WCMW-23I	25.0 - 30.0	--	--	--	0	0	0	--	--	--	--	--	--
WCMW-24S	2.0 - 12.0	--	--	--	--	0	16	--	8	3	4	2	--
WCMW-24I	20.0 - 25.0	--	--	--	--	0	0	--	0	0	0	0	--
WCMW-24I2	30.0 - 35.0	--	--	--	--	0	0	--	0	0	0	0	--
WCMW-25I	30.0 - 35.0	--	--	--	--	0	1	0	0	0	0	0	0
WCMW-25D	55.0 - 60.0	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-26S	2.0 - 12.0	--	--	--	--	44	78	--	35	114	21	19	47
WCMW-26I	20.0 - 25.0	--	--	--	--	0	0	--	0	0	0	0	0
WCMW-26I2	30.0 - 35.0	--	--	--	--	0	0	--	0	0	0	0	0
WCMW-27S	2.0 - 12.0	--	--	--	--	19	4	29	16	19	31	--	--
WCMW-27I	20.0 - 25.0	--	--	--	--	0	0	0	0	0	0	--	--
WCMW-28S	2.0 - 12.0	--	--	--	--	0	0	0	0	0	0	--	--
WCMW-28I	20.0 - 25.0	--	--	--	--	0	0	0	0	0	0	--	--
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	84	19	59	69	145
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	0	0	0	0	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 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 Concentration (µg/L)											
		Sampling Date											
		2011	2012				2013				2014		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
WCMW-01S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3.0 - 13.0	19	6	0	0	0	0	0	0	0	0	0	0
WCMW-02I	34.5 - 44.5	0	0	0	0	--	--	0	--	--	--	0	--
WCMW-02D	62.0 - 72.0	0	0	0	0	0	0	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	3	0	0	0	0	0	0	--	--	--	0	--
WCMW-04I	19.0 - 24.0	9	4	13	24	17	17	16	12	9	8	13	8
WCMW-04I2	29.85 - 34.85	0	0	0	4	2	0	3	6	2	1	0	0
WCMW-05S	1.15 - 11.15	0	3	1	0	0	2	0	0	0	0	0	0
WCMW-05I	19.61 - 24.61	5	9	10	8	8	5	8	9	4	4	4	4
WCMW-05I2	29.46 - 34.46	0	2	0	0	0	0	0	0	0	0	0	0
WCMW-06S	2.0 - 12.0	0	0	0	0	--	--	0	--	--	--	0	--
WCMW-06I	19.55 - 24.55	0	0	0	0	--	--	0	--	--	--	0	--
WCMW-06I2	29.83 - 34.83	0	0	0	0	--	--	0	--	--	--	0	--
WCMW-07S	2.76 - 12.76	--	0	--	--	--	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	0	--	--	--	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	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	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	--	--	--	--	0	0	0	--	0	--	0	--
WCMW-10D	40.0 - 50.0	--	--	--	--	0	0	0	--	0	--	0	--
WCMW-11S	5.0 - 15.0	--	37	17	10	--	6	2	4	2	8	15	9
WCMW-11I	25.0 - 35.0	--	0	0	0	--	0	0	7	8	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	--
WCMW-12I	25.0 - 30.0	0	0	0	0	--	--	0	--	--	--	0	--
WCMW-12D	67.0 - 72.0	0	0	0	0	--	--	0	--	--	--	0	--
WCMW-13S	3.0 - 13.0	2	17	3	10	12	0	0	0	0	9	1	1
WCMW-13I	25.0 - 30.0	0	0	0	0	--	--	0	--	--	--	0	--
WCMW-13D	65.0 - 70.0	0	0	0	0	--	--	0	--	--	--	0	--
WCMW-14S	2.0 - 12.0	0	1	0	0	0	0	0	0	0	0	0	0
WCMW-14I	20.0 - 25.0	0	0	0	1	2.5	1	0	2	0	0	0	0
WCMW-14I2	30.0 - 35.0	0	0	0	0	--	--	0	--	--	--	0	--
WCMW-14D	67.0 - 72.0	0	0	0	0	--	--	0	--	--	--	0	--
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-14. OU-4 Summary of Historical Total BTEX Groundwater Analytical Results
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National Grid
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Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)											
		Sampling Date											
		2011	2012				2013				2014		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
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	0	0	0	--	--	0	--	--	--	0	--
WCMW-19I	20.0 - 25.0	0	0	0	0	--	--	0	--	--	--	0	--
WCMW-19I2	30.0 - 35.0	0	0	0	0	--	--	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	--	--	--	--	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	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30.0 - 35.0	0	0	0	0	--	--	0	--	--	--	0	--
WCMW-25D	55.0 - 60.0	0	0	0	0	--	--	0	--	--	--	0	--
WCMW-26S	2.0 - 12.0	--	45	60	67	--	7	4	68	205	64	31	29
WCMW-26I	20.0 - 25.0	--	0	2	0	--	0	0	0	0	1	0	0
WCMW-26I2	30.0 - 35.0	--	0	0	0	--	--	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	--	152	62	54	--	154	182	22	19	77	58	68
WCMW-29I	20.0 - 25.0	--	0	0	0	--	--	0	--	0	0	0	0
WCMW-30S	2.0 - 12.0	--	0	0	0	0	0	0	--	--	--	0	--
WCMW-30I	20.0 - 25.0	--	10	13	26	30	14	21	18	13	17	10	13
WCMW-30I2	30.0 - 35.0	--	0	0	0	0	0	0	0	0	0	0	0
WCMW-31S	2.0 - 12.0	--	3	1	0	2	4	0	0	0	0	0	0
WCMW-31I	20.0 - 25.0	--	0	0	0	0	0	0	--	--	--	0	--
WCMW-31I2	30.0 - 35.0	--	0	0	0	0	0	0	--	--	--	0	--
WCMW-32S	2.0 - 12.0	--	0	0	0	0	0	0	0	0	0	0	0

Table 4-14. OU-4 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 BTEX Groundwater Concentration (µg/L)												
		Sampling Date												
		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
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	--	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19.0 - 24.0	8	8	7	7	11	4	0	4	10	1	6	5	3
WCMW-04I2	29.85 - 34.85	0	0	0	--	--	--	0	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	--	--	--	--	--	--	0	--	--	--	--	--	--
WCMW-05I	19.61 - 24.61	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	--	2
WCMW-06S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08I	19.2 - 24.2	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	--	--	0	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40.0 - 50.0	--	--	0	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5.0 - 15.0	3	1	20	0	0	--	--	--	--	--	--	--	--
WCMW-11I	25.0 - 35.0	0	0	0	0	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	6	0	0	1	0	0	0	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	3	0	0	0	--	0	0	0	0	0	0	1	0
WCMW-14I	20.0 - 25.0	2	0	0	0	0	0	0	0	0	0	0	2	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 4-14. OU-4 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 Concentration (µg/L)												
		Sampling Date												
		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
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	--	--	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	0	15	87	261	256	--	--	--	--	--	--	--	--
WCMW-26I	20.0 - 25.0	169	0	0	0	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	28	185	88	38	18	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	0	0	0	0	0	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	21	4	15	14	16	3	9	8	7	0	2	6	3
WCMW-30I2	30.0 - 35.0	--	--	0	--	--	--	0	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	--	--	0	--	--	--	0	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	--	0

Table 4-14. OU-4 Summary of Historical Total BTEX Groundwater Analytical Results
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid
Bay Shore/Brightwaters Former MGP Site
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Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)									
		Sampling Date									
		2018				2019				2020	
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep
WCMW-01S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	--	--	--	--	--	--	--	--	--
WCMW-02D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19.0 - 24.0	1	0	--	--	--	--	--	--	0	3
WCMW-04I2	29.85 - 34.85	--	--	--	--	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	--	0	0	--	--	--	--	--	--	--
WCMW-05I	19.61 - 24.61	0	0	0	0	0	0	0	0	0	0
WCMW-05I2	29.46 - 34.46	0	0	0	0	--	0	--	--	--	0
WCMW-06S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	--	--	--	--	--	--	--	--	--	--
WCMW-08I	19.2 - 24.2	--	--	--	--	--	--	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	--	--	--	--	--
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	--	0	--	--	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0
WCMW-14I	20.0 - 25.0	0	0	0	0	0	0	--	--	--	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 4-14. OU-4 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 Concentration (µg/L)									
		Sampling Date									
		2018				2019				2020	
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep
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	0	0	2	0	0	0	0	4	0	7
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	0	0	0	0	0	0	0	0	0	0

Table 4-14. OU-4 Summary of Historical Total BTEX Groundwater Analytical Results
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National Grid
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Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
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	0	24	4	0	24
WCMW-04I2	29.85 - 34.85	0	6	0	0	6
WCMW-05S	1.15 - 11.15	0	3	0	0	3
WCMW-05I	19.61 - 24.61	0	10	1	0	10
WCMW-05I2	29.46 - 34.46	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	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	3	0	0	3
WCMW-14I	20.0 - 25.0	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
WCMW-16I	20.0 - 25.0	0	1	0	0	1

Table 4-14. OU-4 Summary of Historical Total BTEX Groundwater Analytical Results
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National Grid
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Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
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	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

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

Table 4-15. OU-4 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 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
WCMW-01S	2.0 - 12.0	33	756	24	10	117	0	19	228	240	0	51	298
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
WCMW-03I	19.4 - 24.4	--	268	1,120	1,100	1,004	1,243	1,261	1,395	1,182	1,532	--	--
WCMW-03I2	28.55 - 33.55	--	327	340	402	348	49	133	191	127	94	--	--
WCMW-04S	1.6 - 11.6	--	1,080	141	69	270	50	0	219	836	17	136	204
WCMW-04I	19.0 - 24.0	--	221	174	142	99	0	62	90	--	81	--	--
WCMW-04I2	29.85 - 34.85	--	0	--	0	0	--	0	17	95	0	--	--
WCMW-05S	1.15 - 11.15	--	0	31	0	0	0	10	0	14	12	--	--
WCMW-05I	19.61 - 24.61	--	156	329	243	215	298	227	245	--	276	--	--
WCMW-05I2	29.46 - 34.46	--	0	0	15	0	--	0	0	214	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	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-15. OU-4 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 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
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 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 Concentration (µg/L)											
		Sampling Date											
		2005	2006				2007				2008		
		Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
WCMW-01S	2.0 - 12.0	14	0	10	340	130	78	291	203	345	47	9	353
WCMW-01I	35.0 - 45.0	--	0	--	--	--	0	--	0	0	0	0	2
WCMW-01D	64.0 - 74.0	--	0	--	--	--	0	--	0	0	0	0	0
WCMW-02S	3.0 - 13.0	--	0	0	30	0	0	0	77	101	0	4	51
WCMW-02I	34.5 - 44.5	--	0	--	--	--	0	--	0	0	0	0	1
WCMW-02D	62.0 - 72.0	--	0	--	--	--	0	--	0	0	0	0	1
WCMW-03S	4.83 - 9.83	376	--	242	339	233	198	240	305	44	122	12	102
WCMW-03I	19.4 - 24.4	1,423	--	1,770	--	--	--	--	255	315	939	134	290
WCMW-03I2	28.55 - 33.55	109	--	83	--	--	--	--	5	37	6	0	25
WCMW-04S	1.6 - 11.6	153	116	57	264	445	95	214	194	326	186	72	337
WCMW-04I	19.0 - 24.0	155	--	--	--	144	--	--	142	94	70	66	96
WCMW-04I2	29.85 - 34.85	0	--	--	--	0	--	--	0	0	0	0	0
WCMW-05S	1.15 - 11.15	0	--	0	--	--	0	0	3	3	5	3	4
WCMW-05I	19.61 - 24.61	338	--	286	--	--	--	--	242	287	162	153	121
WCMW-05I2	29.46 - 34.46	0	--	0	--	--	--	--	7	31	0	0	39
WCMW-06S	2.0 - 12.0	--	--	--	--	--	0	0	1	0	0	4	0
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	52	0	0	0	0
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	0	11	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
WCMW-10S	15.0 - 20.0	--	0	0	21	0	0	0	0	0	0	0	0
WCMW-10D	40.0 - 50.0	--	0	0	0	--	--	--	0	0	0	0	0
WCMW-11S	5.0 - 15.0	--	1,037	--	590	--	--	--	--	--	--	705	--
WCMW-11I	25.0 - 35.0	--	0	--	0	--	--	--	--	--	--	0	--
WCMW-11D	50.0 - 60.0	--	0	--	0	--	--	--	--	--	--	0	--
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	2	5	4
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	0	0	1
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	0	0	1
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	16	77	0
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	0	0	70
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	4	28	57
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	0	0	0
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-15. OU-4 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 Concentration (µg/L)											
		Sampling Date											
		2005	2006				2007				2008		
		Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
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 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 Concentration (µg/L)												
		Sampling Date												
		2008	2009				2010				2011			
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Aug	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
WCMW-01S	2.0 - 12.0	77	0	16	26	3	4	14	115	49	18	--	--	--
WCMW-01I	35.0 - 45.0	0	0	0	46	0	1	0	0	0	0	--	--	--
WCMW-01D	64.0 - 74.0	0	0	0	2	0	0	0	0	0	0	--	--	--
WCMW-02S	3.0 - 13.0	27	0	5	0	12	3	0	2	56	38	9	15	69
WCMW-02I	34.5 - 44.5	0	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	5
WCMW-03S	4.83 - 9.83	239	243	358	419	237	501	6	327	363	1,532	--	--	--
WCMW-03I	19.4 - 24.4	1,107	142	1,146	994	1,743	1,127	1,332	1,213	1,101	6	--	--	--
WCMW-03I2	28.55 - 33.55	24	0	2	5	15	0	535	0	9	8	--	--	--
WCMW-04S	1.6 - 11.6	332	43	16	272	197	204	227	251	390	369	262	315	132
WCMW-04I	19.0 - 24.0	100	33	108	101	46	15	30	97	130	95	44	174	432
WCMW-04I2	29.85 - 34.85	0	0	0	0	2	0	0	0	1	0	0	285	79
WCMW-05S	1.15 - 11.15	2	5	7	6	8	8	7	38	34	284	8	42	0
WCMW-05I	19.61 - 24.61	150	170	241	411	432	270	83	43	217	28	136	407	173
WCMW-05I2	29.46 - 34.46	63	0	48	5	0	0	0	19	30	0	0	778	264
WCMW-06S	2.0 - 12.0	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	0
WCMW-06I2	29.83 - 34.83	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	0	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	0	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	0	--	--	--
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	0	0	0	0	0	0	0	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	0	0	0	0	5	0	0	--	--	--	--	--	--
WCMW-10D	40.0 - 50.0	0	0	0	0	3	0	0	--	--	--	--	--	--
WCMW-11S	5.0 - 15.0	--	--	624	637	238	159	--	496	1,350	386	1,286	1,258	--
WCMW-11I	25.0 - 35.0	--	--	0	10	1	20	--	0	62	36	5	182	--
WCMW-11D	50.0 - 60.0	--	--	0	0	0	2	--	0	0	0	0	0	--
WCMW-12S	3.0 - 13.0	1	4	13	0	3	0	2	0	0	0	2	2	0
WCMW-12I	25.0 - 30.0	0	0	5	5	16	0	0	0	0	0	0	30	4
WCMW-12D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-13S	3.0 - 13.0	53	0	0	0	0	1	0	0	0	0	0	2	75
WCMW-13I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-13D	65.0 - 70.0	1	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-14S	2.0 - 12.0	0	0	6	0	4	20	23	26	0	3	0	29	263
WCMW-14I	20.0 - 25.0	2	2	50	64	81	149	214	149	65	24	25	376	125
WCMW-14I2	30.0 - 35.0	10	1	11	0	18	57	25	95	201	160	9	71	0
WCMW-14D	67.0 - 72.0	0	0	2	0	0	0	0	0	0	0	0	0	0
WCMW-16S	2.0 - 12.0	0	24	22	0	1,971	2,259	337	43	56	51	--	--	--
WCMW-16I	20.0 - 25.0	0	0	18	0	2	13	6	14	14	6	--	--	--
WCMW-16I2	30.0 - 35.0	0	0	4	55	5	15	10	17	0	1	--	--	--
WCMW-17S	2.0 - 12.0	--	--	295	226	201	141	339	431	407	339	--	--	--
WCMW-17I	20.0 - 25.0	--	--	292	342	38	186	338	394	322	258	--	--	--

Table 4-15. OU-4 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 Concentration (µg/L)												
		Sampling Date												
		2008	2009				2010				2011			
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Aug	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
WCMW-17I2	30.0 - 35.0	--	--	0	16	0	12	12	31	0	20	--	--	--
WCMW-18WT	2.0 - 7.0	--	--	0	0	0	0	0	0	0	0	--	--	--
WCMW-18S	2.0 - 12.0	--	--	0	0	0	0	0	0	0	0	--	--	--
WCMW-18I	20.0 - 25.0	--	--	0	0	0	0	0	0	0	0	--	--	--
WCMW-18I2	30.0 - 35.0	--	--	0	0	0	0	0	0	0	0	--	--	--
WCMW-19S	2.0 - 12.0	--	--	--	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
WCMW-19I2	30.0 - 35.0	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-20S	2.0 - 12.0	--	--	--	0	2	0	0	0	0	0	0	--	--
WCMW-20I	20.0 - 25.0	--	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-20I2	30.0 - 35.0	--	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-21S	2.0 - 12.0	--	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-21I	20.0 - 25.0	--	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-21I2	30.0 - 35.0	--	--	--	0	0	0	0	0	0	0	0	--	--
WCMW-22S	2.0 - 12.0	--	--	--	61	56	54	--	--	--	--	--	--	--
WCMW-22I	25.0 - 30.0	--	--	--	5	1	0	--	--	--	--	--	--	--
WCMW-23S	2.0 - 12.0	--	--	--	34	16	0	--	--	--	--	--	--	--
WCMW-23I	25.0 - 30.0	--	--	--	0	0	0	--	--	--	--	--	--	--
WCMW-24S	2.0 - 12.0	--	--	--	--	237	336	--	215	170	158	271	--	--
WCMW-24I	20.0 - 25.0	--	--	--	--	10	53	--	32	40	98	58	--	--
WCMW-24I2	30.0 - 35.0	--	--	--	--	0	0	--	0	0	0	0	--	--
WCMW-25I	30.0 - 35.0	--	--	--	--	0	54	0	0	0	0	0	20	0
WCMW-25D	55.0 - 60.0	--	--	--	--	0	0	0	0	0	0	0	0	0
WCMW-26S	2.0 - 12.0	--	--	--	--	350	232	--	394	146	204	331	243	--
WCMW-26I	20.0 - 25.0	--	--	--	--	47	24	--	87	28	0	26	56	--
WCMW-26I2	30.0 - 35.0	--	--	--	--	3	24	--	11	10	7	5	0	--
WCMW-27S	2.0 - 12.0	--	--	--	--	141	0	278	708	0	699	--	--	--
WCMW-27I	20.0 - 25.0	--	--	--	--	0	0	0	0	0	0	--	--	--
WCMW-28S	2.0 - 12.0	--	--	--	--	251	36	97	396	301	128	--	--	--
WCMW-28I	20.0 - 25.0	--	--	--	--	2	0	0	0	0	0	--	--	--
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	2,391	2,154	1,092	1,599	--	--
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	43	29	10	17	--	--
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 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 Concentration (µg/L)											
		Sampling Date											
		2012				2013				2014			
		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	94	87	58	--	67.5	84	62	77	86	45	78	43
WCMW-02I	34.5 - 44.5	0	0	1	--	--	0	--	--	--	0	--	--
WCMW-02D	62.0 - 72.0	0	0	1	0	0	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	98	60	22	20	35	12	--	--	--	10	--	--
WCMW-04I	19.0 - 24.0	411	251	198	199	299	306	149	232	221	212	352	303
WCMW-04I2	29.85 - 34.85	73	126	73	102	41	95	14	116	28	13	24	18
WCMW-05S	1.15 - 11.15	94	74	76	49	97	49	2	39	94	48	24	--
WCMW-05I	19.61 - 24.61	225	147	177	147	162	229	100	230	137	220	324	319
WCMW-05I2	29.46 - 34.46	306	266	112	199	173	350	55	237	138	56	100	51
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	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	0	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	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	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	--	--	--	0	0	0	--	0	--	0	--	--
WCMW-10D	40.0 - 50.0	--	--	--	0	0	0	--	0	--	0	--	--
WCMW-11S	5.0 - 15.0	375	392	266	--	129	56	32	77	244	102	77	58
WCMW-11I	25.0 - 35.0	61	188	318	--	73	25	392	380	136	25	46	249
WCMW-11D	50.0 - 60.0	0	0	0	--	--	0	--	--	--	0	--	--
WCMW-12S	3.0 - 13.0	0	3	5	--	--	1	--	--	--	1	--	--
WCMW-12I	25.0 - 30.0	1	0	0	--	--	89	--	--	--	40	--	--
WCMW-12D	67.0 - 72.0	0	0	2	--	--	0	--	--	--	0	--	--
WCMW-13S	3.0 - 13.0	229	219	156	141	2	0	134	176	185	9	157	59
WCMW-13I	25.0 - 30.0	0	2	0	--	--	0	--	--	--	0	--	--
WCMW-13D	65.0 - 70.0	0	0	0	--	--	0	--	--	--	0	--	--
WCMW-14S	2.0 - 12.0	143	56	90	81	58	81	15	53	64	41	36	31
WCMW-14I	20.0 - 25.0	125	258	231	165	149	167	243	256	96	86	234	106
WCMW-14I2	30.0 - 35.0	0	0	6	--	--	0	--	--	--	0	--	--
WCMW-14D	67.0 - 72.0	0	0	0	--	--	0	--	--	--	0	--	--
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-15. OU-4 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 Concentration (µg/L)											
		Sampling Date											
		2012				2013				2014			
		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-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	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	--	--	--	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	59	--	--	--	--	37	--	--	--	--	--	--
WCMW-22I	25.0 - 30.0	0	--	--	--	--	0	--	--	--	0	--	--
WCMW-23S	2.0 - 12.0	--	--	--	--	--	17	--	--	--	13	--	--
WCMW-23I	25.0 - 30.0	--	--	--	--	--	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	7	0	--	--	0	--	--	--	0	--	--
WCMW-25D	55.0 - 60.0	0	0	0	--	--	0	--	--	--	0	--	--
WCMW-26S	2.0 - 12.0	352	436	290	--	217	190	406	2,081	748	335	357	557
WCMW-26I	20.0 - 25.0	7	25	12	--	86	111	5	60	55	10	42	19
WCMW-26I2	30.0 - 35.0	1	9	3	--	--	2	--	--	--	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	2,374	1,420	1,986	--	2,123	1,615	1,746	2,172	1,756	1,952	1,889	1,466
WCMW-29I	20.0 - 25.0	5	10	24	--	--	60	--	208	87	36	41	93
WCMW-30S	2.0 - 12.0	14	49	18	8	7	16	--	--	--	0	--	--
WCMW-30I	20.0 - 25.0	169	486	654	585	373	602	663	606	295	307	458	478
WCMW-30I2	30.0 - 35.0	3	12	1	108	46	0	20	118	0	0	0	--
WCMW-31S	2.0 - 12.0	427	353	53	35	241	199	35	22	68	45	18	--
WCMW-31I	20.0 - 25.0	31	18	9	0	7	10	--	--	--	8	--	--
WCMW-31I2	30.0 - 35.0	69	4	0	0	0	0	--	--	--	0	--	--
WCMW-32S	2.0 - 12.0	304	286	189	4	247	269	97	25	184	167	63	256

Table 4-15. OU-4 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 Concentration (µg/L)											
		Sampling Date											
		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
WCMW-01S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3.0 - 13.0	27	25	--	--	--	48	--	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19.0 - 24.0	162	280	187	246	265	304	245	254	1	238	305	349
WCMW-04I2	29.85 - 34.85	7	2	--	--	--	27	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	--	--	--	--	--	2	--	--	--	--	--	--
WCMW-05I	19.61 - 24.61	164	190	176	201	180	152	138	186	0	183	237	211
WCMW-05I2	29.46 - 34.46	13	100	--	123	76	155	168	121	--	71	--	78
WCMW-06S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08I	19.2 - 24.2	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	--	0	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5.0 - 15.0	61	127	41	47	--	--	--	--	--	--	--	--
WCMW-11I	25.0 - 35.0	25	18	192	54	--	--	--	--	--	--	--	--
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	0	0	43	51	3	0	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	42	39	66	--	37	28	72	78	0	42	74	85
WCMW-14I	20.0 - 25.0	5	2	58	180	7	17	188	156	0	11	193	173
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-15. OU-4 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 Concentration (µg/L)											
		Sampling Date											
		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
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	--	27	--	--	--	--	--	--	--	--	--	--
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	257	404	973	1,597	--	--	--	--	--	--	--	--
WCMW-26I	20.0 - 25.0	74	3	27	69	--	--	--	--	--	--	--	--
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	2,390	1,424	1,175	1,191	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	8	22	107	140	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	102	339	267	352	178	285	313	309	0	255	404	288
WCMW-30I2	30.0 - 35.0	--	0	--	--	--	0	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	--	36	--	--	--	48	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	280	12	20	13	141	23	--	0	0	116	--	2

Table 4-15. OU-4 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 Concentration (µg/L)									
		Sampling Date									
		2018				2019				2020	
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep
WCMW-01S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	--	--	--	--	--	--	--	--	--
WCMW-02D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19.0 - 24.0	99	108.6	--	--	--	--	--	--	58	226
WCMW-04I2	29.85 - 34.85	--	--	--	--	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	--	14.6	31	--	--	--	--	--	--	--
WCMW-05I	19.61 - 24.61	335	313.6	173	320	121	310	255	305	195	12
WCMW-05I2	29.46 - 34.46	1	5.3	148	7	--	0	--	--	--	161
WCMW-06S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	--	--	--	--	--	--	--	--	--	--
WCMW-08I	19.2 - 24.2	--	--	--	--	--	--	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	--	--	--	--	--
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	--	3.4	--	--	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	15	91.5	123	1	100	0	19	41	35	1
WCMW-14I	20.0 - 25.0	1	0.69	12	2	0	0	--	--	--	17
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--

Table 4-15. OU-4 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 Concentration (µg/L)									
		Sampling Date									
		2018				2019				2020	
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep
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	143	39.77	130	119	56	13	139	106	101	28
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	35	70.2	8	31	116	144	8	2	0	2

Table 4-15. OU-4 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 Concentration (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
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	0	432	169	0	432
WCMW-04I2	29.85 - 34.85	0	285	29	0	285
WCMW-05S	1.15 - 11.15	0	284	27	0	284
WCMW-05I	19.61 - 24.61	0	432	215	0	432
WCMW-05I2	29.46 - 34.46	0	778	86	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	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	0	263	44	0	263
WCMW-14I	20.0 - 25.0	0	376	99	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
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

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Bay Shore, NY

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
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	0	663	291	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	0	304	100	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	OU4	OU4	OU4	OU4	OU4	OU4
			Sample Name	WCMW-04I	WCMW-04I	WCMW-05I	WCMW-05I	WCMW-05I	WCMW-05I	WCMW-05I2	DUP-04	WCMW-14S	WCMW-14S	WCMW-14S	WCMW-14S	WCMW-14I	WCMW-30I	WCMW-30I	WCMW-30I	WCMW-30I	WCMW-32S	WCMW-32S	WCMW-32S	WCMW-32S
			Start Depth	19	19	19.61	19.61	19.61	19.61	29.46	29.46	2	2	2	2	20	20	20	20	20	2	2	2	2
			End Depth	24	24	24.61	24.61	24.61	24.61	34.46	34.46	12	12	12	12	25	25	25	25	25	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
			Sample Date	02/05/20	08/24/20	07/25/19	12/18/19	02/05/20	08/05/20	08/05/20	8/5/2020	07/25/19	12/05/19	02/05/20	08/05/20	08/05/20	07/25/19	12/05/19	02/05/20	08/04/20	07/25/19	12/05/19	02/05/20	08/05/20
			Parent Sample Code								WCMW-05I2													
			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 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 U	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	**0.35 J**	**1.7**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1.6**	**0.38 J**	**3.2**	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	**1.3 J**	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**2.5**	2 U	**3.5**	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	**0.35**	**3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4.1**	**0.38**	**6.7**	ND	ND	ND	ND
PAH17	µg/L																							
Acenaphthene		83-32-9	20*	**20**	**130**	**61**	**62**	**44**	**2.8 J**	**52**	**68**	**13**	**30**	**18**	**1.3 J**	**2.1 J**	**48**	**41**	**36**	**18**	**4.2 J**	**1.7 J**	10 U	**2 J**
Acenaphthylene		208-96-8	NE	**3.4 J**	**15**	**8.8 J**	**8.6 J**	**9.6 J**	**6.4 J**	**7.6 J**	**13**	**1.3 J**	**3.1 J**	**2.6 J**	10 U	**11**	**9.3 J**	**3.1 J**	**5.6 J**	**1.1 J**	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	**1.9 J**	**3.5 J**	**13**	**10**	**7.1 J**	10 U	**10**	**18**	10 U	10 U	**0.69 J**	10 U	10 U	10 U	**0.92 J**	**0.69 J**	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	**1.5**	**1.3**	**0.69 J**	1 U	**1.1**	**4.3**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U*	2 U	2 U	2 U	2 U*	2 U	2 U	**2.2**	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	**0.5 J**	**0.45 J**	1 U*	1 U	**0.52 J**	**2.4**	1 U	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	2 U	**1.6 J**	**1.3 J**	2 U	2 U*	**1 J***	**4 ***	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*
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*	**1.6 J**	**2.4 J**	**4.4 J**	**3.5 J**	**2 J**	10 U	**4 J**	**8.1 J**	**1.1 J**	**1.6 J**	**1.3 J**	10 U	10 U	**0.86 J**	**0.89 J**	10 U	10 U	**1.6 J**	10 U	10 U	10 U
Fluorene		86-73-7	50*	**2.3 J**	**19**	**38**	**39**	**27**	**2.6 J**	**34**	**50**	**1.4 J**	**3.6 J**	**2.3 J**	10 U	**1 J**	**37**	**21**	**24**	**5.4 J**	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	**42**	**84**	**37**	10 U	**2.3 J**	**62**	10 U	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*	10 U	**4.5**	**16**	**41**	**31**	2 U	**1.9 J**	**5**	10 U	10 U	10 U	2 U	**3**	**1.3 J**	**3 J**	**1.2 J**	2 U	10 U	10 U	10 U	2 U
Phenanthrene		85-01-8	50*	**26**	**49**	**62**	**49**	**34**	10 U	**41**	**79**	10 U	10 U	**8.2 J**	10 U	10 U	**43**	**36**	**34**	**3.4 J**	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	**2.4 J**	**2.7 J**	**6.3 J**	**5.3 J**	**3.1 J**	10 U	**5.6 J**	**14**	**2.6 J**	**2.5 J**	**1.9 J**	10 U	10 U	10 U	10 U	10 U	10 U	**1.9 J**	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	**57.6**	**226.1**	**255.1**	**305.45**	**195.49**	**11.8**	**161.02**	**330**	**19.4**	**40.8**	**34.99**	**1.3**	**17.1**	**139.46**	**105.91**	**101.49**	**27.9**	**7.7**	**1.7**	ND	**2**

Figures

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2 Historical Sitewide Progress Map
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5 Oxygen Injection Line Groundwater Data (OU-2)
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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 Q3 2020 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-2

OU-3 BRIGHTWATERS YARD SITE

OU-4

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)

WEST DRIVE · CENTER AVENUE · FIFTH AVENUE · CLINTON AVENUE · SMITH AVENUE · OCEAN AVENUE · BAY AVENUE · SOUTH CLINTON AVENUE (C.R. 13A) · COMMUNITY ROAD · COOPER LANE · LANIER LANE · JOHNSON LANE · HEMLOCK LANE · GARNER LANE · MANATUCK LANE · EAST CT. · JAN CT. · MARC CT. · DEB CT.

OAK STREET · UNION BOULEVARD · LONG ISLAND RAILROAD SOUTHSIDE BRANCH · MECHANICSVILLE SERVICE ROAD · ACKERSON STREET · ORINOCO DRIVE · MONTAUK HIGHWAY (S.R. 27A) · (S.R. 27A) · GIBSON STREET · LINDEN PLACE

950 FEET SOUTH · 635 FEET SOUTH

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

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

Project 1905774 | December 2020 | Fig. 1

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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)

N. PARK AVE.
WEST DR.
CENTER AVENUE
FIFTH AVENUE
OAK ST.
LONG ISLAND RAILROAD
MONTAUK BRANCH
UNION BOULEVARD
SMITH AVENUE
MECHANICSVILLE SERVICE RD.
SMITH AVENUE (S.R. 27A)
MONTAUK HWY.
WATCHOGUE CREEK (TIDAL)
OCEAN AVENUE
BAY AVENUE
PL.
LINDEN
GIBSON ST.
SOUTH CLINTON AVENUE
ACKERSON STREET
CLINTON AVENUE
MARC CT.
DEB CT.
SOUTH CT.
CLINTON AVE. (C.R. 13A)
HIAWATHA DR.
ORINOCO DR.
COMMUNITY ROAD
UNION BOULEVARD
COOPER LANE
COMMUNITY ROAD
EAST CT.
LANIER LANE
GARNER LANE
JOHNSON LANE
HEMLOCK LANE
O-CO-NEE POND
UNNAMED POND (HEADWATERS OF O-CO-NEE POND)
LAWRENCE LAKE
MANATUCK LANE
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.

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

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

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HISTORICAL SITEWIDE PROGRESS MAP

Project 1905774 | December 2020 | Fig. 2

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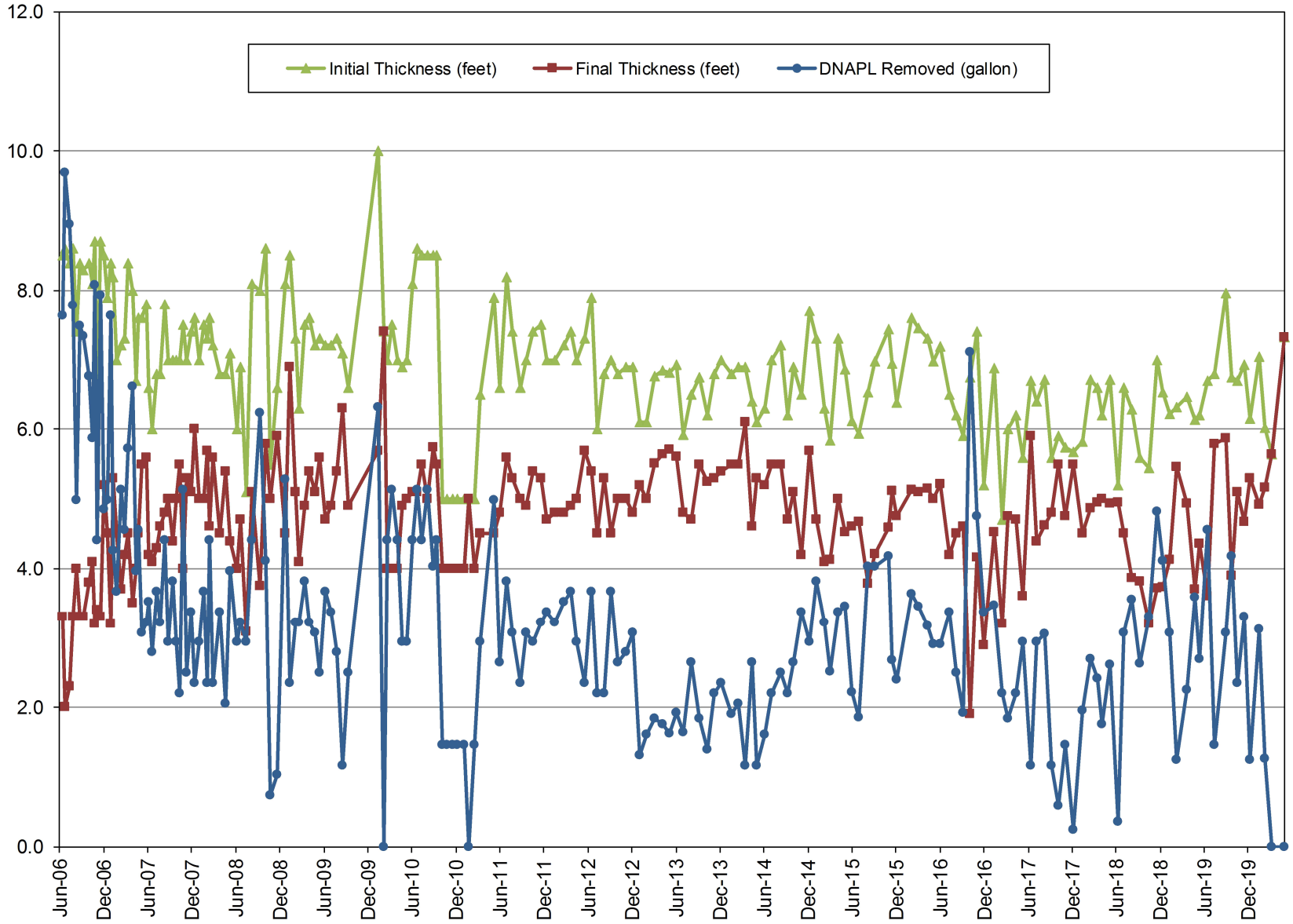

NOTE: DNAPL RECOVERY OPERATIONS WERE SUSPENDED IN Q4 2009 DUE TO CONSTRUCTION ACTIVITIES.

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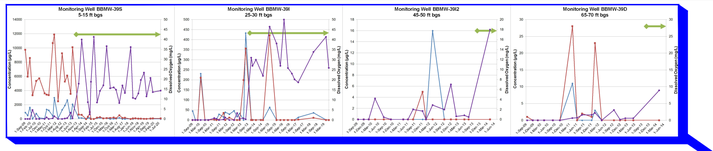
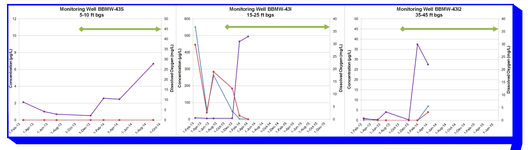
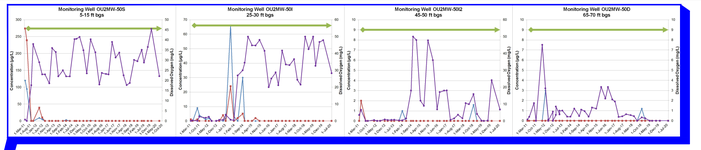
DNAPL RECOVERY DATA
BBRW-02

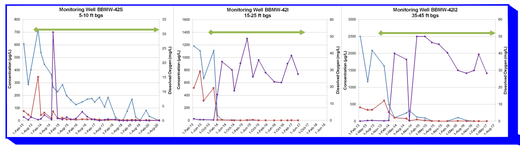
Project 1905774 | December 2020 | Fig. 3

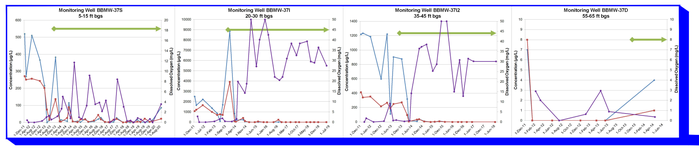
\\Gtb-pzcc-1\ I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2020\Figures\Q3_2020\1905774_OMMQ320_DNAPL.dwg - 12/2/2020

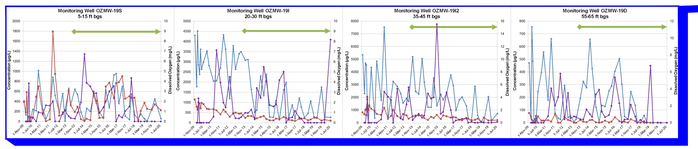


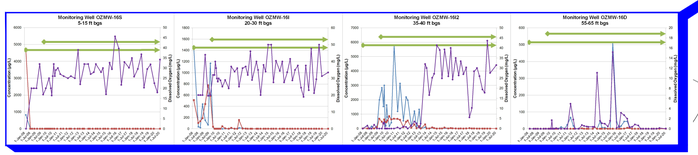


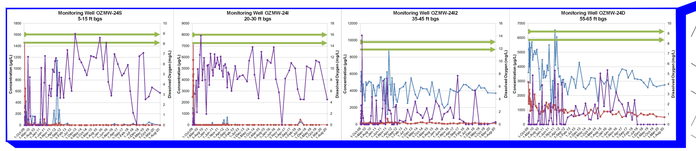


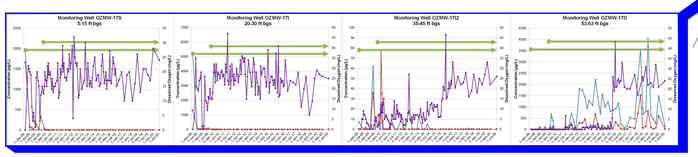


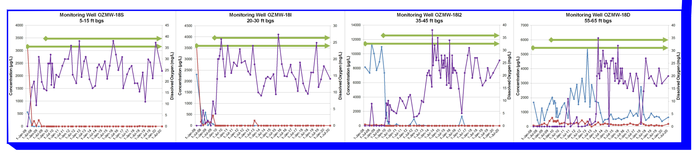












S-ISCO SYSTEM INJECTION AREA
WEST DR.
CENTER AVE.
OU-4 CESSPOOL EXCAVATION IRM
OU-4
WATCHOGUE CREEK/ CRUM'S BROOK
SMITH AVE.
OAK ST.
UNION BOULEVARD
OU-1 UNION BOULEVARD OXYGEN INJECTION SYSTEM
BBMW-39S
BBMW-39I
BBMW-39I2
BBMW-39D
BBMW-43S
BBMW-43I
BBMW-43I2
OU2MW-50S
OU2MW-50I
OU2MW-50I2
OU2MW-50D
33 N. CLINTON/ COOPER LANE OXYGEN INJECTION LINE
FIFTH AVENUE
ACKERSON STREET
OZONE GROUNDWATER TREATMENT AREA
BBMW-42S
BBMW-42I
BBMW-42I2
BBMW-37S
BBMW-37I
BBMW-37I2
BBMW-37D
OZMW-19S
OZMW-19I
OZMW-19I2
OZMW-19D
OZMW-16S
OZMW-16I
OZMW-16I2
OZMW-16D
OZMW-23S
OZMW-23I
OZMW-23I2
OZMW-23D
OZMW-17S
OZMW-17I
OZMW-17I2
OZMW-17D
OZMW-18S
OZMW-18I
OZMW-18I2
OZMW-18D
BAY SHORE SITE
OU-1
BAY SHORE WEST PARCEL
BAY SHORE WEST STORAGE LOT PARCEL
CLINTON AVENUE
SOUTH UNION STREET
JAN CT.
MARC CT.
DEB CT.
MECHANICSVILLE SERVICE RD.
9 N. CLINTON OXYGEN INJECTION LINE
SUBSURFACE CONTAINMENT BARRIER
60/66 N. CLINTON OXYGEN INJECTION SYSTEM
COMMUNITY ROAD OXYGEN INJECTION LINE (STARTED IN Q2 2010)
LOMBARDY BLVD.
WOHSEEPEE DR.
BRIGHTWATERS EAST PARCEL
BRIGHTWATERS YARD SITE
OU-3
MONTAUK BRANCH
COMMUNITY ROAD
FORMER OU-3 UNION BOULEVARD OXYGEN INJECTION SYSTEM (ABANDONED JULY 2010)
COMMUNITY ROAD
34 N. CLINTON OXYGEN INJECTION LINE
29 COMMUNITY ROAD OXYGEN INJECTION LINE
COOPER LANE
HIAWATHA DR.
ORINOCO DR.
EAST CT.
FORMER BRIGHTWATERS YARD OXYGEN INJECTION SYSTEM (ABANDONED JUNE 2009)
LANIER LANE
BROOKLYN BLVD.
ORINOCO DR.
LONG ISLAND RAILROAD
87COMMUNITY ROAD OXYGEN INJECTION LINE (STARTED IN Q3 2013)
UNNAMED POND (HEADWATERS OF O-CO-NEE POND)
JOHNSON LANE
O-CO-NEE POND
MONTAUK HIGHWAY
HEMLOCK LANE
UNION BOULEVARD
E. ORINOCO CT.
(S.R. 27A)
MONTAUK HWY.
WATCHOGUE CREEK (TID
OCEAN AVE.
BAY AVE.
GIBSON ST.
LINDEN PL.
(C.R. 13A)
SOUTH CLINTON AVE.
MONTAUK HIGHWAY OXYGEN INJECTION LINE
OU-2
GARNER LANE
MANATUCK LANE OXYGEN INJECTION LINE
PLUME TAIL OXYGEN INJECTION LINE
MANATUCK LANE
LAWRENCE LAKE
LAWRENCE CREEK (TIDAL)

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.
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'

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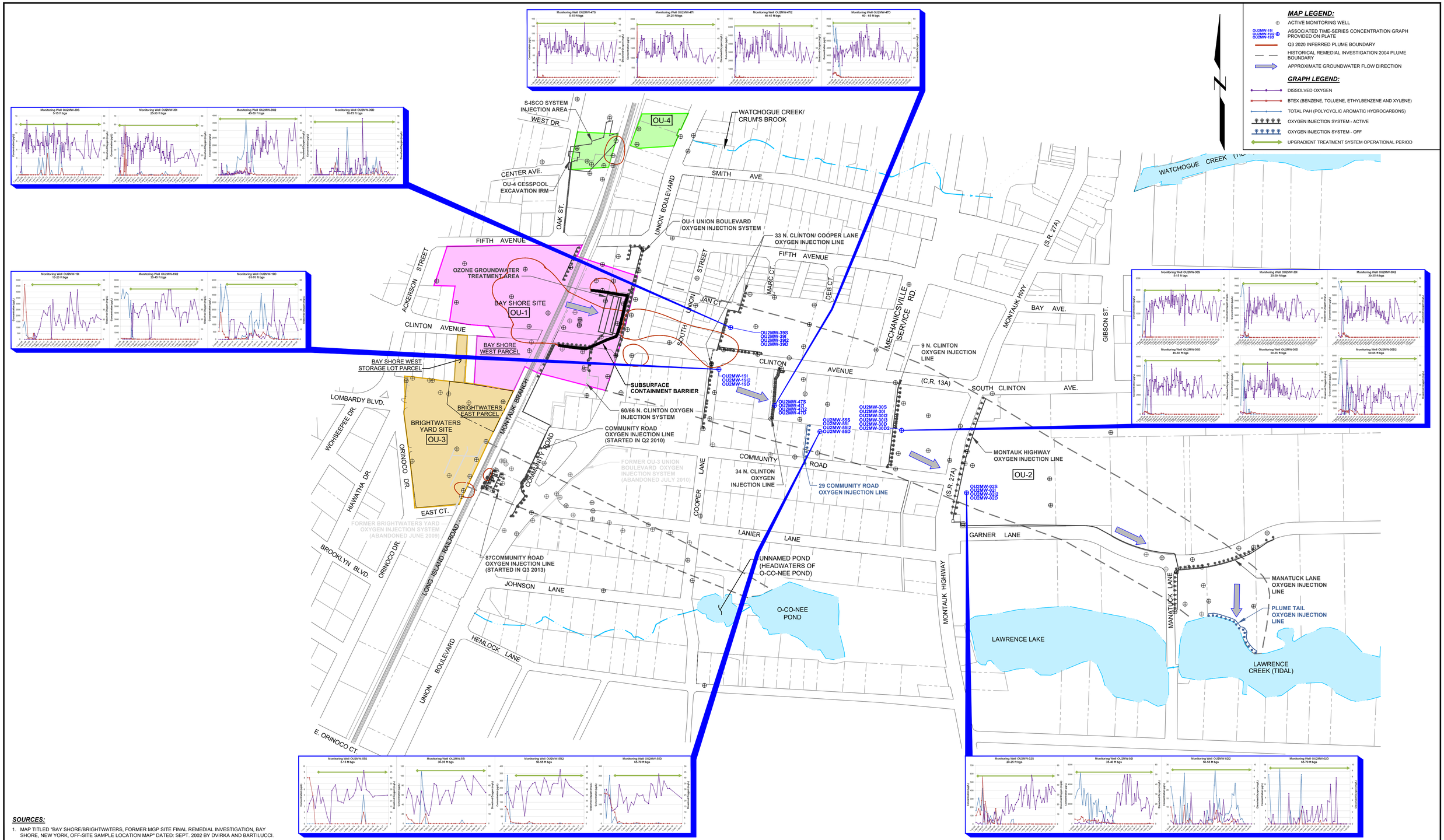
OXYGEN INJECTION LINE GROUNDWATER DATA (OU-1)

Project 1905774 | December 2020 | Fig. 4



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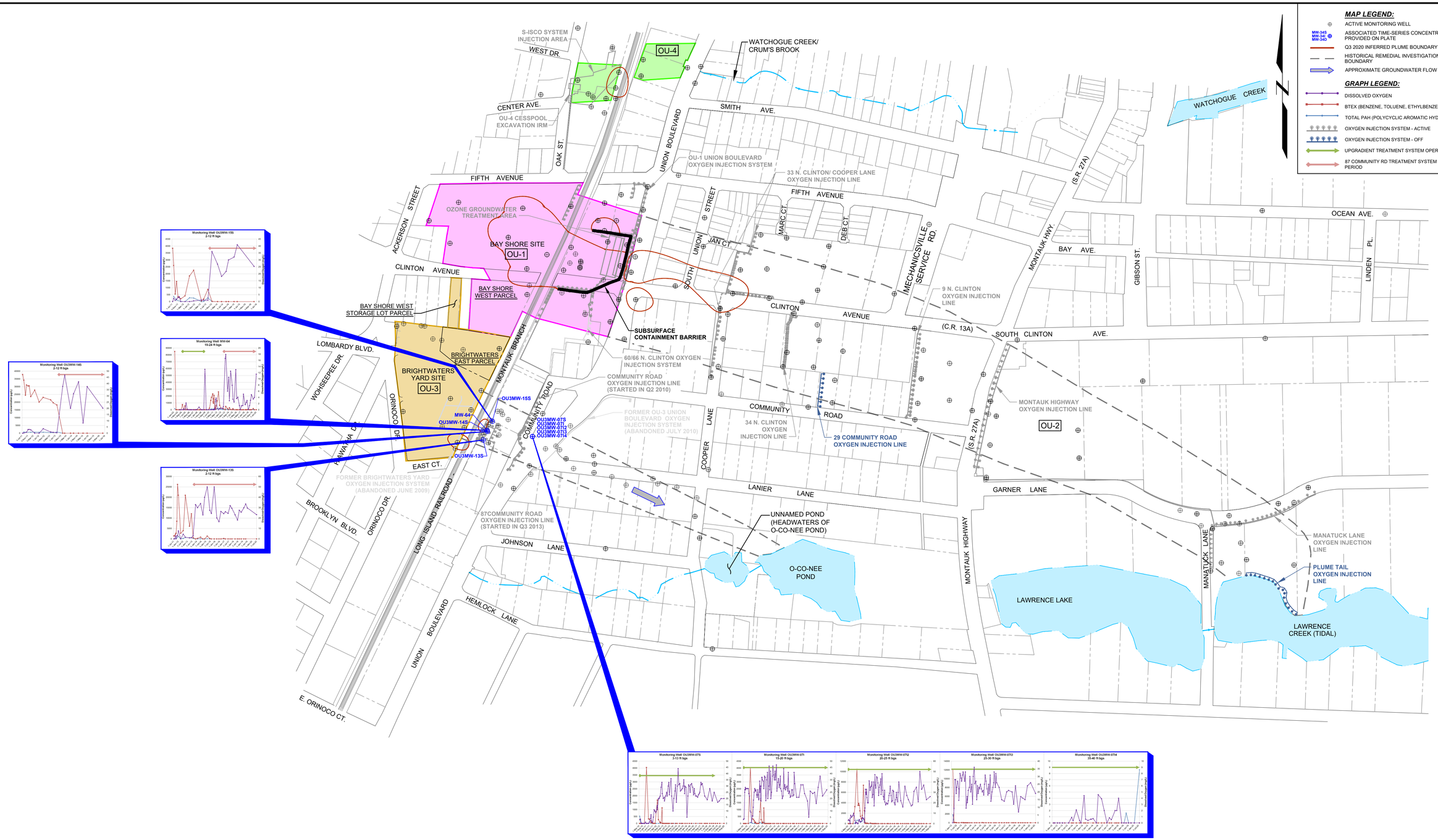
OXYGEN INJECTION LINE GROUNDWATER DATA (OU-2)

Project 1905774 | December 2020 | Fig. 5

\\Gtb-pzcc-1\ I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2020\Figures\Q3_2020\1905774_OMMQ320_GRAPHS.dwg - 12/10/2020



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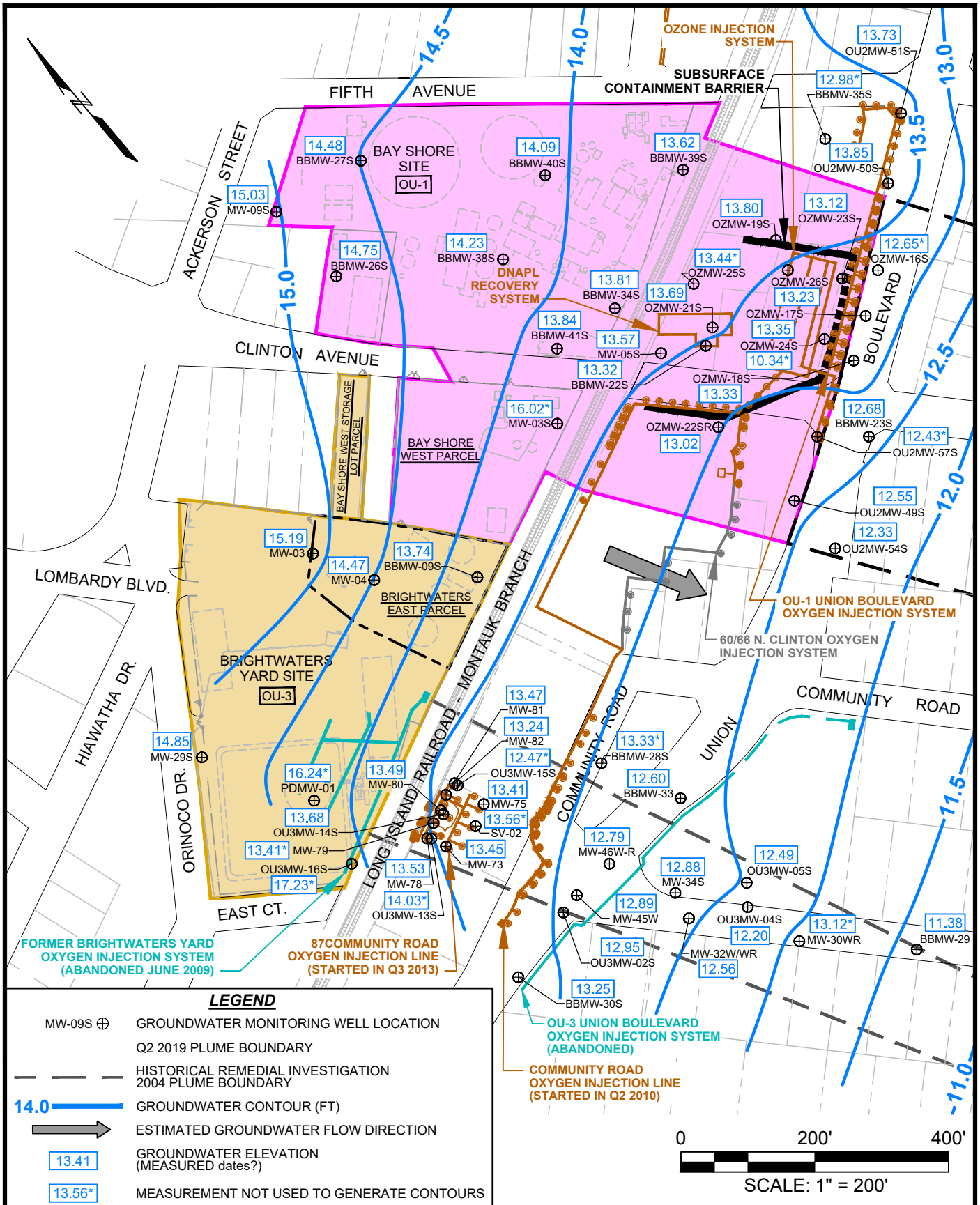
OXYGEN INJECTION LINE GROUNDWATER DATA (OU-3)

Project 1905774 | December 2020 | Fig. 6

\\Gtb-pzcc-1\ I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2020\Figures\Q3_2020\1905774_OMMQ320_GRAPHS.dwg - 12/16/2020



LEGEND

MW-09S ⊕	GROUNDWATER MONITORING WELL LOCATION
	Q2 2019 PLUME BOUNDARY
— — —	HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME BOUNDARY
14.0	GROUNDWATER CONTOUR (FT)
➡	ESTIMATED GROUNDWATER FLOW DIRECTION
13.41	GROUNDWATER ELEVATION (MEASURED dates?)
13.56*	MEASUREMENT NOT USED TO GENERATE CONTOURS

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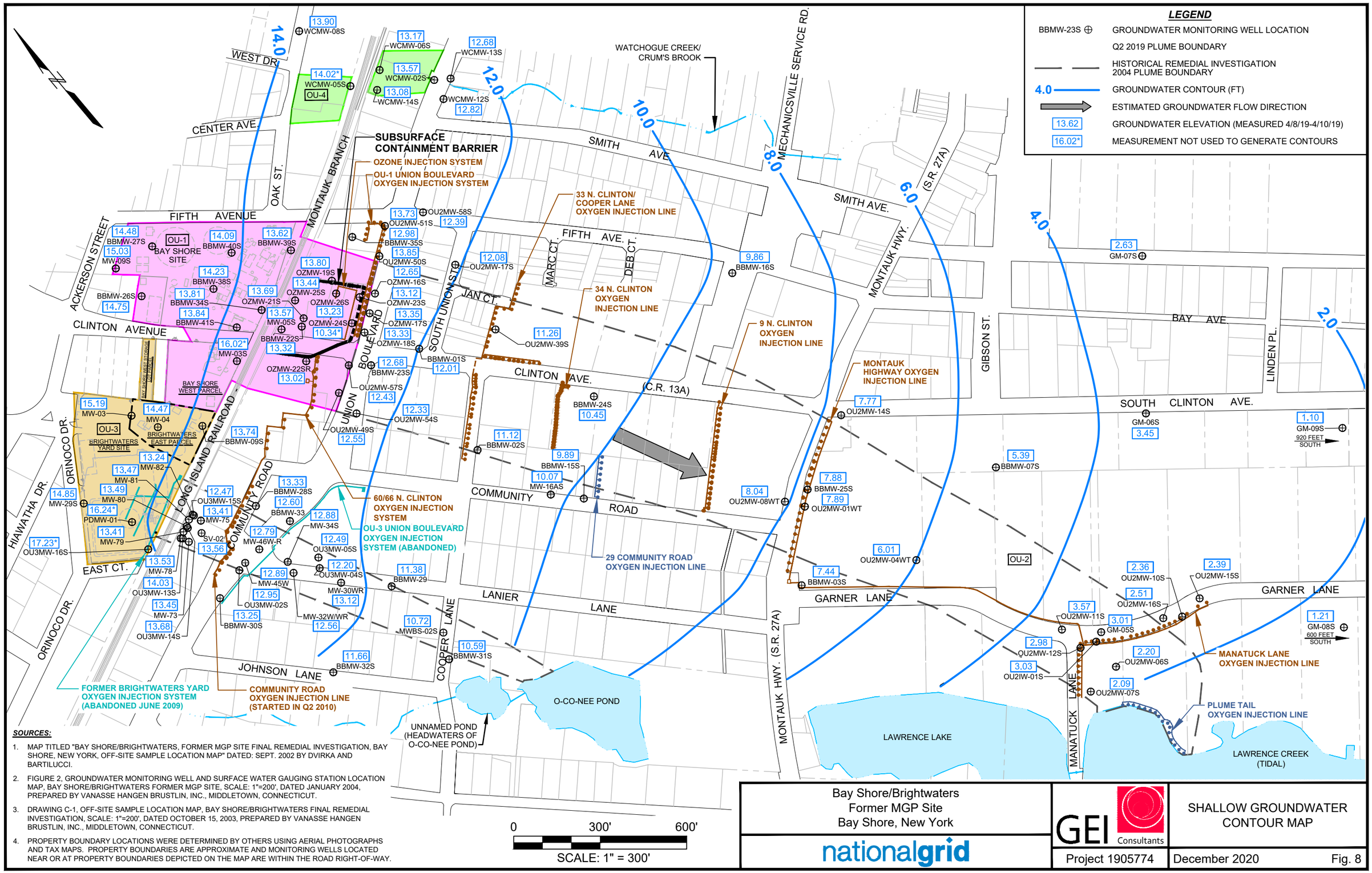
ON-SITE
SHALLOW GROUNDWATER
CONTOUR MAP

Project 1905774 | December 2020 | Fig. 7

\\Gtb-pzcc-1\ I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2020\Figures\Q3_2020\1905774_OMMQ320_OSGWC.dwg - 11/11/2020



SOURCES:

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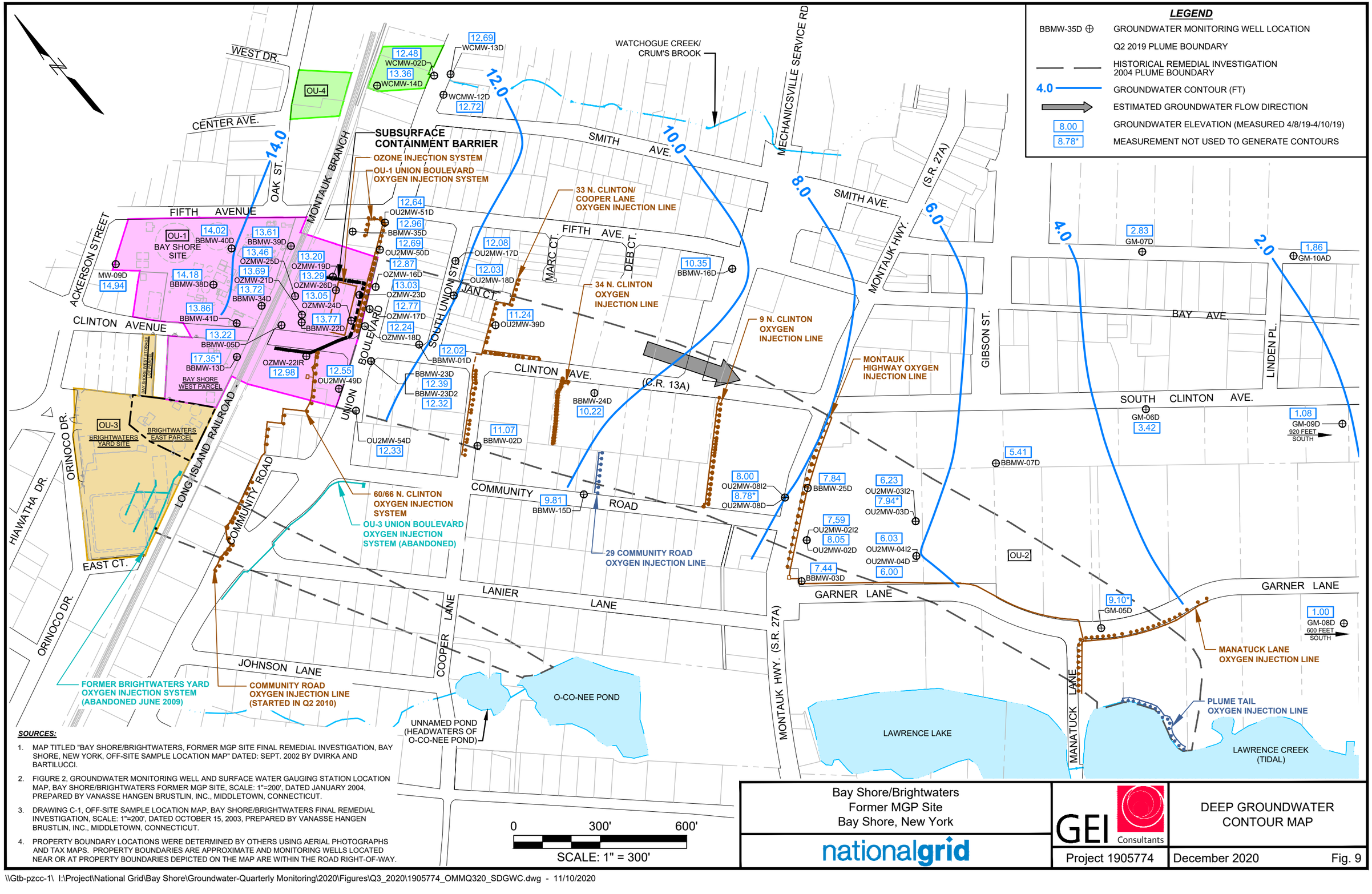
SHALLOW GROUNDWATER CONTOUR MAP

Project 1905774 | December 2020 | Fig. 8

\\Gtb-pzcc-1\ I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2020\Figures\Q3_2020\1905774_OMMQ320_SDGWC.dwg - 11/10/2020



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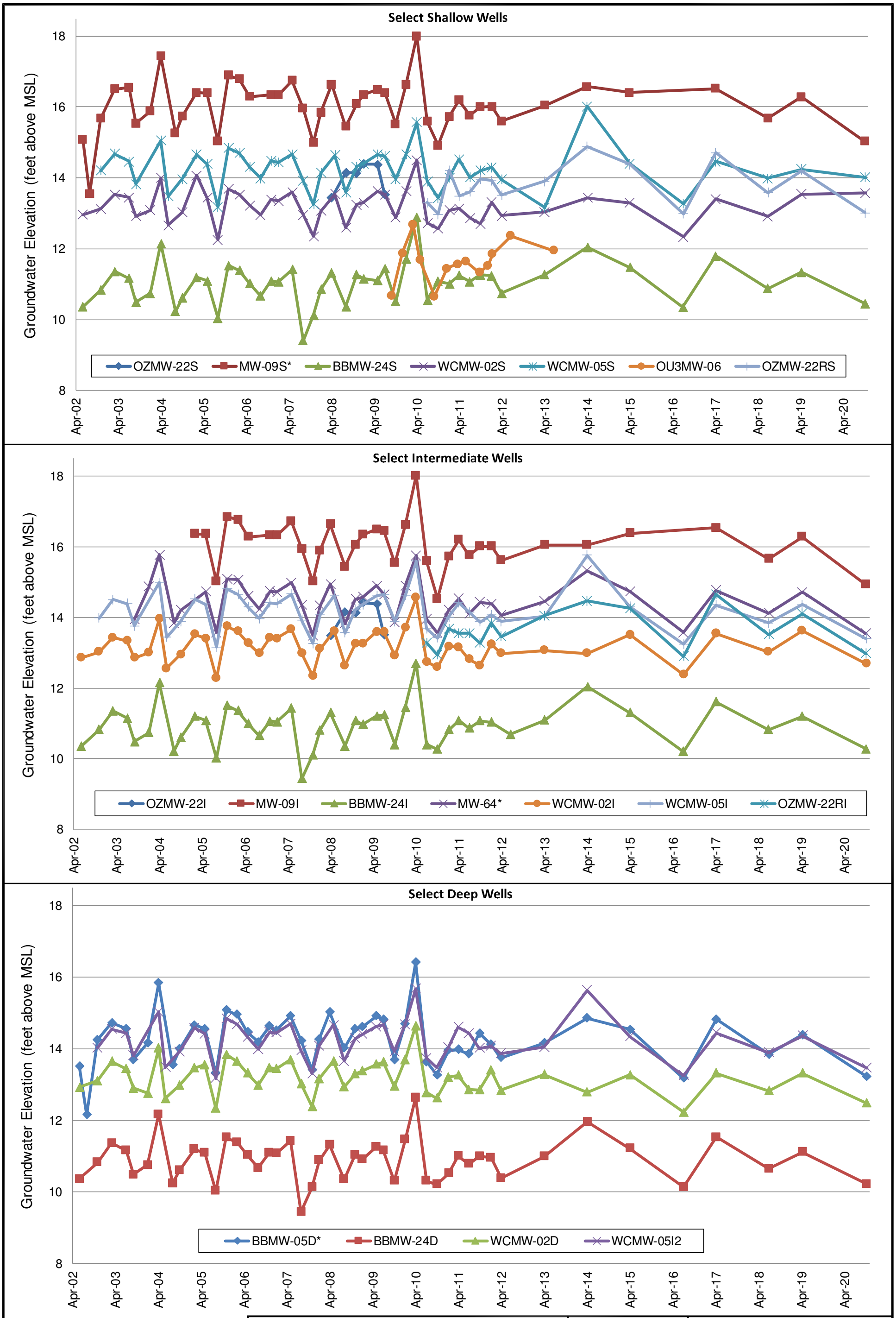
DEEP GROUNDWATER CONTOUR MAP

Project 1905774 | December 2020 | Fig. 9

\\Gtb-pzcc-1\ I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2020\Figures\Q3_2020\1905774_OMMQ320_SDGWC.dwg - 11/10/2020



NOTES:

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

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HYDROGRAPHS OF SELECT WELLS

Project 1905774 | December 2020 | Fig. 10

\\Gtb-pzcc-1\ I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2020\Figures\Q3_2020\1905774_OMMQ320_HGRAPH.dwg - 12/2/2020

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

Q3 2020

Q3 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-03S	3-13	ND
BBMW-22S	5-10	2095.8
BBMW-23S	5-15	544.3
BBMW-34S	5-15	8.64
BBMW-37S	5-10	21.3
BBMW-38S	5-15	256.4
BBMW-39S	5-15	72.63
BBMW-40S	5-15	397.65
BBMW-41S	6-16	3704.6
BBMW-42S	5-10	2.9
MW-03S	3-13	ND
MW-05S	4-14	991
OU1PZ-101	4-14	1680
OU1PZ-102	4-14	49.15
OU1PZ-103	4-14	1009.4
OU1PZ-104	4-14	13
OU1PZ-105	4-14	29
OU2MW-04WT	3-8	ND
OU2MW-06S	3-8	ND
OU2MW-08WT	3-8	ND
OU2MW-11S	3-8	ND
OU2MW-12S	3-7	ND
OU2MW-28S	5-15	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	6.7
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	223
OZMW-22SR	5-15	6.3
OZMW-23S	5-15	ND
OZMW-24S	5-15	ND
OZMW-25S	5-15	438.2
OU-3		
MW-78	5-20	ND
MW-79	5-20	ND
MW-83	5-20	3.2
OU3MW-07S	3-13	ND
OU3MW-08S	3-13	1289
OU3MW-13S	2-12	ND
OU3MW-16S	2-12	48.5
OU3MW-19S	2-12	4.3
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).

Bay Shore/Brightwaters
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Bay Shore, New York

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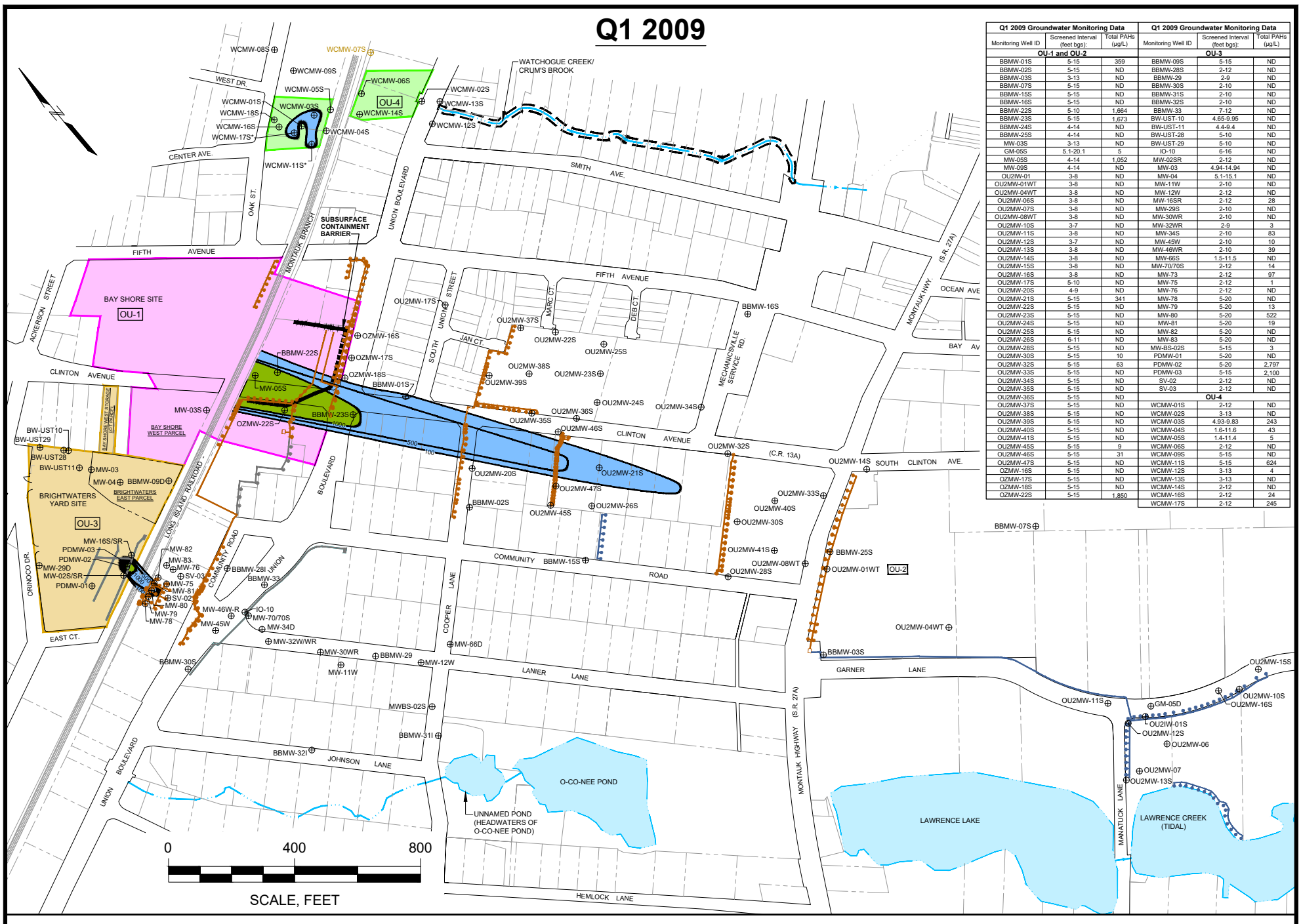
WATER TABLE GROUNDWATER
TOTAL BTEX
ISO-CONCENTRATION MAPS
(0-10 FEET BGS)

Project 1905774 | December 2020 | Fig. 11

\\GTB2L-PHERI I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2020\Figures\Q3_2020\1905774_OMMQ320_ISOC.dwg - 12/3/2020

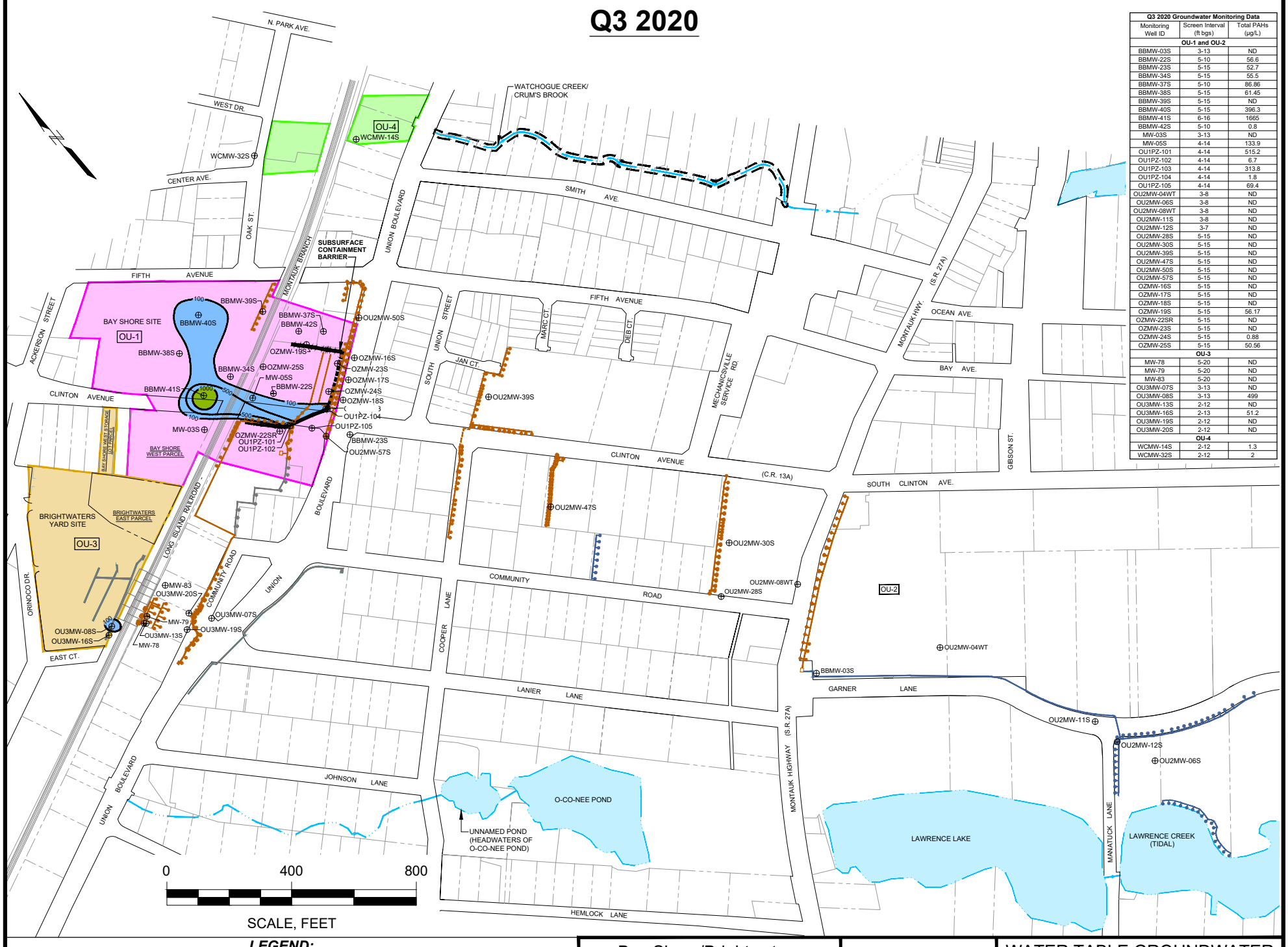
Q1 2009

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



Q3 2020

Q3 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-03S	3-13	ND
BBMW-22S	5-10	56.6
BBMW-23S	5-15	52.7
BBMW-34S	5-15	55.5
BBMW-37S	5-10	86.86
BBMW-38S	5-15	61.45
BBMW-39S	5-15	ND
BBMW-40S	5-15	396.3
BBMW-41S	6-16	1665
BBMW-42S	5-10	0.8
MW-03S	3-13	ND
MW-05S	4-14	133.9
OU1PZ-101	4-14	515.2
OU1PZ-102	4-14	6.7
OU1PZ-103	4-14	313.8
OU1PZ-104	4-14	1.8
OU1PZ-105	4-14	69.4
OU2MW-04WT	3-8	ND
OU2MW-06S	3-8	ND
OU2MW-08WT	3-8	ND
OU2MW-11S	3-8	ND
OU2MW-12S	3-7	ND
OU2MW-28S	5-15	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	56.17
OZMW-22SR	5-15	ND
OZMW-23S	5-15	ND
OZMW-24S	5-15	0.88
OZMW-25S	5-15	50.56
OU-3		
MW-78	5-20	ND
MW-79	5-20	ND
MW-83	5-20	ND
OU3MW-07S	3-13	ND
OU3MW-08S	3-13	499
OU3MW-13S	2-12	ND
OU3MW-16S	2-13	51.2
OU3MW-19S	2-12	ND
OU3MW-20S	2-12	ND
OU-4		
WCMW-14S	2-12	1.3
WCMW-32S	2-12	2



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)

Project 1905774 | December 2020 | 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-34I	18.5-19.5	ND
MW-64	19-24	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

Q3 2020

Q3 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-03I	30-40	ND
BBMW-20I	35-45	1
BBMW-22I	30-40	281.8
BBMW-34I	25-30	741
BBMW-34I2	40-45	34
BBMW-37I	20-30	1.2
BBMW-38I	25-30	4
BBMW-38I2	35-45	3
BBMW-39I	25-30	ND
BBMW-41I	25-30	ND
MW-05D	35.5-45.5	26.7
OU2MW-02S	20-25	ND
OU2MW-02I	35-40	ND
OU2MW-04S	20-25	ND
OU2MW-04I	35-40	ND
OU2MW-06	15-25	ND
OU2MW-08S	20-25	ND
OU2MW-08I	35-40	ND
OU2MW-09	30-40	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-28I	28-33	ND
OU2MW-29I	40-45	ND
OU2MW-29D	45-50	ND
OU2MW-30I	25-30	ND
OU2MW-30I2	30-35	ND
OU2MW-30I3	45-50	ND
OU2MW-34IR	25-30	ND
OU2MW-34I2R	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

Q3 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
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
OZMW-19I	20-30	100.94
OZMW-19I2	35-45	202.1
OZMW-21I	20-30	350
OZMW-21I2	35-45	62.53
OZMW-23I	20-30	ND
OZMW-23I2	35-45	ND
OZMW-24I	20-30	ND
OZMW-24I2	35-45	134.5
OZMW-25I	20-30	369
OZMW-25I2	35-45	8.7
OZMW-26I2	35-45	ND
OU-3		
IP-16A	14-15	ND
IP-20A	14-15	ND
IP-20B	24-25	278.3
MW-64	19-24	10.29
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	31.4
OU3MW-10I	25-30	6.9
OU3MW-19I	20-25	ND
OU3MW-19I2	30-35	ND
OU3MW-20I	20-25	ND
OU3MW-20I2	30-35	ND
OU3MW-23I/IP-17B	10-15	ND
OU3MW-23I2/IP-17A	25-30	ND
OU3MW-24I/IP-19A	10-15	ND
OU3MW-24I2/IP-19B	25-30	9.3
OU-4		
WCMW-04I	19-24	3
WCMW-05I	19.61-24.61	ND
WCMW-05I2	29.46-34.46	ND
WCMW-14I	20-25	ND
WCMW-30I	20-25	6.7

NOTE:

* INDICATES WELL NOT SAMPLED IN Q3 2020 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
- BTEX — ISO-CONCENTRATION LINE (µg/L) 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)

December 2020 Fig. 13

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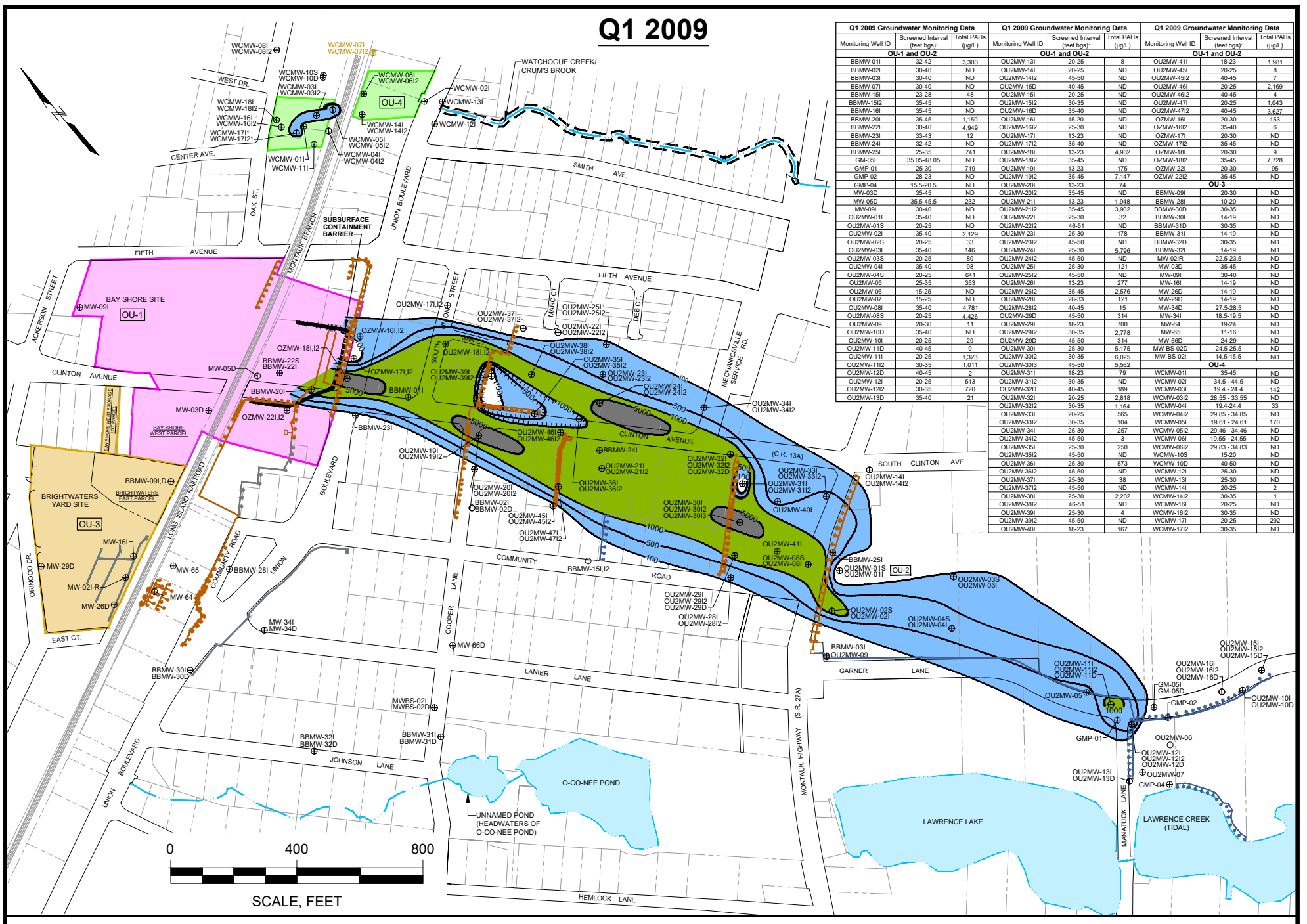
Q1 2009

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



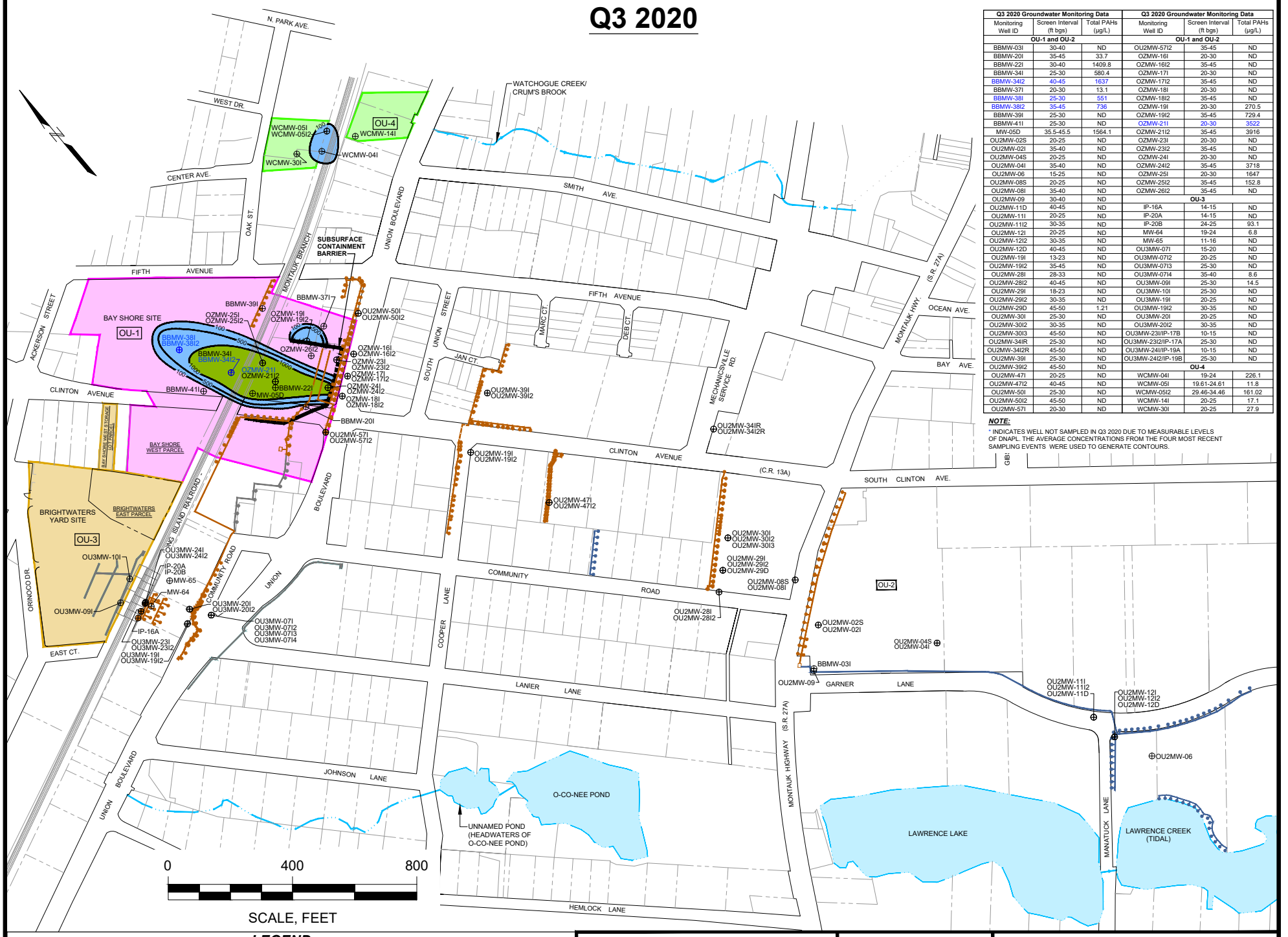
Q3 2020

Q3 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-03I	30-40	ND
BBMW-20I	35-45	33.7
BBMW-22I	30-40	1409.8
BBMW-34I	25-30	580.4
BBMW-34I2	40-45	1637
BBMW-37I	20-30	13.1
BBMW-38I	25-30	551
BBMW-38I2	35-45	736
BBMW-39I	25-30	ND
BBMW-41I	25-30	ND
MW-05D	35.5-45.5	1564.1
OU2MW-02S	20-25	ND
OU2MW-02I	35-40	ND
OU2MW-04S	20-25	ND
OU2MW-04I	35-40	ND
OU2MW-06	15-25	ND
OU2MW-08S	20-25	ND
OU2MW-08I	35-40	ND
OU2MW-09	30-40	ND
OU2MW-11D	40-45	ND
OU2MW-11I	20-25	ND
OU2MW-11I2	30-35	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-28I	28-33	ND
OU2MW-28I2	40-45	ND
OU2MW-29I	18-23	ND
OU2MW-29I2	30-35	ND
OU2MW-29D	45-50	1.21
OU2MW-30I	25-30	ND
OU2MW-30I2	30-35	ND
OU2MW-30I3	45-50	ND
OU2MW-34IR	25-30	ND
OU2MW-34I2R	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

Q3 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
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
OZMW-19I	20-30	270.5
OZMW-19I2	35-45	729.4
OZMW-21I	20-30	3522
OZMW-21I2	35-45	3916
OZMW-23I	20-30	ND
OZMW-23I2	35-45	ND
OZMW-24I	20-30	ND
OZMW-24I2	35-45	3718
OZMW-25I	20-30	1647
OZMW-25I2	35-45	152.8
OZMW-26I2	35-45	ND
OU-3		
IP-16A	14-15	ND
IP-20A	14-15	ND
IP-20B	24-25	93.1
MW-64	19-24	6.8
MW-65	11-16	ND
OU3MW-07I	15-20	ND
OU3MW-07I2	20-25	ND
OU3MW-07I3	25-30	ND
OU3MW-07I4	35-40	8.6
OU3MW-09I	25-30	14.5
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-23I/IP-17B	10-15	ND
OU3MW-23I2/IP-17A	25-30	ND
OU3MW-24I/IP-19A	10-15	ND
OU3MW-24I2/IP-19B	25-30	ND
OU-4		
WCMW-04I	19-24	226.1
WCMW-05I	19.61-24.61	11.8
WCMW-05I2	29.46-34.46	161.02
WCMW-14I	20-25	17.1
WCMW-30I	20-25	27.9

NOTE:

* INDICATES WELL NOT SAMPLED IN Q3 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).

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

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

Project 1905774 | December 2020 | Fig. 14

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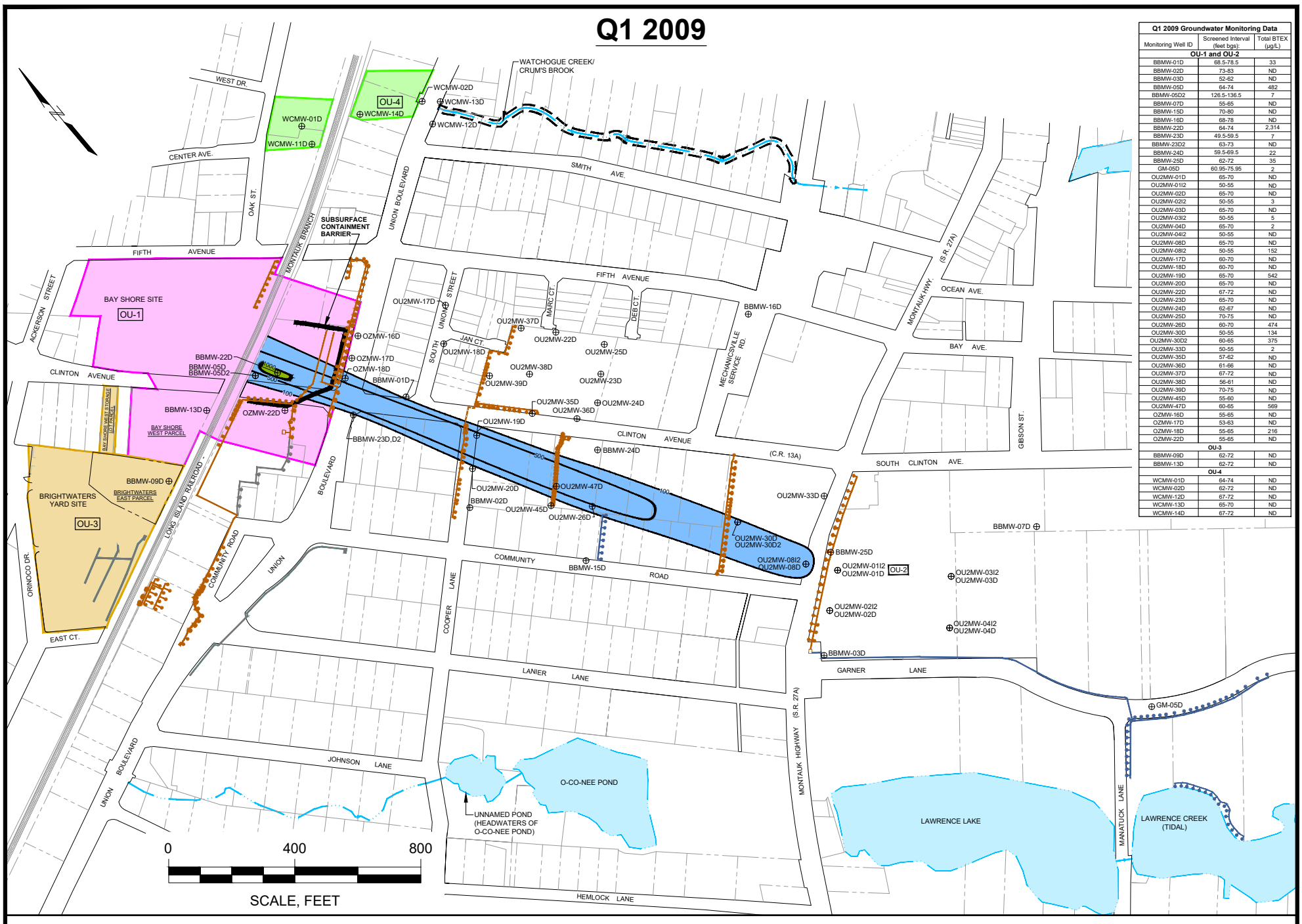
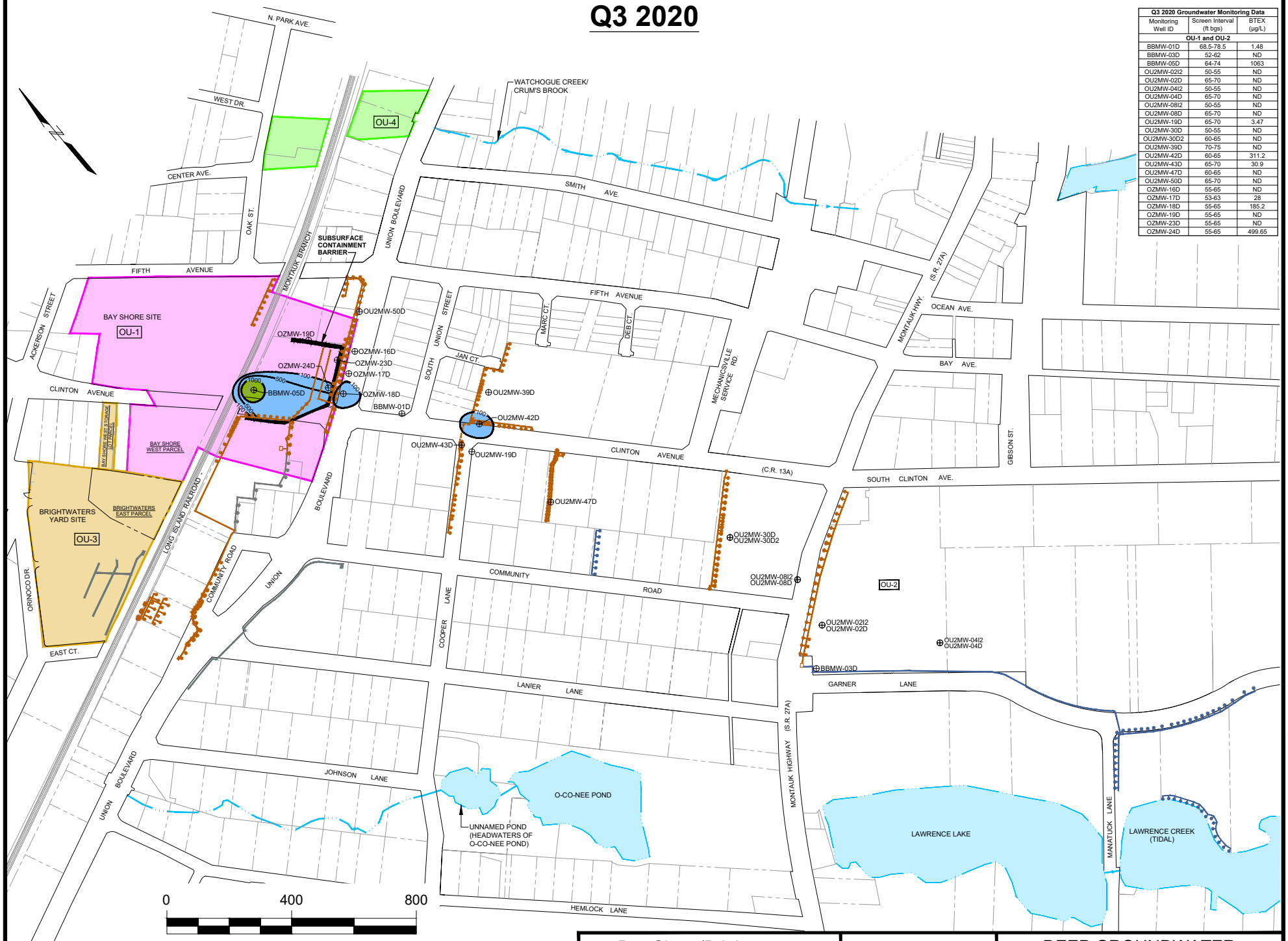
Q1 2009

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



Q3 2020

Q3 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	1.48
BBMW-03D	52-62	ND
BBMW-05D	64-74	1063
OU2MW-02I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-04I2	50-55	ND
OU2MW-04D	65-70	ND
OU2MW-08I2	50-55	ND
OU2MW-08D	65-70	ND
OU2MW-19D	65-70	3.47
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-39D	70-75	ND
OU2MW-42D	60-65	311.2
OU2MW-43D	65-70	30.9
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OZMW-16D	55-65	ND
OZMW-17D	53-63	28
OZMW-18D	55-65	185.2
OZMW-19D	55-65	ND
OZMW-23D	55-65	ND
OZMW-24D	55-65	499.65



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 | December 2020 | 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

Q3 2020

Q3 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	ND
BBMW-03D	52-62	ND
BBMW-05D	64-74	2405
OU2MW-02I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-04I2	50-55	ND
OU2MW-04D	65-70	ND
OU2MW-08I2	50-55	ND
OU2MW-08D	65-70	ND
OU2MW-19D	65-70	35.8
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-39D	70-75	ND
OU2MW-42D	60-65	947.9
OU2MW-43D	65-70	296.6
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OZMW-16D	55-65	ND
OZMW-17D	53-63	138.94
OZMW-18D	55-65	649.7
OZMW-19D	55-65	ND
OZMW-23D	55-65	ND
OZMW-24D	55-65	2737

0 400 800

SCALE, FEET

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
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)

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Former MGP Site
Bay Shore, New York

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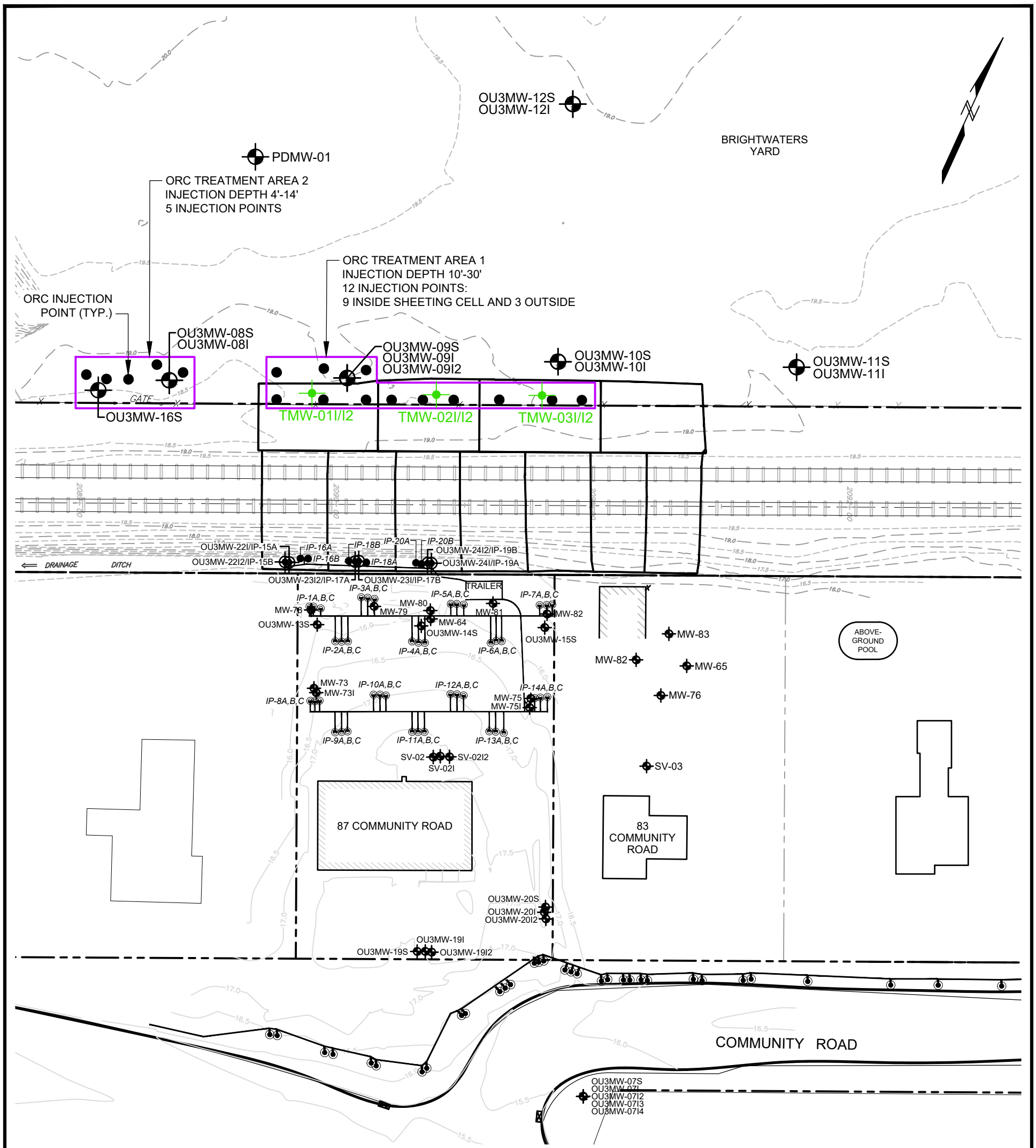
DEEP GROUNDWATER
TOTAL PAH
ISO-CONCENTRATION MAPS
(BELOW 50 FEET BGS)

Project 1905774 | December 2020 | Fig. 16

\\GTB2L-PHERI I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2020\Figures\Q3_2020\1905774_OMMQ320_ISOC.dwg - 12/3/2020



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'

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

nationalgrid

GEI Consultants

ORC-A APPLICATION

Project 1905774 | December 2020 | Fig. 17

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Appendices

Appendices also available at www.bayshoreworksmgp.com

- **A** Groundwater Monitoring Program Tracking Summary
- **B** Soil Vapor Analytical Results Graphs
- **C** OU-1 Oxygen Injection System Operational Data
- **D** OU-2 Oxygen Injection System Operational Data
- **E** OU-3 Oxygen Injection System Operational Data
- **F** Summary of Groundwater Parameter Data
- **G** Recent Iso-Concentration Maps – Q3 2019, Q4 2019, Q1 2020
- **H** Summary of Sulfate Concentrations (µg/L)

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)	Q3 2019	Q4 2019	Q1 2020	Q3 2020
OU-1 Monitoring Wells						
BBMW-05D	74	64-74	X	X	X	X
BBMW-13D	72	62-72	-	-	-	-
BBMW-20I	45	35-45	X	X	X	X
BBMW-22S	10	5-10	X	X	X	X
BBMW-22I	40	30-40	X	X	X	X
BBMW-22D	74	64-74	-*	-*	-*	-*
BBMW-26S	16	6-16	-	-	-	-
BBMW-26I	40	30-40	-	-	-	-
BBMW-27S	15	5-15	-	-	-	-
BBMW-27I	40	30-40	-	-	-	-
BBMW-34S	15	5-15	X	X	X	X
BBMW-34I	30	25-30	X	X	X	X
BBMW-34I2	45	40-45	-*	-*	-*	-*
BBMW-34D	70	65-70	-	-	-	-
BBMW-35S	17	5-15	-	-	-	-
BBMW-35I	32	25-30	-	-	-	-
BBMW-35I2	52	45-50	-	-	-	-
BBMW-35D	70	63-68	-	-	-	-
BBMW-36S	15	5-15	-	-	-	-
BBMW-36I	30	25-30	-	-	-	-
BBMW-37S	17	5-15	X	X	X	X
BBMW-37I	TBD	20-30	-	-	-	X
BBMW-37I2	TBD	35-45	-	-	-	-
BBMW-37D	TBD	55-65	-	-	-	-
BBMW-38S	15	5-15	X	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	X
BBMW-39I	30	25-30	-	-	-	X
BBMW-39I2	50	45-50	-	-	-	-
BBMW-39D	70	65-70	-	-	-	-
BBMW-40S	15	5-15	X	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	X
BBMW-41I	30	25-30	X	X	X	X
BBMW-41I2	50	45-50	-	-	-	-
BBMW-41D	70	65-70	-	-	-	-
BBMW-42S	12	5-10	X	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	-	-	X
MW-03D	45	35-45	-	-	-	-
MW-05S	14	4-14	X	X	X	X
MW-05D	45.5	35.5-45.5	X	X	X	X
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	-	-	-	-

Appendix A. Groundwater Monitoring Program Tracking Summary
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2019	Q4 2019	Q1 2020	Q3 2020
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	X
OU2MW-50I	32	25-30	X	X	X	X
OU2MW-50I2	52	45-50	X	X	X	X
OU2MW-50D	72	65-70	X	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	X
OU2MW-57I	32	20-30	X	X	X	X
OU2MW-57I2	47	35-45	X	X	X	X
OZMW-16S	15	5-15	X	X	X	X
OZMW-16I	25	20-25	X	X	X	X
OZMW-16I2	40	35-40	X	X	X	X
OZMW-16D	60	55-60	X	X	X	X
OZMW-17S	15	5-15	X	X	X	X
OZMW-17I	25	20-25	X	X	X	X
OZMW-17I2	40	35-40	X	X	X	X
OZMW-17D	63	53-63	X	X	X	X
OZMW-18S	15	5-15	X	X	X	X
OZMW-18I	25	20-25	X	X	X	X
OZMW-18I2	40	35-40	X	X	X	X
OZMW-18D	60	55-60	X	X	X	X
OZMW-19S	15	5-15	X	X	X	X
OZMW-19I	25	20-25	X	X	X	X
OZMW-19I2	40	35-40	X	X	X	X
OZMW-19D	60	55-60	X	X	X	X
OZMW-21S	15	5-15	-*	-*	-*	-*
OZMW-21I	25	20-25	-*	-*	-*	-*
OZMW-21I2	40	35-40	X	X	X	X
OZMW-21D	60	55-60	-*	-*	-*	-*
OZMW-22SR	17	5-15	X	X	X	X
OZMW-22IR	22	20-30	-	-	-	-
OZMW-23S	15	5-15	X	X	X	X
OZMW-23I	25	20-25	X	X	X	X
OZMW-23I2	40	35-40	X	X	X	X
OZMW-23D	65	55-65	X	X	X	X
OZMW-24S	15	5-15	X	X	X	X
OZMW-24I	25	20-25	X	X	X	X
OZMW-24I2	40	35-40	X	X	X	X
OZMW-24D	65	55-65	X	X	X	X
OZMW-25S	15	5-15	X	X	X	X
OZMW-25I	25	20-25	X	X	X	X
OZMW-25I2	40	35-40	X	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	X
OZMW-26D	65	55-65	-	-	-	-
OU1PZ-101	14	4-14	X	X	X	X
OU1PZ-102	14	4-14	X	X	X	X
OU1PZ-103	14	4-14	X	X	X	X
OU1PZ-104	14	4-14	X	X	-	X
OU1PZ-105	14	4-14	X	X	X	X
			58	57	56	60

Appendix A. Groundwater Monitoring Program Tracking Summary
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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2019	Q4 2019	Q1 2020	Q3 2020
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	-	-	-	-
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	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	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	unknown	unknown	-	-	-	-
GM-06I	unknown	unknown	-	-	-	-
GM-06D	unknown	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	-	-	-	-
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	unknown	-	-	-	-
GM-10I	unknown	unknown	-	-	-	-
GM-10D	unknown	unknown	-	-	-	-
GM-10AD	unknown	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	X	X	-	-

Appendix A. Groundwater Monitoring Program Tracking Summary
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National Grid Bay Shore/Brightwaters Former MGP Site

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2019	Q4 2019	Q1 2020	Q3 2020
OU2MW-01D	70	65-70	-	-	-	-
OU2MW-02S	25	20-25	X	X	X	X
OU2MW-02I	40	35-40	X	X	X	X
OU2MW-02I2	55	50-55	X	X	X	X
OU2MW-02D	70	65-70	X	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	X	X	X
OU2MW-06S	8	3-8	X	X	X	X
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	X	X	X
OU2MW-11I	25	20-25	X	X	X	X
OU2MW-11I2	35	30-35	X	X	X	X
OU2MW-11D	45	40-45	X	X	X	X
OU2MW-12S	7	3-7	X	X	X	X
OU2MW-12I	25	20-25	X	X	X	X
OU2MW-12I2	35	30-35	X	X	X	X
OU2MW-12D	45	40-45	X	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	-	-	-	-
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	X
OU2MW-19I2	45	35-45	X	X	X	X
OU2MW-19D	70	65-70	X	X	X	X

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2019	Q4 2019	Q1 2020	Q3 2020
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	-	-	-	-
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	X
OU2MW-30I	30	25-30	X	X	X	X
OU2MW-30I2	35	30-35	X	X	X	X
OU2MW-30I3	50	45-50	X	X	X	X
OU2MW-30D	55	50-55	X	X	X	X
OU2MW-30D2	65	60-65	X	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	-	-	-	X
OU2MW-34I2R	50	45-50	-	-	-	X
OU2MW-35S	15	5-15	-	-	-	-
OU2MW-35I	30	25-30	-	-	-	-
OU2MW-35I2	50	45-50	-	-	-	-
OU2MW-35D	62	57-62	-	-	-	-

Appendix A. Groundwater Monitoring Program Tracking Summary
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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2019	Q4 2019	Q1 2020	Q3 2020
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	-	-	-	-
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	X
OU2MW-39I	30	25-30	X	X	X	X
OU2MW-39I2	50	45-50	X	X	X	X
OU2MW-39D	75	70-75	X	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	X
OU2MW-43S	15	5-15	-	-	-	-
OU2MW-43I	30	25-30	-	-	-	-
OU2MW-43I2	50	45-50	-	-	-	-
OU2MW-43D	70	65-70	X	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	X
OU2MW-47I	25	20-25	X	X	X	X
OU2MW-47I2	45	40-45	X	X	X	X
OU2MW-47D	65	60-65	X	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	-	-	-	-

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2019	Q4 2019	Q1 2020	Q3 2020
OU2MW-56D	70	65-70	-	-	-	-
OU2MW-58S	17	5-15	-	-	-	-
OU2MW-58I	32	25-30	-	-	-	-
			37	36	36	38
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	-	-	-	-
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	unknown	-	-	-	-
GM-02AI	unknown	unknown	-	-	-	-
GM-02AD	unknown	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	unknown	unknown	-	-	-	-
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	X
MW-65	16	11-16	X	X	X	X
MW-66S	11.5	1.5-11.5	-	-	-	-
MW-66D	29	24-29	-	-	-	-
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	-	-	-	-

Appendix A. Groundwater Monitoring Program Tracking Summary
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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2019	Q4 2019	Q1 2020	Q3 2020
MW-75	12	2-12	-	-	-	-
MW-75I	27	22-27	-	-	-	-
MW-76	12	2-12	-	-	-	-
MW-78	20	5-20	-	-	-	X
MW-79	20	5-20	-	-	-	X
MW-80	20	5-20	-	-	-	-
MW-81	20	5-20	-	-	-	-
MW-82	20	5-20	-	-	-	-
MW-83	20	5-20	X	X	X	X
MW-BS-01S	unknown	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	X
OU3MW-07I	20	15-20	X	X	X	X
OU3MW-07I2	25	20-25	X	X	X	X
OU3MW-07I3	30	25-30	X	X	X	X
OU3MW-07I4	40	30-35	X	X	X	X
OU3MW-08S	12	2-12	X	X	X	X
OU3MW-08I	30	25-30	-	-	-	-
OU3MW-09S	12	2-12	-	-	-	-
OU3MW-09I	30	25-30	X	X	X	X
OU3MW-09I2	40	35-40	-	-	-	-
OU3MW-10S	12	2-12	-	-	-	-
OU3MW-10I	30	25-30	X	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	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	X
OU3MW-19I	25	20-25	X	X	X	X
OU3MW-19I2	35	30-35	X	X	X	X
OU3MW-20S	12	2-12	X	X	X	X
OU3MW-20I	25	20-25	X	X	X	X
OU3MW-20I2	35	30-35	X	X	X	X
OU3MW-21S	12	2-12	-	-	-	-
OU3MW-21I	20	15-20	-	-	-	-
OU3MW-21I2	30	25-30	-	-	-	-

Appendix A. Groundwater Monitoring Program Tracking Summary
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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2019	Q4 2019	Q1 2020	Q3 2020
OU3MW-22I/IP-15A	15	10-15	-	-	-	-
OU3MW-22I2/IP-15B	30	25-30	-	-	-	-
OU3MW-23I/IP-17B	15	10-15	X	X	X	X
OU3MW-23I2/IP-17A	30	25-30	-	-	-	X
OU3MW-24I/IP-19A	15	10-15	-	-	-	X
OU3MW-24I2/IP-19B	30	25-30	X	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
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	-	-	-	-
			20	22	22	28
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	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	X
WCMW-05I2	34.96	29.46-34.96	-	-	-	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	X
WCMW-11I	35	25-35	X	X	X	X
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	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	-	-	-	-

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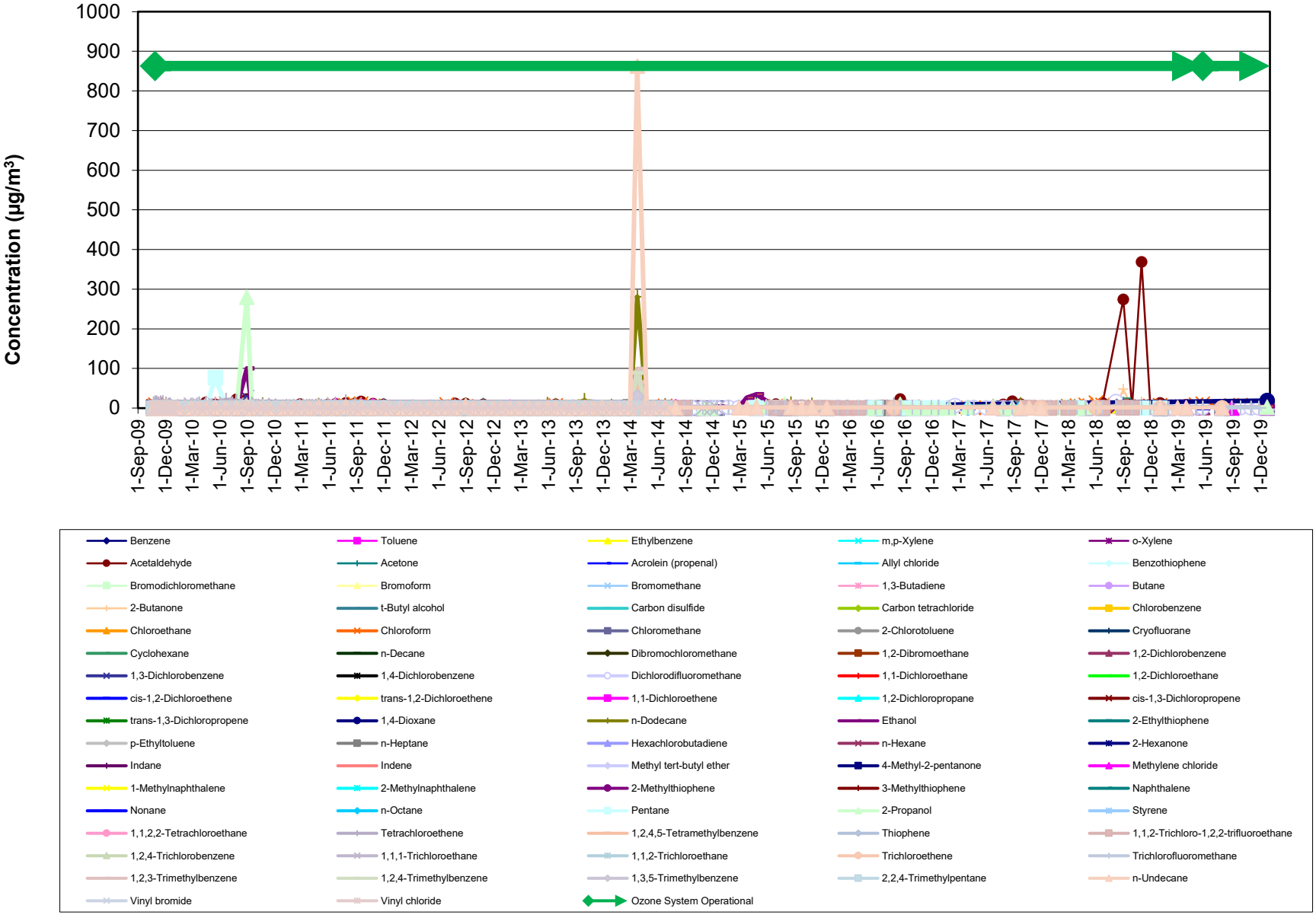
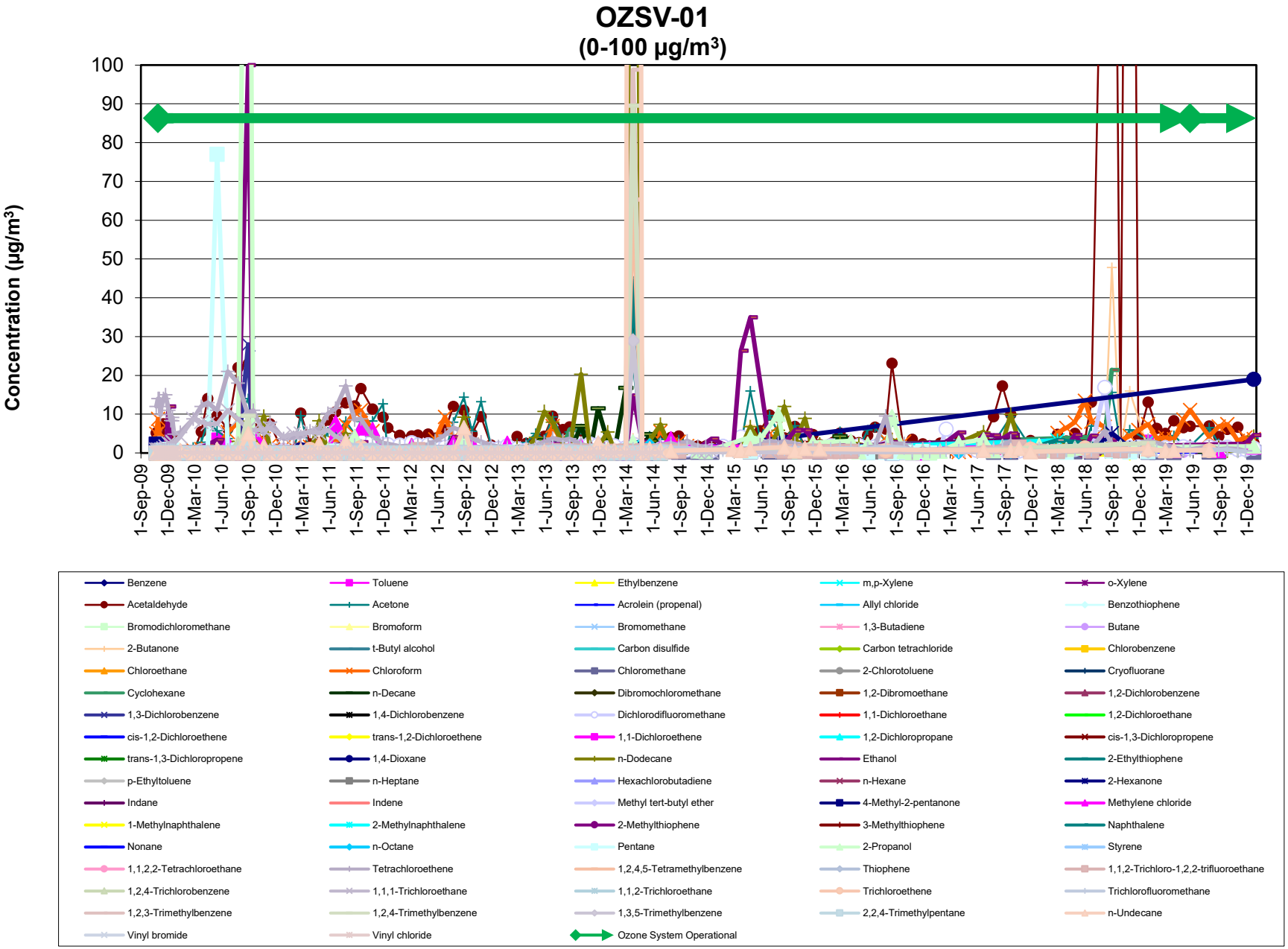
Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2019	Q4 2019	Q1 2020	Q3 2020
WCMW-25I	35	30-35	-	-	-	-
WCMW-25D	60	55-60	-	-	-	-
WCMW-26S	12	2-12	X	X	X	X
WCMW-26I	25	20-25	X	X	X	X
WCMW-26I2	35	30-35	-	-	-	-
WCMW-29S	25	2-12	X	X	X	X
WCMW-29I	25	20-25	X	X	X	X
WCMW-30S	12	2-12	-	-	-	-
WCMW-30I	25	20-25	X	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	X	X
			11	11	11	13

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

OZSV-01


Concentration (µg/m³)
1000
900
800
700
600
500
400
300
200
100
0
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
1-Jun-12
1-Sep-12
1-Dec-12
1-Mar-13
1-Jun-13
1-Sep-13
1-Dec-13
1-Mar-14
1-Jun-14
1-Sep-14
1-Dec-14
1-Mar-15
1-Jun-15
1-Sep-15
1-Dec-15
1-Mar-16
1-Jun-16
1-Sep-16
1-Dec-16
1-Mar-17
1-Jun-17
1-Sep-17
1-Dec-17
1-Mar-18
1-Jun-18
1-Sep-18
1-Dec-18
1-Mar-19
1-Jun-19
1-Sep-19
1-Dec-19
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Acetaldehyde
Acetone
Acrolein (propenal)
Allyl chloride
Benzothiophene
Bromodichloromethane
Bromoform
Bromomethane
1,3-Butadiene
Butane
2-Butanone
t-Butyl alcohol
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
2-Chlorotoluene
Cryofluorane
Cyclohexane
n-Decane
Dibromochloromethane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
1,1-Dichloroethene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
1,4-Dioxane
n-Dodecane
Ethanol
2-Ethylthiophene
p-Ethyltoluene
n-Heptane
Hexachlorobutadiene
n-Hexane
2-Hexanone
Indane
Indene
Methyl tert-butyl ether
4-Methyl-2-pentanone
Methylene chloride
1-Methylnaphthalene
2-Methylnaphthalene
2-Methylthiophene
3-Methylthiophene
Naphthalene
Nonane
n-Octane
Pentane
2-Propanol
Styrene
1,1,2,2-Tetrachloroethane
Tetrachloroethene
1,2,4,5-Tetramethylbenzene
Thiophene
1,1,2-Trichloro-1,2,2-trifluoroethane
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichlorofluoromethane
1,2,3-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
2,2,4-Trimethylpentane
n-Undecane
Vinyl bromide
Vinyl chloride
Ozone System Operational


OZSV-01
(0-100 µg/m³)
Concentration (µg/m³)
100
90
80
70
60
50
40
30
20
10
0
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
1-Jun-12
1-Sep-12
1-Dec-12
1-Mar-13
1-Jun-13
1-Sep-13
1-Dec-13
1-Mar-14
1-Jun-14
1-Sep-14
1-Dec-14
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1-Jun-15
1-Sep-15
1-Dec-15
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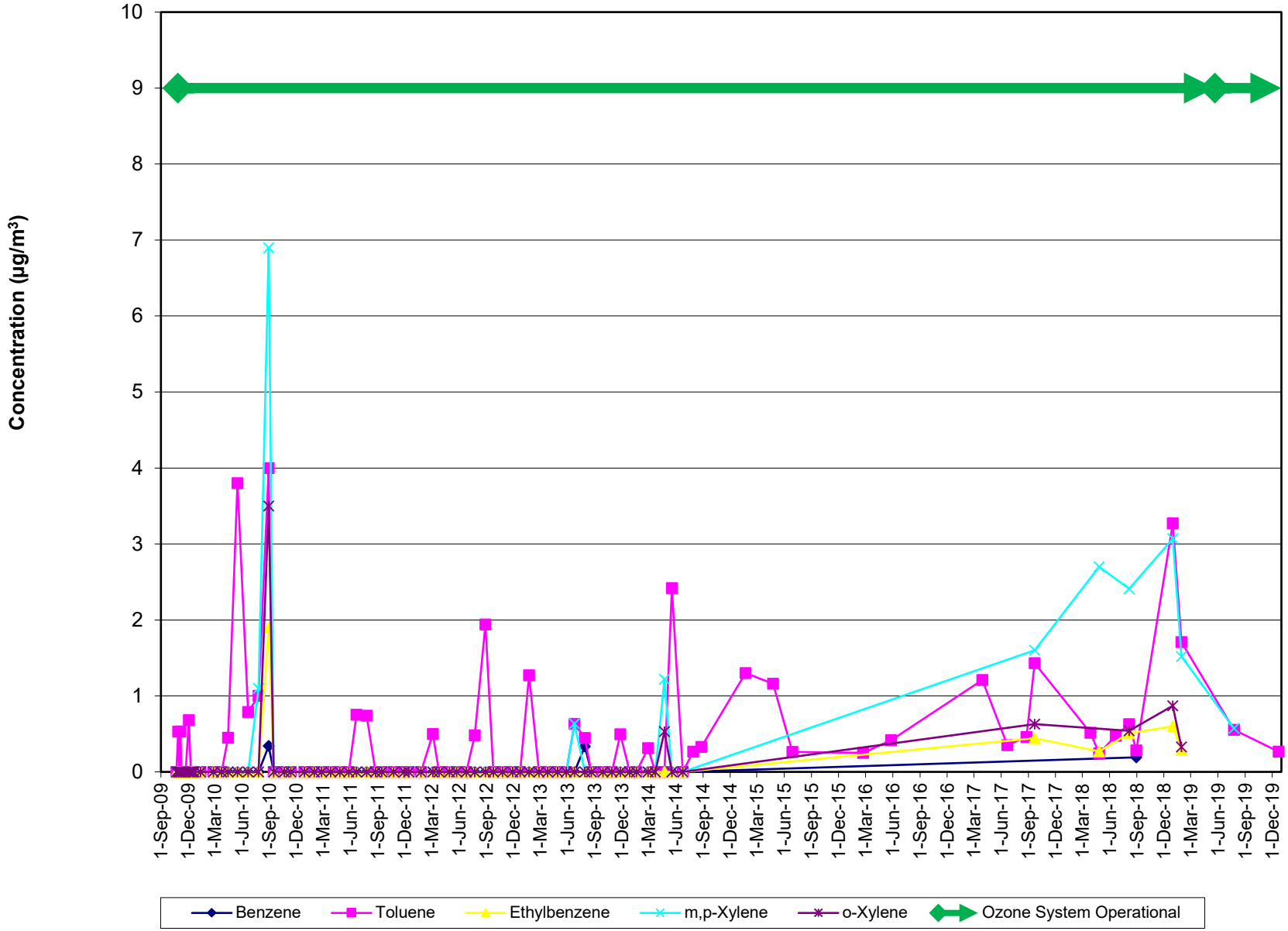
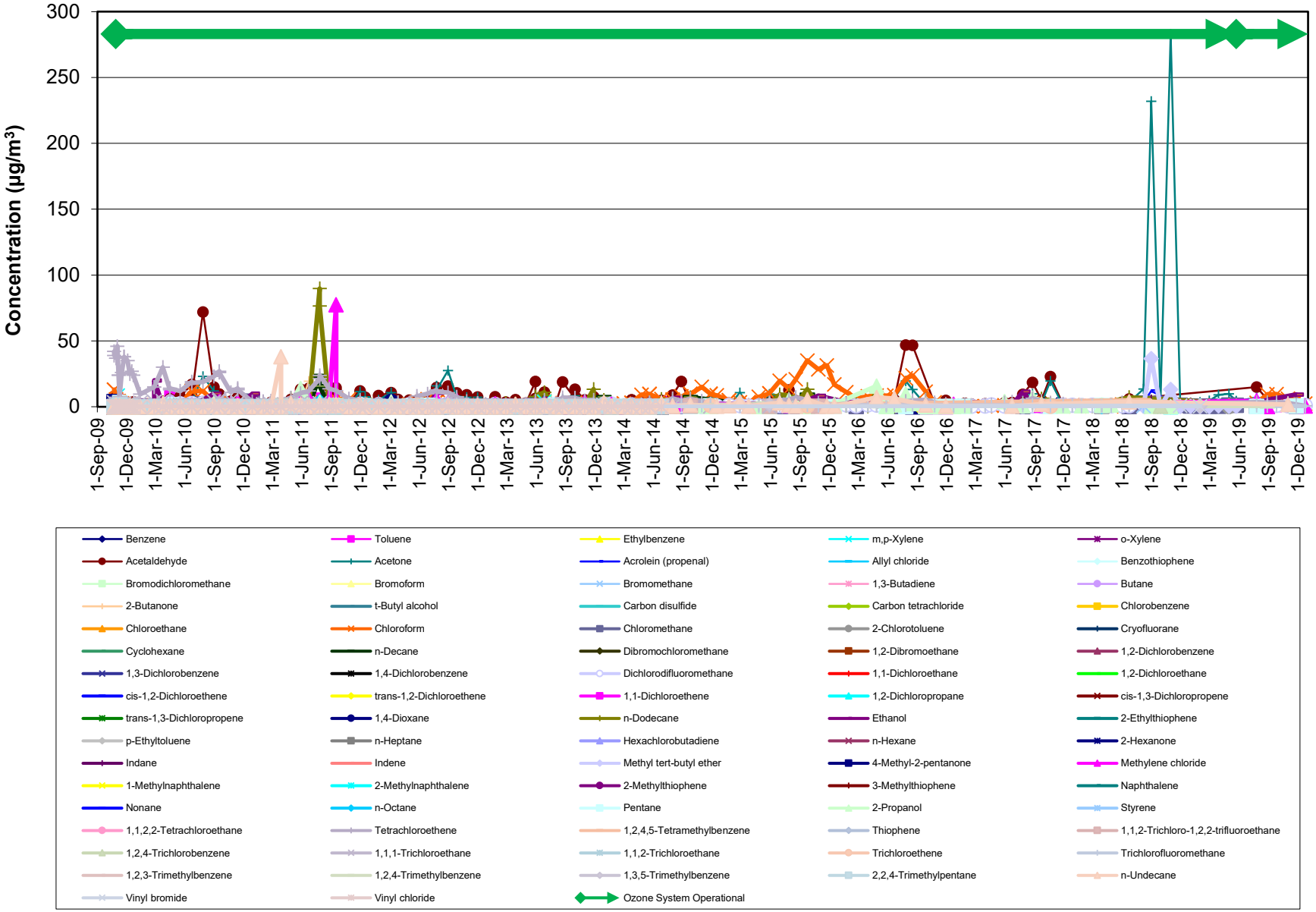
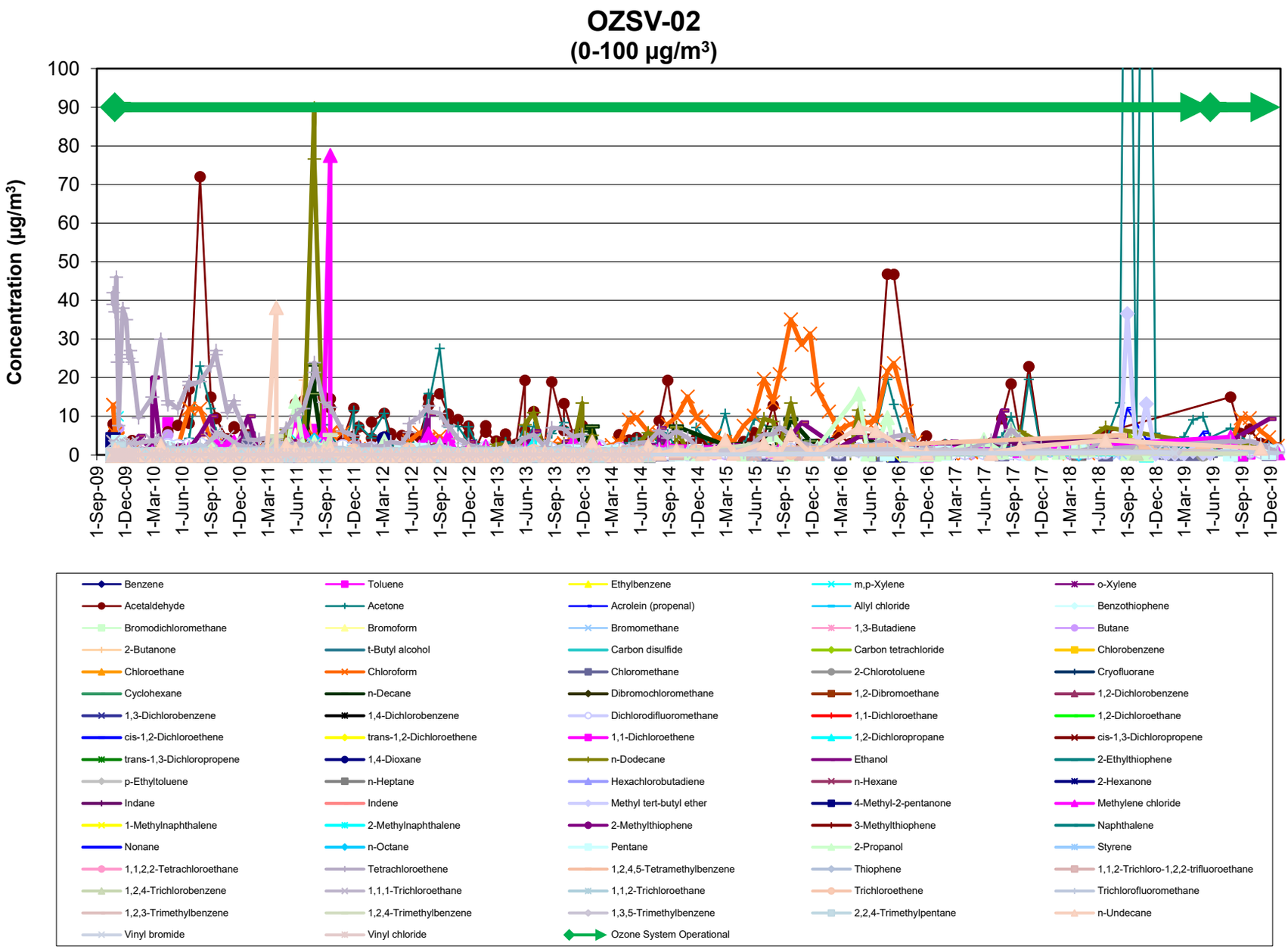
1-Jun-17
1-Sep-17
1-Dec-17
1-Mar-18
1-Jun-18
1-Sep-18
1-Dec-18
1-Mar-19
1-Jun-19
1-Sep-19
1-Dec-19
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Acetaldehyde
Acetone
Acrolein (propenal)
Allyl chloride
Benzothiophene
Bromodichloromethane
Bromoform
Bromomethane
1,3-Butadiene
Butane
2-Butanone
t-Butyl alcohol
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
2-Chlorotoluene
Cryofluorane
Cyclohexane
n-Decane
Dibromochloromethane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
1,1-Dichloroethene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
1,4-Dioxane
n-Dodecane
Ethanol
2-Ethylthiophene
p-Ethyltoluene
n-Heptane
Hexachlorobutadiene
n-Hexane
2-Hexanone
Indane
Indene
Methyl tert-butyl ether
4-Methyl-2-pentanone
Methylene chloride
1-Methylnaphthalene
2-Methylnaphthalene
2-Methylthiophene
3-Methylthiophene
Naphthalene
Nonane
n-Octane
Pentane
2-Propanol
Styrene
1,1,2,2-Tetrachloroethane
Tetrachloroethene
1,2,4,5-Tetramethylbenzene
Thiophene
1,1,2-Trichloro-1,2,2-trifluoroethane
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichlorofluoromethane
1,2,3-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
2,2,4-Trimethylpentane
n-Undecane
Vinyl bromide
Vinyl chloride
Ozone System Operational

OZSV-01 BTEX

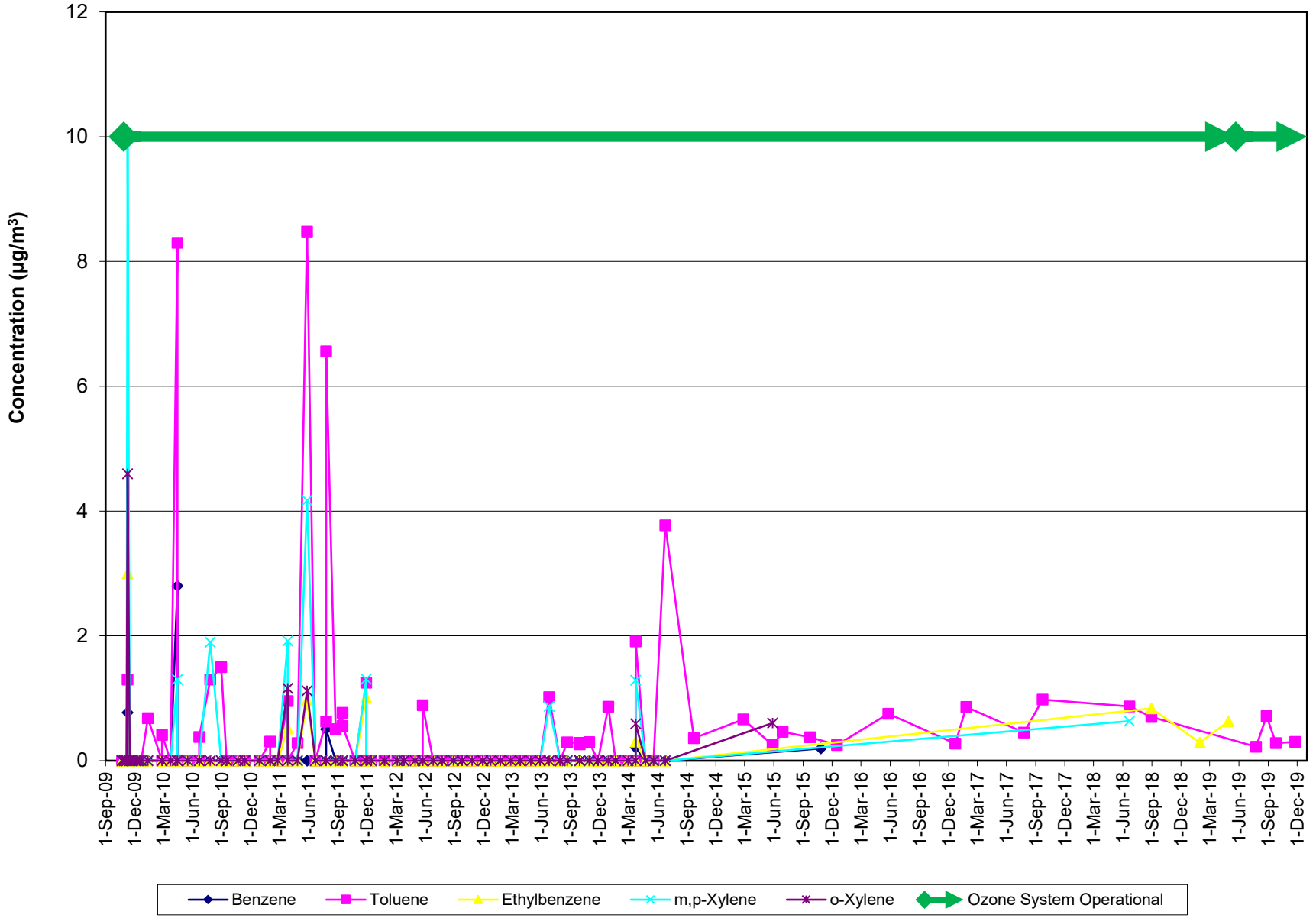

Concentration (µg/m³)
10
9
8
7
6
5
4
3
2
1
0
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
1-Jun-12
1-Sep-12
1-Dec-12
1-Mar-13
1-Jun-13
1-Sep-13
1-Dec-13
1-Mar-14
1-Jun-14
1-Sep-14
1-Dec-14
1-Mar-15
1-Jun-15
1-Sep-15
1-Dec-15
1-Mar-16
1-Jun-16
1-Sep-16
1-Dec-16
1-Mar-17
1-Jun-17
1-Sep-17
1-Dec-17
1-Mar-18
1-Jun-18
1-Sep-18
1-Dec-18
1-Mar-19
1-Jun-19
1-Sep-19
1-Dec-19
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Ozone System Operational

OZSV-02

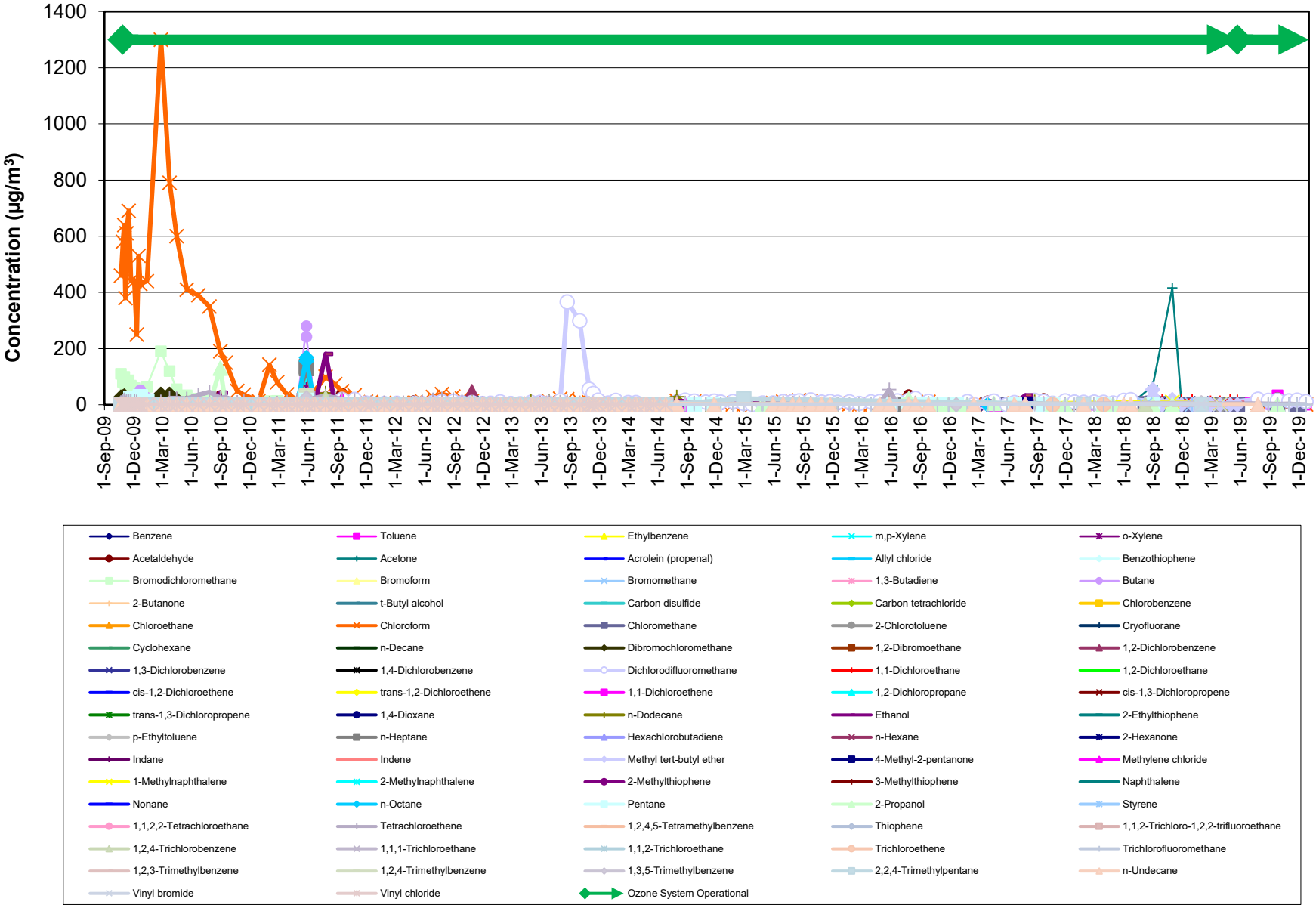

Concentration (µg/m³)
300
250
200
150
100
50
0
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
1-Jun-12
1-Sep-12
1-Dec-12
1-Mar-13
1-Jun-13
1-Sep-13
1-Dec-13
1-Mar-14
1-Jun-14
1-Sep-14
1-Dec-14
1-Mar-15
1-Jun-15
1-Sep-15
1-Dec-15
1-Mar-16
1-Jun-16
1-Sep-16
1-Dec-16
1-Mar-17
1-Jun-17
1-Sep-17
1-Dec-17
1-Mar-18
1-Jun-18
1-Sep-18
1-Dec-18
1-Mar-19
1-Jun-19
1-Sep-19
1-Dec-19
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Acetaldehyde
Acetone
Acrolein (propenal)
Allyl chloride
Benzothiophene
Bromodichloromethane
Bromoform
Bromomethane
1,3-Butadiene
Butane
2-Butanone
t-Butyl alcohol
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
2-Chlorotoluene
Cryofluorane
Cyclohexane
n-Decane
Dibromochloromethane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
1,1-Dichloroethene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
1,4-Dioxane
n-Dodecane
Ethanol
2-Ethylthiophene
p-Ethyltoluene
n-Heptane
Hexachlorobutadiene
n-Hexane
2-Hexanone
Indane
Indene
Methyl tert-butyl ether
4-Methyl-2-pentanone
Methylene chloride
1-Methylnaphthalene
2-Methylnaphthalene
2-Methylthiophene
3-Methylthiophene
Naphthalene
Nonane
n-Octane
Pentane
2-Propanol
Styrene
1,1,2,2-Tetrachloroethane
Tetrachloroethene
1,2,4,5-Tetramethylbenzene
Thiophene
1,1,2-Trichloro-1,2,2-trifluoroethane
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichlorofluoromethane
1,2,3-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
2,2,4-Trimethylpentane
n-Undecane
Vinyl bromide
Vinyl chloride
Ozone System Operational

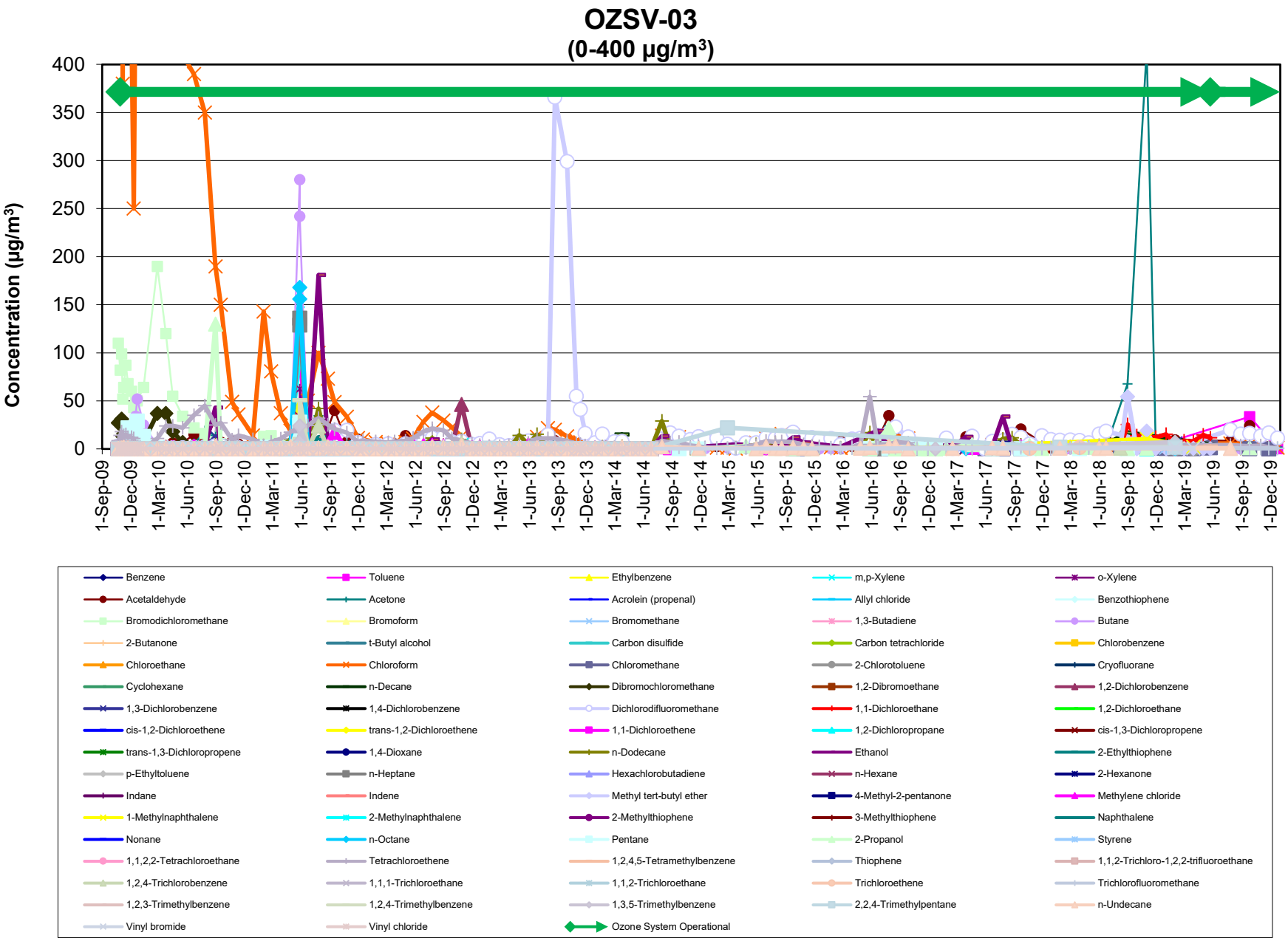

OZSV-02
(0-100 µg/m³)
Concentration (µg/m³)
100
90
80
70
60
50
40
30
20
10
0
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
1-Jun-12
1-Sep-12
1-Dec-12
1-Mar-13
1-Jun-13
1-Sep-13
1-Dec-13
1-Mar-14
1-Jun-14
1-Sep-14
1-Dec-14
1-Mar-15
1-Jun-15
1-Sep-15
1-Dec-15
1-Mar-16
1-Jun-16
1-Sep-16
1-Dec-16
1-Mar-17
1-Jun-17
1-Sep-17
1-Dec-17
1-Mar-18
1-Jun-18
1-Sep-18
1-Dec-18
1-Mar-19
1-Jun-19
1-Sep-19
1-Dec-19
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Acetaldehyde
Acetone
Acrolein (propenal)
Allyl chloride
Benzothiophene
Bromodichloromethane
Bromoform
Bromomethane
1,3-Butadiene
Butane
2-Butanone
t-Butyl alcohol
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
2-Chlorotoluene
Cryofluorane
Cyclohexane
n-Decane
Dibromochloromethane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
1,1-Dichloroethene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
1,4-Dioxane
n-Dodecane
Ethanol
2-Ethylthiophene
p-Ethyltoluene
n-Heptane
Hexachlorobutadiene
n-Hexane
2-Hexanone
Indane
Indene
Methyl tert-butyl ether
4-Methyl-2-pentanone
Methylene chloride
1-Methylnaphthalene
2-Methylnaphthalene
2-Methylthiophene
3-Methylthiophene
Naphthalene
Nonane
n-Octane
Pentane
2-Propanol
Styrene
1,1,2,2-Tetrachloroethane
Tetrachloroethene
1,2,4,5-Tetramethylbenzene
Thiophene
1,1,2-Trichloro-1,2,2-trifluoroethane
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichlorofluoromethane
1,2,3-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
2,2,4-Trimethylpentane
n-Undecane
Vinyl bromide
Vinyl chloride
Ozone System Operational

OZSV-02 BTEX

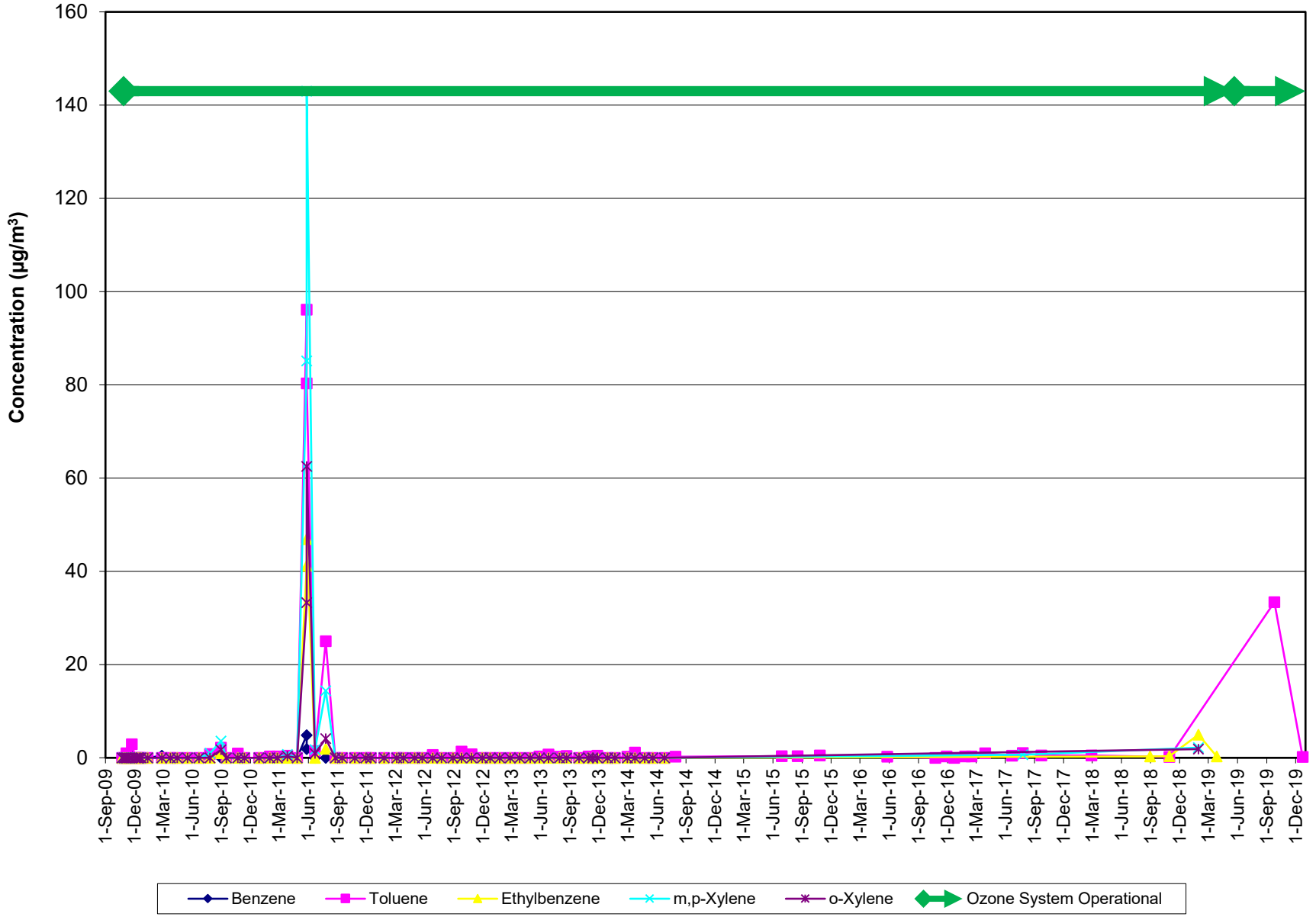

Concentration (µg/m³)
12
10
8
6
4
2
0
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
1-Jun-12
1-Sep-12
1-Dec-12
1-Mar-13
1-Jun-13
1-Sep-13
1-Dec-13
1-Mar-14
1-Jun-14
1-Sep-14
1-Dec-14
1-Mar-15
1-Jun-15
1-Sep-15
1-Dec-15
1-Mar-16
1-Jun-16
1-Sep-16
1-Dec-16
1-Mar-17
1-Jun-17
1-Sep-17
1-Dec-17
1-Mar-18
1-Jun-18
1-Sep-18
1-Dec-18
1-Mar-19
1-Jun-19
1-Sep-19
1-Dec-19
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Ozone System Operational

OZSV-03


Concentration (µg/m³)
1400
1200
1000
800
600
400
200
0
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
1-Jun-12
1-Sep-12
1-Dec-12
1-Mar-13
1-Jun-13
1-Sep-13
1-Dec-13
1-Mar-14
1-Jun-14
1-Sep-14
1-Dec-14
1-Mar-15
1-Jun-15
1-Sep-15
1-Dec-15
1-Mar-16
1-Jun-16
1-Sep-16
1-Dec-16
1-Mar-17
1-Jun-17
1-Sep-17
1-Dec-17
1-Mar-18
1-Jun-18
1-Sep-18
1-Dec-18
1-Mar-19
1-Jun-19
1-Sep-19
1-Dec-19
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Acetaldehyde
Acetone
Acrolein (propenal)
Allyl chloride
Benzothiophene
Bromodichloromethane
Bromoform
Bromomethane
1,3-Butadiene
Butane
2-Butanone
t-Butyl alcohol
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
2-Chlorotoluene
Cryofluorane
Cyclohexane
n-Decane
Dibromochloromethane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
1,1-Dichloroethene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
1,4-Dioxane
n-Dodecane
Ethanol
2-Ethylthiophene
p-Ethyltoluene
n-Heptane
Hexachlorobutadiene
n-Hexane
2-Hexanone
Indane
Indene
Methyl tert-butyl ether
4-Methyl-2-pentanone
Methylene chloride
1-Methylnaphthalene
2-Methylnaphthalene
2-Methylthiophene
3-Methylthiophene
Naphthalene
Nonane
n-Octane
Pentane
2-Propanol
Styrene
1,1,2,2-Tetrachloroethane
Tetrachloroethene
1,2,4,5-Tetramethylbenzene
Thiophene
1,1,2-Trichloro-1,2,2-trifluoroethane
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichlorofluoromethane
1,2,3-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
2,2,4-Trimethylpentane
n-Undecane
Vinyl bromide
Vinyl chloride
Ozone System Operational


OZSV-03
(0-400 µg/m³)
Concentration (µg/m³)
400
350
300
250
200
150
100
50
0
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
1-Jun-12
1-Sep-12
1-Dec-12
1-Mar-13
1-Jun-13
1-Sep-13
1-Dec-13
1-Mar-14
1-Jun-14
1-Sep-14
1-Dec-14
1-Mar-15
1-Jun-15
1-Sep-15
1-Dec-15
1-Mar-16
1-Jun-16
1-Sep-16
1-Dec-16
1-Mar-17
1-Jun-17
1-Sep-17
1-Dec-17
1-Mar-18
1-Jun-18
1-Sep-18
1-Dec-18
1-Mar-19
1-Jun-19
1-Sep-19
1-Dec-19
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Acetaldehyde
Acetone
Acrolein (propenal)
Allyl chloride
Benzothiophene
Bromodichloromethane
Bromoform
Bromomethane
1,3-Butadiene
Butane
2-Butanone
t-Butyl alcohol
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane
Chloroform
Chloromethane
2-Chlorotoluene
Cryofluorane
Cyclohexane
n-Decane
Dibromochloromethane
1,2-Dibromoethane
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
Dichlorodifluoromethane
1,1-Dichloroethane
1,2-Dichloroethane
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene
1,1-Dichloroethene
1,2-Dichloropropane
cis-1,3-Dichloropropene
trans-1,3-Dichloropropene
1,4-Dioxane
n-Dodecane
Ethanol
2-Ethylthiophene
p-Ethyltoluene
n-Heptane
Hexachlorobutadiene
n-Hexane
2-Hexanone
Indane
Indene
Methyl tert-butyl ether
4-Methyl-2-pentanone
Methylene chloride
1-Methylnaphthalene
2-Methylnaphthalene
2-Methylthiophene
3-Methylthiophene
Naphthalene
Nonane
n-Octane
Pentane
2-Propanol
Styrene
1,1,2,2-Tetrachloroethane
Tetrachloroethene
1,2,4,5-Tetramethylbenzene
Thiophene
1,1,2-Trichloro-1,2,2-trifluoroethane
1,2,4-Trichlorobenzene
1,1,1-Trichloroethane
1,1,2-Trichloroethane
Trichloroethene
Trichlorofluoromethane
1,2,3-Trimethylbenzene
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
2,2,4-Trimethylpentane
n-Undecane
Vinyl bromide
Vinyl chloride
Ozone System Operational

OZSV-03 BTEX


Concentration (µg/m³)
160
140
120
100
80
60
40
20
0
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
1-Jun-12
1-Sep-12
1-Dec-12
1-Mar-13
1-Jun-13
1-Sep-13
1-Dec-13
1-Mar-14
1-Jun-14
1-Sep-14
1-Dec-14
1-Mar-15
1-Jun-15
1-Sep-15
1-Dec-15
1-Mar-16
1-Jun-16
1-Sep-16
1-Dec-16
1-Mar-17
1-Jun-17
1-Sep-17
1-Dec-17
1-Mar-18
1-Jun-18
1-Sep-18
1-Dec-18
1-Mar-19
1-Jun-19
1-Sep-19
1-Dec-19
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Ozone System Operational

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

Weight of Oxygen Injected through Q2 2020 701,576 lbs

Oxygen to OU-1 Union Boulevard

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-20	31	4,774
Month 2	Aug-20	31	4,769
Month 3	Sep-20	30	4,494
Total Operational Days in Q3 2020			92
Total Oxygen in Q3 2020 (lbs)			14,036.77
Running Total for Oxygen to OU-1 Union Boulevard after Reconfiguration Through Q3 2020 (lbs)			**715,612.77**

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)

			7/20/2020						8/4/2020						9/16/2020					
		O_2%	81.6						82.4						83.4					
		R	10.73						10.73						10.73					
		Temp R (T)	638						645						629					
		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	27	27.339	17.771	2	16.7	0.035	30	30.377	19.745	2.0	16.7	0.039	28	28.352	18.429	2.0	16.7	0.038
	Point 52	25	28	33.055	21.486	8	22.7	0.058	30	35.416	23.020	8.0	22.7	0.062	29	34.235	22.253	8.0	22.7	0.062
	Point 53	15	28	29.188	18.972	3	17.7	0.040	31	31.856	20.706	2.5	17.2	0.042	29	29.801	19.370	2.5	17.2	0.041
	Point 54	25	30	35.024	22.765	7.5	22.2	0.060	30	35.024	22.765	7.5	22.2	0.060	30	35.024	22.765	7.5	22.2	0.062
	Point 55	15	28	29.188	18.972	3	17.7	0.040	33	34.883	22.674	3.5	18.2	0.049	30	31.273	20.328	3.0	17.7	0.044
	Point 56	25	33	38.958	25.322	8	22.7	0.069	32	38.191	24.824	8.5	23.2	0.069	28	33.055	21.486	8.0	22.7	0.060
	Point 57	15	29	30.655	19.926	3.5	18.2	0.043	29	30.655	19.926	3.5	18.2	0.043	23	23.976	15.584	3.0	17.7	0.034
	Point 58	25	30	35.416	23.020	8	22.7	0.062	33	39.384	25.600	8.5	23.2	0.071	26	30.694	19.951	8.0	22.7	0.056
Total Oxygen Injected Per Day (lb)			**13.051**						**13.941**						**12.763**					
		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
Injection Bank 2	Point 47	52	32	45.341	29.471	18.0	32.7	0.115	29	41.090	26.709	18.0	32.7	0.104	28	39.673	25.788	18.0	32.7	0.104
	Point 45	52	31	43.924	28.551	18.0	32.7	0.111	29	41.090	26.709	18.0	32.7	0.104	26	36.839	23.946	18.0	32.7	0.097
	Point 48	52	31	43.247	28.111	17.0	31.7	0.106	30	41.852	27.204	17.0	31.7	0.103	28	39.062	25.390	17.0	31.7	0.099
	Point 44	52	36	50.222	32.645	17.0	31.7	0.123	30	42.181	27.417	17.5	32.2	0.105	28	39.369	25.590	17.5	32.2	0.102
	Point 46	52	34	48.906	31.789	19.0	33.7	0.128	29	41.714	27.114	19.0	33.7	0.109	28	40.275	26.179	19.0	33.7	0.109
	Point 14A	62	32	48.684	31.645	23.0	37.7	0.142	32	48.684	31.645	23.0	37.7	0.142	26	39.817	25.881	23.5	38.2	0.122
	Point 12A	62	30	45.338	29.469	22.5	37.2	0.131	32	48.684	31.645	23.0	37.7	0.142	32	48.684	31.645	23.0	37.7	0.147
	Point 16A	62	31	47.784	31.060	24.0	38.7	0.143	29	44.701	29.056	24.0	38.7	0.134	26	40.077	26.050	24.0	38.7	0.125
Total Oxygen Injected Per Day (lb)			**31.986**						**30.160**						**28.973**					
		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 3	Point 1	41	31	41.150	26.747	14.0	28.7	0.092	30	39.474	25.658	13.5	28.2	0.086	30	39.822	25.885	14.0	28.7	0.092
	Point 4	26	34	37.392	24.305	5.0	19.7	0.057	26	28.954	18.820	5.5	20.2	0.045	30	33.409	21.716	5.5	20.2	0.054
	Point 5	41	34	44.339	28.820	13.0	27.7	0.095	27	35.210	22.887	13.0	27.7	0.075	28	36.514	23.734	13.0	27.7	0.081
	Point 8	26	30	34.226	22.247	6.5	21.2	0.056	28	31.565	20.517	6.0	20.7	0.051	28	31.944	20.764	6.5	21.2	0.054
	Point 9	41	31	40.427	26.277	13.0	27.7	0.087	29	37.818	24.582	13.0	27.7	0.081	26	33.906	22.039	13.0	27.7	0.075
	Point 12	26	34	38.329	24.914	6.0	20.7	0.061	30	33.820	21.983	6.0	20.7	0.054	29	32.692	21.250	6.0	20.7	0.054
	Point 13	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 16	25	35	41.319	26.857	8.0	22.7	0.073	30	35.024	22.765	7.5	22.2	0.060	30	35.416	23.020	8.0	22.7	0.065
Total Oxygen Injected Per Day (lb)			**16.667**						**14.492**						**15.232**					
		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	31	34.947	22.716	6.0	20.7	0.056	30	34.627	22.508	7.0	21.7	0.058	32	36.508	23.730	6.5	21.2	0.062
	Point 3	41	30	38.410	24.966	12.0	26.7	0.079	36	46.521	30.239	12.5	27.2	0.098	30	38.768	25.199	12.5	27.2	0.085
	Point 6	26	38	43.861	28.510	7.0	21.7	0.074	40	52.163	33.906	13.0	27.7	0.112	34	44.339	28.820	13.0	27.7	0.099
	Point 7	41	18	23.261	15.119	12.5	27.2	0.049	32	37.777	24.555	8.0	22.7	0.066	28	32.689	21.248	7.5	22.2	0.058
	Point 10	26	32	37.359	24.283	7.5	22.2	0.064	30	35.416	23.020	8.0	22.7	0.062	26	30.694	19.951	8.0	22.7	0.056
	Point 11	41	66	87.609	56.946	14.0	28.7	0.195	36	47.787	31.061	14.0	28.7	0.106	30	39.822	25.885	14.0	28.7	0.092
	Point 14	26	32	37.359	24.283	7.5	22.2	0.064	34	40.138	26.090	8.0	22.7	0.071	28	33.055	21.486	8.0	22.7	0.060
	Point 15	41	33	43.805	28.473	14.0	28.7	0.097	34	45.912	29.843	15.0	29.7	0.106	29	38.495	25.022	14.0	28.7	0.089
Total Oxygen Injected Per Day (lb)			**21.728**						**21.717**						**19.218**					
		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	32	48.684	31.645	23.0	37.7	0.142	36	55.131	35.835	23.5	38.2	0.163	32	48.684	31.645	23.0	37.7	0.147
	Point 18	41	29	36.428	23.678	11.0	25.7	0.073	32	40.970	26.631	12.0	26.7	0.085	26	33.288	21.638	12.0	26.7	0.071
	Point 19	26	34	38.789	25.213	6.5	21.2	0.064	34	39.244	25.509	7.0	21.7	0.066	34	39.244	25.509	7.0	21.7	0.068
	Point 22	22	20	22.547	14.655	6.0	20.7	0.036	32	36.508	23.730	6.5	21.2	0.060	32	36.074	23.448	6.0	20.7	0.060
	Point 24	37	28	35.849	23.302	12.0	26.7	0.074	30	38.768	25.199	12.5	27.2	0.082	29	37.129	24.134	12.0	26.7	0.080
	Point 25	22	33	36.750	23.887	5.5	20.2	0.058	28	31.565	20.517	6.0	20.7	0.051	28	31.182	20.268	5.5	20.2	0.051
	Point 59	15	22	23.573	15.322	4.0	18.7	0.034	28	30.400	19.760	4.5	19.2	0.045	33	35.359	22.983	4.0	18.7	0.053
	Point 49	62	40	60.042	39.028	22.0	36.7	0.171	36	54.038	35.125	22.0	36.7	0.153	35	52.537	34.149	22.0	36.7	0.155
Total Oxygen Injected Per Day (lb)			**20.837**						**22.536**						**21.932**					
		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	45.032	29.271	22.0	36.7	0.128	32	48.684	31.645	23.0	37.7	0.142	28	42.315	27.505	22.5	37.2	0.126
	Point 26	57	30	43.788	28.462	20.0	34.7	0.118	32	47.042	30.577	20.5	35.2	0.128	29	42.328	27.513	20.0	34.7	0.118
	Point 27	37	31	38.940	25.311	11.0	25.7	0.078	32	40.585	26.380	11.5	26.2	0.082	29	37.129	24.134	12.0	26.7	0.080
	Point 28	22	31	34.523	22.440	5.5	20.2	0.054	32	36.074	23.448	6.0	20.7	0.058	28	31.565	20.517	6.0	20.7	0.052
	Point 30	22	30	33.409	21.716	5.5	20.2	0.052	28	31.565	20.517	6.0	20.7	0.051	32	36.074	23.448	6.0	20.7	0.060
	Point 32	22	27	29.694	19.301	5.0	19.7	0.045	32	36.074	23.448	6.0	20.7	0.058	26	28.594	18.586	5.0	19.7	0.045
	Point 60	15	30	31.273	20.328	3.0	17.7	0.043	28	29.598	19.239	3.5	18.2	0.042	28	29.188	18.972	3.0	17.7	0.041
	Point 50	62	36	54.405	35.363	22.5	37.2	0.157	34	51.727	33.622	23.0	37.7	0.151	42	63.898	41.533	23.0	37.7	0.193
Total Oxygen Injected Per Day (lb)			**21.589**						**22.759**						**22.935**					
		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	38	48.652	31.624	12.0	26.7	0.101	32	40.970	26.631	12.0	26.7	0.085	30	38.410	24.966	12.0	26.7	0.082
	Point 31	22	30	33.409	21.716	5.5	20.2	0.052	30	33.820	21.983	6.0	20.7	0.054	29	32.692	21.250	6.0	20.7	0.054
	Point 33	22	35	39.456	25.647	6.0	20.7	0.063	30	34.226	22.247	6.5	21.2	0.056	28	31.565	20.517	6.0	20.7	0.052
	Point 34	22	32	36.074	23.448	6.0	20.7	0.058	32	36.074	23.448	6.0	20.7	0.058	28	31.565	20.517	6.0	20.7	0.052
	Point 35	22	37	41.711	27.112	6.0	20.7	0.067	26	29.311	19.052	6.0	20.7	0.047	27	30.438	19.785	6.0	20.7	0.051
	Point 36	22	36	40.584	26.379	6.0	20.7	0.065	28	31.565	20.517	6.0	20.7	0.051	30	33.820	21.983	6.0	20.7	0.056
	Point 36A	62	34	51.727	33.622	23.0	37.7	0.151	32	49.006	31.854	23.5	38.2	0.145	29	44.120	28.678	23.0	37.7	0.134
	Point 36B	41	36	47.787	31.061	14.0	28.7	0.106	30	40.510	26.332	15.0	29.7	0.093	28	37.490	24.368	14.5	29.2	0.088
Total Oxygen Injected Per Day (lb)			**21.229**						**18.825**						**18.242**					
		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	28	41.742	27.133	21.5	36.2	0.117	32	48.034	31.222	22.0	36.7	0.136	30	44.724	29.071	21.5	36.2	0.130
	Point 29	34	36	45.220	29.393	11.0	25.7	0.090	40	50.245	32.659	11.0	25.7	0.100	29	36.428	23.678	11.0	25.7	0.075
	Point 37	22	28	31.944	20.764	6.5	21.2	0.052	36	41.553	27.009	7.0	21.7	0.070	30	34.627	22.508	7.0	21.7	0.060
	Point 37A	62	30	46.243	30.058	24.0	38.7	0.139	32	49.959	32.473	25.0	39.7	0.153	29	44.989	29.243	24.5	39.2	0.142
	Point 37B	41	29	38.495	25.022	14.0	28.7	0.086	34	45.523	29.590	14.5	29.2	0.103	28	37.168	24.159	14.0	28.7	0.086
	Point 38	22	26	29.311	19.052	6.0	20.7	0.047	32	36.508	23.730	6.5	21.2	0.060	28	31.565	20.517	6.0	20.7	0.052
	Point 61	17	30	33.409	21.716	5.5	20.2	0.052	30	33.820	21.983	6.0	20.7	0.054	26	28.954	18.820	5.5	20.2	0.047
	Point 63	13	26	27.859	18.108	4.0	18.7	0.040	34	36.430	23.680	4.0	18.7	0.053	84	90.005	58.503	4.0	18.7	0.135
Total Oxygen Injected Per Day (lb)			**19.952**						**23.338**						**23.282**					
System Total Per Day (lb)			**153.99**						**153.83**						**149.82**					

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

Weight of Oxygen Injected through Q1 2020 691,643 lbs

Oxygen to OU-1 Union Boulevard

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-20	30	4,163
Month 2	May-20	20	3,524
Month 3	Jun-20	15	2,246
Total Operational Days in Q2 2020			65
Total Oxygen in Q2 2020 (lbs)			9,932.88
Running Total for Oxygen to OU-1 Union Boulevard after Reconfiguration Through Q2 2020 (lbs)			**701,575.88**

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)

			4/21/2020						5/13/2020						6/16/2020					
	O_2%		80.5						89.6						80.4					
	R		10.73						10.73						10.73					
	Temp R (T)		636						638						641					
		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	22	22.276	14.480	2	16.7	0.029	32	32.402	21.061	2.0	16.7	0.046	26	26.327	17.112	2.0	16.7	0.033
	Point 52	25	26	30.694	19.951	8	22.7	0.053	32	37.359	24.283	7.5	22.2	0.071	26	30.694	19.951	8.0	22.7	0.053
	Point 53	15	28	29.188	18.972	3	17.7	0.040	36	37.528	24.393	3.0	17.7	0.057	24	25.019	16.262	3.0	17.7	0.034
	Point 54	25	24	28.333	18.416	8	22.7	0.049	32	37.777	24.555	8.0	22.7	0.073	32	37.777	24.555	8.0	22.7	0.065
	Point 55	15	26	27.484	17.864	3.5	18.2	0.038	36	38.573	25.073	4.0	18.7	0.061	22	23.255	15.116	3.5	18.2	0.032
	Point 56	25	30	36.188	23.522	9	23.7	0.066	30	35.804	23.273	8.5	23.2	0.071	32	38.191	24.824	8.5	23.2	0.067
	Point 57	15	24	25.716	16.715	4	18.7	0.037	28	30.002	19.501	4.0	18.7	0.048	28	29.598	19.239	3.5	18.2	0.041
	Point 58	25	28	33.775	21.954	9	23.7	0.061	30	36.188	23.522	9.0	23.7	0.073	28	33.417	21.721	8.5	23.2	0.059
Total Oxygen Injected Per Day (lb)			**11.943**						**15.961**						**12.303**					
		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	28	39.975	25.984	18.5	33.2	0.102	32	46.029	29.919	19.0	33.7	0.132	30	42.507	27.630	18.0	32.7	0.106
	Point 45	52	30	42.831	27.840	18.5	33.2	0.109	32	45.686	29.696	18.5	33.2	0.129	32	45.686	29.696	18.5	33.2	0.115
	Point 48	52	28	39.062	25.390	17.0	31.7	0.095	30	41.852	27.204	17.0	31.7	0.113	30	41.852	27.204	17.0	31.7	0.101
	Point 44	52	32	45.341	29.471	18.0	32.7	0.114	28	39.673	25.788	18.0	32.7	0.110	28	39.369	25.590	17.5	32.2	0.096
	Point 46	52	30	43.788	28.462	20.0	34.7	0.117	32	46.369	30.140	19.5	34.2	0.135	32	46.029	29.919	19.0	33.7	0.118
	Point 14A	62	30	46.243	30.058	24.0	38.7	0.137	32	49.325	32.061	24.0	38.7	0.162	34	52.069	33.845	23.5	38.2	0.151
	Point 12A	62	32	48.684	31.645	23.0	37.7	0.141	34	51.727	33.622	23.0	37.7	0.166	32	48.684	31.645	23.0	37.7	0.139
	Point 16A	62	28	43.714	28.414	25.0	39.7	0.133	36	55.491	36.069	24.0	38.7	0.183	26	40.077	26.050	24.0	38.7	0.118
Total Oxygen Injected Per Day (lb)			**30.302**						**36.165**						**30.217**					
		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	28	37.168	24.159	14.0	28.7	0.082	34	45.132	29.336	14.0	28.7	0.110	26	34.513	22.433	14.0	28.7	0.075
	Point 4	26	28	31.565	20.517	6.0	20.7	0.050	38	42.838	27.845	6.0	20.7	0.075	34	38.329	24.914	6.0	20.7	0.060
	Point 5	41	28	36.514	23.734	13.0	27.7	0.078	34	44.339	28.820	13.0	27.7	0.104	30	39.122	25.430	13.0	27.7	0.082
	Point 8	26	26	30.010	19.507	7.0	21.7	0.050	32	36.936	24.008	7.0	21.7	0.068	28	32.319	21.007	7.0	21.7	0.053
	Point 9	41	28	36.842	23.948	13.5	28.2	0.080	34	44.339	28.820	13.0	27.7	0.104	28	36.514	23.734	13.0	27.7	0.077
	Point 12	26	26	30.010	19.507	7.0	21.7	0.050	40	46.169	30.010	7.0	21.7	0.085	30	34.226	22.247	6.5	21.2	0.055
	Point 13	41	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000
	Point 16	25	28	33.055	21.486	8.0	22.7	0.058	34	40.138	26.090	8.0	22.7	0.078	28	33.055	21.486	8.0	22.7	0.057
Total Oxygen Injected Per Day (lb)			**14.288**						**20.018**						**14.725**					
		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	32.319	21.007	7.0	21.7	0.054	30	34.627	22.508	7.0	21.7	0.064	34	38.789	25.213	6.5	21.2	0.062
	Point 3	41	28	36.514	23.734	13.0	27.7	0.078	36	46.521	30.239	12.5	27.2	0.108	32	40.970	26.631	12.0	26.7	0.083
	Point 6	26	14	18.257	11.867	13.0	27.7	0.039	40	52.163	33.906	13.0	27.7	0.123	30	39.122	25.430	13.0	27.7	0.082
	Point 7	41	26	30.354	19.730	7.5	22.2	0.052	32	37.777	24.555	8.0	22.7	0.073	32	37.777	24.555	8.0	22.7	0.065
	Point 10	26	26	30.694	19.951	8.0	22.7	0.053	30	35.416	23.020	8.0	22.7	0.068	34	40.138	26.090	8.0	22.7	0.069
	Point 11	41	28	37.168	24.159	14.0	28.7	0.082	36	47.787	31.061	14.0	28.7	0.117	34	45.132	29.336	14.0	28.7	0.098
	Point 14	26	28	33.055	21.486	8.0	22.7	0.058	34	40.138	26.090	8.0	22.7	0.078	30	35.416	23.020	8.0	22.7	0.061
	Point 15	41	26	35.695	23.202	16.0	30.7	0.084	34	45.912	29.843	15.0	29.7	0.116	34	45.523	29.590	14.5	29.2	0.101
Total Oxygen Injected Per Day (lb)			**15.953**						**23.874**						**19.931**					
		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	36	54.769	35.600	23.0	37.7	0.158	36	55.131	35.835	23.5	38.2	0.179	36	55.491	36.069	24.0	38.7	0.163
	Point 18	41	40	51.213	33.288	12.0	26.7	0.105	32	40.970	26.631	12.0	26.7	0.093	32	40.970	26.631	12.0	26.7	0.083
	Point 19	26	32	36.936	24.008	7.0	21.7	0.061	34	39.244	25.509	7.0	21.7	0.072	32	36.936	24.008	7.0	21.7	0.061
	Point 22	22	28	31.565	20.517	6.0	20.7	0.050	32	36.508	23.730	6.5	21.2	0.066	34	38.329	24.914	6.0	20.7	0.060
	Point 24	37	30	38.410	24.966	12.0	26.7	0.079	30	38.768	25.199	12.5	27.2	0.090	28	35.849	23.302	12.0	26.7	0.073
	Point 25	22	26	29.311	19.052	6.0	20.7	0.047	28	31.565	20.517	6.0	20.7	0.056	32	36.074	23.448	6.0	20.7	0.057
	Point 59	15	24	25.716	16.715	4.0	18.7	0.037	28	30.400	19.760	4.5	19.2	0.050	32	34.287	22.287	4.0	18.7	0.049
	Point 49	62	36	54.038	35.125	22.0	36.7	0.152	36	54.038	35.125	22.0	36.7	0.169	40	60.042	39.028	22.0	36.7	0.167
Total Oxygen Injected Per Day (lb)			**22.042**						**24.774**						**22.819**					
		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	32	48.684	31.645	23.0	37.7	0.141	32	48.684	31.645	23.0	37.7	0.156	34	51.383	33.399	22.5	37.2	0.145
	Point 26	57	30	44.414	28.869	21.0	35.7	0.122	32	47.042	30.577	20.5	35.2	0.141	36	52.545	34.154	20.0	34.7	0.139
	Point 27	37	28	35.512	23.083	11.5	26.2	0.071	32	40.585	26.380	11.5	26.2	0.090	32	40.585	26.380	11.5	26.2	0.081
	Point 28	22	28	31.565	20.517	6.0	20.7	0.050	32	36.074	23.448	6.0	20.7	0.064	30	33.820	21.983	6.0	20.7	0.053
	Point 30	22	26	29.311	19.052	6.0	20.7	0.047	28	31.565	20.517	6.0	20.7	0.056	28	31.565	20.517	6.0	20.7	0.050
	Point 32	22	28	31.182	20.268	5.5	20.2	0.048	32	36.074	23.448	6.0	20.7	0.064	36	40.091	26.059	5.5	20.2	0.062
	Point 60	15	26	27.484	17.864	3.5	18.2	0.038	28	29.598	19.239	3.5	18.2	0.046	32	33.826	21.987	3.5	18.2	0.047
	Point 50	62	36	54.769	35.600	23.0	37.7	0.158	34	51.727	33.622	23.0	37.7	0.166	36	54.769	35.600	23.0	37.7	0.157
Total Oxygen Injected Per Day (lb)			**21.607**						**25.019**						**23.443**					
		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	36	46.092	29.960	12.0	26.7	0.094	32	40.970	26.631	12.0	26.7	0.093	34	43.531	28.295	12.0	26.7	0.088
	Point 31	22	30	33.820	21.983	6.0	20.7	0.054	30	33.820	21.983	6.0	20.7	0.060	26	29.311	19.052	6.0	20.7	0.046
	Point 33	22	30	34.627	22.508	7.0	21.7	0.058	30	34.226	22.247	6.5	21.2	0.062	28	31.565	20.517	6.0	20.7	0.050
	Point 34	22	26	29.311	19.052	6.0	20.7	0.047	32	36.074	23.448	6.0	20.7	0.064	26	29.311	19.052	6.0	20.7	0.046
	Point 35	22	24	27.056	17.586	6.0	20.7	0.043	26	29.311	19.052	6.0	20.7	0.052	30	33.820	21.983	6.0	20.7	0.053
	Point 36	22	26	29.311	19.052	6.0	20.7	0.047	28	31.565	20.517	6.0	20.7	0.056	28	31.565	20.517	6.0	20.7	0.050
	Point 36A	62	16	24.503	15.927	23.5	38.2	0.072	32	49.006	31.854	23.5	38.2	0.159	26	39.556	25.711	23.0	37.7	0.113
	Point 36B	41	28	37.810	24.576	15.0	29.7	0.086	30	40.510	26.332	15.0	29.7	0.102	30	40.168	26.109	14.5	29.2	0.089
Total Oxygen Injected Per Day (lb)			**15.984**						**20.695**						**17.134**					
		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	28	42.030	27.319	22.0	36.7	0.118	32	48.034	31.222	22.0	36.7	0.150	30	45.032	29.271	22.0	36.7	0.126
	Point 29	34	22	27.635	17.963	11.0	25.7	0.054	40	50.245	32.659	11.0	25.7	0.110	28	35.171	22.861	11.0	25.7	0.069
	Point 37	22	28	32.319	21.007	7.0	21.7	0.054	36	41.553	27.009	7.0	21.7	0.077	32	36.508	23.730	6.5	21.2	0.059
	Point 37A	62	26	40.591	26.384	25.0	39.7	0.124	32	49.959	32.473	25.0	39.7	0.169	34	52.746	34.285	24.5	39.2	0.157
	Point 37B	41	26	35.109	22.821	15.0	29.7	0.080	34	45.523	29.590	14.5	29.2	0.113	32	42.477	27.610	14.0	28.7	0.093
	Point 38	22	30	34.627	22.508	7.0	21.7	0.058	32	36.508	23.730	6.5	21.2	0.066	32	36.508	23.730	6.5	21.2	0.059
	Point 61	17	28	31.565	20.517	6.0	20.7	0.050	30	33.820	21.983	6.0	20.7	0.060	34	38.329	24.914	6.0	20.7	0.060
	Point 63	13	26	28.594	18.586	5.0	19.7	0.043	34	36.430	23.680	4.0	18.7	0.058	32	34.287	22.287	4.0	18.7	0.049
Total Oxygen Injected Per Day (lb)			**18.589**						**25.655**						**21.459**					
System Total Per Day (lb)			**138.77**						**176.20**						**149.73**					

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

Weight of Oxygen Injected through Q4 2019 678,007 lbs

Oxygen to OU-1 Union Boulevard

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-20	31	4,845
Month 2	Feb-20	29	4,296
Month 3	Mar-20	31	4,495
Total Operational Days in Q1 2020			91
Total Oxygen in Q1 2020 (lbs)			13,636.44
Running Total for Oxygen to OU-1 Union Boulevard after Reconfiguration Through Q1 2020 (lbs)			**691,643.44**

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)

			1/7/2020						2/4/2020						3/2/2020					
		O_2%	87.5						86.8						80.7					
		R	10.73						10.73						10.73					
		Temp R (T)	634						636						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 51	15	22	22.934	14.907	3	17.7	0.034	26	27.103	17.617	3.0	17.7	0.040	26	26.327	17.112	2.0	16.7	0.034
	Point 52	25	23	27.152	17.649	8	22.7	0.052	28	33.055	21.486	8.0	22.7	0.062	26	31.030	20.170	8.5	23.2	0.055
	Point 53	15	28	29.188	18.972	3	17.7	0.043	28	29.188	18.972	3.0	17.7	0.043	26	27.103	17.617	3.0	17.7	0.037
	Point 54	25	25	29.513	19.184	8	22.7	0.056	27	31.874	20.718	8.0	22.7	0.060	27	31.874	20.718	8.0	22.7	0.056
	Point 55	15	23	24.312	15.803	3.5	18.2	0.037	25	26.427	17.177	3.5	18.2	0.040	23	24.644	16.019	4.0	18.7	0.035
	Point 56	25	27	32.569	21.170	9	23.7	0.065	30	35.804	23.273	8.5	23.2	0.069	30	36.188	23.522	9.0	23.7	0.066
	Point 57	15	29	31.073	20.197	4	18.7	0.049	28	29.598	19.239	3.5	18.2	0.045	26	27.859	18.108	4.0	18.7	0.040
	Point 58	25	28	33.775	21.954	9	23.7	0.067	27	32.569	21.170	9.0	23.7	0.064	27	32.569	21.170	9.0	23.7	0.059
Total Oxygen Injected Per Day (lb)			**12.855**						**13.473**						**12.235**					
		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	0.122	30	42.831	27.840	18.5	33.2	0.118	28	39.975	25.984	18.5	33.2	0.102
	Point 45	52	30	42.831	27.840	18.5	33.2	0.119	31	43.924	28.551	18.0	32.7	0.119	28	39.673	25.788	18.0	32.7	0.100
	Point 48	52	30	41.852	27.204	17.0	31.7	0.111	31	43.247	28.111	17.0	31.7	0.113	30	41.852	27.204	17.0	31.7	0.102
	Point 44	52	29	41.090	26.709	18.0	32.7	0.112	28	39.369	25.590	17.5	32.2	0.105	28	39.673	25.788	18.0	32.7	0.100
	Point 46	52	27	38.837	25.244	19.0	33.7	0.109	28	40.275	26.179	19.0	33.7	0.112	28	40.275	26.179	19.0	33.7	0.104
	Point 14A	62	28	43.160	28.054	24.0	38.7	0.140	29	44.701	29.056	24.0	38.7	0.143	27	41.618	27.052	24.0	38.7	0.124
	Point 12A	62	34	51.727	33.622	23.0	37.7	0.163	28	42.598	27.689	23.0	37.7	0.133	29	44.120	28.678	23.0	37.7	0.128
	Point 16A	62	34	52.408	34.065	24.0	38.7	0.170	27	41.618	27.052	24.0	38.7	0.133	28	43.160	28.054	24.0	38.7	0.128
Total Oxygen Injected Per Day (lb)			**33.453**						**31.220**						**28.409**					
		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	0.096	29	38.495	25.022	14.0	28.7	0.091	28	37.168	24.159	14.0	28.7	0.082
	Point 4	26	30	33.820	21.983	6.0	20.7	0.059	28	31.565	20.517	6.0	20.7	0.054	26	29.311	19.052	6.0	20.7	0.047
	Point 5	41	26	33.906	22.039	13.0	27.7	0.079	27	35.210	22.887	13.0	27.7	0.081	28	36.514	23.734	13.0	27.7	0.078
	Point 8	26	27	31.164	20.257	7.0	21.7	0.057	26	29.662	19.281	6.5	21.2	0.052	29	33.473	21.757	7.0	21.7	0.056
	Point 9	41	28	36.842	23.948	13.5	28.2	0.087	29	38.158	24.803	13.5	28.2	0.089	30	39.474	25.658	13.5	28.2	0.086
	Point 12	26	30	34.627	22.508	7.0	21.7	0.063	25	28.856	18.756	7.0	21.7	0.052	25	28.856	18.756	7.0	21.7	0.048
	Point 13	41	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000
	Point 16	25	28	33.055	21.486	8.0	22.7	0.063	28	33.055	21.486	8.0	22.7	0.062	28	33.055	21.486	8.0	22.7	0.058
Total Oxygen Injected Per Day (lb)			**16.050**						**15.384**						**14.514**					
		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	26	30.010	19.507	7.0	21.7	0.054	26	29.662	19.281	6.5	21.2	0.052	29	33.085	21.505	6.5	21.2	0.054
	Point 3	41	29	37.475	24.359	12.5	27.2	0.085	31	40.060	26.039	12.5	27.2	0.090	27	34.891	22.679	12.5	27.2	0.073
	Point 6	26	24	31.298	20.344	13.0	27.7	0.072	36	46.947	30.516	13.0	27.7	0.108	23	29.994	19.496	13.0	27.7	0.064
	Point 7	41	25	29.513	19.184	8.0	22.7	0.056	26	30.694	19.951	8.0	22.7	0.058	24	28.333	18.416	8.0	22.7	0.049
	Point 10	26	27	31.874	20.718	8.0	22.7	0.060	28	33.055	21.486	8.0	22.7	0.062	28	33.055	21.486	8.0	22.7	0.058
	Point 11	41	28	37.490	24.368	14.5	29.2	0.092	31	41.507	26.979	14.5	29.2	0.100	28	37.490	24.368	14.5	29.2	0.084
	Point 14	26	30	35.416	23.020	8.0	22.7	0.067	30	35.416	23.020	8.0	22.7	0.066	28	33.055	21.486	8.0	22.7	0.058
	Point 15	41	27	36.151	23.498	14.5	29.2	0.088	33	44.185	28.720	14.5	29.2	0.107	28	37.490	24.368	14.5	29.2	0.084
Total Oxygen Injected Per Day (lb)			**18.421**						**20.562**						**16.762**					
		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	37	56.291	36.589	23.0	37.7	0.177	32	48.684	31.645	23.0	37.7	0.152	38	57.812	37.578	23.0	37.7	0.168
	Point 18	41	27	34.244	22.258	11.5	26.2	0.075	27	34.569	22.470	12.0	26.7	0.076	28	35.512	23.083	11.5	26.2	0.072
	Point 19	26	24	27.702	18.006	7.0	21.7	0.050	23	26.547	17.256	7.0	21.7	0.048	22	25.393	16.506	7.0	21.7	0.042
	Point 22	22	28	31.565	20.517	6.0	20.7	0.055	26	29.311	19.052	6.0	20.7	0.050	31	34.947	22.716	6.0	20.7	0.056
	Point 24	37	30	38.410	24.966	12.0	26.7	0.086	29	37.129	24.134	12.0	26.7	0.082	34	43.531	28.295	12.0	26.7	0.089
	Point 25	22	27	30.438	19.785	6.0	20.7	0.053	26	29.311	19.052	6.0	20.7	0.050	29	32.692	21.250	6.0	20.7	0.052
	Point 59	15	27	28.930	18.805	4.0	18.7	0.045	27	28.930	18.805	4.0	18.7	0.045	32	34.287	22.287	4.0	18.7	0.049
	Point 49	62	36	54.038	35.125	22.0	36.7	0.166	34	51.036	33.173	22.0	36.7	0.155	45	67.548	43.906	22.0	36.7	0.191
Total Oxygen Injected Per Day (lb)			**22.617**						**21.041**						**22.982**					
		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	31	46.849	30.452	22.5	37.2	0.146	30	45.338	29.469	22.5	37.2	0.139	32	48.360	31.434	22.5	37.2	0.138
	Point 26	57	30	44.102	28.666	20.5	35.2	0.130	26	38.222	24.844	20.5	35.2	0.111	30	43.788	28.462	20.0	34.7	0.117
	Point 27	37	28	35.512	23.083	11.5	26.2	0.078	27	34.244	22.258	11.5	26.2	0.074	28	35.512	23.083	11.5	26.2	0.072
	Point 28	22	29	32.692	21.250	6.0	20.7	0.057	28	31.565	20.517	6.0	20.7	0.054	32	36.074	23.448	6.0	20.7	0.057
	Point 30	22	27	30.438	19.785	6.0	20.7	0.053	28	31.565	20.517	6.0	20.7	0.054	30	33.820	21.983	6.0	20.7	0.054
	Point 32	22	28	31.182	20.268	5.5	20.2	0.053	28	31.182	20.268	5.5	20.2	0.052	29	32.295	20.992	5.5	20.2	0.050
	Point 60	15	26	27.484	17.864	3.5	18.2	0.042	25	26.427	17.177	3.5	18.2	0.040	25	26.427	17.177	3.5	18.2	0.037
	Point 50	62	31	47.163	30.656	23.0	37.7	0.149	28	42.598	27.689	23.0	37.7	0.133	38	57.812	37.578	23.0	37.7	0.168
Total Oxygen Injected Per Day (lb)			**22.581**						**21.040**						**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 7	Point 21	37	36	46.092	29.960	12.0	26.7	0.103	28	35.849	23.302	12.0	26.7	0.079	46	58.895	38.282	12.0	26.7	0.121
	Point 31	22	29	32.692	21.250	6.0	20.7	0.057	29	32.692	21.250	6.0	20.7	0.056	36	40.584	26.379	6.0	20.7	0.065
	Point 33	22	29	33.085	21.505	6.5	21.2	0.059	27	30.438	19.785	6.0	20.7	0.052	32	36.508	23.730	6.5	21.2	0.059
	Point 34	22	29	32.692	21.250	6.0	20.7	0.057	27	30.438	19.785	6.0	20.7	0.052	33	37.202	24.181	6.0	20.7	0.059
	Point 35	22	29	32.692	21.250	6.0	20.7	0.057	27	30.438	19.785	6.0	20.7	0.052	26	29.311	19.052	6.0	20.7	0.047
	Point 36	22	29	32.692	21.250	6.0	20.7	0.057	30	33.820	21.983	6.0	20.7	0.058	29	32.692	21.250	6.0	20.7	0.052
	Point 36A	62	31	47.474	30.858	23.5	38.2	0.152	27	41.349	26.877	23.5	38.2	0.131	39	59.726	38.822	23.5	38.2	0.175
	Point 36B	41	32	42.846	27.850	14.5	29.2	0.105	28	37.490	24.368	14.5	29.2	0.091	33	44.185	28.720	14.5	29.2	0.099
Total Oxygen Injected Per Day (lb)			**20.610**						**18.250**						**21.674**					
		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	45.032	29.271	22.0	36.7	0.138	30	45.032	29.271	22.0	36.7	0.137	30	45.032	29.271	22.0	36.7	0.127
	Point 29	34	30	37.684	24.494	11.0	25.7	0.081	24	30.147	19.595	11.0	25.7	0.064	22	27.635	17.963	11.0	25.7	0.055
	Point 37	22	30	34.627	22.508	7.0	21.7	0.063	30	34.627	22.508	7.0	21.7	0.062	28	32.319	21.007	7.0	21.7	0.054
	Point 37A	62	30	46.836	30.444	25.0	39.7	0.155	28	43.438	28.234	24.5	39.2	0.141	24	37.232	24.201	24.5	39.2	0.112
	Point 37B	41	30	40.510	26.332	15.0	29.7	0.101	24	32.408	21.065	15.0	29.7	0.080	26	34.812	22.628	14.5	29.2	0.078
	Point 38	22	29	33.085	21.505	6.5	21.2	0.059	26	29.662	19.281	6.5	21.2	0.052	29	33.085	21.505	6.5	21.2	0.054
	Point 61	17	30	33.820	21.983	6.0	20.7	0.059	31	34.947	22.716	6.0	20.7	0.060	30	33.820	21.983	6.0	20.7	0.054
	Point 63	13	30	32.145	20.894	4.0	18.7	0.050	30	32.145	20.894	4.0	18.7	0.050	28	30.400	19.760	4.5	19.2	0.045
Total Oxygen Injected Per Day (lb)			**22.574**						**20.629**						**18.510**					
System Total Per Day (lb)			**156.30**						**148.13**						**145.01**					

Appendix C. OU-1 Oxygen Injection System Operational Data
Table C-1. OU-1 South Fourth Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2019 664,781 lbs

Oxygen to OU-1 Union Boulevard

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-19	28	4,137
Month 2	Nov-19	30	4,461
Month 3	Dec-19	30	4,627
Total Operational Days in Q4 2019			88
Total Oxygen in Q4 2019 (lbs)			13,225.35
Running Total for Oxygen to OU-1 Union Boulevard after Reconfiguration Through Q4 2019 (lbs)			**678,006.83**

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)

		10/1/2019						11/4/2019						12/2/2019					
	O_2%	82.5						83.5						86.7					
	R	10.73						10.73						10.73					
	Temp R (T)	643						636						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 51	15	35	35.440	23.036	2	16.7	0.046	19	19.806	12.874	3.0	17.7	0.028	23	23.635	15.363	2.5	17.2	0.034
Point 52	25	34	40.138	26.090	8	22.7	0.071	25	29.513	19.184	8.0	22.7	0.053	26	30.694	19.951	8.0	22.7	0.058
Point 53	15	34	35.443	23.038	3	17.7	0.049	26	27.484	17.864	3.5	18.2	0.040	26	27.103	17.617	3.0	17.7	0.040
Point 54	25	29	33.856	22.007	7.5	22.2	0.058	23	27.152	17.649	8.0	22.7	0.049	23	27.152	17.649	8.0	22.7	0.051
Point 55	15	36	37.528	24.393	3	17.7	0.052	24	25.369	16.490	3.5	18.2	0.037	24	25.369	16.490	3.5	18.2	0.038
Point 56	25	36	42.499	27.624	8	22.7	0.075	24	28.950	18.818	9.0	23.7	0.055	26	31.030	20.170	8.5	23.2	0.059
Point 57	15	32	33.358	21.683	3	17.7	0.046	23	24.644	16.019	4.0	18.7	0.037	25	26.787	17.412	4.0	18.7	0.041
Point 58	25	31	36.597	23.788	8	22.7	0.065	26	31.363	20.386	9.0	23.7	0.059	23	27.450	17.842	8.5	23.2	0.053
Total Oxygen Injected Per Day (lb)		**14.754**						**11.425**						**11.941**					
	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
Injection Bank 2																			
Point 47	52	36	51.008	33.155	18.0	32.7	0.130	31	44.258	28.768	18.5	33.2	0.117	28	39.975	25.984	18.5	33.2	0.110
Point 45	52	32	45.341	29.471	18.0	32.7	0.115	31	43.924	28.551	18.0	32.7	0.114	30	42.507	27.630	18.0	32.7	0.115
Point 48	52	30	41.852	27.204	17.0	31.7	0.103	30	41.852	27.204	17.0	31.7	0.106	32	44.642	29.017	17.0	31.7	0.117
Point 44	52	30	41.852	27.204	17.0	31.7	0.103	28	39.369	25.590	17.5	32.2	0.101	28	39.369	25.590	17.5	32.2	0.105
Point 46	52	33	47.467	30.854	19.0	33.7	0.124	28	40.275	26.179	19.0	33.7	0.108	27	38.837	25.244	19.0	33.7	0.108
Point 14A	62	36	54.769	35.600	23.0	37.7	0.160	33	50.867	33.063	24.0	38.7	0.157	27	41.618	27.052	24.0	38.7	0.133
Point 12A	62	34	51.036	33.173	22.0	36.7	0.146	32	48.684	31.645	23.0	37.7	0.146	29	44.120	28.678	23.0	37.7	0.137
Point 16A	62	32	49.325	32.061	24.0	38.7	0.148	32	49.325	32.061	24.0	38.7	0.152	27	41.618	27.052	24.0	38.7	0.133
Total Oxygen Injected Per Day (lb)		**32.956**						**31.991**						**30.636**					
	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 3																			
Point 1	41	29	38.158	24.803	13.5	28.2	0.084	31	41.150	26.747	14.0	28.7	0.094	30	39.822	25.885	14.0	28.7	0.094
Point 4	26	28	31.182	20.268	5.5	20.2	0.049	30	33.820	21.983	6.0	20.7	0.056	30	33.820	21.983	6.0	20.7	0.058
Point 5	41	30	39.122	25.430	13.0	27.7	0.084	30	39.122	25.430	13.0	27.7	0.086	28	36.514	23.734	13.0	27.7	0.084
Point 8	26	30	33.820	21.983	6.0	20.7	0.054	28	31.944	20.764	6.5	21.2	0.054	28	31.944	20.764	6.5	21.2	0.056
Point 9	41	30	39.122	25.430	13.0	27.7	0.084	27	35.527	23.092	13.5	28.2	0.080	30	39.474	25.658	13.5	28.2	0.092
Point 12	26	29	32.692	21.250	6.0	20.7	0.053	29	33.473	21.757	7.0	21.7	0.058	30	34.627	22.508	7.0	21.7	0.062
Point 13	41	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000
Point 16	25	30	35.024	22.765	7.5	22.2	0.060	30	35.416	23.020	8.0	22.7	0.064	29	34.235	22.253	8.0	22.7	0.064
Total Oxygen Injected Per Day (lb)		**14.992**						**15.713**						**16.313**					
	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 4																			
Point 2	26	30	33.820	21.983	6.0	20.7	0.054	27	30.803	20.022	6.5	21.2	0.052	28	31.944	20.764	6.5	21.2	0.056
Point 3	41	32	40.970	26.631	12.0	26.7	0.085	30	38.410	24.966	12.0	26.7	0.082	32	41.352	26.879	12.5	27.2	0.093
Point 6	26	32	41.352	26.879	12.5	27.2	0.087	28	36.514	23.734	13.0	27.7	0.080	40	52.163	33.906	13.0	27.7	0.119
Point 7	41	32	36.936	24.008	7.0	21.7	0.062	28	33.055	21.486	8.0	22.7	0.060	26	30.694	19.951	8.0	22.7	0.058
Point 10	26	33	38.526	25.042	7.5	22.2	0.066	24	28.333	18.416	8.0	22.7	0.051	28	33.055	21.486	8.0	22.7	0.062
Point 11	41	33	43.805	28.473	14.0	28.7	0.098	32	42.846	27.850	14.5	29.2	0.100	32	42.846	27.850	14.5	29.2	0.103
Point 14	26	32	37.359	24.283	7.5	22.2	0.064	28	33.055	21.486	8.0	22.7	0.060	29	34.235	22.253	8.0	22.7	0.064
Point 15	41	30	39.822	25.885	14.0	28.7	0.089	30	40.168	26.109	14.5	29.2	0.093	35	46.862	30.461	14.5	29.2	0.113
Total Oxygen Injected Per Day (lb)		**19.412**						**18.471**						**21.380**					
	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	36	54.405	35.363	22.5	37.2	0.157	36	54.769	35.600	23.0	37.7	0.164	36	54.769	35.600	23.0	37.7	0.171
Point 18	41	25	31.403	20.412	11.0	25.7	0.063	28	35.512	23.083	11.5	26.2	0.074	28	35.512	23.083	11.5	26.2	0.077
Point 19	26	25	28.183	18.319	6.0	20.7	0.045	24	27.702	18.006	7.0	21.7	0.048	23	26.547	17.256	7.0	21.7	0.048
Point 22	22	30	33.820	21.983	6.0	20.7	0.054	30	33.820	21.983	6.0	20.7	0.056	28	31.565	20.517	6.0	20.7	0.054
Point 24	37	28	35.512	23.083	11.5	26.2	0.072	32	40.970	26.631	12.0	26.7	0.087	30	38.410	24.966	12.0	26.7	0.085
Point 25	22	27	30.068	19.544	5.5	20.2	0.047	26	29.311	19.052	6.0	20.7	0.048	26	29.311	19.052	6.0	20.7	0.050
Point 59	15	28	30.002	19.501	4.0	18.7	0.044	25	27.143	17.643	4.5	19.2	0.041	28	30.002	19.501	4.0	18.7	0.046
Point 49	62	38	56.650	36.823	21.5	36.2	0.159	37	55.539	36.100	22.0	36.7	0.162	34	51.036	33.173	22.0	36.7	0.155
Total Oxygen Injected Per Day (lb)		**20.554**						**21.777**						**21.910**					
	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 6																			
Point 20	61	31	46.533	30.246	22.0	36.7	0.133	28	42.315	27.505	22.5	37.2	0.125	27	40.804	26.522	22.5	37.2	0.125
Point 26	57	32	46.369	30.140	19.5	34.2	0.123	29	42.632	27.711	20.5	35.2	0.119	28	41.162	26.755	20.5	35.2	0.120
Point 27	37	29	36.428	23.678	11.0	25.7	0.073	28	35.171	22.861	11.0	25.7	0.072	27	34.244	22.258	11.5	26.2	0.074
Point 28	22	30	33.409	21.716	5.5	20.2	0.052	29	32.692	21.250	6.0	20.7	0.054	28	31.565	20.517	6.0	20.7	0.054
Point 30	22	29	32.295	20.992	5.5	20.2	0.051	26	29.311	19.052	6.0	20.7	0.048	27	30.438	19.785	6.0	20.7	0.052
Point 32	22	30	32.993	21.445	5.0	19.7	0.051	26	28.954	18.820	5.5	20.2	0.047	28	31.182	20.268	5.5	20.2	0.052
Point 60	15	29	30.231	19.650	3.0	17.7	0.042	25	26.427	17.177	3.5	18.2	0.038	28	29.188	18.972	3.0	17.7	0.043
Point 50	62	38	57.040	37.076	22.0	36.7	0.163	30	45.641	29.667	23.0	37.7	0.137	31	47.163	30.656	23.0	37.7	0.147
Total Oxygen Injected Per Day (lb)		**21.975**						**20.484**						**21.331**					
	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	42	53.268	34.624	11.5	26.2	0.108	36	46.092	29.960	12.0	26.7	0.098	40	51.213	33.288	12.0	26.7	0.113
Point 31	22	29	32.295	20.992	5.5	20.2	0.051	30	33.820	21.983	6.0	20.7	0.056	28	31.565	20.517	6.0	20.7	0.054
Point 33	22	29	32.692	21.250	6.0	20.7	0.053	29	32.692	21.250	6.0	20.7	0.054	99	112.945	73.414	6.5	21.2	0.198
Point 34	22	30	33.409	21.716	5.5	20.2	0.052	30	33.820	21.983	6.0	20.7	0.056	0	0.000	0.000	6.0	20.7	0.000
Point 35	22	30	33.409	21.716	5.5	20.2	0.052	25	28.183	18.319	6.0	20.7	0.046	23	25.929	16.854	6.0	20.7	0.044
Point 36	22	32	35.636	23.163	5.5	20.2	0.056	29	32.692	21.250	6.0	20.7	0.054	28	31.565	20.517	6.0	20.7	0.054
Point 36A	62	28	42.598	27.689	23.0	37.7	0.125	30	45.943	29.863	23.5	38.2	0.140	29	44.411	28.867	23.5	38.2	0.140
Point 36B	41	32	42.477	27.610	14.0	28.7	0.095	30	40.168	26.109	14.5	29.2	0.093	28	37.490	24.368	14.5	29.2	0.090
Total Oxygen Injected Per Day (lb)		**18.951**						**19.076**						**22.188**					
	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	44.724	29.071	21.5	36.2	0.126	31	46.533	30.246	22.0	36.7	0.136	30	45.032	29.271	22.0	36.7	0.136
Point 29	34	25	31.403	20.412	11.0	25.7	0.063	28	35.171	22.861	11.0	25.7	0.072	25	31.403	20.412	11.0	25.7	0.067
Point 37	22	28	31.944	20.764	6.5	21.2	0.053	30	34.627	22.508	7.0	21.7	0.060	27	31.164	20.257	7.0	21.7	0.056
Point 37A	62	28	43.160	28.054	24.0	38.7	0.130	31	48.092	31.260	24.5	39.2	0.150	31	48.092	31.260	24.5	39.2	0.156
Point 37B	41	27	35.840	23.296	14.0	28.7	0.080	31	41.507	26.979	14.5	29.2	0.096	26	34.812	22.628	14.5	29.2	0.084
Point 38	22	27	30.438	19.785	6.0	20.7	0.049	26	29.662	19.281	6.5	21.2	0.050	24	27.381	17.797	6.5	21.2	0.048
Point 61	17	30	33.409	21.716	5.5	20.2	0.052	29	32.692	21.250	6.0	20.7	0.054	26	29.311	19.052	6.0	20.7	0.050
Point 63	13	25	26.787	17.412	4.0	18.7	0.039	28	30.002	19.501	4.0	18.7	0.045	25	27.143	17.643	4.5	19.2	0.043
Total Oxygen Injected Per Day (lb)		**18.922**						**21.192**						**20.469**					
System Total Per Day (lb)		**147.76**						**148.71**						**154.23**					

Appendix C. OU-1 Oxygen Injection System Operational Data
Table C-1. OU-1 South Third Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2019 652,800 lbs

Oxygen to OU-1 Union Boulevard

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-19	31	4,666
Month 2	Aug-19	31	4,232
Month 3	Sep-19	26	3,084
Total Operational Days in Q3 2019			88
Total Oxygen in Q3 2019 (lbs)			11,981.66
Running Total for Oxygen to OU-1 Union Boulevard after Reconfiguration Through Q3 2019 (lbs)			**664,781.48**

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)

			7/8/2019						8/5/2019						9/4/2019					
	O_2%		85						81						79.7					
	R		10.73						10.73						10.73					
	Temp R (T)		636						631						641					
		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	23	23.976	15.584	3	17.7	0.034	23	23.976	15.584	3.0	17.7	0.033	18	18.226	11.847	2.0	16.7	0.023
	Point 52	25	26	30.694	19.951	8	22.7	0.056	31	36.597	23.788	8.0	22.7	0.065	23	27.152	17.649	8.0	22.7	0.046
	Point 53	15	25	26.427	17.177	3.5	18.2	0.039	31	32.769	21.300	3.5	18.2	0.046	22	22.934	14.907	3.0	17.7	0.031
	Point 54	25	26	30.694	19.951	8	22.7	0.056	28	32.689	21.248	7.5	22.2	0.056	25	29.513	19.184	8.0	22.7	0.050
	Point 55	15	23	24.312	15.803	3.5	18.2	0.036	32	33.826	21.987	3.5	18.2	0.048	18	19.027	12.368	3.5	18.2	0.026
	Point 56	25	27	32.223	20.945	8.5	23.2	0.061	29	34.610	22.497	8.5	23.2	0.062	22	26.256	17.067	8.5	23.2	0.046
	Point 57	15	23	24.644	16.019	4	18.7	0.037	28	30.002	19.501	4.0	18.7	0.044	23	24.312	15.803	3.5	18.2	0.033
	Point 58	25	29	34.981	22.738	9	23.7	0.067	30	35.804	23.273	8.5	23.2	0.065	22	26.256	17.067	8.5	23.2	0.046
Total Oxygen Injected Per Day (lb)			**12.381**						**13.406**						**9.650**					
		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	27	38.548	25.056	18.5	33.2	0.104	28	39.673	25.788	18.0	32.7	0.101	23	32.589	21.183	18.0	32.7	0.080
	Point 45	52	28	39.673	25.788	18.0	32.7	0.105	28	39.673	25.788	18.0	32.7	0.101	24	34.006	22.104	18.0	32.7	0.084
	Point 48	52	29	40.457	26.297	17.0	31.7	0.104	28	39.062	25.390	17.0	31.7	0.096	27	37.667	24.483	17.0	31.7	0.090
	Point 44	52	28	39.062	25.390	17.0	31.7	0.100	27	37.667	24.483	17.0	31.7	0.093	26	36.557	23.762	17.5	32.2	0.089
	Point 46	52	30	43.152	28.049	19.0	33.7	0.118	30	43.152	28.049	19.0	33.7	0.113	26	37.398	24.309	19.0	33.7	0.095
	Point 14A	62	28	43.160	28.054	24.0	38.7	0.135	31	47.474	30.858	23.5	38.2	0.141	23	35.223	22.895	23.5	38.2	0.101
	Point 12A	62	32	48.684	31.645	23.0	37.7	0.149	26	39.556	25.711	23.0	37.7	0.116	26	39.556	25.711	23.0	37.7	0.112
	Point 16A	62	27	41.618	27.052	24.0	38.7	0.130	26	40.077	26.050	24.0	38.7	0.121	22	33.911	22.042	24.0	38.7	0.099
Total Oxygen Injected Per Day (lb)			**30.230**						**28.211**						**24.002**					
		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	31	41.150	26.747	14.0	28.7	0.096	29	38.495	25.022	14.0	28.7	0.086	26	34.513	22.433	14.0	28.7	0.075
	Point 4	26	32	36.074	23.448	6.0	20.7	0.060	28	31.565	20.517	6.0	20.7	0.051	20	22.547	14.655	6.0	20.7	0.035
	Point 5	41	31	40.427	26.277	13.0	27.7	0.091	27	31.874	20.718	8.0	22.7	0.056	12	14.166	9.208	8.0	22.7	0.024
	Point 8	26	30	34.226	22.247	6.5	21.2	0.059	28	31.944	20.764	6.5	21.2	0.053	22	25.099	16.314	6.5	21.2	0.040
	Point 9	41	30	35.804	23.273	8.5	23.2	0.067	29	34.610	22.497	8.5	23.2	0.062	22	26.256	17.067	8.5	23.2	0.046
	Point 12	26	33	38.090	24.758	7.0	21.7	0.067	28	31.944	20.764	6.5	21.2	0.053	21	23.958	15.573	6.5	21.2	0.038
	Point 13	41	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000
	Point 16	25	31	36.597	23.788	8.0	22.7	0.067	30	35.416	23.020	8.0	22.7	0.063	25	29.513	19.184	8.0	22.7	0.050
Total Oxygen Injected Per Day (lb)			**16.221**						**13.545**						**9.877**					
		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	26	29.662	19.281	6.5	21.2	0.051	26	29.311	19.052	6.0	20.7	0.047	25	28.522	18.539	6.5	21.2	0.046
	Point 3	41	32	40.585	26.380	11.5	26.2	0.086	31	39.690	25.799	12.0	26.7	0.082	23	29.447	19.141	12.0	26.7	0.059
	Point 6	26	40	52.163	33.906	13.0	27.7	0.117	38	49.555	32.211	13.0	27.7	0.107	19	24.778	16.105	13.0	27.7	0.052
	Point 7	41	26	30.694	19.951	8.0	22.7	0.056	26	30.354	19.730	7.5	22.2	0.052	21	24.791	16.114	8.0	22.7	0.042
	Point 10	26	21	24.791	16.114	8.0	22.7	0.046	30	35.416	23.020	8.0	22.7	0.063	22	25.972	16.882	8.0	22.7	0.044
	Point 11	41	33	44.561	28.965	15.0	29.7	0.107	30	40.168	26.109	14.5	29.2	0.091	22	29.456	19.147	14.5	29.2	0.065
	Point 14	26	29	34.235	22.253	8.0	22.7	0.063	31	36.597	23.788	8.0	22.7	0.065	22	25.972	16.882	8.0	22.7	0.044
	Point 15	41	32	42.477	27.610	14.0	28.7	0.099	28	37.168	24.159	14.0	28.7	0.083	24	31.858	20.708	14.0	28.7	0.069
Total Oxygen Injected Per Day (lb)			**19.991**						**18.880**						**13.482**					
		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	32	48.684	31.645	23.0	37.7	0.149	21	31.949	20.767	23.0	37.7	0.094	36	54.769	35.600	23.0	37.7	0.156
	Point 18	41	31	39.317	25.556	11.5	26.2	0.083	19	24.097	15.663	11.5	26.2	0.049	26	32.659	21.228	11.0	25.7	0.063
	Point 19	26	31	35.367	22.988	6.5	21.2	0.061	20	22.817	14.831	6.5	21.2	0.038	25	28.522	18.539	6.5	21.2	0.046
	Point 22	22	26	29.311	19.052	6.0	20.7	0.049	28	31.565	20.517	6.0	20.7	0.051	27	30.438	19.785	6.0	20.7	0.047
	Point 24	37	30	38.410	24.966	12.0	26.7	0.083	13	16.644	10.819	12.0	26.7	0.035	28	35.849	23.302	12.0	26.7	0.072
	Point 25	22	26	29.311	19.052	6.0	20.7	0.049	28	31.565	20.517	6.0	20.7	0.051	26	29.311	19.052	6.0	20.7	0.046
	Point 59	15	24	25.716	16.715	4.0	18.7	0.039	26	27.859	18.108	4.0	18.7	0.041	28	30.002	19.501	4.0	18.7	0.042
	Point 49	62	26	39.028	25.368	22.0	36.7	0.116	30	45.032	29.271	22.0	36.7	0.129	31	46.533	30.246	22.0	36.7	0.129
Total Oxygen Injected Per Day (lb)			**20.124**						**15.538**						**19.214**					
		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	33	49.871	32.416	22.5	37.2	0.150	38	57.428	37.328	22.5	37.2	0.166	34	51.383	33.399	22.5	37.2	0.144
	Point 26	57	30	43.788	28.462	20.0	34.7	0.123	31	45.247	29.411	20.0	34.7	0.122	27	39.409	25.616	20.0	34.7	0.103
	Point 27	37	29	36.428	23.678	11.0	25.7	0.076	29	36.428	23.678	11.0	25.7	0.073	28	35.171	22.861	11.0	25.7	0.068
	Point 28	22	28	31.565	20.517	6.0	20.7	0.053	27	30.438	19.785	6.0	20.7	0.049	27	30.438	19.785	6.0	20.7	0.047
	Point 30	22	29	32.692	21.250	6.0	20.7	0.055	26	29.311	19.052	6.0	20.7	0.047	29	32.295	20.992	5.5	20.2	0.049
	Point 32	22	30	33.409	21.716	5.5	20.2	0.055	29	31.893	20.730	5.0	19.7	0.049	27	30.068	19.544	5.5	20.2	0.046
	Point 60	15	29	30.655	19.926	3.5	18.2	0.045	28	29.188	18.972	3.0	17.7	0.040	25	26.061	16.940	3.0	17.7	0.035
	Point 50	62	28	42.598	27.689	23.0	37.7	0.130	33	50.205	32.633	23.0	37.7	0.147	24	36.513	23.733	23.0	37.7	0.104
Total Oxygen Injected Per Day (lb)			**21.969**						**22.189**						**19.066**					
		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	10	12.803	8.322	12.0	26.7	0.028	22	28.167	18.309	12.0	26.7	0.058	28	35.849	23.302	12.0	26.7	0.072
	Point 31	22	31	34.947	22.716	6.0	20.7	0.059	30	33.820	21.983	6.0	20.7	0.054	25	28.183	18.319	6.0	20.7	0.044
	Point 33	22	30	34.226	22.247	6.5	21.2	0.059	29	32.692	21.250	6.0	20.7	0.053	25	28.522	18.539	6.5	21.2	0.046
	Point 34	22	30	33.820	21.983	6.0	20.7	0.057	30	33.820	21.983	6.0	20.7	0.054	24	27.056	17.586	6.0	20.7	0.042
	Point 35	22	57	64.258	41.767	6.0	20.7	0.108	28	31.565	20.517	6.0	20.7	0.051	24	27.056	17.586	6.0	20.7	0.042
	Point 36	22	33	37.202	24.181	6.0	20.7	0.062	32	36.074	23.448	6.0	20.7	0.058	28	31.565	20.517	6.0	20.7	0.049
	Point 36A	62	30	45.943	29.863	23.5	38.2	0.142	33	50.537	32.849	23.5	38.2	0.150	26	39.556	25.711	23.0	37.7	0.112
	Point 36B	41	33	44.185	28.720	14.5	29.2	0.104	30	39.822	25.885	14.0	28.7	0.089	24	32.134	20.887	14.5	29.2	0.071
Total Oxygen Injected Per Day (lb)			**19.784**						**18.172**						**15.301**					
		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	35	52.537	34.149	22.0	36.7	0.156	30	44.724	29.071	21.5	36.2	0.126	33	49.196	31.978	21.5	36.2	0.134
	Point 29	34	25	31.403	20.412	11.0	25.7	0.065	26	32.659	21.228	11.0	25.7	0.065	21	26.379	17.146	11.0	25.7	0.051
	Point 37	22	28	32.319	21.007	7.0	21.7	0.057	28	32.319	21.007	7.0	21.7	0.055	23	26.240	17.056	6.5	21.2	0.042
	Point 37A	62	34	52.746	34.285	24.5	39.2	0.167	32	49.325	32.061	24.0	38.7	0.148	30	46.540	30.251	24.5	39.2	0.137
	Point 37B	41	28	37.490	24.368	14.5	29.2	0.089	28	37.168	24.159	14.0	28.7	0.083	23	30.530	19.845	14.0	28.7	0.066
	Point 38	22	30	34.226	22.247	6.5	21.2	0.059	30	33.820	21.983	6.0	20.7	0.054	26	29.311	19.052	6.0	20.7	0.046
	Point 61	17	30	33.820	21.983	6.0	20.7	0.057	30	32.993	21.445	5.0	19.7	0.051	29	32.295	20.992	5.5	20.2	0.049
	Point 63	13	27	28.930	18.805	4.0	18.7	0.044	27	28.930	18.805	4.0	18.7	0.042	18	19.287	12.536	4.0	18.7	0.027
Total Oxygen Injected Per Day (lb)			**22.191**						**19.973**						**17.680**					
System Total Per Day (lb)			**150.51**						**136.51**						**118.62**					

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

Total Weight of Oxygen Injected through Q2 2020	971,626	lbs
Weight of Oxygen Injected through Q2 2020 (OU-1)	323,492	lbs
Weight of Oxygen Injected through Q2 2020 (OU-3)	648,134	lbs

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

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-20	27	2,932
Month 2	Aug-20	27	2,702
Month 3	Sep-20	30	3,034
Total Operational Days In Q3 2020			84
Total Oxygen in OU-1 in Q3 2020 (lbs)			8,668.64
Running Total for Oxygen to OU-1 Through Q3 2020 (lbs)			**332,160.64**

Oxygen to OU-3 (Community Road)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-20	27	4,096
Month 2	Aug-20	27	2,544
Month 3	Sep-20	30	4,068
Total Operational Days In Q3 2020			84
Total Oxygen in OU-3 in Q3 2020 (lbs)			10,708.37
Running Total for Oxygen to OU-3 Through Q3 2020 (lbs)			**658,842.37**

Running Total for Oxygen System (OU-1 and OU-3) Through Q3 2020 (lbs)	**991,003.00**

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.

		7/7/2020						8/10/2020						9/9/2020					
O_2%		79.2						66.8						71.8					
R		10.73						10.73						10.73					
Temp R (T)		640						613						658					
		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	30	34.226	43.809	6.5	21.2	0.107	222	253.271	324.187	6.5	21.2	0.698	32	36.508	46.730	6.5	21.2	0.101
	Point 1B*	35	28	35.171	45.019	11.0	25.7	0.133	24	30.147	38.588	11.0	25.7	0.101	31	38.940	49.843	11.0	25.7	0.130
	Point 2A*	25	28	32.689	41.842	7.5	22.2	0.107	21	24.517	31.381	7.5	22.2	0.071	33	38.526	49.313	7.5	22.2	0.111
	Point 2B*	35	26	33.288	42.609	12.0	26.7	0.131	21	26.887	34.415	12.0	26.7	0.093	34	43.531	55.720	12.0	26.7	0.151
	Point 3A*	25	26	29.311	37.517	6.0	20.7	0.090	20	22.547	28.860	6.0	20.7	0.061	33	37.202	47.618	6.0	20.7	0.100
	Point 3B*	35	28	36.183	46.315	12.5	27.2	0.145	23	29.447	37.693	12.0	26.7	0.102	29	37.129	47.526	12.0	26.7	0.129
	Point 4A*	25	26	31.030	39.718	8.5	23.2	0.106	20	23.611	30.222	8.0	22.7	0.070	31	36.597	46.844	8.0	22.7	0.108
	Point 4B*	35	28	36.183	46.315	12.5	27.2	0.145	23	29.722	38.044	12.5	27.2	0.105	30	38.768	49.623	12.5	27.2	0.137
	Point 5A*	25	27	32.569	41.688	9.0	23.7	0.114	23	27.450	35.136	8.5	23.2	0.083	30	35.804	45.829	8.5	23.2	0.108
	Point 5B*	35	27	34.891	44.660	12.5	27.2	0.140	24	31.014	39.698	12.5	27.2	0.110	31	40.060	51.277	12.5	27.2	0.142
Total Oxygen Injected Per Day (lb)			**39.019**						**47.772**						**38.985**					
		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	31	34.093	43.638	5.0	19.7	0.099	20	21.995	28.154	5.0	19.7	0.056	30	32.993	42.231	5.0	19.7	0.085
	Point 1B	25	32	37.777	48.355	8.0	22.7	0.127	16	18.679	23.910	7.5	22.2	0.054	33	38.526	49.313	7.5	22.2	0.111
	Point 2A	15	30	32.571	41.691	4.5	19.2	0.092	22	23.886	30.574	4.5	19.2	0.060	31	33.657	43.081	4.5	19.2	0.084
	Point 2B	25	30	35.416	45.332	8.0	22.7	0.119	24	28.019	35.864	7.5	22.2	0.081	30	35.416	45.332	8.0	22.7	0.105
	Point 3A	15	30	32.571	41.691	4.5	19.2	0.092	23	24.644	31.544	4.0	18.7	0.060	30	32.145	41.145	4.0	18.7	0.078
	Point 3B	25	30	36.567	46.806	9.5	24.2	0.131	26	31.692	40.565	9.5	24.2	0.100	30	36.567	46.806	9.5	24.2	0.115
	Point 4A	15	31	34.093	43.638	5.0	19.7	0.099	24	26.057	33.353	4.5	19.2	0.065	30	32.571	41.691	4.5	19.2	0.081
Total Oxygen Injected Per Day (lb)			**24.283**						**15.211**						**21.105**					
Injection Bank 6	Point 4B	25	24	29.254	46.806	9.5	24.2	0.131	20	24.378	39.005	9.5	24.2	0.096	27	32.911	52.657	9.5	24.2	0.130
	Point 5A	15	22	23.886	38.217	4.5	19.2	0.085	20	21.714	34.743	4.5	19.2	0.068	23	24.971	39.954	4.5	19.2	0.078
	Point 5B	25	22	26.538	42.460	9.0	23.7	0.116	22	26.256	42.010	8.5	23.2	0.099	24	28.950	46.320	9.0	23.7	0.112
	Point 6	25	23	27.744	44.390	9.0	23.7	0.121	20	24.125	38.600	9.0	23.7	0.093	24	28.950	46.320	9.0	23.7	0.112
	Point 7	25	22	26.538	42.460	9.0	23.7	0.116	23	27.744	44.390	9.0	23.7	0.107	27	32.569	52.110	9.0	23.7	0.126
	Point 12	15	38	41.791	66.865	5.0	19.7	0.152	34	37.392	59.827	5.0	19.7	0.120	34	37.392	59.827	5.0	19.7	0.120
	Point 11	25	39	47.538	76.060	9.5	24.2	0.212	36	43.425	69.480	9.0	23.7	0.167	36	43.425	69.480	9.0	23.7	0.167
	Point 15	25	38	45.838	73.340	9.0	23.7	0.200	36	43.425	69.480	9.0	23.7	0.167	37	44.631	71.410	9.0	23.7	0.172
	Point 14	15	36	39.086	62.537	4.5	19.2	0.138	37	39.645	63.432	4.0	18.7	0.120	43	46.074	73.718	4.0	18.7	0.140
	Point 16	16	36	39.591	63.346	5.0	19.7	0.144	36	39.086	62.537	4.5	19.2	0.122	36	39.591	63.346	5.0	19.7	0.127
Total Oxygen Injected Per Day (lb)			**45.305**						**37.085**						**41.056**					
OU-1 System Total Per Day (lb)			**108.61**						**100.07**						**101.15**					

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	30	31.712	40.591	3.5	18.2	0.085	24	26.394	33.785	5.0	19.7	0.068	30	31.273	40.030	3.0	17.7	0.072
	Point 17	21	30	36.188	46.320	9.0	23.7	0.127	24	28.643	36.663	8.5	23.2	0.086	28	33.417	42.774	8.5	23.2	0.101
	Point 29	21	32	37.359	47.819	7.5	22.2	0.122	24	28.019	35.864	7.5	22.2	0.081	28	32.689	41.842	7.5	22.2	0.094
Total Oxygen Injected Per Day (lb)			**10.696**						**7.515**						**8.558**					
		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 3	Point 18	21	33	38.958	62.332	8.0	22.7	0.163	17	20.069	32.110	8.0	22.7	0.074	32	37.777	60.443	8.0	22.7	0.140
	Point 19A	16	33	37.202	59.523	6.0	20.7	0.142	18	20.292	32.467	6.0	20.7	0.068	29	32.692	52.308	6.0	20.7	0.110
	Point 19B	27	33	40.638	65.020	10.0	24.7	0.185	17	20.722	33.154	9.5	24.2	0.081	31	37.786	60.458	9.5	24.2	0.149
	Point 25A	16	35	43.534	69.655	10.5	25.2	0.202	23	27.152	43.444	8.0	22.7	0.100	28	34.480	55.169	10.0	24.7	0.139
	Point 26A	16	31	34.947	55.915	6.0	20.7	0.133	20	22.547	36.074	6.0	20.7	0.076	32	36.074	57.719	6.0	20.7	0.122
	Point 26B	27	32	39.803	63.685	10.5	25.2	0.185	22	26.816	42.906	9.5	24.2	0.105	27	33.584	53.734	10.5	25.2	0.138
	Point 27A	16	32	36.074	57.719	6.0	20.7	0.138	20	22.547	36.074	6.0	20.7	0.076	32	36.074	57.719	6.0	20.7	0.122
	Point 27B	27	32	39.803	63.685	10.5	25.2	0.185	21	26.121	41.793	10.5	25.2	0.107	34	42.291	67.665	10.5	25.2	0.173
	Point 28A	16	33	37.202	59.523	6.0	20.7	0.142	16	18.037	28.860	6.0	20.7	0.061	32	36.074	57.719	6.0	20.7	0.122
	Point 28B	27	32	40.196	64.313	11.0	25.7	0.191	22	27.635	44.215	11.0	25.7	0.115	32	40.196	64.313	11.0	25.7	0.168
Total Oxygen Injected Per Day (lb)			**53.349**						**27.651**						**44.183**					
		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	29	33.473	53.557	7.0	21.7	0.134	21	24.239	38.782	7.0	21.7	0.085	30	34.627	55.403	7.0	21.7	0.122
	Point 21B	27	30	36.943	59.109	10.0	24.7	0.168	23	28.323	45.317	10.0	24.7	0.114	32	39.406	63.050	10.0	24.7	0.158
	Point 22A	16	29	33.085	52.936	6.5	21.2	0.129	20	22.817	36.508	6.5	21.2	0.079	31	35.367	56.587	6.5	21.2	0.122
	Point 22B	27	30	37.684	60.294	11.0	25.7	0.179	19	23.866	38.186	11.0	25.7	0.100	35	43.964	70.343	11.0	25.7	0.184
	Point 23A	16	28	31.182	49.891	5.5	20.2	0.116	18	20.045	32.073	5.5	20.2	0.066	32	35.636	57.018	5.5	20.2	0.117
	Point 23C	11	28	30.400	48.640	4.5	19.2	0.108	16	17.144	27.430	4.0	18.7	0.052	33	35.359	56.574	4.0	18.7	0.108
	Point 24B	27	29	36.428	58.284	11.0	25.7	0.173	20	25.122	40.196	11.0	25.7	0.105	30	37.684	60.294	11.0	25.7	0.158
	Point 31A	11	29	31.073	49.717	4.0	18.7	0.107	18	19.287	30.859	4.0	18.7	0.059	32	34.287	54.860	4.0	18.7	0.104
	Point 32B	21	28	33.417	53.467	8.5	23.2	0.143	18	21.250	33.999	8.0	22.7	0.078	34	40.138	64.221	8.0	22.7	0.148
	Point 33B	21	29	29.364	46.983	2.0	16.7	0.090	22	21.599	34.559	1.0	15.7	0.055	32	32.402	51.843	2.0	16.7	0.088
Total Oxygen Injected Per Day (lb)			**43.137**						**25.354**						**41.901**					
		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	28	35.171	56.274	11.0	25.7	0.167	25	31.096	49.754	10.5	25.2	0.127	32	39.803	63.685	10.5	25.2	0.163
	Point 21A	16	28	31.944	51.111	6.5	21.2	0.125	26	29.662	47.460	6.5	21.2	0.102	33	37.648	60.237	6.5	21.2	0.130
	Point 23B	27	30	36.567	58.508	9.5	24.2	0.163	23	28.035	44.856	9.5	24.2	0.110	31	37.786	60.458	9.5	24.2	0.149
	Point 24A	16	30	34.226	54.761	6.5	21.2	0.134	22	25.099	40.158	6.5	21.2	0.086	31	35.367	56.587	6.5	21.2	0.122
	Point 25B	27	30	33.820	54.112	6.0	20.7	0.129	24	27.056	43.289	6.0	20.7	0.091	33	37.202	59.523	6.0	20.7	0.125
	Point 31B	33	32	41.352	66.164	12.5	27.2	0.208	26	33.288	53.262	12.0	26.7	0.144	32	40.970	65.553	12.0	26.7	0.178
	Point 32A	11	28	30.400	48.640	4.5	19.2	0.108	25	26.787	42.859	4.0	18.7	0.081	27	28.930	46.288	4.0	18.7	0.088
	Point 32C	33	28	36.514	58.423	13.0	27.7	0.187	31	40.427	64.682	13.0	27.7	0.182	28	36.514	58.423	13.0	27.7	0.165
	Point 33A	11	28	28.352	45.363	2.0	16.7	0.087	25	24.932	39.892	1.5	16.2	0.066	26	27.103	43.366	3.0	17.7	0.078
	Point 33C	33	28	27.924	44.679	1.5	16.2	0.083	24	23.935	38.296	1.5	16.2	0.063	30	30.377	48.603	2.0	16.7	0.083
Total Oxygen Injected Per Day (lb)			**44.508**						**33.717**						**40.971**					
OU-3 System Total Per Day (lb)			**151.69**						**94.24**						**135.61**					

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

Total Weight of Oxygen Injected through Q1 2020	949,819	lbs
Weight of Oxygen Injected through Q1 2020 (OU-1)	313,869	lbs
Weight of Oxygen Injected through Q1 2020 (OU-3)	635,950	lbs

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

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-20	30	3,249
Month 2	May-20	30	3,351
Month 3	Jun-20	26	3,023
Total Operational Days In Q2 2020			86
Total Oxygen in OU-1 in Q2 2020 (lbs)			9,623.03
Running Total for Oxygen to OU-1 Through Q2 2020 (lbs)			**323,492.03**

Oxygen to OU-3 (Community Road)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-20	30	4,276
Month 2	May-20	30	4,218
Month 3	Jun-20	26	3,691
Total Operational Days In Q2 2020			86
Total Oxygen in OU-3 in Q2 2020 (lbs)			12,184.08
Running Total for Oxygen to OU-3 Through Q2 2020 (lbs)			**648,134.08**

Running Total for Oxygen System (OU-1 and OU-3) Through Q2 2020 (lbs)	**971,626.11**

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.

Oxygen Going to OU-3 (Community Road)

			4/29/2020						5/8/2020						6/1/2020					
	O_2%		73.2						73.7						73.7					
	R		10.73						10.73						10.73					
	Temp R (T)		625						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*	25	35	40.861	52.302	7.5	22.2	0.127	33	38.090	48.755	7.0	21.7	0.117	27	31.164	39.890	7.0	21.7	0.095
	Point 1B*	35	30	38.048	48.702	11.5	26.2	0.139	30	38.048	48.702	11.5	26.2	0.141	32	40.196	51.451	11.0	25.7	0.145
	Point 2A*	25	29	34.235	43.821	8.0	22.7	0.109	29	34.235	43.821	8.0	22.7	0.110	32	37.359	47.819	7.5	22.2	0.116
	Point 2B*	35	29	37.475	47.969	12.5	27.2	0.142	30	38.768	49.623	12.5	27.2	0.150	32	41.352	52.931	12.5	27.2	0.158
	Point 3A*	25	29	33.085	42.349	6.5	21.2	0.098	28	31.944	40.888	6.5	21.2	0.096	32	36.074	46.175	6.0	20.7	0.105
	Point 3B*	35	28	36.514	46.738	13.0	27.7	0.141	30	39.122	50.077	13.0	27.7	0.154	32	41.352	52.931	12.5	27.2	0.158
	Point 4A*	25	29	34.610	44.301	8.5	23.2	0.112	29	34.610	44.301	8.5	23.2	0.114	31	36.997	47.357	8.5	23.2	0.120
	Point 4B*	35	30	39.122	50.077	13.0	27.7	0.151	30	39.122	50.077	13.0	27.7	0.154	32	41.352	52.931	12.5	27.2	0.158
	Point 5A*	25	29	34.981	44.776	9.0	23.7	0.116	29	34.981	44.776	9.0	23.7	0.118	31	36.997	47.357	8.5	23.2	0.120
	Point 5B*	35	29	37.818	48.408	13.0	27.7	0.146	29	37.818	48.408	13.0	27.7	0.149	31	40.060	51.277	12.5	27.2	0.153
Total Oxygen Injected Per Day (lb)			**41.027**						**41.653**						**42.475**					
		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	0.094	29	32.295	41.338	5.5	20.2	0.093	31	34.093	43.638	5.0	19.7	0.094
	Point 1B	25	31	36.597	46.844	8.0	22.7	0.116	28	33.055	42.310	8.0	22.7	0.106	33	38.958	49.866	8.0	22.7	0.124
	Point 2A	15	31	34.093	43.638	5.0	19.7	0.094	27	29.314	37.522	4.5	19.2	0.080	32	34.743	44.471	4.5	19.2	0.094
	Point 2B	25	30	35.804	45.829	8.5	23.2	0.116	30	35.416	45.332	8.0	22.7	0.114	31	36.597	46.844	8.0	22.7	0.116
	Point 3A	15	31	33.657	43.081	4.5	19.2	0.090	28	30.400	38.912	4.5	19.2	0.083	32	34.743	44.471	4.5	19.2	0.094
	Point 3B	25	30	36.943	47.287	10.0	24.7	0.127	29	35.348	45.246	9.5	24.2	0.121	30	36.567	46.806	9.5	24.2	0.124
	Point 4A	15	30	33.409	42.763	5.5	20.2	0.094	28	31.182	39.912	5.5	20.2	0.089	32	35.192	45.046	5.0	19.7	0.097
Total Oxygen Injected Per Day (lb)			**23.434**						**21.956**						**23.777**					
	Point 4B	25	23	28.035	44.856	9.5	24.2	0.118	26	31.692	50.707	9.5	24.2	0.136	26	31.692	50.707	9.5	24.2	0.134
	Point 5A	15	22	24.195	38.712	5.0	19.7	0.083	25	27.494	43.990	5.0	19.7	0.096	26	28.594	45.750	5.0	19.7	0.099
	Point 5B	25	23	27.744	44.390	9.0	23.7	0.115	25	30.156	48.250	9.0	23.7	0.127	27	32.569	52.110	9.0	23.7	0.135
Injection Bank 6	Point 6	25	22	26.816	42.906	9.5	24.2	0.113	25	30.473	48.757	9.5	24.2	0.131	27	32.911	52.657	9.5	24.2	0.140
	Point 7	25	23	28.035	44.856	9.5	24.2	0.118	26	31.692	50.707	9.5	24.2	0.136	27	32.911	52.657	9.5	24.2	0.140
	Point 12	15	37	41.204	65.927	5.5	20.2	0.145	41	45.659	73.054	5.5	20.2	0.163	43	47.886	76.618	5.5	20.2	0.170
	Point 11	25	39	47.538	76.060	9.5	24.2	0.201	40	48.250	77.200	9.0	23.7	0.203	42	51.194	81.911	9.5	24.2	0.217
	Point 15	25	38	45.838	73.340	9.0	23.7	0.190	40	48.250	77.200	9.0	23.7	0.203	41	49.975	79.961	9.5	24.2	0.212
	Point 14	15	37	41.204	65.927	5.5	20.2	0.145	40	43.429	69.486	4.5	19.2	0.148	43	46.686	74.697	4.5	19.2	0.157
	Point 16	16	37	40.691	65.106	5.0	19.7	0.140	42	46.190	73.904	5.0	19.7	0.161	42	46.190	73.904	5.0	19.7	0.159
Total Oxygen Injected Per Day (lb)			**43.831**						**48.104**						**50.013**					
OU-1 System Total Per Day (lb)			**108.29**						**111.71**						**116.26**					

			4/29/2020						5/8/2020						6/1/2020					
	O_2%		73.2						73.7						73.7					
	R		10.73						10.73						10.73					
	Temp R (T)		625						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 2	Point 16	21	30	29.919	38.296	1.5	16.2	0.068	29	28.921	37.019	1.5	16.2	0.066	31	31.390	40.179	2.0	16.7	0.074
	Point 17	21	30	36.188	46.320	9.0	23.7	0.120	32	38.600	49.408	9.0	23.7	0.130	34	41.013	52.496	9.0	23.7	0.136
	Point 29	21	31	36.597	46.844	8.0	22.7	0.116	29	34.235	43.821	8.0	22.7	0.110	31	36.191	46.325	7.5	22.2	0.113
Total Oxygen Injected Per Day (lb)			**9.716**						**9.804**						**10.319**					
		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	31	36.997	59.196	8.5	23.2	0.150	30	35.804	57.286	8.5	23.2	0.147	30	35.416	56.666	8.0	22.7	0.141
	Point 19A	16	31	35.367	56.587	6.5	21.2	0.131	30	33.820	54.112	6.0	20.7	0.124	29	32.692	52.308	6.0	20.7	0.119
	Point 19B	27	31	38.175	61.079	10.0	24.7	0.165	30	36.943	59.109	10.0	24.7	0.162	30	36.943	59.109	10.0	24.7	0.160
	Point 25A	16	36	44.778	71.645	10.5	25.2	0.197	32	39.803	63.685	10.5	25.2	0.178	28	34.828	55.724	10.5	25.2	0.154
	Point 26A	16	30	34.226	54.761	6.5	21.2	0.127	30	33.820	54.112	6.0	20.7	0.124	29	32.692	52.308	6.0	20.7	0.119
	Point 26B	27	35	43.964	70.343	11.0	25.7	0.197	31	38.559	61.695	10.5	25.2	0.172	26	32.340	51.744	10.5	25.2	0.143
	Point 27A	16	32	36.074	57.719	6.0	20.7	0.130	31	34.947	55.915	6.0	20.7	0.128	28	31.565	50.504	6.0	20.7	0.115
	Point 27B	27	32	40.196	64.313	11.0	25.7	0.180	29	36.428	58.284	11.0	25.7	0.166	28	35.512	56.819	11.5	26.2	0.163
	Point 28A	16	30	33.820	54.112	6.0	20.7	0.122	29	33.085	52.936	6.5	21.2	0.124	28	31.565	50.504	6.0	20.7	0.115
	Point 28B	27	30	37.684	60.294	11.0	25.7	0.169	30	37.684	60.294	11.0	25.7	0.172	30	37.684	60.294	11.0	25.7	0.170
Total Oxygen Injected Per Day (lb)			**50.203**						**47.915**						**44.692**					
		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	28	32.319	51.710	7.0	21.7	0.122	28	32.319	51.710	7.0	21.7	0.124	29	33.473	53.557	7.0	21.7	0.127
	Point 21B	27	29	36.071	57.714	10.5	25.2	0.159	30	37.315	59.704	10.5	25.2	0.167	30	37.315	59.704	10.5	25.2	0.165
	Point 22A	16	27	31.164	49.863	7.0	21.7	0.118	28	32.319	51.710	7.0	21.7	0.124	30	35.024	56.038	7.5	22.2	0.136
	Point 22B	27	28	35.512	56.819	11.5	26.2	0.162	28	35.512	56.819	11.5	26.2	0.165	31	38.940	62.304	11.0	25.7	0.175
	Point 23A	16	27	30.438	48.701	6.0	20.7	0.110	28	31.565	50.504	6.0	20.7	0.116	29	32.295	51.672	5.5	20.2	0.114
	Point 23C	11	26	28.229	45.166	4.5	19.2	0.095	27	29.314	46.903	4.5	19.2	0.100	30	32.571	52.114	4.5	19.2	0.110
	Point 24B	27	28	35.171	56.274	11.0	25.7	0.158	28	35.171	56.274	11.0	25.7	0.160	30	37.684	60.294	11.0	25.7	0.170
	Point 31A	11	27	29.314	46.903	4.5	19.2	0.098	28	30.400	48.640	4.5	19.2	0.103	30	32.145	51.431	4.0	18.7	0.105
	Point 32B	21	26	31.030	49.648	8.5	23.2	0.126	28	33.417	53.467	8.5	23.2	0.137	30	35.804	57.286	8.5	23.2	0.146
	Point 33B	21	26	25.930	41.487	1.5	16.2	0.073	28	27.924	44.679	1.5	16.2	0.080	30	29.919	47.870	1.5	16.2	0.085
Total Oxygen Injected Per Day (lb)			**39.096**						**40.867**						**42.670**					
		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	0.163	29	36.428	58.284	11.0	25.7	0.166	30	36.567	58.508	9.5	24.2	0.155
	Point 21A	16	29	33.085	52.936	6.5	21.2	0.122	29	33.085	52.936	6.5	21.2	0.124	29	31.893	51.029	5.0	19.7	0.110
	Point 23B	27	28	34.130	54.607	9.5	24.2	0.144	28	34.130	54.607	9.5	24.2	0.146	29	34.981	55.970	9.0	23.7	0.145
	Point 24A	16	28	31.944	51.111	6.5	21.2	0.118	29	33.085	52.936	6.5	21.2	0.124	30	36.188	57.900	9.0	23.7	0.150
	Point 25B	27	28	31.944	51.111	6.5	21.2	0.118	29	33.085	52.936	6.5	21.2	0.124	30	36.567	58.508	9.5	24.2	0.155
	Point 31B	33	36	46.521	74.434	12.5	27.2	0.221	27	34.891	55.826	12.5	27.2	0.168	35	38.977	62.363	5.5	20.2	0.138
	Point 32A	11	30	32.571	52.114	4.5	19.2	0.109	28	30.400	48.640	4.5	19.2	0.103	29	35.348	56.558	9.5	24.2	0.150
	Point 32C	33	30	39.122	62.596	13.0	27.7	0.189	29	37.818	60.509	13.0	27.7	0.186	32	38.600	61.760	9.0	23.7	0.160
	Point 33A	11	30	30.377	48.603	2.0	16.7	0.089	29	29.364	46.983	2.0	16.7	0.087	30	32.145	51.431	4.0	18.7	0.105
	Point 33C	33	30	29.919	47.870	1.5	16.2	0.085	29	28.921	46.274	1.5	16.2	0.083	30	32.993	52.788	5.0	19.7	0.114
Total Oxygen Injected Per Day (lb)			**43.504**						**42.005**						**44.273**					
OU-3 System Total Per Day (lb)			**142.52**						**140.59**						**141.95**					

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

Total Weight of Oxygen Injected through Q4 2019	926,379	lbs
Weight of Oxygen Injected through Q4 2019 (OU-1)	303,907	lbs
Weight of Oxygen Injected through Q4 2019 (OU-3)	622,472	lbs

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

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-20	31	3,296
Month 2	Feb-20	29	3,222
Month 3	Mar-20	31	3,444
Total Operational Days In Q1 2020			91
Total Oxygen in OU-1 in Q1 2020 (lbs)			9,962.52
Running Total for Oxygen to OU-1 Through Q1 2020 (lbs)			**313,869.52**

Oxygen to OU-3 (Community Road)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-20	31	4,201
Month 2	Feb-20	29	4,484
Month 3	Mar-20	31	4,793
Total Operational Days In Q1 2020			91
Total Oxygen in OU-3 in Q1 2020 (lbs)			13,478.88
Running Total for Oxygen to OU-3 Through Q1 2020 (lbs)			**635,950.88**

Running Total for Oxygen System (OU-1 and OU-3) Through Q1 2020 (lbs)	**949,820.40**

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.
* Readings for March 2020 taken from February 2020 due to COVID-19.

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.

		1/15/2020						2/5/2020						3/1/2020					
	O_2%	70.4						75.3						75.3					
	R	10.73						10.73						10.73					
	Temp R (T)	623						623						623					
		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	36	41.553	53.187	7.0	21.7	0.122	31	35.781	45.800	7.0	21.7	0.112	31	35.781	45.800	7.0	21.7	0.112
	Point 1B*	35	30	38.048	48.702	11.5	26.2	0.134	30	38.048	48.702	11.5	26.2	0.144	30	38.048	48.702	11.5	26.2	0.144
	Point 2A*	25	29	34.235	43.821	8.0	22.7	0.105	27	31.874	40.799	8.0	22.7	0.104	27	31.874	40.799	8.0	22.7	0.104
	Point 2B*	35	29	37.475	47.969	12.5	27.2	0.137	28	36.183	46.315	12.5	27.2	0.142	28	36.183	46.315	12.5	27.2	0.142
	Point 3A*	25	29	33.085	42.349	6.5	21.2	0.095	26	29.662	37.968	6.5	21.2	0.091	26	29.662	37.968	6.5	21.2	0.091
	Point 3B*	35	30	39.122	50.077	13.0	27.7	0.146	30	38.768	49.623	12.5	27.2	0.152	30	38.768	49.623	12.5	27.2	0.152
	Point 4A*	25	29	34.610	44.301	8.5	23.2	0.108	28	33.417	42.774	8.5	23.2	0.112	28	33.417	42.774	8.5	23.2	0.112
	Point 4B*	35	29	37.818	48.408	13.0	27.7	0.141	29	37.818	48.408	13.0	27.7	0.151	29	37.818	48.408	13.0	27.7	0.151
	Point 5A*	25	29	34.981	44.776	9.0	23.7	0.112	28	33.775	43.232	9.0	23.7	0.115	28	33.775	43.232	9.0	23.7	0.115
	Point 5B*	35	29	37.818	48.408	13.0	27.7	0.141	29	37.818	48.408	13.0	27.7	0.151	29	37.818	48.408	13.0	27.7	0.151
Total Oxygen Injected Per Day (lb)			**39.717**						**40.765**						**40.765**					
		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	0.091	29	32.295	41.338	5.5	20.2	0.094	29	32.295	41.338	5.5	20.2	0.094
	Point 1B	25	29	34.235	43.821	8.0	22.7	0.105	26	30.694	39.288	8.0	22.7	0.100	26	30.694	39.288	8.0	22.7	0.100
	Point 2A	15	29	31.486	40.302	4.5	19.2	0.081	28	30.400	38.912	4.5	19.2	0.084	28	30.400	38.912	4.5	19.2	0.084
	Point 2B	25	29	34.235	43.821	8.0	22.7	0.105	29	34.235	43.821	8.0	22.7	0.112	29	34.235	43.821	8.0	22.7	0.112
	Point 3A	15	28	30.400	38.912	4.5	19.2	0.079	28	30.400	38.912	4.5	19.2	0.084	28	30.400	38.912	4.5	19.2	0.084
	Point 3B	25	28	34.480	44.135	10.0	24.7	0.115	29	35.348	45.246	9.5	24.2	0.123	29	35.348	45.246	9.5	24.2	0.123
	Point 4A	15	28	30.793	39.415	5.0	19.7	0.082	28	30.793	39.415	5.0	19.7	0.087	28	30.793	39.415	5.0	19.7	0.087
Total Oxygen Injected Per Day (lb)			**21.032**						**21.942**						**21.942**					
	Point 4B	25	26	31.692	50.707	9.5	24.2	0.129	26	31.692	50.707	9.5	24.2	0.138	26	31.692	50.707	9.5	24.2	0.138
Injection Bank 6	Point 5A	15	26	28.594	45.750	5.0	19.7	0.095	25	27.494	43.990	5.0	19.7	0.098	25	27.494	43.990	5.0	19.7	0.098
	Point 5B	25	26	31.363	50.180	9.0	23.7	0.125	25	30.156	48.250	9.0	23.7	0.129	25	30.156	48.250	9.0	23.7	0.129
	Point 6	25	26	31.692	50.707	9.5	24.2	0.129	25	30.156	48.250	9.0	23.7	0.129	25	30.156	48.250	9.0	23.7	0.129
	Point 7	25	26	31.692	50.707	9.5	24.2	0.129	26	31.692	50.707	9.5	24.2	0.138	26	31.692	50.707	9.5	24.2	0.138
	Point 12	15	40	44.545	71.272	5.5	20.2	0.152	40	44.545	71.272	5.5	20.2	0.162	40	44.545	71.272	5.5	20.2	0.162
	Point 11	25	40	48.250	77.200	9.0	23.7	0.193	40	48.250	77.200	9.0	23.7	0.206	40	48.250	77.200	9.0	23.7	0.206
	Point 15	25	40	48.250	77.200	9.0	23.7	0.193	40	48.250	77.200	9.0	23.7	0.206	40	48.250	77.200	9.0	23.7	0.206
	Point 14	15	39	42.343	67.749	4.5	19.2	0.137	40	43.429	69.486	4.5	19.2	0.150	40	43.429	69.486	4.5	19.2	0.150
	Point 16	16	39	42.891	68.625	5.0	19.7	0.142	40	43.990	70.385	5.0	19.7	0.156	40	43.990	70.385	5.0	19.7	0.156
Total Oxygen Injected Per Day (lb)			**45.575**						**48.401**						**48.401**					
OU-1 System Total Per Day (lb)			**106.32**						**111.11**						**111.11**					

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	29	28.921	37.019	1.5	16.2	0.063	29	28.921	37.019	1.5	16.2	0.068	29	28.921	37.019	1.5	16.2	0.068
	Point 17	21	29	34.981	44.776	9.0	23.7	0.112	29	34.981	44.776	9.0	23.7	0.120	29	34.981	44.776	9.0	23.7	0.120
	Point 29	21	28	33.055	42.310	8.0	22.7	0.101	32	37.359	47.819	7.5	22.2	0.120	32	37.359	47.819	7.5	22.2	0.120
Total Oxygen Injected Per Day (lb)			**8.834**						**9.814**						**9.814**					
		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	28	33.055	52.888	8.0	22.7	0.126	30	35.416	56.666	8.0	22.7	0.145	30	35.416	56.666	8.0	22.7	0.145
	Point 19A	16	28	31.565	50.504	6.0	20.7	0.110	33	37.202	59.523	6.0	20.7	0.139	33	37.202	59.523	6.0	20.7	0.139
	Point 19B	27	28	34.480	55.169	10.0	24.7	0.144	30	36.943	59.109	10.0	24.7	0.164	30	36.943	59.109	10.0	24.7	0.164
	Point 25A	16	28	34.828	55.724	10.5	25.2	0.148	38	46.795	74.872	10.0	24.7	0.208	38	46.795	74.872	10.0	24.7	0.208
	Point 26A	16	28	31.565	50.504	6.0	20.7	0.110	31	34.947	55.915	6.0	20.7	0.130	31	34.947	55.915	6.0	20.7	0.130
	Point 26B	27	28	35.171	56.274	11.0	25.7	0.152	36	45.220	72.353	11.0	25.7	0.209	36	45.220	72.353	11.0	25.7	0.209
	Point 27A	16	29	32.692	52.308	6.0	20.7	0.114	34	38.329	61.327	6.0	20.7	0.143	34	38.329	61.327	6.0	20.7	0.143
	Point 27B	27	29	36.428	58.284	11.0	25.7	0.158	30	37.684	60.294	11.0	25.7	0.175	30	37.684	60.294	11.0	25.7	0.175
	Point 28A	16	28	31.565	50.504	6.0	20.7	0.110	30	33.820	54.112	6.0	20.7	0.126	30	33.820	54.112	6.0	20.7	0.126
	Point 28B	27	30	37.684	60.294	11.0	25.7	0.163	30	37.684	60.294	11.0	25.7	0.175	30	37.684	60.294	11.0	25.7	0.175
Total Oxygen Injected Per Day (lb)			**42.733**						**51.666**						**51.666**					
		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	34.627	55.403	7.0	21.7	0.127	30	34.627	55.403	7.0	21.7	0.135	30	34.627	55.403	7.0	21.7	0.135
	Point 21B	27	30	37.315	59.704	10.5	25.2	0.158	34	42.291	67.665	10.5	25.2	0.192	34	42.291	67.665	10.5	25.2	0.192
	Point 22A	16	30	34.627	55.403	7.0	21.7	0.127	30	34.627	55.403	7.0	21.7	0.135	30	34.627	55.403	7.0	21.7	0.135
	Point 22B	27	31	39.317	62.907	11.5	26.2	0.174	34	42.708	68.333	11.0	25.7	0.198	34	42.708	68.333	11.0	25.7	0.198
	Point 23A	16	30	33.820	54.112	6.0	20.7	0.118	30	33.820	54.112	6.0	20.7	0.126	30	33.820	54.112	6.0	20.7	0.126
	Point 23C	11	30	32.571	52.114	4.5	19.2	0.105	30	32.571	52.114	4.5	19.2	0.113	30	32.571	52.114	4.5	19.2	0.113
	Point 24B	27	30	37.684	60.294	11.0	25.7	0.163	33	41.452	66.323	11.0	25.7	0.192	33	41.452	66.323	11.0	25.7	0.192
	Point 31A	11	30	32.571	52.114	4.5	19.2	0.105	31	33.657	53.851	4.5	19.2	0.116	31	33.657	53.851	4.5	19.2	0.116
	Point 32B	21	31	36.997	59.196	8.5	23.2	0.145	31	36.997	59.196	8.5	23.2	0.155	31	36.997	59.196	8.5	23.2	0.155
	Point 33B	21	30	29.919	47.870	1.5	16.2	0.082	31	30.916	49.466	1.5	16.2	0.090	31	30.916	49.466	1.5	16.2	0.090
Total Oxygen Injected Per Day (lb)			**41.711**						**46.498**						**46.498**					
		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 5	Point 20B	27	30	37.684	60.294	11.0	25.7	0.163	31	38.940	62.304	11.0	25.7	0.180	31	38.940	62.304	11.0	25.7	0.180
	Point 21A	16	31	35.367	56.587	6.5	21.2	0.126	32	36.508	58.412	6.5	21.2	0.139	32	36.508	58.412	6.5	21.2	0.139
	Point 23B	27	30	36.567	58.508	9.5	24.2	0.149	32	39.005	62.408	9.5	24.2	0.170	32	39.005	62.408	9.5	24.2	0.170
	Point 24A	16	31	35.367	56.587	6.5	21.2	0.126	32	36.508	58.412	6.5	21.2	0.139	32	36.508	58.412	6.5	21.2	0.139
	Point 25B	27	30	33.820	54.112	6.0	20.7	0.118	31	34.947	55.915	6.0	20.7	0.130	31	34.947	55.915	6.0	20.7	0.130
	Point 31B	33	31	40.060	64.096	12.5	27.2	0.184	34	43.937	70.299	12.5	27.2	0.215	34	43.937	70.299	12.5	27.2	0.215
	Point 32A	11	30	32.145	51.431	4.0	18.7	0.101	30	32.145	51.431	4.0	18.7	0.108	30	32.145	51.431	4.0	18.7	0.108
	Point 32C	33	30	39.122	62.596	13.0	27.7	0.183	30	39.122	62.596	13.0	27.7	0.195	30	39.122	62.596	13.0	27.7	0.195
	Point 33A	11	31	31.390	50.223	2.0	16.7	0.088	30	30.377	48.603	2.0	16.7	0.091	30	30.377	48.603	2.0	16.7	0.091
	Point 33C	33	30	29.919	47.870	1.5	16.2	0.082	30	29.919	47.870	1.5	16.2	0.087	30	29.919	47.870	1.5	16.2	0.087
Total Oxygen Injected Per Day (lb)			**42.254**						**46.646**						**46.646**					
OU-3 System Total Per Day (lb)			**135.53**						**154.62**						**154.62**					

Appendix C. OU-1 Oxygen Injection System Operational Data
Table C-2. OU-1 60/66 N. Clinton OU-3 Community Road Fourth Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Total Weight of Oxygen Injected through Q3 2019	902,307	lbs
Weight of Oxygen Injected through Q3 2019 (OU-1)	293,680	lbs
Weight of Oxygen Injected through Q3 2019 (OU-3)	608,626	lbs

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

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-19	31	3,214
Month 2	Nov-19	30	3,389
Month 3	Dec-19	31	3,623
Total Operational Days In Q4 2019			92
Total Oxygen in OU-1 in Q4 2019 (lbs)			10,226.15
Running Total for Oxygen to OU-1 Through Q4 2019 (lbs)			**303,906.59**

Oxygen to OU-3 (Community Road)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-19	31	4,828
Month 2	Nov-19	30	4,527
Month 3	Dec-19	31	4,490
Total Operational Days In Q4 2019			92
Total Oxygen in OU-3 in Q4 2019 (lbs)			13,845.35
Running Total for Oxygen to OU-3 Through Q4 2019 (lbs)			**622,471.50**

Running Total for Oxygen System (OU-1 and OU-3) Through Q4 2019 (lbs)	**926,378.09**

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.

		10/15/2019						11/11/2019						12/10/2019					
O_2%		77.0						74.0						78.1					
R		10.73						10.73						10.73					
Temp R (T)		634						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*	25	43	49.057	62.793	6.5	21.2	0.151	28	32.319	41.368	7.0	21.7	0.100	32	37.359	47.819	7.5	22.2	0.123
	Point 1B*	35	33	41.452	53.059	11.0	25.7	0.154	25	31.403	40.196	11.0	25.7	0.115	28	35.512	45.455	11.5	26.2	0.138
	Point 2A*	25	34	39.694	50.808	7.5	22.2	0.128	23	26.852	34.370	7.5	22.2	0.085	27	31.874	40.799	8.0	22.7	0.108
	Point 2B*	35	33	42.251	54.081	12.0	26.7	0.163	21	27.137	34.736	12.5	27.2	0.105	28	36.183	46.315	12.5	27.2	0.146
	Point 3A*	25	34	38.329	49.061	6.0	20.7	0.115	22	24.801	31.746	6.0	20.7	0.073	28	31.944	40.888	6.5	21.2	0.101
	Point 3B*	35	31	40.060	51.277	12.5	27.2	0.158	28	36.183	46.315	12.5	27.2	0.140	29	37.818	48.408	13.0	27.7	0.156
	Point 4A*	25	33	38.958	49.866	8.0	22.7	0.128	25	29.837	38.191	8.5	23.2	0.099	29	34.610	44.301	8.5	23.2	0.119
	Point 4B*	35	32	41.352	52.931	12.5	27.2	0.163	26	33.906	43.400	13.0	27.7	0.134	28	36.514	46.738	13.0	27.7	0.150
	Point 5A*	25	31	36.997	47.357	8.5	23.2	0.124	25	30.156	38.600	9.0	23.7	0.102	28	33.775	43.232	9.0	23.7	0.119
	Point 5B*	35	32	41.352	52.931	12.5	27.2	0.163	27	35.210	45.069	13.0	27.7	0.139	29	37.818	48.408	13.0	27.7	0.156
Total Oxygen Injected Per Day (lb)			**46.315**						**34.908**						**42.104**					
		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	35	38.492	49.269	5.0	19.7	0.110	28	30.793	39.415	5.0	19.7	0.086	27	30.068	38.487	5.5	20.2	0.090
	Point 1B	25	39	45.531	58.280	7.5	22.2	0.146	32	37.359	47.819	7.5	22.2	0.118	25	29.513	37.777	8.0	22.7	0.100
	Point 2A	15	36	39.086	50.030	4.5	19.2	0.109	28	30.400	38.912	4.5	19.2	0.083	25	27.494	35.192	5.0	19.7	0.080
	Point 2B	25	34	39.694	50.808	7.5	22.2	0.128	29	34.235	43.821	8.0	22.7	0.111	27	32.223	41.246	8.5	23.2	0.111
	Point 3A	15	35	37.502	48.002	4.0	18.7	0.102	29	31.486	40.302	4.5	19.2	0.086	27	29.694	38.008	5.0	19.7	0.087
	Point 3B	25	33	39.806	50.952	9.0	23.7	0.137	28	34.130	43.686	9.5	24.2	0.118	27	33.249	42.559	10.0	24.7	0.122
	Point 4A	15	34	37.392	47.862	5.0	19.7	0.107	27	29.694	38.008	5.0	19.7	0.083	27	30.068	38.487	5.5	20.2	0.090
Total Oxygen Injected Per Day (lb)			**3.000**						**28.000**						**21.778**					
	Point 4B	25	30	36.188	57.900	9.0	23.7	0.155	26	31.692	50.707	9.5	24.2	0.136	26	31.692	50.707	9.5	24.2	0.142
Injection Bank 6	Point 5A	15	31	33.657	53.851	4.5	19.2	0.117	27	29.314	46.903	4.5	19.2	0.100	26	28.594	45.750	5.0	19.7	0.105
	Point 5B	25	30	35.804	57.286	8.5	23.2	0.150	28	33.775	54.040	9.0	23.7	0.142	27	32.569	52.110	9.0	23.7	0.143
	Point 6	25	30	36.188	57.900	9.0	23.7	0.155	27	32.569	52.110	9.0	23.7	0.137	27	32.911	52.657	9.5	24.2	0.148
	Point 7	25	30	36.188	57.900	9.0	23.7	0.155	26	31.363	50.180	9.0	23.7	0.132	27	32.911	52.657	9.5	24.2	0.148
	Point 12	15	45	49.489	79.183	5.0	19.7	0.177	42	46.772	74.836	5.5	20.2	0.168	43	47.886	76.618	5.5	20.2	0.180
	Point 11	25	44	53.075	84.920	9.0	23.7	0.228	43	51.869	82.990	9.0	23.7	0.219	42	51.194	81.911	9.5	24.2	0.230
	Point 15	25	44	53.075	84.920	9.0	23.7	0.228	42	51.194	81.911	9.5	24.2	0.220	41	49.975	79.961	9.5	24.2	0.225
	Point 14	15	46	49.288	78.861	4.0	18.7	0.167	41	43.931	70.289	4.0	18.7	0.146	43	46.686	74.697	4.5	19.2	0.166
	Point 16	16	44	47.771	76.434	4.5	19.2	0.166	42	46.190	73.904	5.0	19.7	0.162	42	46.190	73.904	5.0	19.7	0.169
Total Oxygen Injected Per Day (lb)			**54.356**						**50.060**						**52.999**					
OU-1 System Total Per Day (lb)			**103.67**						**112.97**						**116.88**					

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	36	37.528	48.036	3.0	17.7	0.096	28	28.352	36.290	2.0	16.7	0.067	28	28.352	36.290	2.0	16.7	0.070
	Point 17	21	33	39.384	50.412	8.5	23.2	0.132	30	36.188	46.320	9.0	23.7	0.122	27	32.569	41.688	9.0	23.7	0.115
	Point 29	21	34	39.694	50.808	7.5	22.2	0.128	30	35.024	44.830	7.5	22.2	0.111	29	34.235	43.821	8.0	22.7	0.115
Total Oxygen Injected Per Day (lb)			**11.401**						**9.607**						**9.617**					
		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	36	42.499	67.999	8.0	22.7	0.175	30	35.416	56.666	8.0	22.7	0.143	27	32.223	51.558	8.5	23.2	0.139
	Point 19A	16	36	40.584	64.934	6.0	20.7	0.152	36	40.584	64.934	6.0	20.7	0.150	28	31.944	51.111	6.5	21.2	0.126
	Point 19B	27	36	43.881	70.209	9.5	24.2	0.192	32	39.005	62.408	9.5	24.2	0.168	27	33.249	53.198	10.0	24.7	0.153
	Point 25A	16	36	44.332	70.931	10.0	24.7	0.198	40	43.990	70.385	5.0	19.7	0.154	30	37.315	59.704	10.5	25.2	0.175
	Point 26A	16	33	36.750	58.800	5.5	20.2	0.134	32	36.074	57.719	6.0	20.7	0.133	28	31.944	51.111	6.5	21.2	0.126
	Point 26B	27	34	42.291	67.665	10.5	25.2	0.193	39	45.015	72.024	7.0	21.7	0.174	29	36.428	58.284	11.0	25.7	0.174
	Point 27A	16	34	37.863	60.581	5.5	20.2	0.139	34	37.863	60.581	5.5	20.2	0.136	27	30.803	49.285	6.5	21.2	0.121
	Point 27B	27	34	42.291	67.665	10.5	25.2	0.193	31	38.940	62.304	11.0	25.7	0.178	27	33.915	54.264	11.0	25.7	0.162
	Point 28A	16	35	39.456	63.130	6.0	20.7	0.148	31	34.947	55.915	6.0	20.7	0.129	25	28.522	45.634	6.5	21.2	0.112
	Point 28B	27	32	39.803	63.685	10.5	25.2	0.182	32	40.196	64.313	11.0	25.7	0.184	28	35.512	56.819	11.5	26.2	0.173
Total Oxygen Injected Per Day (lb)			**54.592**						**49.549**						**46.714**					
		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 20A	16	32	36.936	59.097	7.0	21.7	0.145	33	38.090	60.944	7.0	21.7	0.147	28	32.319	51.710	7.0	21.7	0.130
	Point 21B	27	30	36.943	59.109	10.0	24.7	0.165	33	41.047	65.675	10.5	25.2	0.184	31	38.559	61.695	10.5	25.2	0.180
	Point 22A	16	31	35.367	56.587	6.5	21.2	0.136	31	35.367	56.587	6.5	21.2	0.133	28	32.319	51.710	7.0	21.7	0.130
	Point 22B	27	31	38.940	62.304	11.0	25.7	0.181	36	45.220	72.353	11.0	25.7	0.207	30	38.048	60.878	11.5	26.2	0.185
	Point 23A	16	30	33.409	53.454	5.5	20.2	0.122	31	34.523	55.236	5.5	20.2	0.124	28	31.565	50.504	6.0	20.7	0.121
	Point 23C	11	30	32.145	51.431	4.0	18.7	0.109	32	34.743	55.589	4.5	19.2	0.119	28	30.400	48.640	4.5	19.2	0.108
	Point 24B	27	30	37.684	60.294	11.0	25.7	0.175	32	40.196	64.313	11.0	25.7	0.184	26	32.975	52.761	11.5	26.2	0.160
	Point 31A	11	30	32.145	51.431	4.0	18.7	0.109	32	34.287	54.860	4.0	18.7	0.114	28	30.400	48.640	4.5	19.2	0.108
	Point 32B	21	30	35.416	56.666	8.0	22.7	0.146	32	37.777	60.443	8.0	22.7	0.153	28	33.417	53.467	8.5	23.2	0.144
	Point 33B	21	30	30.377	48.603	2.0	16.7	0.092	32	31.913	51.061	1.5	16.2	0.092	30	29.919	47.870	1.5	16.2	0.090
Total Oxygen Injected Per Day (lb)			**44.167**						**46.621**						**43.483**					
		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	32	39.803	63.685	10.5	25.2	0.182	32	39.803	63.685	10.5	25.2	0.179	30	37.684	60.294	11.0	25.7	0.180
	Point 21A	16	31	35.367	56.587	6.5	21.2	0.136	31	35.367	56.587	6.5	21.2	0.133	30	34.627	55.403	7.0	21.7	0.140
	Point 23B	27	31	37.394	59.830	9.0	23.7	0.160	31	37.786	60.458	9.5	24.2	0.163	28	34.480	55.169	10.0	24.7	0.158
	Point 24A	16	32	36.074	57.719	6.0	20.7	0.135	30	34.226	54.761	6.5	21.2	0.129	29	33.085	52.936	6.5	21.2	0.130
	Point 25B	27	31	34.947	55.915	6.0	20.7	0.131	31	34.947	55.915	6.0	20.7	0.129	28	31.944	51.111	6.5	21.2	0.126
	Point 31B	33	32	41.352	66.164	12.5	27.2	0.204	31	40.060	64.096	12.5	27.2	0.194	29	37.818	60.509	13.0	27.7	0.195
	Point 32A	11	29	31.073	49.717	4.0	18.7	0.105	30	32.145	51.431	4.0	18.7	0.107	28	30.400	48.640	4.5	19.2	0.108
	Point 32C	33	30	38.768	62.028	12.5	27.2	0.191	30	39.122	62.596	13.0	27.7	0.193	29	37.818	60.509	13.0	27.7	0.195
	Point 33A	11	29	29.364	46.983	2.0	16.7	0.089	31	31.390	50.223	2.0	16.7	0.093	28	28.352	45.363	2.0	16.7	0.088
	Point 33C	33	30	30.377	48.603	2.0	16.7	0.092	30	30.377	48.603	2.0	16.7	0.090	28	28.352	45.363	2.0	16.7	0.088
Total Oxygen Injected Per Day (lb)			**45.592**						**45.118**						**45.029**					
OU-3 System Total Per Day (lb)			**155.75**						**150.90**						**144.84**					

Appendix C. OU-1 Oxygen Injection System Operational Data
Table C-2. OU-1 60/66 N. Clinton OU-3 Community Road Third Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Total Weight of Oxygen Injected through Q2 2019	881,082	lbs
Weight of Oxygen Injected through Q2 2019 (OU-1)	284,798	lbs
Weight of Oxygen Injected through Q2 2019 (OU-3)	596,284	lbs

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

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-19	23	2,459
Month 2	Aug-19	27	3,297
Month 3	Sep-19	28	3,127
Total Operational Days In Q3 2019			78
Total Oxygen in OU-1 in Q3 2019 (lbs)			8,882.32
Running Total for Oxygen to OU-1 Through Q3 2019 (lbs)			**293,680.44**

Oxygen to OU-3 (Community Road)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-19	23	3,668
Month 2	Aug-19	27	4,529
Month 3	Sep-19	28	4,145
Total Operational Days In Q3 2019			78
Total Oxygen in OU-3 in Q3 2019 (lbs)			12,342.56
Running Total for Oxygen to OU-3 Through Q3 2019 (lbs)			**608,626.13**

Running Total for Oxygen System (OU-1 and OU-3) Through Q3 2019 (lbs)	**902,306.58**

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 (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.

		7/16/2019						8/28/2019						9/24/2019					
	O_2%	83.2						79.0						79.5					
	R	10.73						10.73						10.73					
	Temp R (T)	616						634						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*	25	23	26.547	33.981	7.0	21.7	0.093	32	36.936	47.278	7.0	21.7	0.119	27	30.803	39.428	6.5	21.2	0.098
	Point 1B*	35	24	30.439	38.962	11.5	26.2	0.128	30	37.684	48.235	11.0	25.7	0.144	28	35.171	45.019	11.0	25.7	0.135
	Point 2A*	25	21	24.517	31.381	7.5	22.2	0.088	32	37.359	47.819	7.5	22.2	0.123	28	32.689	41.842	7.5	22.2	0.109
	Point 2B*	35	22	28.430	36.390	12.5	27.2	0.125	31	39.690	50.803	12.0	26.7	0.158	29	37.129	47.526	12.0	26.7	0.148
	Point 3A*	25	19	21.419	27.417	6.0	20.7	0.071	32	36.074	46.175	6.0	20.7	0.111	28	31.565	40.403	6.0	20.7	0.098
	Point 3B*	35	24	31.014	39.698	12.5	27.2	0.136	32	41.352	52.931	12.5	27.2	0.167	30	38.410	49.165	12.0	26.7	0.153
	Point 4A*	25	21	25.063	32.080	8.5	23.2	0.094	30	35.804	45.829	8.5	23.2	0.123	30	35.416	45.332	8.0	22.7	0.120
	Point 4B*	35	25	32.602	41.731	13.0	27.7	0.146	30	38.768	49.623	12.5	27.2	0.157	29	37.475	47.969	12.5	27.2	0.152
	Point 5A*	25	25	29.837	38.191	8.5	23.2	0.112	30	35.804	45.829	8.5	23.2	0.123	29	34.610	44.301	8.5	23.2	0.120
	Point 5B*	35	26	33.599	43.006	12.5	27.2	0.147	31	40.060	51.277	12.5	27.2	0.162	29	37.475	47.969	12.5	27.2	0.152
Total Oxygen Injected Per Day (lb)			**36.445**						**44.408**						**41.159**					
		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	27	29.694	38.008	5.0	19.7	0.094	29	31.893	40.823	5.0	19.7	0.093	29	31.893	40.823	5.0	19.7	0.094
	Point 1B	25	26	30.694	39.288	8.0	22.7	0.112	30	35.024	44.830	7.5	22.2	0.116	28	32.689	41.842	7.5	22.2	0.109
	Point 2A	15	27	29.314	37.522	4.5	19.2	0.091	30	32.571	41.691	4.5	19.2	0.093	28	30.400	38.912	4.5	19.2	0.087
	Point 2B	25	28	33.055	42.310	8.0	22.7	0.121	30	35.416	45.332	8.0	22.7	0.120	30	35.024	44.830	7.5	22.2	0.116
	Point 3A	15	27	29.314	37.522	4.5	19.2	0.091	30	32.571	41.691	4.5	19.2	0.093	29	31.073	39.773	4.0	18.7	0.087
	Point 3B	25	28	34.130	43.686	9.5	24.2	0.133	30	36.567	46.806	9.5	24.2	0.132	30	36.188	46.320	9.0	23.7	0.128
	Point 4A	15	28	30.793	39.415	5.0	19.7	0.098	30	32.993	42.231	5.0	19.7	0.097	30	32.993	42.231	5.0	19.7	0.097
Total Oxygen Injected Per Day (lb)			**23.667**						**23.761**						**22.995**					
Injection Bank 6	Point 4B	25	21	25.597	40.955	9.5	24.2	0.125	28	34.130	54.607	9.5	24.2	0.153	25	30.156	48.250	9.0	23.7	0.134
	Point 5A	15	22	24.195	38.712	5.0	19.7	0.096	29	31.486	50.377	4.5	19.2	0.112	25	27.143	43.429	4.5	19.2	0.097
	Point 5B	25	22	26.538	42.460	9.0	23.7	0.127	30	36.188	57.900	9.0	23.7	0.159	25	30.156	48.250	9.0	23.7	0.134
	Point 6	25	20	24.378	39.005	9.5	24.2	0.119	29	34.981	55.970	9.0	23.7	0.154	24	28.950	46.320	9.0	23.7	0.128
	Point 7	25	22	26.538	42.460	9.0	23.7	0.127	28	33.775	54.040	9.0	23.7	0.149	26	31.363	50.180	9.0	23.7	0.139
	Point 12	15	36	39.591	63.346	5.0	19.7	0.157	44	48.389	77.423	5.0	19.7	0.177	35	38.492	61.587	5.0	19.7	0.142
	Point 11	25	34	41.443	66.309	9.5	24.2	0.202	43	51.869	82.990	9.0	23.7	0.228	38	45.838	73.340	9.0	23.7	0.203
	Point 15	25	35	42.662	68.259	9.5	24.2	0.208	42	50.663	81.060	9.0	23.7	0.223	40	48.250	77.200	9.0	23.7	0.214
	Point 14	15	35	38.000	60.800	4.5	19.2	0.147	44	47.145	75.432	4.0	18.7	0.164	39	41.788	66.861	4.0	18.7	0.146
	Point 16	16	37	40.171	64.274	4.5	19.2	0.155	41	45.090	72.144	5.0	19.7	0.165	38	41.257	66.011	4.5	19.2	0.148
Total Oxygen Injected Per Day (lb)			**46.790**						**53.933**						**47.518**					
OU-1 System Total Per Day (lb)			**106.90**						**122.10**						**111.67**					

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	27	28.541	36.532	3.5	18.2	0.084	32	36.508	46.730	6.5	21.2	0.115	31	38.559	49.356	10.5	25.2	0.145
	Point 17	21	28	33.417	42.774	8.5	23.2	0.125	31	36.997	47.357	8.5	23.2	0.128	30	33.820	43.289	6.0	20.7	0.105
	Point 29	21	27	31.521	40.347	7.5	22.2	0.113	30	35.024	44.830	7.5	22.2	0.116	30	37.315	47.764	10.5	25.2	0.141
Total Oxygen Injected Per Day (lb)			**10.283**						**11.463**						**12.503**					
		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	30	35.416	56.666	8.0	22.7	0.162	34	40.138	64.221	8.0	22.7	0.169	30	35.024	56.038	7.5	22.2	0.145
	Point 19A	16	30	33.820	54.112	6.0	20.7	0.141	34	38.329	61.327	6.0	20.7	0.147	30	33.820	54.112	6.0	20.7	0.131
	Point 19B	27	31	37.786	60.458	9.5	24.2	0.184	34	41.869	66.990	10.0	24.7	0.192	30	36.567	58.508	9.5	24.2	0.165
	Point 25A	16	30	37.315	59.704	10.5	25.2	0.189	35	43.100	68.961	10.0	24.7	0.198	32	39.406	63.050	10.0	24.7	0.182
	Point 26A	16	30	33.820	54.112	6.0	20.7	0.141	33	37.202	59.523	6.0	20.7	0.143	30	33.820	54.112	6.0	20.7	0.131
	Point 26B	27	31	38.559	61.695	10.5	25.2	0.196	32	39.803	63.685	10.5	25.2	0.186	31	38.559	61.695	10.5	25.2	0.182
	Point 27A	16	32	36.074	57.719	6.0	20.7	0.150	32	36.074	57.719	6.0	20.7	0.139	30	33.409	53.454	5.5	20.2	0.126
	Point 27B	27	32	39.803	63.685	10.5	25.2	0.202	32	40.196	64.313	11.0	25.7	0.192	30	37.315	59.704	10.5	25.2	0.176
	Point 28A	16	33	37.202	59.523	6.0	20.7	0.155	33	37.202	59.523	6.0	20.7	0.143	29	32.692	52.308	6.0	20.7	0.127
	Point 28B	27	32	40.196	64.313	11.0	25.7	0.208	31	38.940	62.304	11.0	25.7	0.186	30	37.315	59.704	10.5	25.2	0.176
Total Oxygen Injected Per Day (lb)			**55.319**						**54.267**						**49.303**					
		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	34.627	55.403	7.0	21.7	0.151	33	38.090	60.944	7.0	21.7	0.154	28	31.944	51.111	6.5	21.2	0.127
	Point 21B	27	29	35.712	57.139	10.0	24.7	0.178	34	42.291	67.665	10.5	25.2	0.198	32	39.406	63.050	10.0	24.7	0.182
	Point 22A	16	28	32.319	51.710	7.0	21.7	0.141	34	39.244	62.790	7.0	21.7	0.158	28	31.944	51.111	6.5	21.2	0.127
	Point 22B	27	28	35.171	56.274	11.0	25.7	0.182	35	43.964	70.343	11.0	25.7	0.210	31	38.940	62.304	11.0	25.7	0.187
	Point 23A	16	29	32.295	51.672	5.5	20.2	0.131	35	38.977	62.363	5.5	20.2	0.146	30	32.993	52.788	5.0	19.7	0.122
	Point 23C	11	29	31.486	50.377	4.5	19.2	0.122	36	39.086	62.537	4.5	19.2	0.139	27	28.930	46.288	4.0	18.7	0.101
	Point 24B	27	28	35.171	56.274	11.0	25.7	0.182	35	43.964	70.343	11.0	25.7	0.210	29	36.071	57.714	10.5	25.2	0.170
	Point 31A	11	28	30.002	48.002	4.0	18.7	0.113	35	37.502	60.003	4.0	18.7	0.130	30	32.145	51.431	4.0	18.7	0.112
	Point 32B	21	29	34.235	54.777	8.0	22.7	0.157	34	40.138	64.221	8.0	22.7	0.169	29	34.235	54.777	8.0	22.7	0.145
	Point 33B	21	28	27.924	44.679	1.5	16.2	0.091	31	31.390	50.223	2.0	16.7	0.097	30	30.377	48.603	2.0	16.7	0.095
Total Oxygen Injected Per Day (lb)			**46.339**						**51.598**						**43.763**					
		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
Injection Bank 5	Point 20B	27	27	33.915	54.264	11.0	25.7	0.176	32	39.803	63.685	10.5	25.2	0.186	29	36.071	57.714	10.5	25.2	0.170
	Point 21A	16	30	34.226	54.761	6.5	21.2	0.146	33	37.648	60.237	6.5	21.2	0.148	27	30.803	49.285	6.5	21.2	0.122
	Point 23B	27	29	35.348	56.558	9.5	24.2	0.172	32	39.005	62.408	9.5	24.2	0.175	28	34.130	54.607	9.5	24.2	0.154
	Point 24A	16	30	34.226	54.761	6.5	21.2	0.146	33	37.648	60.237	6.5	21.2	0.148	28	31.944	51.111	6.5	21.2	0.127
	Point 25B	27	24	27.056	43.289	6.0	20.7	0.113	33	37.202	59.523	6.0	20.7	0.143	28	31.565	50.504	6.0	20.7	0.122
	Point 31B	33	25	32.306	51.690	12.5	27.2	0.177	35	45.229	72.366	12.5	27.2	0.229	26	33.288	53.262	12.0	26.7	0.166
	Point 32A	11	27	28.930	46.288	4.0	18.7	0.109	30	32.145	51.431	4.0	18.7	0.112	27	28.930	46.288	4.0	18.7	0.101
	Point 32C	33	32	41.731	66.769	13.0	27.7	0.233	31	40.427	64.682	13.0	27.7	0.208	28	36.183	57.893	12.5	27.2	0.184
	Point 33A	11	30	30.828	49.325	2.5	17.2	0.107	32	32.402	51.843	2.0	16.7	0.101	28	28.352	45.363	2.0	16.7	0.089
	Point 33C	33	29	30.231	48.369	3.0	17.7	0.108	30	33.409	53.454	5.5	20.2	0.125	29	29.364	46.983	2.0	16.7	0.092
Total Oxygen Injected Per Day (lb)			**47.558**						**50.423**						**42.461**					
OU-3 System Total Per Day (lb)			**159.50**						**167.75**						**148.03**					

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

Weight of Oxygen Injected through Q2 2020 262,934 lbs

Oxygen to OU-1 North

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-20	31	2,177
Month 2	Aug-20	29	3,159
Month 3	Sep-20	30	3,887
Total Operational Days in Q3 2020			90
Total Oxygen in Q3 2020 (lbs)			9,223.23
Running Total for Oxygen to OU-1 North Through Q3 2020 (lbs)			**272,157.23**

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)

			7/21/2020						8/11/2020						9/2/2020					
		O_2%	88.3						88.2						94.8					
		R	10.73						10.73						10.73					
		Temp R (T)	636						638						623					
		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	19	18.949	16.422	1.5	16.2	0.034	33	32.911	28.523	1.5	16.2	0.060	31	30.916	26.794	1.5	16.2	0.062
	Point 1B	25.5	22	25.684	22.260	7.5	22.2	0.064	32	37.359	32.378	7.5	22.2	0.093	31	36.191	31.366	7.5	22.2	0.099
	Point 1C	40.5	24	32.134	27.850	14.5	29.2	0.105	31	41.507	35.972	14.5	29.2	0.135	30	40.168	34.812	14.5	29.2	0.144
	Point 1D	50.5	19	27.126	23.509	18.5	33.2	0.101	32	45.686	39.595	18.5	33.2	0.169	30	42.831	37.120	18.5	33.2	0.175
	Point 2A	10.5	10	9.500	8.233	0.0	14.7	0.016	10	9.500	8.233	0.0	14.7	0.016	10	9.500	8.233	0.0	14.7	0.017
	Point 2B	25.5	18	19.543	16.937	4.5	19.2	0.042	31	34.093	29.547	5.0	19.7	0.075	31	34.093	29.547	5.0	19.7	0.083
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**11.594**						**17.518**						**18.526**					
		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	18	24.101	20.887	14.5	29.2	0.079	28	37.490	32.491	14.5	29.2	0.122	25	33.473	29.010	14.5	29.2	0.120
	Point 2D	50.5	14	20.138	17.453	19.0	33.7	0.076	27	38.548	33.408	18.5	33.2	0.143	31	44.258	38.357	18.5	33.2	0.181
	Point 3A	10.5	10	9.500	8.233	0.0	14.7	0.016	10	9.500	8.233	0.0	14.7	0.016	12	11.400	9.880	0.0	14.7	0.021
	Point 3B	25.5	10	11.675	10.118	7.5	22.2	0.029	21	24.517	21.248	7.5	22.2	0.061	35	40.861	35.413	7.5	22.2	0.111
	Point 3C	40.5	18	23.893	20.708	14.0	28.7	0.077	26	34.513	29.911	14.0	28.7	0.111	31	41.150	35.663	14.0	28.7	0.145
	Point 3D	50.5	10	14.908	12.920	21.5	36.2	0.061	24	35.779	31.009	21.5	36.2	0.145	31	45.895	39.775	21.0	35.7	0.201
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**10.789**						**19.095**						**24.939**					
		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	26	27.103	23.490	3.0	17.7	0.054	27	28.541	24.735	3.5	18.2	0.058	31	32.769	28.400	3.5	18.2	0.073
	Point 4B	25.5	21	24.791	21.486	8.0	22.7	0.063	26	30.694	26.601	8.0	22.7	0.078	30	35.024	30.354	7.5	22.2	0.096
	Point 4C	40.5	24	31.858	27.610	14.0	28.7	0.103	23	30.530	26.460	14.0	28.7	0.098	35	46.459	40.265	14.0	28.7	0.164
	Point 4D	50.5	27	39.124	33.907	19.5	34.2	0.150	28	40.573	35.163	19.5	34.2	0.155	31	44.920	38.931	19.5	34.2	0.189
	Point 5A	10.5	10	9.500	8.233	0.0	14.7	0.016	10	9.500	8.233	0.0	14.7	0.016	19	18.050	15.643	0.0	14.7	0.033
	Point 5B	25.5	20	23.085	20.007	7.0	21.7	0.056	20	23.085	20.007	7.0	21.7	0.056	36	41.553	36.012	7.0	21.7	0.111
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**14.122**						**14.723**						**21.280**					
		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	0.074	30	40.850	35.403	15.5	30.2	0.138	31	42.211	36.583	15.5	30.2	0.157
	Point 5D	50.5	16	22.843	19.797	18.5	33.2	0.085	31	44.258	38.357	18.5	33.2	0.164	37	52.825	45.781	18.5	33.2	0.216
	Point 6A	10.5	25	25.314	21.939	2.0	16.7	0.047	32	32.402	28.082	2.0	16.7	0.060	30	30.377	26.327	2.0	16.7	0.062
	Point 6B	25.5	20	23.349	20.236	7.5	22.2	0.058	31	35.781	31.010	7.0	21.7	0.087	34	39.244	34.012	7.0	21.7	0.105
	Point 6C	40.5	17	22.566	19.557	14.0	28.7	0.073	31	41.150	35.663	14.0	28.7	0.132	32	42.477	36.814	14.0	28.7	0.150
	Point 6D	50.5	15	21.090	18.278	17.5	32.2	0.076	30	42.181	36.557	17.5	32.2	0.152	41	57.647	49.961	17.5	32.2	0.228
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**13.221**						**23.439**						**29.351**					
		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	9.500	8.233	0.0	14.7	0.016	10	9.500	8.233	0.0	14.7	0.016	10	9.500	8.233	0.0	14.7	0.017
	Point 7B	25.5	21	24.517	21.248	7.5	22.2	0.061	29	33.856	29.342	7.5	22.2	0.084	20	23.349	20.236	7.5	22.2	0.064
	Point 7C	40.5	21	28.595	24.782	15.5	30.2	0.097	28	37.810	32.768	15.0	29.7	0.125	30	40.510	35.109	15.0	29.7	0.148
	Point 7D	50.5	15	21.253	18.420	18.0	32.7	0.078	31	43.924	38.067	18.0	32.7	0.160	29	40.775	35.338	17.5	32.2	0.161
	Point 8A	10.5	25	26.061	22.586	3.0	17.7	0.052	29	30.231	26.200	3.0	17.7	0.060	27	28.541	24.735	3.5	18.2	0.064
	Point 8B	25.5	10	11.409	9.887	6.5	21.2	0.027	23	26.240	22.741	6.5	21.2	0.062	26	29.662	25.707	6.5	21.2	0.077
	Point 8C	40.5	17	22.169	19.213	13.0	27.7	0.069	32	41.731	36.167	13.0	27.7	0.129	29	37.818	32.776	13.0	27.7	0.129
	Point 8D	50.5	17	24.271	21.035	18.5	33.2	0.090	30	42.831	37.120	18.5	33.2	0.159	30	42.831	37.120	18.5	33.2	0.175
Total Oxygen Injected Per Day (lb)			**15.665**						**25.440**						**26.713**					
		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	0.016	17	16.150	13.997	0.0	14.7	0.027	10	9.500	8.233	0.0	14.7	0.017
	Point 9B	25.5	18	20.776	18.006	7.0	21.7	0.051	36	41.553	36.012	7.0	21.7	0.101	30	34.627	30.010	7.0	21.7	0.092
	Point 9C	40.5	21	27.386	23.734	13.0	27.7	0.085	36	46.947	40.687	13.0	27.7	0.145	36	47.369	41.053	13.5	28.2	0.164
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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Total Oxygen Injected Per Day (lb)			**4.841**						**8.717**						**8.758**					
System Total Per Day (lb)			**70.23**						**108.93**						**129.57**					

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

Weight of Oxygen Injected through Q1 2020 252,928 lbs

Oxygen to OU-1 North

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-20	30	3,440
Month 2	May-20	31	3,441
Month 3	Jun-20	30	3,124
Total Operational Days in Q2 2020			91
Total Oxygen in Q2 2020 (lbs)			10,005.68
Running Total for Oxygen to OU-1 North Through Q2 2020 (lbs)			**262,933.68**

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)

			4/27/2020						5/28/2020						6/30/2020					
		O_2%	87.8						89.4						91.4					
		R	10.73						10.73						10.73					
		Temp R (T)	629						632						640					
		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	31.390	27.204	2.0	16.7	0.059	29	28.921	25.065	1.5	16.2	0.054	26	25.930	22.472	1.5	16.2	0.048
	Point 1B	25.5	32	37.777	32.740	8.0	22.7	0.097	26	30.354	26.307	7.5	22.2	0.077	27	31.521	27.319	7.5	22.2	0.081
	Point 1C	40.5	28	37.810	32.768	15.0	29.7	0.127	30	40.168	34.812	14.5	29.2	0.134	28	37.490	32.491	14.5	29.2	0.126
	Point 1D	50.5	30	42.831	37.120	18.5	33.2	0.160	26	37.120	32.171	18.5	33.2	0.141	24	34.265	29.696	18.5	33.2	0.131
	Point 2A	10.5	12	11.968	10.372	1.5	16.2	0.022	10	9.818	8.509	1.0	15.7	0.018	10	9.818	8.509	1.0	15.7	0.018
	Point 2B	25.5	28	30.002	26.001	4.0	18.7	0.063	23	24.971	21.642	4.5	19.2	0.055	25	27.143	23.524	4.5	19.2	0.060
	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**16.890**						**15.287**						**14.866**					
		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	28	37.810	32.768	15.0	29.7	0.127	28	37.490	32.491	14.5	29.2	0.125	26	34.812	30.170	14.5	29.2	0.117
	Point 2D	50.5	28	40.275	34.905	19.0	33.7	0.153	28	40.275	34.905	19.0	33.7	0.155	26	37.120	32.171	18.5	33.2	0.142
	Point 3A	10.5	11	10.450	9.057	0.0	14.7	0.017	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	33	38.958	33.763	8.0	22.7	0.100	26	30.354	26.307	7.5	22.2	0.077	28	32.689	28.330	7.5	22.2	0.084
	Point 3C	40.5	30	40.168	34.812	14.5	29.2	0.132	28	37.168	32.212	14.0	28.7	0.122	29	38.495	33.362	14.0	28.7	0.127
	Point 3D	50.5	32	48.034	41.629	22.0	36.7	0.199	27	40.252	34.885	21.5	36.2	0.166	28	41.742	36.177	21.5	36.2	0.174
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**23.285**						**21.167**						**21.151**					
		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 3	Point 4A	10.5	31	32.769	28.400	3.5	18.2	0.067	32	33.826	29.316	3.5	18.2	0.070	30	31.273	27.103	3.0	17.7	0.064
	Point 4B	25.5	28	33.417	28.961	8.5	23.2	0.087	28	33.055	28.648	8.0	22.7	0.086	28	33.055	28.648	8.0	22.7	0.087
	Point 4C	40.5	30	40.168	34.812	14.5	29.2	0.132	26	34.812	30.170	14.5	29.2	0.116	34	45.132	39.114	14.0	28.7	0.149
	Point 4D	50.5	28	40.573	35.163	19.5	34.2	0.156	32	46.369	40.186	19.5	34.2	0.181	27	39.124	33.907	19.5	34.2	0.154
	Point 5A	10.5	12	11.968	10.372	1.5	16.2	0.022	13	12.763	11.061	1.0	15.7	0.023	10	9.500	8.233	0.0	14.7	0.016
	Point 5B	25.5	31	36.191	31.366	7.5	22.2	0.091	26	30.354	26.307	7.5	22.2	0.077	33	38.090	33.011	7.0	21.7	0.095
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**17.785**						**17.705**						**18.099**					
		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	25	34.322	29.746	16.0	30.7	0.119	28	38.126	33.043	15.5	30.2	0.132	32	43.573	37.763	15.5	30.2	0.152
	Point 5D	50.5	30	43.152	37.398	19.0	33.7	0.164	30	43.152	37.398	19.0	33.7	0.166	32	45.686	39.595	18.5	33.2	0.175
	Point 6A	10.5	27	27.746	24.046	2.5	17.2	0.054	27	27.746	24.046	2.5	17.2	0.055	32	32.402	28.082	2.0	16.7	0.062
	Point 6B	25.5	30	35.024	30.354	7.5	22.2	0.088	30	35.024	30.354	7.5	22.2	0.089	31	35.781	31.010	7.0	21.7	0.090
	Point 6C	40.5	28	37.490	32.491	14.5	29.2	0.123	30	40.168	34.812	14.5	29.2	0.134	26	34.513	29.911	14.0	28.7	0.114
	Point 6D	50.5	28	39.673	34.383	18.0	32.7	0.146	30	42.181	36.557	17.5	32.2	0.155	10	14.060	12.186	17.5	32.2	0.052
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**22.205**						**23.368**						**20.647**					
		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	9.973	8.643	1.5	16.2	0.018	10	9.818	8.509	1.0	15.7	0.018	10	9.500	8.233	0.0	14.7	0.016
	Point 7B	25.5	28	33.055	28.648	8.0	22.7	0.085	25	29.186	25.295	7.5	22.2	0.074	23	26.852	23.271	7.5	22.2	0.069
	Point 7C	40.5	32	43.573	37.763	15.5	30.2	0.148	30	40.850	35.403	15.5	30.2	0.141	29	39.160	33.939	15.0	29.7	0.134
	Point 7D	50.5	30	42.831	37.120	18.5	33.2	0.160	29	41.090	35.611	18.0	32.7	0.154	25	35.422	30.699	18.0	32.7	0.134
	Point 8A	10.5	29	30.655	26.568	3.5	18.2	0.063	32	33.826	29.316	3.5	18.2	0.070	30	31.273	27.103	3.0	17.7	0.064
	Point 8B	25.5	30	34.627	30.010	7.0	21.7	0.085	32	37.777	32.740	8.0	22.7	0.098	28	31.944	27.685	6.5	21.2	0.078
	Point 8C	40.5	30	39.474	34.211	13.5	28.2	0.126	30	39.122	33.906	13.0	27.7	0.124	26	33.906	29.385	13.0	27.7	0.108
	Point 8D	50.5	30	43.152	37.398	19.0	33.7	0.164	31	44.258	38.357	18.5	33.2	0.168	27	38.548	33.408	18.5	33.2	0.148
Total Oxygen Injected Per Day (lb)			**27.154**						**27.076**						**24.018**					
		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 6	Point 9A	10.5	10	9.500	8.233	0.0	14.7	0.016	10	9.500	8.233	0.0	14.7	0.016	10	9.500	8.233	0.0	14.7	0.016
	Point 9B	25.5	28	33.055	28.648	8.0	22.7	0.085	26	30.354	26.307	7.5	22.2	0.077	22	25.393	22.007	7.0	21.7	0.064
	Point 9C	40.5	31	40.790	35.351	13.5	28.2	0.130	26	33.906	29.385	13.0	27.7	0.107	21	27.386	23.734	13.0	27.7	0.088
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**7.361**						**6.408**						**5.350**					
System Total Per Day (lb)			**114.68**						**111.01**						**104.13**					

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

Weight of Oxygen Injected through Q4 2019 243,105 lbs

Oxygen to OU-1 North

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-20	31	3,209
Month 2	Feb-20	29	3,290
Month 3	Mar-20	31	3,325
Total Operational Days in Q1 2020			91
Total Oxygen in Q1 2020 (lbs)			9,823.38
Running Total for Oxygen to OU-1 North Through Q1 2020 (lbs)			**252,928.38**

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)

			1/14/2020						2/3/2020						3/3/2020					
	O_2%		84.0						91.1						90.3					
	R		10.73						10.73						10.73					
	Temp R (T)		629						625						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	10.5	32	32.402	28.082	2.0	16.7	0.058	28	27.924	24.201	1.5	16.2	0.053	20	19.946	17.286	1.5	16.2	0.038
	Point 1B	25.5	30	35.024	30.354	7.5	22.2	0.084	26	30.354	26.307	7.5	22.2	0.079	20	23.349	20.236	7.5	22.2	0.060
	Point 1C	40.5	28	37.490	32.491	14.5	29.2	0.118	28	37.490	32.491	14.5	29.2	0.129	30	40.168	34.812	14.5	29.2	0.137
	Point 1D	50.5	31	44.258	38.357	18.5	33.2	0.158	28	39.975	34.645	18.5	33.2	0.156	23	32.837	28.459	18.5	33.2	0.127
	Point 2A	10.5	11	10.800	9.360	1.0	15.7	0.018	10	9.818	8.509	1.0	15.7	0.018	10	9.818	8.509	1.0	15.7	0.018
	Point 2B	25.5	31	34.093	29.547	5.0	19.7	0.072	25	26.427	22.903	3.5	18.2	0.057	20	21.714	18.819	4.5	19.2	0.049
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**16.305**						**15.760**						**13.726**					
		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	0.131	28	37.810	32.768	15.0	29.7	0.132	24	32.134	27.850	14.5	29.2	0.109
	Point 2D	50.5	32	46.029	39.892	19.0	33.7	0.167	29	41.714	36.152	19.0	33.7	0.166	26	37.398	32.412	19.0	33.7	0.147
	Point 3A	10.5	10	9.500	8.233	0.0	14.7	0.015	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	25	29.513	25.578	8.0	22.7	0.072	27	31.521	27.319	7.5	22.2	0.082	20	23.611	20.463	8.0	22.7	0.063
	Point 3C	40.5	30	40.168	34.812	14.5	29.2	0.127	28	37.490	32.491	14.5	29.2	0.129	28	37.490	32.491	14.5	29.2	0.128
	Point 3D	50.5	29	43.233	37.469	21.5	36.2	0.169	27	40.529	35.125	22.0	36.7	0.175	24	35.779	31.009	21.5	36.2	0.151
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**21.783**						**22.417**						**19.658**					
		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	30.655	26.568	3.5	18.2	0.060	28	29.598	25.651	3.5	18.2	0.063	28	29.598	25.651	3.5	18.2	0.063
	Point 4B	25.5	26	31.030	26.893	8.5	23.2	0.078	27	31.874	27.624	8.0	22.7	0.085	26	31.030	26.893	8.5	23.2	0.084
	Point 4C	40.5	21	28.117	24.368	14.5	29.2	0.089	28	37.490	32.491	14.5	29.2	0.129	26	34.812	30.170	14.5	29.2	0.119
	Point 4D	50.5	28	40.573	35.163	19.5	34.2	0.150	29	42.022	36.419	19.5	34.2	0.169	29	42.022	36.419	19.5	34.2	0.168
	Point 5A	10.5	10	9.818	8.509	1.0	15.7	0.017	10	9.818	8.509	1.0	15.7	0.018	11	10.800	9.360	1.0	15.7	0.020
	Point 5B	25.5	20	23.349	20.236	7.5	22.2	0.056	25	29.186	25.295	7.5	22.2	0.076	26	30.354	26.307	7.5	22.2	0.079
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**14.355**						**17.316**						**17.012**					
		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	25	34.041	29.503	15.5	30.2	0.111	26	35.695	30.936	16.0	30.7	0.129	26	35.695	30.936	16.0	30.7	0.128
	Point 5D	50.5	27	38.837	33.659	19.0	33.7	0.141	27	38.837	33.659	19.0	33.7	0.154	28	40.275	34.905	19.0	33.7	0.158
	Point 6A	10.5	27	27.746	24.046	2.5	17.2	0.051	26	26.718	23.156	2.5	17.2	0.054	27	27.746	24.046	2.5	17.2	0.056
	Point 6B	25.5	26	30.354	26.307	7.5	22.2	0.073	26	30.354	26.307	7.5	22.2	0.079	28	32.689	28.330	7.5	22.2	0.085
	Point 6C	40.5	28	37.490	32.491	14.5	29.2	0.118	28	37.490	32.491	14.5	29.2	0.129	27	36.151	31.331	14.5	29.2	0.123
	Point 6D	50.5	26	36.557	31.682	17.5	32.2	0.127	27	37.963	32.901	17.5	32.2	0.144	24	33.745	29.245	17.5	32.2	0.127
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**19.881**						**22.059**						**21.652**					
		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	9.818	8.509	1.0	15.7	0.017	10	9.818	8.509	1.0	15.7	0.018	10	9.818	8.509	1.0	15.7	0.018
	Point 7B	25.5	26	30.694	26.601	8.0	22.7	0.075	28	32.689	28.330	7.5	22.2	0.085	26	30.354	26.307	7.5	22.2	0.079
	Point 7C	40.5	30	40.850	35.403	15.5	30.2	0.133	31	42.211	36.583	15.5	30.2	0.150	30	40.850	35.403	15.5	30.2	0.144
	Point 7D	50.5	30	42.831	37.120	18.5	33.2	0.153	31	44.258	38.357	18.5	33.2	0.173	30	42.831	37.120	18.5	33.2	0.166
	Point 8A	10.5	29	30.655	26.568	3.5	18.2	0.060	30	31.712	27.484	3.5	18.2	0.068	30	31.712	27.484	3.5	18.2	0.067
	Point 8B	25.5	30	34.627	30.010	7.0	21.7	0.081	30	34.627	30.010	7.0	21.7	0.088	30	34.627	30.010	7.0	21.7	0.088
	Point 8C	40.5	30	39.474	34.211	13.5	28.2	0.120	29	38.158	33.070	13.5	28.2	0.127	29	38.158	33.070	13.5	28.2	0.126
	Point 8D	50.5	30	43.152	37.398	19.0	33.7	0.157	30	43.152	37.398	19.0	33.7	0.171	34	48.541	42.069	18.5	33.2	0.188
Total Oxygen Injected Per Day (lb)			**25.485**						**28.191**						**28.007**					
		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	0.015	12	11.400	9.880	0.0	14.7	0.020	10	9.500	8.233	0.0	14.7	0.016
	Point 9B	25.5	24	28.019	24.283	7.5	22.2	0.067	28	32.689	28.330	7.5	22.2	0.085	26	30.354	26.307	7.5	22.2	0.079
	Point 9C	40.5	24	31.579	27.369	13.5	28.2	0.096	31	40.790	35.351	13.5	28.2	0.135	30	39.474	34.211	13.5	28.2	0.130
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**5.703**						**7.699**						**7.195**					
System Total Per Day (lb)			**103.51**						**113.44**						**107.25**					

Appendix C. OU-1 Oxygen Injection System Operational Data
Table C-3. OU-1 North Fourth Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2019 231,828 lbs

Oxygen to OU-1 North

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-19	31	3,873
Month 2	Nov-19	30	3,515
Month 3	Dec-19	31	3,889
Total Operational Days in Q4 2019			92
Total Oxygen in Q4 2019 (lbs)			11,276.81
Running Total for Oxygen to OU-1 North Through Q4 2019 (lbs)			**243,104.51**

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 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)

			10/9/2019						11/5/2019						12/3/2019					
		O_2%	92.6						92.2						85.6					
		R	10.73						10.73						10.73					
		Temp R (T)	636						636						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
Injection Bank 1	Point 1A	10.5	32	31.913	27.658	1.5	16.2	0.061	26	26.327	22.816	2.0	16.7	0.051	31	31.390	27.204	2.0	16.7	0.059
	Point 1B	25.5	37	42.707	37.013	7.0	21.7	0.109	26	30.694	26.601	8.0	22.7	0.082	31	36.191	31.366	7.5	22.2	0.091
	Point 1C	40.5	28	37.168	32.212	14.0	28.7	0.125	27	36.151	31.331	14.5	29.2	0.124	29	38.829	33.652	14.5	29.2	0.128
	Point 1D	50.5	34	48.175	41.751	18.0	32.7	0.185	28	39.975	34.645	18.5	33.2	0.155	33	47.114	40.832	18.5	33.2	0.176
	Point 2A	10.5	11	10.450	9.057	0.0	14.7	0.018	10	9.818	8.509	1.0	15.7	0.018	12	11.592	10.047	0.5	15.2	0.020
	Point 2B	25.5	39	41.788	36.216	4.0	18.7	0.092	25	27.143	23.524	4.5	19.2	0.061	31	33.216	28.787	4.0	18.7	0.070
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**18.894**						**15.716**						**17.407**					
		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	30	39.822	34.513	14.0	28.7	0.134	30	40.168	34.812	14.5	29.2	0.137	31	41.507	35.972	14.5	29.2	0.137
	Point 2D	50.5	33	47.114	40.832	18.5	33.2	0.184	30	43.152	37.398	19.0	33.7	0.170	30	43.152	37.398	19.0	33.7	0.164
	Point 3A	10.5	20	19.000	16.467	0.0	14.7	0.033	10	9.500	8.233	0.0	14.7	0.016	12	11.592	10.047	0.5	15.2	0.020
	Point 3B	25.5	38	44.363	38.448	7.5	22.2	0.116	28	32.689	28.330	7.5	22.2	0.085	39	46.041	39.902	8.0	22.7	0.118
	Point 3C	40.5	32	42.477	36.814	14.0	28.7	0.143	30	40.168	34.812	14.5	29.2	0.137	30	40.168	34.812	14.5	29.2	0.132
	Point 3D	50.5	36	53.297	46.191	21.0	35.7	0.224	28	41.742	36.177	21.5	36.2	0.177	30	44.724	38.761	21.5	36.2	0.183
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**26.692**						**23.143**						**24.108**					
		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	30	31.712	27.484	3.5	18.2	0.068	31	33.216	28.787	4.0	18.7	0.073	37	39.111	33.896	3.5	18.2	0.080
	Point 4B	25.5	28	32.689	28.330	7.5	22.2	0.085	26	30.694	26.601	8.0	22.7	0.082	31	36.597	31.717	8.0	22.7	0.094
	Point 4C	40.5	32	42.477	36.814	14.0	28.7	0.143	29	38.829	33.652	14.5	29.2	0.133	40	53.096	46.017	14.0	28.7	0.172
	Point 4D	50.5	28	40.275	34.905	19.0	33.7	0.160	29	42.022	36.419	19.5	34.2	0.168	31	44.920	38.931	19.5	34.2	0.173
	Point 5A	10.5	42	39.900	34.580	0.0	14.7	0.069	25	24.545	21.272	1.0	15.7	0.045	12	11.592	10.047	0.5	15.2	0.020
	Point 5B	25.5	39	45.015	39.013	7.0	21.7	0.115	30	35.024	30.354	7.5	22.2	0.091	40	46.698	40.472	7.5	22.2	0.117
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**20.481**						**18.928**						**20.990**					
		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	28	38.126	33.043	15.5	30.2	0.135	26	35.403	30.683	15.5	30.2	0.125	30	40.850	35.403	15.5	30.2	0.139
	Point 5D	50.5	31	44.258	38.357	18.5	33.2	0.173	33	47.467	41.138	19.0	33.7	0.187	32	46.029	39.892	19.0	33.7	0.175
	Point 6A	10.5	30	30.377	26.327	2.0	16.7	0.060	31	31.856	27.609	2.5	17.2	0.064	31	31.856	27.609	2.5	17.2	0.062
	Point 6B	25.5	30	34.627	30.010	7.0	21.7	0.088	30	35.024	30.354	7.5	22.2	0.091	33	38.526	33.389	7.5	22.2	0.096
	Point 6C	40.5	30	39.822	34.513	14.0	28.7	0.134	30	40.168	34.812	14.5	29.2	0.137	31	41.507	35.972	14.5	29.2	0.137
	Point 6D	50.5	29	40.457	35.063	17.0	31.7	0.151	30	42.181	36.557	17.5	32.2	0.159	32	44.993	38.994	17.5	32.2	0.163
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**23.726**						**24.450**						**24.719**					
		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	9.500	8.233	0.0	14.7	0.016	10	9.500	8.233	0.0	14.7	0.016	12	11.592	10.047	0.5	15.2	0.020
	Point 7B	25.5	34	39.694	34.401	7.5	22.2	0.104	30	35.024	30.354	7.5	22.2	0.091	32	37.777	32.740	8.0	22.7	0.097
	Point 7C	40.5	30	40.510	35.109	15.0	29.7	0.141	30	40.850	35.403	15.5	30.2	0.144	31	42.211	36.583	15.5	30.2	0.144
	Point 7D	50.5	34	47.805	41.431	17.5	32.2	0.181	30	42.831	37.120	18.5	33.2	0.167	35	49.591	42.979	18.0	32.7	0.183
	Point 8A	10.5	30	30.828	26.718	2.5	17.2	0.062	30	31.273	27.103	3.0	17.7	0.065	30	31.712	27.484	3.5	18.2	0.065
	Point 8B	25.5	31	35.367	30.651	6.5	21.2	0.088	30	34.627	30.010	7.0	21.7	0.088	30	34.627	30.010	7.0	21.7	0.085
	Point 8C	40.5	31	40.427	35.036	13.0	27.7	0.132	30	39.474	34.211	13.5	28.2	0.130	31	40.790	35.351	13.5	28.2	0.130
	Point 8D	50.5	30	42.831	37.120	18.5	33.2	0.167	31	44.258	38.357	18.5	33.2	0.172	31	44.258	38.357	18.5	33.2	0.166
Total Oxygen Injected Per Day (lb)			**28.544**						**27.953**						**28.435**					
		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 9A	10.5	10	9.500	8.233	0.0	14.7	0.016	10	9.500	8.233	0.0	14.7	0.016	21	19.950	17.290	0.0	14.7	0.033
	Point 9B	25.5	24	27.702	24.008	7.0	21.7	0.071	26	30.354	26.307	7.5	22.2	0.079	39	45.531	39.460	7.5	22.2	0.114
	Point 9C	40.5	28	36.514	31.646	13.0	27.7	0.119	29	37.818	32.776	13.0	27.7	0.123	39	50.859	44.078	13.0	27.7	0.159
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**6.594**						**6.973**						**9.791**					
System Total Per Day (lb)			**124.93**						**117.16**						**125.45**					

Appendix C. OU-1 Oxygen Injection System Operational Data
Table C-3. OU-1 North Third Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2019 222,053 lbs

Oxygen to OU-1 North

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-19	30	2,512
Month 2	Aug-19	30	3,760
Month 3	Sep-19	30	3,502
Total Operational Days in Q3 2019			90
Total Oxygen in Q3 2019 (lbs)			9,774.39
Running Total for Oxygen to OU-1 North Through Q3 2019 (lbs)			**231,827.70**

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)

			7/2/2019						8/7/2019						9/3/2019					
	O_2%		77.8						87.5						88.5					
	R		10.73						10.73						10.73					
	Temp R (T)		632						650						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 1A	10.5	22	22.276	19.306	2.0	16.7	0.037	29	28.921	25.065	1.5	16.2	0.051	25	24.932	21.608	1.5	16.2	0.045
	Point 1B	25.5	27	32.223	27.927	8.5	23.2	0.074	36	42.029	36.425	7.5	22.2	0.101	29	33.856	29.342	7.5	22.2	0.084
	Point 1C	40.5	26	34.812	30.170	14.5	29.2	0.101	28	37.490	32.491	14.5	29.2	0.119	25	33.473	29.010	14.5	29.2	0.110
	Point 1D	50.5	26	37.120	32.171	18.5	33.2	0.123	33	46.758	40.523	18.0	32.7	0.166	26	37.120	32.171	18.5	33.2	0.138
	Point 2A	10.5	10	9.973	8.643	1.5	16.2	0.016	11	10.800	9.360	1.0	15.7	0.018	10	9.500	8.233	0.0	14.7	0.016
	Point 2B	25.5	34	36.430	31.573	4.0	18.7	0.068	35	37.502	32.502	4.0	18.7	0.076	36	39.086	33.874	4.5	19.2	0.084
	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**13.399**						**17.035**						**15.257**					
		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	24	32.408	28.087	15.0	29.7	0.096	29	39.160	33.939	15.0	29.7	0.126	25	33.473	29.010	14.5	29.2	0.110
	Point 2D	50.5	27	38.837	33.659	19.0	33.7	0.130	30	42.831	37.120	18.5	33.2	0.155	28	39.975	34.645	18.5	33.2	0.149
	Point 3A	10.5	10	9.500	8.233	0.0	14.7	0.014	16	15.200	13.173	0.0	14.7	0.024	12	11.400	9.880	0.0	14.7	0.019
	Point 3B	25.5	29	34.235	29.671	8.0	22.7	0.077	38	44.363	38.448	7.5	22.2	0.107	30	35.024	30.354	7.5	22.2	0.087
	Point 3C	40.5	26	34.812	30.170	14.5	29.2	0.101	31	41.150	35.663	14.0	28.7	0.128	29	38.495	33.362	14.0	28.7	0.124
	Point 3D	50.5	28	41.742	36.177	21.5	36.2	0.150	33	49.196	42.637	21.5	36.2	0.194	30	44.724	38.761	21.5	36.2	0.181
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**18.186**						**23.504**						**21.417**					
		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 3	Point 4A	10.5	21	22.198	19.239	3.5	18.2	0.040	29	31.073	26.930	4.0	18.7	0.063	31	32.769	28.400	3.5	18.2	0.067
	Point 4B	25.5	24	28.643	24.824	8.5	23.2	0.066	28	33.055	28.648	8.0	22.7	0.082	30	35.416	30.694	8.0	22.7	0.090
	Point 4C	40.5	24	32.134	27.850	14.5	29.2	0.093	37	49.540	42.935	14.5	29.2	0.157	38	50.442	43.716	14.0	28.7	0.162
	Point 4D	50.5	28	40.868	35.419	20.0	34.7	0.141	33	47.818	41.442	19.5	34.2	0.178	31	44.920	38.931	19.5	34.2	0.172
	Point 5A	10.5	10	9.818	8.509	1.0	15.7	0.015	15	14.250	12.350	0.0	14.7	0.023	11	10.450	9.057	0.0	14.7	0.017
	Point 5B	25.5	24	28.019	24.283	7.5	22.2	0.062	39	45.015	39.013	7.0	21.7	0.106	38	43.861	38.013	7.0	21.7	0.107
	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**13.367**						**19.483**						**19.682**					
		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	21	28.831	24.987	16.0	30.7	0.088	36	49.020	42.484	15.5	30.2	0.161	35	47.658	41.304	15.5	30.2	0.161
	Point 5D	50.5	24	34.777	30.140	19.5	34.2	0.118	37	53.221	46.125	19.0	33.7	0.195	32	45.686	39.595	18.5	33.2	0.170
	Point 6A	10.5	21	21.580	18.703	2.5	17.2	0.037	29	29.801	25.827	2.5	17.2	0.056	30	30.377	26.327	2.0	16.7	0.057
	Point 6B	25.5	21	24.517	21.248	7.5	22.2	0.054	40	46.698	40.472	7.5	22.2	0.113	29	33.856	29.342	7.5	22.2	0.084
	Point 6C	40.5	20	26.779	23.208	14.5	29.2	0.078	33	44.185	38.293	14.5	29.2	0.140	29	38.495	33.362	14.0	28.7	0.124
	Point 6D	50.5	26	36.839	31.927	18.0	32.7	0.120	34	47.805	41.431	17.5	32.2	0.167	30	42.181	36.557	17.5	32.2	0.152
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**15.834**						**26.626**						**23.943**					
		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	9.500	8.233	0.0	14.7	0.014	13	12.763	11.061	1.0	15.7	0.022	12	11.400	9.880	0.0	14.7	0.019
	Point 7B	25.5	20	23.611	20.463	8.0	22.7	0.053	27	31.521	27.319	7.5	22.2	0.076	36	42.029	36.425	7.5	22.2	0.105
	Point 7C	40.5	28	38.126	33.043	15.5	30.2	0.114	30	40.850	35.403	15.5	30.2	0.134	32	43.211	37.449	15.0	29.7	0.144
	Point 7D	50.5	22	31.409	27.221	18.5	33.2	0.104	37	52.425	45.435	18.0	32.7	0.186	34	48.175	41.751	18.0	32.7	0.176
	Point 8A	10.5	23	23.976	20.779	3.0	17.7	0.042	31	31.856	27.609	2.5	17.2	0.060	32	32.884	28.499	2.5	17.2	0.063
	Point 8B	25.5	24	27.702	24.008	7.0	21.7	0.060	29	33.473	29.010	7.0	21.7	0.079	31	35.367	30.651	6.5	21.2	0.084
	Point 8C	40.5	11	14.474	12.544	13.5	28.2	0.041	27	35.527	30.790	13.5	28.2	0.109	31	40.427	35.036	13.0	27.7	0.125
	Point 8D	50.5	26	37.398	32.412	19.0	33.7	0.125	47	67.101	58.155	18.5	33.2	0.242	32	45.686	39.595	18.5	33.2	0.170
Total Oxygen Injected Per Day (lb)			**17.703**						**29.060**						**28.364**					
		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	30	28.500	24.700	0.0	14.7	0.042	21	19.950	17.290	0.0	14.7	0.032	14	13.300	11.527	0.0	14.7	0.022
	Point 9B	25.5	19	22.182	19.224	7.5	22.2	0.049	38	43.861	38.013	7.0	21.7	0.103	33	38.090	33.011	7.0	21.7	0.093
	Point 9C	40.5	20	26.316	22.807	13.5	28.2	0.074	41	53.948	46.755	13.5	28.2	0.165	34	44.339	38.427	13.0	27.7	0.138
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**5.261**						**9.625**						**8.068**					
System Total Per Day (lb)			**83.75**						**125.33**						**116.73**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-4. OU-2 Garner Lane Third Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2020 | 1,262,139 | lbs

Oxygen to OU-2 - Garner Lane

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-20	31	2,607
Month 2	Aug-20	29	2,214
Month 3	Sep-20	30	2,402
Total Operational Days in Q3 2020			90
Total Oxygen in Q3 2020			7,222.96
Running Total for Oxygen to Garner Lane Through Q3 2020 (lbs)			**1,269,361.96**

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)

			7/22/2020						8/18/2020						9/10/2020					
		O_2%	65.6						56.6						52.4					
		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	23	28.323	30.211	10.0	24.7	0.071	36	44.332	47.287	10.0	24.7	0.095	24	29.555	31.525	10.0	24.7	0.060
	Point 2	25	23	26.547	28.317	7.0	21.7	0.058	26	30.010	32.011	7.0	21.7	0.057	23	26.852	28.642	7.5	22.2	0.049
	Point 3	25	23	26.547	28.317	7.0	21.7	0.058	26	30.010	32.011	7.0	21.7	0.057	24	28.019	29.887	7.5	22.2	0.051
	Point 4	25	24	27.702	29.548	7.0	21.7	0.061	26	30.010	32.011	7.0	21.7	0.057	24	27.702	29.548	7.0	21.7	0.049
	Point 5	25	23	26.547	28.317	7.0	21.7	0.058	26	30.010	32.011	7.0	21.7	0.057	22	25.393	27.086	7.0	21.7	0.045
	Point 6	25	24	28.333	30.222	8.0	22.7	0.065	28	33.055	35.259	8.0	22.7	0.065	20	23.085	24.624	7.0	21.7	0.041
	Point 7	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 8	25	23	26.547	28.317	7.0	21.7	0.058	28	32.319	34.473	7.0	21.7	0.061	24	28.019	29.887	7.5	22.2	0.051
	Point 9	50	34	48.906	52.166	19.0	33.7	0.166	34	49.267	52.552	19.5	34.2	0.147	37	53.614	57.188	19.5	34.2	0.149
	Point 10	25	24	26.394	28.154	5.0	19.7	0.052	26	28.594	30.500	5.0	19.7	0.049	24	26.727	28.509	5.5	20.2	0.044
Total Oxygen Injected Per Day (lb)			**20.727**						**20.624**						**17.208**					
		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	24	28.019	29.887	7.5	22.2	0.063	28	32.689	34.868	7.5	22.2	0.063	25	29.186	31.132	7.5	22.2	0.053
	Point 12	50	37	53.221	56.769	19.0	33.7	0.181	40	57.536	61.372	19.0	33.7	0.169	55	79.697	85.010	19.5	34.2	0.222
	Point 13	25	24	27.702	29.548	7.0	21.7	0.061	26	30.010	32.011	7.0	21.7	0.057	29	33.473	35.704	7.0	21.7	0.059
	Point 14	68	42	67.202	71.682	27.0	41.7	0.283	36	57.602	61.442	27.0	41.7	0.209	46	73.602	78.509	27.0	41.7	0.250
	Point 15	25	24	28.333	30.222	8.0	22.7	0.065	28	33.055	35.259	8.0	22.7	0.065	22	25.972	27.703	8.0	22.7	0.048
	Point 16	50	38	54.659	58.303	19.0	33.7	0.186	36	51.782	55.235	19.0	33.7	0.152	53	76.235	81.318	19.0	33.7	0.209
	Point 17	25	23	26.852	28.642	7.5	22.2	0.060	26	30.694	32.740	8.0	22.7	0.061	30	35.024	37.359	7.5	22.2	0.063
	Point 18	66	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
	Point 19	25	24	27.702	29.548	7.0	21.7	0.061	24	27.702	29.548	7.0	21.7	0.052	29	33.856	36.113	7.5	22.2	0.061
	Point 20	50	38	54.659	58.303	19.0	33.7	0.186	36	51.782	55.235	19.0	33.7	0.152	40	57.536	61.372	19.0	33.7	0.158
Total Oxygen Injected Per Day (lb)			**36.643**						**31.373**						**35.988**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)		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	24	28.643	30.553	8.5	23.2	0.067	24	28.643	30.553	8.5	23.2	0.058	24	28.950	30.880	9.0	23.7	0.056
	Point 22	65.5	36	59.303	63.257	29.5	44.2	0.265	34	56.009	59.743	29.5	44.2	0.216	51	84.487	90.119	30.0	44.7	0.308
	Point 23	25	21	24.517	26.151	7.5	22.2	0.055	26	30.694	32.740	8.0	22.7	0.061	22	25.972	27.703	8.0	22.7	0.048
	Point 24	50	33	47.467	50.632	19.0	33.7	0.161	32	46.029	49.097	19.0	33.7	0.135	33	47.467	50.632	19.0	33.7	0.130
	Point 25	25	22	25.393	27.086	7.0	21.7	0.056	26	30.354	32.378	7.5	22.2	0.059	27	31.521	33.623	7.5	22.2	0.057
	Point 26	25	22	25.393	27.086	7.0	21.7	0.056	26	30.010	32.011	7.0	21.7	0.057	28	32.689	34.868	7.5	22.2	0.059
	Point 27	25	24	27.702	29.548	7.0	21.7	0.061	26	30.010	32.011	7.0	21.7	0.057	28	32.689	34.868	7.5	22.2	0.059
	Point 28	25	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
	Point 29	25	22	25.972	27.703	8.0	22.7	0.060	26	30.694	32.740	8.0	22.7	0.061	27	32.223	34.372	8.5	23.2	0.061
	Point 30	25	22	25.393	27.086	7.0	21.7	0.056	26	30.354	32.378	7.5	22.2	0.059	28	33.055	35.259	8.0	22.7	0.061
Total Oxygen Injected Per Day (lb)			**26.726**						**24.346**						**26.871**					
		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)			**84.10**						**76.34**						**80.07**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-4. OU-2 Garner Lane Second Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2020: 1,256,008 lbs

Oxygen to OU-2 - Garner Lane

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-20	30	1,941
Month 2	May-20	31	2,502
Month 3	Jun-20	30	1,688
Total Operational Days in Q2 2020			91
Total Oxygen in Q2 2020			6,131.52
Running Total for Oxygen to Garner Lane Through Q2 2020 (lbs)			**1,262,139.52**

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 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)

			4/22/2020						5/18/2020						6/22/2020					
	O_2%		46.8						49.0						57.1					
	R		10.73						10.73						10.73					
	Temp R (T)		641						634						650					
		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	27	33.249	35.465	10.0	24.7	0.063	30	36.943	39.406	10.0	24.7	0.080	22	27.092	28.898	10.0	24.7	0.058
	Point 2	25	26	30.354	32.378	7.5	22.2	0.052	24	28.019	29.887	7.5	22.2	0.054	22	25.684	27.396	7.5	22.2	0.050
	Point 3	25	25	29.186	31.132	7.5	22.2	0.050	23	26.852	28.642	7.5	22.2	0.052	22	25.684	27.396	7.5	22.2	0.050
	Point 4	25	26	30.354	32.378	7.5	22.2	0.052	24	28.019	29.887	7.5	22.2	0.054	22	25.393	27.086	7.0	21.7	0.048
	Point 5	25	28	32.689	34.868	7.5	22.2	0.056	24	27.702	29.548	7.0	21.7	0.052	20	23.085	24.624	7.0	21.7	0.044
	Point 6	25	28	33.055	35.259	8.0	22.7	0.058	23	27.152	28.962	8.0	22.7	0.054	20	23.611	25.185	8.0	22.7	0.047
	Point 7	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 8	25	27	31.521	33.623	7.5	22.2	0.054	24	28.019	29.887	7.5	22.2	0.054	22	25.684	27.396	7.5	22.2	0.050
	Point 9	50	35	50.716	54.097	19.5	34.2	0.133	37	53.614	57.188	19.5	34.2	0.160	34	49.267	52.552	19.5	34.2	0.147
	Point 10	25	26	28.594	30.500	5.0	19.7	0.043	25	27.494	29.327	5.0	19.7	0.047	22	24.195	25.808	5.0	19.7	0.042
	Total Oxygen Injected Per Day (lb)		**17.924**						**19.470**						**17.128**					
		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	24	28.333	30.222	8.0	22.7	0.049	25	29.513	31.481	8.0	22.7	0.059	20	23.611	25.185	8.0	22.7	0.047
	Point 12	50	35	50.344	53.700	19.0	33.7	0.130	36	51.782	55.235	19.0	33.7	0.152	26	37.398	39.892	19.0	33.7	0.110
	Point 13	25	24	27.702	29.548	7.0	21.7	0.046	24	27.702	29.548	7.0	21.7	0.052	20	23.085	24.624	7.0	21.7	0.044
	Point 14	68	25	40.001	42.668	27.0	41.7	0.128	54	86.403	92.163	27.0	41.7	0.315	26	41.601	44.375	27.0	41.7	0.151
	Point 15	25	26	30.694	32.740	8.0	22.7	0.054	24	28.333	30.222	8.0	22.7	0.056	18	21.250	22.666	8.0	22.7	0.042
	Point 16	50	33	47.467	50.632	19.0	33.7	0.123	37	53.221	56.769	19.0	33.7	0.157	16	23.014	24.549	19.0	33.7	0.068
	Point 17	25	23	27.152	28.962	8.0	22.7	0.047	23	27.152	28.962	8.0	22.7	0.054	18	21.250	22.666	8.0	22.7	0.042
	Point 18	66	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-
	Point 19	25	23	26.547	28.317	7.0	21.7	0.044	25	28.856	30.780	7.0	21.7	0.055	16	18.468	19.699	7.0	21.7	0.035
	Point 20	50	31	44.590	47.563	19.0	33.7	0.115	37	53.221	56.769	19.0	33.7	0.157	28	40.275	42.960	19.0	33.7	0.119
	Total Oxygen Injected Per Day (lb)		**23.604**						**33.791**						**21.043**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)		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	26	31.363	33.453	9.0	23.7	0.057	25	30.156	32.167	9.0	23.7	0.062	20	24.125	25.733	9.0	23.7	0.050
	Point 22	65.5	37	60.951	65.014	29.5	44.2	0.207	50	81.898	87.358	29.0	43.7	0.313	28	45.863	48.921	29.0	43.7	0.175
	Point 23	25	28	33.055	35.259	8.0	22.7	0.058	24	28.019	29.887	7.5	22.2	0.054	16	18.679	19.925	7.5	22.2	0.036
	Point 24	50	36	51.782	55.235	19.0	33.7	0.134	38	54.659	58.303	19.0	33.7	0.161	28	40.275	42.960	19.0	33.7	0.119
	Point 25	25	26	30.354	32.378	7.5	22.2	0.052	24	28.019	29.887	7.5	22.2	0.054	18	20.776	22.161	7.0	21.7	0.039
	Point 26	25	26	30.354	32.378	7.5	22.2	0.052	23	26.547	28.317	7.0	21.7	0.050	18	20.776	22.161	7.0	21.7	0.039
	Point 27	25	27	31.521	33.623	7.5	22.2	0.054	24	27.702	29.548	7.0	21.7	0.052	16	18.468	19.699	7.0	21.7	0.035
	Point 28	25		0.000	0.000		14.7	0.000		-	-	-	-	-	-	-	-	-	-	-
	Point 29	25	29	34.235	36.518	8.0	22.7	0.060	24	28.333	30.222	8.0	22.7	0.056	14	16.527	17.629	8.0	22.7	0.033
	Point 30	25	26	30.354	32.378	7.5	22.2	0.052	24	28.019	29.887	7.5	22.2	0.054	18	20.776	22.161	7.0	21.7	0.039
	Total Oxygen Injected Per Day (lb)		**23.187**						**27.448**						**18.098**					
		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)		**64.72**						**80.71**						**56.27**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-4. OU-2 Garner Lane First Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q4 2019 1,250,087 lbs

Oxygen to OU-2 - Garner Lane

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-20	31	2,339
Month 2	Feb-20	29	1,653
Month 3	Mar-20	31	1,930
Total Operational Days in Q1 2020			91
Total Oxygen in Q1 2020			5,921.03
Running Total for Oxygen to Garner Lane Through Q1 2020 (lbs)			**1,256,008.03**

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)

			1/21/2020						2/24/2020						3/26/2020					
	O_2%		53.1						51.6						47.8					
	R		10.73						10.73						10.73					
	Temp R (T)		641						645						643					
		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	28	34.480	36.779	10.0	24.7	0.070	26	32.017	34.152	10.0	24.7	0.063	22	27.365	29.189	10.5	25.2	0.051
	Point 2	25	27	31.521	33.623	7.5	22.2	0.058	21	24.517	26.151	7.5	22.2	0.043	23	26.852	28.642	7.5	22.2	0.044
	Point 3	25	26	30.354	32.378	7.5	22.2	0.055	20	23.349	24.906	7.5	22.2	0.041	22	25.972	27.703	8.0	22.7	0.044
	Point 4	25	27	31.164	33.242	7.0	21.7	0.056	20	23.085	24.624	7.0	21.7	0.040	22	25.684	27.396	7.5	22.2	0.042
	Point 5	25	30	34.627	36.936	7.0	21.7	0.062	19	21.930	23.393	7.0	21.7	0.038	23	26.852	28.642	7.5	22.2	0.044
	Point 6	25	29	34.235	36.518	8.0	22.7	0.064	18	21.250	22.666	8.0	22.7	0.038	22	26.256	28.007	8.5	23.2	0.045
	Point 7	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 8	25	26	30.354	32.378	7.5	22.2	0.055	20	23.349	24.906	7.5	22.2	0.041	22	25.972	27.703	8.0	22.7	0.044
	Point 9	50	38	55.063	58.734	19.5	34.2	0.155	34	49.267	52.552	19.5	34.2	0.134	33	47.818	51.006	19.5	34.2	0.121
	Point 10	25	26	30.010	32.011	7.0	21.7	0.054	23	25.294	26.981	5.0	19.7	0.040	23	25.613	27.321	5.5	20.2	0.038
Total Oxygen Injected Per Day (lb)			**20.129**						**15.306**						**15.118**					
		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	26	30.354	32.378	7.5	22.2	0.055	20	23.349	24.906	7.5	22.2	0.041	24	28.333	30.222	8.0	22.7	0.048
	Point 12	50	38	54.659	58.303	19.0	33.7	0.152	27	38.837	41.426	19.0	33.7	0.104	38	55.063	58.734	19.5	34.2	0.139
	Point 13	25	26	30.010	32.011	7.0	21.7	0.054	21	24.239	25.855	7.0	21.7	0.042	24	27.702	29.548	7.0	21.7	0.044
	Point 14	68	38	60.802	64.855	27.0	41.7	0.209	29	46.401	49.495	27.0	41.7	0.154	38	61.165	65.243	27.5	42.2	0.191
	Point 15	25	28	33.055	35.259	8.0	22.7	0.062	17	19.847	21.170	7.5	22.2	0.035	24	28.333	30.222	8.0	22.7	0.048
	Point 16	50	39	56.098	59.837	19.0	33.7	0.156	26	37.398	39.892	19.0	33.7	0.100	37	53.614	57.188	19.5	34.2	0.136
	Point 17	25	26	30.694	32.740	8.0	22.7	0.057	21	24.791	26.444	8.0	22.7	0.045	24	28.333	30.222	8.0	22.7	0.048
	Point 18	66		0.000	0.000		14.7	0.000	-	-	-	-	-	-	-	-	-	-	-	-
	Point 19	25	24	27.702	29.548	7.0	21.7	0.050	19	21.930	23.393	7.0	21.7	0.038	24	27.702	29.548	7.0	21.7	0.044
	Point 20	50	37	53.221	56.769	19.0	33.7	0.148	31	44.590	47.563	19.0	33.7	0.120	36	52.165	55.643	19.5	34.2	0.132
Total Oxygen Injected Per Day (lb)			**30.133**						**21.709**						**26.518**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)		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	26	31.363	33.453	9.0	23.7	0.061	22	26.256	28.007	8.5	23.2	0.048	24	28.950	30.880	9.0	23.7	0.051
	Point 22	65.5	38	62.598	66.771	29.5	44.2	0.228	31	50.777	54.162	29.0	43.7	0.176	39	63.881	68.140	29.0	43.7	0.206
	Point 23	25	28	33.055	35.259	8.0	22.7	0.062	30	35.416	37.777	8.0	22.7	0.064	22	25.972	27.703	8.0	22.7	0.044
	Point 24	50	38	54.659	58.303	19.0	33.7	0.152	30	43.152	46.029	19.0	33.7	0.116	33	48.166	51.377	20.0	34.7	0.124
	Point 25	25	27	31.521	33.623	7.5	22.2	0.058	21	24.239	25.855	7.0	21.7	0.042	25	28.522	30.423	6.5	21.2	0.045
	Point 26	25	28	32.319	34.473	7.0	21.7	0.058	21	24.239	25.855	7.0	21.7	0.042	24	28.019	29.887	7.5	22.2	0.046
	Point 27	25	25	28.856	30.780	7.0	21.7	0.052	20	23.085	24.624	7.0	21.7	0.040	22	25.393	27.086	7.0	21.7	0.041
	Point 28	25		0.000	0.000		14.7	0.000	-	-	-	-	-	-	-	-	-	-	-	-
	Point 29	25	28	33.055	35.259	8.0	22.7	0.062	23	27.152	28.962	8.0	22.7	0.049	21	25.063	26.734	8.5	23.2	0.043
	Point 30	25	26	30.354	32.378	7.5	22.2	0.055	23	26.852	28.642	7.5	22.2	0.047	23	27.152	28.962	8.0	22.7	0.046
Total Oxygen Injected Per Day (lb)			**25.177**						**19.982**						**20.607**					
		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
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)			**75.44**						**57.00**						**62.24**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-1. OU-2 Garner Lane Fourth Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2019: 1,243,079 lbs

Oxygen to OU-2 - Garner Lane

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-19	25	2,036
Month 2	Nov-19	30	2,593
Month 3	Dec-19	31	2,379
Total Operational Days in Q4 2019			86
Total Oxygen in Q4 2019			7,007.68
Running Total for Oxygen to Garner Lane Through Q4 2019 (lbs)			**1,250,087.14**

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)

			10/25/2019						11/19/2019						12/4/2019					
	O_2%		58.8						68.8						58.5					
	R		10.73						10.73						10.73					
	Temp R (T)		642						641						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
MID PLUME Injection Bank 1	Point 1	25	34	41.869	44.660	10.0	24.7	0.094	23	28.323	30.211	10.0	24.7	0.075	24	29.555	31.525	10.0	24.7	0.067
	Point 2	25	24	28.333	30.222	8.0	22.7	0.059	23	26.852	28.642	7.5	22.2	0.064	23	26.852	28.642	7.5	22.2	0.055
	Point 3	25	20	23.611	25.185	8.0	22.7	0.049	24	28.019	29.887	7.5	22.2	0.066	23	26.852	28.642	7.5	22.2	0.055
	Point 4	25	6	7.083	7.555	8.0	22.7	0.015	22	25.393	27.086	7.0	21.7	0.059	23	26.547	28.317	7.0	21.7	0.053
	Point 5	25	32	36.936	39.398	7.0	21.7	0.073	23	26.547	28.317	7.0	21.7	0.061	24	27.702	29.548	7.0	21.7	0.055
	Point 6	25	26	30.354	32.378	7.5	22.2	0.061	23	27.152	28.962	8.0	22.7	0.066	23	27.152	28.962	8.0	22.7	0.057
	Point 7	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 8	25	20	23.611	25.185	8.0	22.7	0.049	24	28.019	29.887	7.5	22.2	0.066	23	26.852	28.642	7.5	22.2	0.055
	Point 9	50	24	34.777	37.095	19.5	34.2	0.108	35	50.344	53.700	19.0	33.7	0.181	31	44.920	47.915	19.5	34.2	0.142
	Point 10	25	24	28.019	29.887	7.5	22.2	0.057	24	26.394	28.154	5.0	19.7	0.055	23	25.613	27.321	5.5	20.2	0.048
Total Oxygen Injected Per Day (lb)			**18.055**						**22.193**						**18.803**					
		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	0.073	26	30.354	32.378	7.5	22.2	0.072	22	25.684	27.396	7.5	22.2	0.053
	Point 12	50	46	66.166	70.578	19.0	33.7	0.203	30	43.152	46.029	19.0	33.7	0.155	34	48.906	52.166	19.0	33.7	0.152
	Point 13	25	20	23.611	25.185	8.0	22.7	0.049	26	30.010	32.011	7.0	21.7	0.069	24	27.702	29.548	7.0	21.7	0.055
	Point 14	68	42	67.202	71.682	27.0	41.7	0.255	36	57.602	61.442	27.0	41.7	0.256	46	73.602	78.509	27.0	41.7	0.283
	Point 15	25	24	28.333	30.222	8.0	22.7	0.059	27	31.874	33.999	8.0	22.7	0.077	23	27.152	28.962	8.0	22.7	0.057
	Point 16	50	32	46.707	49.821	20.0	34.7	0.148	37	53.221	56.769	19.0	33.7	0.191	32	46.029	49.097	19.0	33.7	0.143
	Point 17	25	30	35.416	37.777	8.0	22.7	0.073	26	30.354	32.378	7.5	22.2	0.072	24	28.333	30.222	8.0	22.7	0.059
	Point 18	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 19	25	29	33.856	36.113	7.5	22.2	0.068	25	28.856	30.780	7.0	21.7	0.067	23	26.547	28.317	7.0	21.7	0.053
	Point 20	50	38	54.659	58.303	19.0	33.7	0.168	38	54.252	57.869	18.5	33.2	0.192	36	51.782	55.235	19.0	33.7	0.161
Total Oxygen Injected Per Day (lb)			**35.060**						**36.874**						**32.553**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)		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	36	43.425	46.320	9.0	23.7	0.094	22	26.256	28.007	8.5	23.2	0.065	25	29.837	31.826	8.5	23.2	0.064
	Point 22	65.5	32	52.415	55.909	29.0	43.7	0.209	36	58.967	62.898	29.0	43.7	0.275	34	56.325	60.080	30.0	44.7	0.232
	Point 23	25	28	33.055	35.259	8.0	22.7	0.068	21	24.517	26.151	7.5	22.2	0.058	24	28.333	30.222	8.0	22.7	0.059
	Point 24	50	43	61.391	65.483	18.5	33.2	0.186	33	47.467	50.632	19.0	33.7	0.171	34	48.906	52.166	19.0	33.7	0.152
	Point 25	25	24	28.333	30.222	8.0	22.7	0.059	22	25.684	27.396	7.5	22.2	0.061	24	28.019	29.887	7.5	22.2	0.057
	Point 26	25	32	37.359	39.849	7.5	22.2	0.076	21	24.239	25.855	7.0	21.7	0.056	24	27.702	29.548	7.0	21.7	0.055
	Point 27	25	28	33.055	35.259	8.0	22.7	0.068	22	25.393	27.086	7.0	21.7	0.059	25	28.856	30.780	7.0	21.7	0.058
	Point 28	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 29	25	26	30.694	32.740	8.0	22.7	0.063	20	23.611	25.185	8.0	22.7	0.057	24	28.333	30.222	8.0	22.7	0.059
	Point 30	25	26	30.694	32.740	8.0	22.7	0.063	20	23.085	24.624	7.0	21.7	0.053	23	26.852	28.642	7.5	22.2	0.055
Total Oxygen Injected Per Day (lb)			**28.333**						**27.363**						**25.373**					
		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)			**81.45**						**86.43**						**76.73**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-1. OU-2 Garner Lane Third Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2019: 1,243,079 lbs

Oxygen to OU-2 - Garner Lane

	Operational Days	Oxygen Injected Per Month (lbs)
Month 1	0	0
Month 2	0	0
Month 3	0	0
Total Operational Days in Q3 2019		0
Total Oxygen in Q3 2019		0.00
Running Total for Oxygen to Garner Lane Through Q3 2019 (lbs)		**1,243,079.46**

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 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)

		O_2%																					
		R	10.73						10.73							10.73							
		Temp R (T)																					
		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		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 2	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 3	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 4	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 5	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 6	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 7	25		-	-		-	-		-	-		-	-		-	-		-	-
	Point 8	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 9	50		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 10	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
Total Oxygen Injected Per Day (lb)			**#DIV/0!**						**#DIV/0!**						**#DIV/0!**					
		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		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 12	50		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 13	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 14	68		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 15	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 16	50		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 17	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 18	66		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		-	-		-	-
	Point 19	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 20	50		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
Total Oxygen Injected Per Day (lb)			**#DIV/0!**						**#DIV/0!**						**#DIV/0!**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)		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		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 22	65.5		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 23	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 24	50		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 25	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 26	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 27	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 28	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		-	-		-	-
	Point 29	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
	Point 30	25		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!
Total Oxygen Injected Per Day (lb)			**#DIV/0!**						**#DIV/0!**						**#DIV/0!**					
		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		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 2	27		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 2A	43		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 4	35		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 5	35		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 6	40		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 7	45		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 8	45		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 9	45		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	45		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**#DIV/0!**						**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		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 4A	43		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 13	45		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 14	40		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 15	35		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 16	35		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 17	35		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 18	35		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 19	35		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 20	30		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**#DIV/0!**						**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		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 22	30		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 23	30		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 24	25		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 25	25		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 26	25		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27	25		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27A	26		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27B	35		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
	Point 27C	35		0.000	0.000		14.7	#DIV/0!	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**#DIV/0!**						**0.000**						**0.000**					
System Total Per Day (lb)			**#DIV/0!**						**#DIV/0!**						**#DIV/0!**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-2. 9 North Clinton Third Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2020: 581,812 lbs

Oxygen to OU-2 - 9 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Jul-20	31	3,456
Month 2	Aug-20	29	3,484
Month 3	Sep-20	30	3,657
Total Operational Days in Q3 2020			90
Total Oxygen in Q3 2020			10,596.71
Running Total for Oxygen to 9 North Clinton Through Q3 2020 (lbs)			**592,408.71**

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 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.

			7/15/2020						8/18/2020						9/8/2020					
		O_2%	90.4						90.0						90.3					
		R	10.73						10.73						10.73					
		Temp R (T)	637						644						650					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 1	Point 1A	30	25	31.096	20.731	10.5	25.2	0.069	26	32.340	21.560	10.5	25.2	0.071	42	52.241	34.828	10.5	25.2	0.114
	Point 7A	30	25	30.473	20.315	9.5	24.2	0.065	24	29.555	19.703	10.0	24.7	0.063	40	49.258	32.838	10.0	24.7	0.105
	Point 7B	64	16	25.136	16.757	25.5	40.2	0.089	26	40.846	27.231	25.5	40.2	0.143	50	78.060	52.040	25.0	39.7	0.267
	Point 13A	25	25	28.522	19.014	6.5	21.2	0.053	24	27.381	18.254	6.5	21.2	0.050	36	41.071	27.381	6.5	21.2	0.075
	Point 13B	52	26	37.949	25.299	20.0	34.7	0.116	22	32.111	21.407	20.0	34.7	0.097	40	58.383	38.922	20.0	34.7	0.175
	Point 19A	25	27	31.874	21.250	8.0	22.7	0.064	24	28.333	18.889	8.0	22.7	0.056	34	40.138	26.759	8.0	22.7	0.079
	Point 19B	44	25	34.877	23.251	17.0	31.7	0.097	24	33.482	22.321	17.0	31.7	0.092	42	58.593	39.062	17.0	31.7	0.160
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**17.725**						**18.300**						**31.204**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 2	Point 2A	32	25	31.707	21.138	11.5	26.2	0.073	22	27.902	18.601	11.5	26.2	0.063	42	53.268	35.512	11.5	26.2	0.120
	Point 8A	45	26	36.272	24.181	17.0	31.7	0.101	26	36.272	24.181	17.0	31.7	0.100	48	66.433	44.289	16.5	31.2	0.179
	Point 8B	64	26	40.591	27.061	25.0	39.7	0.142	26	40.591	27.061	25.0	39.7	0.140	56	87.428	58.285	25.0	39.7	0.300
	Point 8C	25	22	25.393	16.929	7.0	21.7	0.049	22	25.393	16.929	7.0	21.7	0.048	36	41.553	27.702	7.0	21.7	0.078
	Point 14A	25	26	30.694	20.463	8.0	22.7	0.061	24	28.333	18.889	8.0	22.7	0.056	34	40.138	26.759	8.0	22.7	0.079
	Point 14B	52	26	37.675	25.117	19.5	34.2	0.114	24	34.777	23.185	19.5	34.2	0.103	44	63.757	42.505	19.5	34.2	0.188
	Point 20A	25	25	29.186	19.458	7.5	22.2	0.057	24	28.019	18.679	7.5	22.2	0.054	36	42.499	28.333	8.0	22.7	0.083
	Point 20B	42	26	35.695	23.797	16.0	30.7	0.097	28	38.441	25.627	16.0	30.7	0.102	40	54.915	36.610	16.0	30.7	0.146
Total Oxygen Injected Per Day (lb)			**22.211**						**21.334**						**37.518**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 3	Point 3A	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 3B	35	19	24.097	16.065	11.5	26.2	0.056	26	32.975	21.984	11.5	26.2	0.075	30	38.048	25.366	11.5	26.2	0.086
	Point 9A	45	21	28.831	19.220	16.0	30.7	0.078	26	35.695	23.797	16.0	30.7	0.095	30	41.187	27.458	16.0	30.7	0.109
	Point 9B	64	27	40.804	27.203	22.5	37.2	0.134	28	42.315	28.210	22.5	37.2	0.137	28	42.315	28.210	22.5	37.2	0.136
	Point 9C	25	19	22.182	14.788	7.5	22.2	0.043	22	25.684	17.123	7.5	22.2	0.050	28	32.689	21.793	7.5	22.2	0.063
	Point 15A	25	22	25.684	17.123	7.5	22.2	0.050	24	28.019	18.679	7.5	22.2	0.054	30	35.024	23.349	7.5	22.2	0.067
	Point 15B	44	22	29.957	19.971	15.5	30.2	0.080	26	35.403	23.602	15.5	30.2	0.093	34	46.296	30.864	15.5	30.2	0.121
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**14.112**						**16.102**						**18.607**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 4	Point 4A	25	22	25.684	17.123	7.5	22.2	0.050	26	30.694	20.463	8.0	22.7	0.060	34	40.138	26.759	8.0	22.7	0.079
	Point 4B	39	24	31.579	21.053	13.5	28.2	0.079	32	42.106	28.070	13.5	28.2	0.103	34	45.132	30.088	14.0	28.7	0.112
	Point 10A	45	23	31.832	21.222	16.5	31.2	0.088	32	44.289	29.526	16.5	31.2	0.120	32	44.289	29.526	16.5	31.2	0.119
	Point 10B	64	26	40.846	27.231	25.5	40.2	0.145	36	57.255	38.170	26.5	41.2	0.205	36	56.907	37.938	26.0	40.7	0.200
	Point 10C	25	21	24.791	16.527	8.0	22.7	0.050	28	33.055	22.037	8.0	22.7	0.065	36	42.499	28.333	8.0	22.7	0.083
	Point 16A	25	20	23.349	15.566	7.5	22.2	0.046	24	28.019	18.679	7.5	22.2	0.054	36	42.029	28.019	7.5	22.2	0.081
	Point 16B	47	23	32.589	21.726	18.0	32.7	0.094	30	42.507	28.338	18.0	32.7	0.121	34	48.175	32.116	18.0	32.7	0.136
Total Oxygen Injected Per Day (lb)			**17.614**						**23.304**						**25.901**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 5	Point 5A	25	25	28.856	19.237	7.0	21.7	0.055	28	32.689	21.793	7.5	22.2	0.063	36	41.553	27.702	7.0	21.7	0.078
	Point 5B	42	29	38.829	25.886	14.5	29.2	0.100	32	42.846	28.564	14.5	29.2	0.109	36	47.787	31.858	14.0	28.7	0.118
	Point 11A	45	23	31.832	21.222	16.5	31.2	0.088	30	41.521	27.680	16.5	31.2	0.112	32	44.289	29.526	16.5	31.2	0.119
	Point 11B	64	27	41.349	27.566	23.5	38.2	0.139	30	46.243	30.828	24.0	38.7	0.155	34	52.069	34.712	23.5	38.2	0.172
	Point 17A	25	10	11.675	7.783	7.5	22.2	0.023	24	28.333	18.889	8.0	22.7	0.056	34	39.694	26.462	7.5	22.2	0.076
	Point 17B	45	25	35.151	23.434	17.5	32.2	0.100	30	42.181	28.120	17.5	32.2	0.118	30	41.852	27.901	17.0	31.7	0.115
	Point 21A	25	10	11.805	7.870	8.0	22.7	0.024	22	25.972	17.314	8.0	22.7	0.051	34	40.138	26.759	8.0	22.7	0.079
Total Oxygen Injected Per Day (lb)			**16.906**						**21.263**						**24.204**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 6	Point 6A	30	30	35.024	23.349	7.5	22.2	0.069	26	30.694	20.463	8.0	22.7	0.060	40	46.698	31.132	7.5	22.2	0.089
	Point 6B	52	31	44.920	29.947	19.5	34.2	0.135	26	37.675	25.117	19.5	34.2	0.112	46	66.166	44.111	19.0	33.7	0.192
	Point 12A	25	29	33.856	22.571	7.5	22.2	0.066	24	28.019	18.679	7.5	22.2	0.054	34	40.138	26.759	8.0	22.7	0.079
	Point 12B	54	30	44.414	29.609	21.0	35.7	0.140	28	41.453	27.635	21.0	35.7	0.128	40	59.219	39.479	21.0	35.7	0.182
	Point 18A	25	29	34.235	22.824	8.0	22.7	0.069	28	33.055	22.037	8.0	22.7	0.065	34	40.138	26.759	8.0	22.7	0.079
	Point 18B	45	32	44.642	29.761	17.0	31.7	0.125	26	36.272	24.181	17.0	31.7	0.100	40	55.803	37.202	17.0	31.7	0.153
	Point 21B	42	31	42.211	28.141	15.5	30.2	0.112	28	38.126	25.418	15.5	30.2	0.100	42	57.190	38.126	15.5	30.2	0.149
Total Oxygen Injected Per Day (lb)			**22.906**						**19.835**						**29.551**					
System Total Per Day (lb)			**111.47**						**120.14**						**166.98**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-2. 9 North Clinton Second Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2020: 570,355 lbs

Oxygen to OU-2 - 9 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Apr-20	30	4,515
Month 2	May-20	31	4,307
Month 3	Jun-20	30	2,635
Total Operational Days in Q2 2020			91
Total Oxygen in Q2 2020			11,456.84
Running Total for Oxygen to 9 North Clinton Through Q2 2020 (lbs)			**581,811.84**

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 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.

			4/22/2020						5/11/2020						6/15/2020					
		O_2%	89.4						93.1						91.6					
		R	10.73						10.73						10.73					
		Temp R (T)	632						636						637					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 1	Point 1A	30	34	42.291	28.194	10.5	25.2	0.094	37	46.022	30.681	10.5	25.2	0.105	26	32.340	21.560	10.5	25.2	0.073
	Point 7A	30	37	45.563	30.376	10.0	24.7	0.099	28	34.480	22.987	10.0	24.7	0.077	22	26.816	17.877	9.5	24.2	0.058
	Point 7B	64	32	50.272	33.515	25.5	40.2	0.178	34	53.414	35.609	25.5	40.2	0.195	35	54.642	36.428	25.0	39.7	0.194
	Point 13A	25	36	41.071	27.381	6.5	21.2	0.077	28	32.319	21.546	7.0	21.7	0.064	24	27.381	18.254	6.5	21.2	0.052
	Point 13B	52	36	52.545	35.030	20.0	34.7	0.160	25	36.752	24.501	20.5	35.2	0.118	28	40.868	27.246	20.0	34.7	0.127
	Point 19A	25	36	42.965	28.643	8.5	23.2	0.088	25	29.837	19.891	8.5	23.2	0.063	24	28.333	18.889	8.0	22.7	0.057
	Point 19B	44	37	51.617	34.412	17.0	31.7	0.144	30	41.852	27.901	17.0	31.7	0.121	26	36.272	24.181	17.0	31.7	0.103
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**26.828**						**23.785**						**21.227**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 2	Point 2A	32	38	48.195	32.130	11.5	26.2	0.111	27	34.569	23.046	12.0	26.7	0.084	25	31.707	21.138	11.5	26.2	0.074
	Point 8A	45	36	50.222	33.482	17.0	31.7	0.140	29	40.457	26.971	17.0	31.7	0.117	32	44.642	29.761	17.0	31.7	0.126
	Point 8B	64	35	54.642	36.428	25.0	39.7	0.191	28	43.714	29.143	25.0	39.7	0.158	41	64.009	42.673	25.0	39.7	0.227
	Point 8C	25	40	46.698	31.132	7.5	22.2	0.091	27	31.521	21.014	7.5	22.2	0.064	22	25.684	17.123	7.5	22.2	0.051
	Point 14A	25	38	45.352	30.234	8.5	23.2	0.092	27	32.223	21.482	8.5	23.2	0.068	24	28.333	18.889	8.0	22.7	0.057
	Point 14B	52	36	52.165	34.777	19.5	34.2	0.157	26	37.675	25.117	19.5	34.2	0.117	30	43.471	28.981	19.5	34.2	0.133
	Point 20A	25	38	44.363	29.576	7.5	22.2	0.087	26	30.354	20.236	7.5	22.2	0.061	23	26.852	17.901	7.5	22.2	0.053
	Point 20B	42	36	49.825	33.216	16.5	31.2	0.137	26	35.985	23.990	16.5	31.2	0.102	28	38.441	25.627	16.0	30.7	0.105
Total Oxygen Injected Per Day (lb)			**32.164**						**24.661**						**26.484**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 3	Point 3A	25	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000
	Point 3B	35	31	39.690	26.460	12.0	26.7	0.093	31	39.690	26.460	12.0	26.7	0.096	27	34.244	22.829	11.5	26.2	0.080
	Point 9A	45	31	42.905	28.603	16.5	31.2	0.118	33	45.673	30.448	16.5	31.2	0.130	27	37.369	24.912	16.5	31.2	0.104
	Point 9B	64	30	45.641	30.427	23.0	37.7	0.151	30	45.338	30.225	22.5	37.2	0.153	28	42.315	28.210	22.5	37.2	0.141
	Point 9C	25	32	37.359	24.906	7.5	22.2	0.073	29	33.856	22.571	7.5	22.2	0.068	25	29.186	19.458	7.5	22.2	0.058
	Point 15A	25	32	38.191	25.461	8.5	23.2	0.078	32	37.777	25.185	8.0	22.7	0.078	28	33.055	22.037	8.0	22.7	0.067
	Point 15B	44	31	42.559	28.373	16.0	30.7	0.115	31	42.211	28.141	15.5	30.2	0.116	28	38.126	25.418	15.5	30.2	0.103
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**20.083**						**20.533**						**17.688**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 4	Point 4A	25	32	37.777	25.185	8.0	22.7	0.075	28	33.055	22.037	8.0	22.7	0.068	24	28.333	18.889	8.0	22.7	0.057
	Point 4B	39	30	39.822	26.548	14.0	28.7	0.100	28	37.168	24.778	14.0	28.7	0.097	25	32.895	21.930	13.5	28.2	0.083
	Point 10A	45	28	38.753	25.835	16.5	31.2	0.106	29	40.137	26.758	16.5	31.2	0.114	26	35.985	23.990	16.5	31.2	0.100
	Point 10B	64	32	50.272	33.515	25.5	40.2	0.178	28	43.988	29.325	25.5	40.2	0.161	26	40.846	27.231	25.5	40.2	0.147
	Point 10C	25	32	37.777	25.185	8.0	22.7	0.075	28	33.055	22.037	8.0	22.7	0.068	24	28.333	18.889	8.0	22.7	0.057
	Point 16A	25	31	36.191	24.127	7.5	22.2	0.071	29	33.856	22.571	7.5	22.2	0.068	23	26.852	17.901	7.5	22.2	0.053
	Point 16B	47	32	45.341	30.227	18.0	32.7	0.130	28	39.673	26.449	18.0	32.7	0.118	24	34.006	22.670	18.0	32.7	0.099
Total Oxygen Injected Per Day (lb)			**23.551**						**22.226**						**19.118**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 5	Point 5A	25	31	36.191	24.127	7.5	22.2	0.071	32	37.359	24.906	7.5	22.2	0.075	23	26.852	17.901	7.5	22.2	0.053
	Point 5B	42	34	45.523	30.349	14.5	29.2	0.117	33	44.185	29.456	14.5	29.2	0.117	23	30.795	20.530	14.5	29.2	0.080
	Point 11A	45	31	43.247	28.831	17.0	31.7	0.120	31	43.247	28.831	17.0	31.7	0.125	23	31.832	21.222	16.5	31.2	0.089
	Point 11B	64	37	57.032	38.022	24.0	38.7	0.194	33	50.537	33.691	23.5	38.2	0.176	24	36.754	24.503	23.5	38.2	0.125
	Point 17A	25	30	35.416	23.611	8.0	22.7	0.071	29	34.235	22.824	8.0	22.7	0.071	23	26.852	17.901	7.5	22.2	0.053
	Point 17B	45	33	46.399	30.933	17.5	32.2	0.131	33	46.399	30.933	17.5	32.2	0.136	24	33.745	22.496	17.5	32.2	0.097
	Point 21A	25	29	34.610	23.074	8.5	23.2	0.071	28	33.055	22.037	8.0	22.7	0.068	22	25.972	17.314	8.0	22.7	0.053
Total Oxygen Injected Per Day (lb)			**24.782**						**24.571**						**17.625**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 6	Point 6A	30	30	35.416	23.611	8.0	22.7	0.071	29	34.235	22.824	8.0	22.7	0.071	24	28.333	18.889	8.0	22.7	0.057
	Point 6B	52	30	43.471	28.981	19.5	34.2	0.131	34	49.267	32.845	19.5	34.2	0.153	22	31.879	21.252	19.5	34.2	0.097
	Point 12A	25	31	36.191	24.127	7.5	22.2	0.071	27	31.521	21.014	7.5	22.2	0.064	23	26.852	17.901	7.5	22.2	0.053
	Point 12B	54	32	47.706	31.804	21.5	36.2	0.152	28	41.742	27.828	21.5	36.2	0.137	24	35.531	23.687	21.0	35.7	0.113
	Point 18A	25	28	33.055	22.037	8.0	22.7	0.066	27	31.874	21.250	8.0	22.7	0.066	25	29.513	19.676	8.0	22.7	0.060
	Point 18B	45	30	41.852	27.901	17.0	31.7	0.117	30	41.852	27.901	17.0	31.7	0.121	26	36.272	24.181	17.0	31.7	0.103
	Point 21B	42	31	42.559	28.373	16.0	30.7	0.115	30	40.850	27.233	15.5	30.2	0.112	23	31.318	20.879	15.5	30.2	0.085
Total Oxygen Injected Per Day (lb)			**23.075**						**23.158**						**18.193**					
System Total Per Day (lb)			**150.48**						**138.93**						**120.34**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-2. 9 North Clinton First Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q4 2019: 558,783 lbs

Oxygen to OU-2 - 9 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Jan-20	31	4,433
Month 2	Feb-20	29	3,648
Month 3	Mar-20	31	3,491
Total Operational Days in Q1 2020			91
Total Oxygen in Q1 2020			11,572.26
Running Total for Oxygen to 9 North Clinton Through Q1 2020 (lbs)			**570,355.26**

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.

			1/20/2020						2/17/2020						3/16/2020					
		O_2%	92.7						92.1						88.6					
		R	10.73						10.73						10.73					
		Temp R (T)	639						632						639					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 1	Point 1A	30	28	35.171	23.448	11.0	25.7	0.081	24	30.147	20.098	11.0	25.7	0.070	42	52.241	34.828	10.5	25.2	0.113
	Point 7A	30	32	39.406	26.271	10.0	24.7	0.088	23	28.323	18.882	10.0	24.7	0.063	38	46.795	31.196	10.0	24.7	0.100
	Point 7B	64	27	42.417	28.278	25.5	40.2	0.154	25	39.275	26.183	25.5	40.2	0.143	48	75.408	50.272	25.5	40.2	0.261
	Point 13A	25	33	37.648	25.099	6.5	21.2	0.072	23	26.547	17.698	7.0	21.7	0.052	34	38.789	25.860	6.5	21.2	0.071
	Point 13B	52	28	41.162	27.441	20.5	35.2	0.131	26	38.222	25.481	20.5	35.2	0.122	38	55.862	37.242	20.5	35.2	0.169
	Point 19A	25	30	35.804	23.869	8.5	23.2	0.075	26	31.030	20.687	8.5	23.2	0.065	29	34.235	22.824	8.0	22.7	0.067
	Point 19B	44	32	44.642	29.761	17.0	31.7	0.128	24	33.745	22.496	17.5	32.2	0.098	38	53.012	35.342	17.0	31.7	0.145
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**23.291**						**19.647**						**29.635**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 2	Point 2A	32	28	35.849	23.899	12.0	26.7	0.086	22	28.167	18.778	12.0	26.7	0.068	35	44.390	29.593	11.5	26.2	0.100
	Point 8A	45	30	41.852	27.901	17.0	31.7	0.120	24	33.745	22.496	17.5	32.2	0.098	34	47.432	31.621	17.0	31.7	0.130
	Point 8B	64	28	43.714	29.143	25.0	39.7	0.156	25	39.275	26.183	25.5	40.2	0.143	38	59.326	39.551	25.0	39.7	0.203
	Point 8C	25	32	37.359	24.906	7.5	22.2	0.075	20	23.349	15.566	7.5	22.2	0.047	35	40.861	27.241	7.5	22.2	0.078
	Point 14A	25	30	35.804	23.869	8.5	23.2	0.075	21	25.063	16.708	8.5	23.2	0.053	35	41.319	27.546	8.0	22.7	0.081
	Point 14B	52	30	43.471	28.981	19.5	34.2	0.134	22	32.111	21.407	20.0	34.7	0.101	34	49.267	32.845	19.5	34.2	0.145
	Point 20A	25	32	37.359	24.906	7.5	22.2	0.075	19	22.182	14.788	7.5	22.2	0.045	34	39.694	26.462	7.5	22.2	0.076
	Point 20B	42	30	41.187	27.458	16.0	30.7	0.114	21	29.064	19.376	16.5	31.2	0.082	34	46.678	31.119	16.0	30.7	0.123
Total Oxygen Injected Per Day (lb)			**26.708**						**20.371**						**29.955**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 3	Point 3A	25	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000
	Point 3B	35	37	47.372	31.581	12.0	26.7	0.114	16	20.485	13.657	12.0	26.7	0.050	37	47.372	31.581	12.0	26.7	0.109
	Point 9A	45	38	52.593	35.062	16.5	31.2	0.148	16	22.144	14.763	16.5	31.2	0.063	36	49.825	33.216	16.5	31.2	0.134
	Point 9B	64	34	51.383	34.255	22.5	37.2	0.172	21	31.949	21.299	23.0	37.7	0.109	34	51.383	34.255	22.5	37.2	0.165
	Point 9C	25	42	49.033	32.689	7.5	22.2	0.098	14	16.344	10.896	7.5	22.2	0.033	41	47.866	31.911	7.5	22.2	0.092
	Point 15A	25	34	40.138	26.759	8.0	22.7	0.082	16	18.889	12.592	8.0	22.7	0.039	33	38.958	25.972	8.0	22.7	0.076
	Point 15B	44	41	55.828	37.219	15.5	30.2	0.152	15	20.593	13.729	16.0	30.7	0.057	78	106.209	70.806	15.5	30.2	0.276
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**24.525**						**11.202**						**27.251**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 4	Point 4A	25	34	40.138	26.759	8.0	22.7	0.082	32	37.777	25.185	8.0	22.7	0.078	28	33.055	22.037	8.0	22.7	0.065
	Point 4B	39	34	45.132	30.088	14.0	28.7	0.117	31	41.150	27.433	14.0	28.7	0.107	29	38.495	25.663	14.0	28.7	0.095
	Point 10A	45	29	40.137	26.758	16.5	31.2	0.113	31	42.905	28.603	16.5	31.2	0.121	25	34.600	23.067	16.5	31.2	0.093
	Point 10B	64	32	50.272	33.515	25.5	40.2	0.182	30	47.130	31.420	25.5	40.2	0.172	30	47.130	31.420	25.5	40.2	0.163
	Point 10C	25	36	42.499	28.333	8.0	22.7	0.087	32	38.191	25.461	8.5	23.2	0.080	27	31.874	21.250	8.0	22.7	0.062
	Point 16A	25	39	45.531	30.354	7.5	22.2	0.091	32	37.359	24.906	7.5	22.2	0.075	25	29.186	19.458	7.5	22.2	0.056
	Point 16B	47	36	51.008	34.006	18.0	32.7	0.150	31	43.924	29.283	18.0	32.7	0.130	25	35.422	23.615	18.0	32.7	0.100
Total Oxygen Injected Per Day (lb)			**26.314**						**24.406**						**20.287**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 5	Point 5A	25	28	32.689	21.793	7.5	22.2	0.065	33	38.526	25.684	7.5	22.2	0.077	29	33.856	22.571	7.5	22.2	0.065
	Point 5B	42	27	36.151	24.101	14.5	29.2	0.095	33	44.185	29.456	14.5	29.2	0.117	29	38.829	25.886	14.5	29.2	0.098
	Point 11A	45	27	37.667	25.111	17.0	31.7	0.108	32	44.642	29.761	17.0	31.7	0.128	29	40.457	26.971	17.0	31.7	0.110
	Point 11B	64	28	42.880	28.587	23.5	38.2	0.148	32	49.006	32.670	23.5	38.2	0.169	28	42.880	28.587	23.5	38.2	0.141
	Point 17A	25	27	31.874	21.250	8.0	22.7	0.065	32	37.777	25.185	8.0	22.7	0.078	30	35.416	23.611	8.0	22.7	0.069
	Point 17B	45	29	40.775	27.183	17.5	32.2	0.118	32	44.993	29.995	17.5	32.2	0.131	29	40.775	27.183	17.5	32.2	0.113
	Point 21A	25	28	33.055	22.037	8.0	22.7	0.068	33	38.958	25.972	8.0	22.7	0.080	30	35.416	23.611	8.0	22.7	0.069
Total Oxygen Injected Per Day (lb)			**21.344**						**24.985**						**21.300**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 6	Point 6A	30	21	24.791	16.527	8.0	22.7	0.051	34	40.138	26.759	8.0	22.7	0.082	32	37.777	25.185	8.0	22.7	0.074
	Point 6B	52	25	36.226	24.151	19.5	34.2	0.112	34	49.267	32.845	19.5	34.2	0.153	35	50.716	33.811	19.5	34.2	0.149
	Point 12A	25	28	32.689	21.793	7.5	22.2	0.065	32	37.359	24.906	7.5	22.2	0.075	29	33.856	22.571	7.5	22.2	0.065
	Point 12B	54	28	41.453	27.635	21.0	35.7	0.133	31	46.215	30.810	21.5	36.2	0.151	28	41.453	27.635	21.0	35.7	0.127
	Point 18A	25	26	30.694	20.463	8.0	22.7	0.063	32	37.777	25.185	8.0	22.7	0.078	20	23.611	15.740	8.0	22.7	0.046
	Point 18B	45	29	40.457	26.971	17.0	31.7	0.116	32	44.642	29.761	17.0	31.7	0.128	63	87.889	58.593	17.0	31.7	0.240
	Point 21B	42	30	40.850	27.233	15.5	30.2	0.111	32	43.573	29.049	15.5	30.2	0.119	30	40.850	27.233	15.5	30.2	0.106
Total Oxygen Injected Per Day (lb)			**20.825**						**25.169**						**25.856**					
System Total Per Day (lb)			**143.01**						**125.78**						**154.28**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-2. 9 North Clinton Fourth Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2019: 548,394 lbs

Oxygen to OU-2 - 9 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Oct-19	31	4,596
Month 2	Nov-19	27	3,448
Month 3	Dec-19	31	2,345
Total Operational Days in Q4 2019			89
Total Oxygen in Q4 2019			10,388.52
Running Total for Oxygen to 9 North Clinton Through Q4 2019 (lbs)			**558,782.97**

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.

			10/14/2019						11/11/2019						12/24/2019					
		O_2%	90.4						89.2						91.9					
		R	10.73						10.73						10.73					
		Temp R (T)	636						637						632					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 1	Point 1A	30	35	43.534	29.023	10.5	25.2	0.097	29	36.071	24.048	10.5	25.2	0.079	21	26.379	17.586	11.0	25.7	0.061
	Point 7A	30	35	42.662	28.441	9.5	24.2	0.091	28	34.130	22.753	9.5	24.2	0.072	17	20.934	13.956	10.0	24.7	0.047
	Point 7B	64	34	53.081	35.387	25.0	39.7	0.186	29	45.275	30.183	25.0	39.7	0.156	24	37.704	25.136	25.5	40.2	0.137
	Point 13A	25	34	38.789	25.860	6.5	21.2	0.073	27	30.803	20.536	6.5	21.2	0.057	17	19.622	13.081	7.0	21.7	0.038
	Point 13B	52	33	48.166	32.111	20.0	34.7	0.148	29	42.328	28.219	20.0	34.7	0.128	21	30.871	20.581	20.5	35.2	0.098
	Point 19A	25	33	38.958	25.972	8.0	22.7	0.078	25	29.513	19.676	8.0	22.7	0.058	22	26.256	17.504	8.5	23.2	0.055
	Point 19B	44	36	49.825	33.216	16.5	31.2	0.137	28	39.062	26.041	17.0	31.7	0.108	20	28.120	18.747	17.5	32.2	0.082
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**25.913**						**21.054**						**16.588**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 2	Point 2A	32	36	45.658	30.439	11.5	26.2	0.106	26	32.975	21.984	11.5	26.2	0.075	17	21.766	14.510	12.0	26.7	0.053
	Point 8A	45	34	47.057	31.371	16.5	31.2	0.130	31	43.247	28.831	17.0	31.7	0.119	20	28.120	18.747	17.5	32.2	0.082
	Point 8B	64	32	49.643	33.095	24.5	39.2	0.172	32	49.959	33.306	25.0	39.7	0.173	23	35.908	23.938	25.0	39.7	0.129
	Point 8C	25	34	39.244	26.163	7.0	21.7	0.075	30	35.024	23.349	7.5	22.2	0.068	20	23.349	15.566	7.5	22.2	0.047
	Point 14A	25	36	42.499	28.333	8.0	22.7	0.085	24	28.643	19.095	8.5	23.2	0.058	19	22.676	15.117	8.5	23.2	0.048
	Point 14B	52	35	50.344	33.563	19.0	33.7	0.150	30	43.471	28.981	19.5	34.2	0.129	20	29.192	19.461	20.0	34.7	0.092
	Point 20A	25	34	39.694	26.462	7.5	22.2	0.078	29	33.856	22.571	7.5	22.2	0.065	19	22.430	14.953	8.0	22.7	0.046
	Point 20B	42	34	46.678	31.119	16.0	30.7	0.127	29	39.814	26.542	16.0	30.7	0.106	21	29.064	19.376	16.5	31.2	0.082
Total Oxygen Injected Per Day (lb)			**29.496**						**25.393**						**18.461**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 3	Point 3A	25	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000
	Point 3B	35	52	65.951	43.967	11.5	26.2	0.153	28	35.512	23.675	11.5	26.2	0.081	20	25.607	17.071	12.0	26.7	0.062
	Point 9A	45	35	48.051	32.034	16.0	30.7	0.130	26	35.985	23.990	16.5	31.2	0.098	18	24.912	16.608	16.5	31.2	0.070
	Point 9B	64	43	64.984	43.323	22.5	37.2	0.213	26	39.293	26.195	22.5	37.2	0.127	18	27.385	18.256	23.0	37.7	0.093
	Point 9C	25	38	43.861	29.241	7.0	21.7	0.084	26	30.354	20.236	7.5	22.2	0.059	18	21.014	14.010	7.5	22.2	0.042
	Point 15A	25	18	21.014	14.010	7.5	22.2	0.041	24	28.333	18.889	8.0	22.7	0.056	18	21.250	14.166	8.0	22.7	0.044
	Point 15B	44	37	50.381	33.588	15.5	30.2	0.134	32	43.573	29.049	15.5	30.2	0.114	19	25.872	17.248	15.5	30.2	0.071
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**24.191**						**17.116**						**12.211**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 4	Point 4A	25	35	40.861	27.241	7.5	22.2	0.080	27	31.874	21.250	8.0	22.7	0.063	21	24.791	16.527	8.0	22.7	0.051
	Point 4B	39	38	50.000	33.334	13.5	28.2	0.125	28	37.168	24.778	14.0	28.7	0.093	22	29.203	19.469	14.0	28.7	0.076
	Point 10A	45	33	45.305	30.203	16.0	30.7	0.123	26	35.985	23.990	16.5	31.2	0.098	19	26.296	17.531	16.5	31.2	0.074
	Point 10B	64	34	53.081	35.387	25.0	39.7	0.186	30	47.130	31.420	25.5	40.2	0.165	21	33.196	22.130	26.0	40.7	0.122
	Point 10C	25	38	44.860	29.907	8.0	22.7	0.090	25	29.513	19.676	8.0	22.7	0.058	18	21.482	14.322	8.5	23.2	0.045
	Point 16A	25	42	48.478	32.319	7.0	21.7	0.093	23	26.852	17.901	7.5	22.2	0.052	17	20.069	13.379	8.0	22.7	0.041
	Point 16B	47	39	54.835	36.557	17.5	32.2	0.156	27	38.256	25.504	18.0	32.7	0.109	19	26.921	17.947	18.0	32.7	0.080
Total Oxygen Injected Per Day (lb)			**27.274**						**20.393**						**15.631**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 5	Point 5A	25	33	38.090	25.393	7.0	21.7	0.073	28	32.689	21.793	7.5	22.2	0.063	25	29.186	19.458	7.5	22.2	0.059
	Point 5B	42	26	34.513	23.008	14.0	28.7	0.087	29	38.829	25.886	14.5	29.2	0.099	28	37.490	24.993	14.5	29.2	0.099
	Point 11A	45	27	37.369	24.912	16.5	31.2	0.103	28	38.753	25.835	16.5	31.2	0.105	26	36.272	24.181	17.0	31.7	0.104
	Point 11B	64	26	39.817	26.545	23.5	38.2	0.134	29	44.411	29.608	23.5	38.2	0.148	27	41.618	27.746	24.0	38.7	0.146
	Point 17A	25	29	33.856	22.571	7.5	22.2	0.066	28	32.689	21.793	7.5	22.2	0.063	27	31.874	21.250	8.0	22.7	0.065
	Point 17B	45	28	39.062	26.041	17.0	31.7	0.109	30	42.181	28.120	17.5	32.2	0.118	27	37.963	25.308	17.5	32.2	0.110
	Point 21A	25	28	33.055	22.037	8.0	22.7	0.066	29	34.235	22.824	8.0	22.7	0.068	26	31.030	20.687	8.5	23.2	0.065
Total Oxygen Injected Per Day (lb)			**20.472**						**21.232**						**20.726**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 6	Point 6A	30	29	33.856	22.571	7.5	22.2	0.066	29	34.235	22.824	8.0	22.7	0.068	25	29.513	19.676	8.0	22.7	0.061
	Point 6B	52	25	36.226	24.151	19.5	34.2	0.109	31	44.920	29.947	19.5	34.2	0.134	26	37.949	25.299	20.0	34.7	0.119
	Point 12A	25	28	32.319	21.546	7.0	21.7	0.062	30	35.024	23.349	7.5	22.2	0.068	25	29.186	19.458	7.5	22.2	0.059
	Point 12B	54	29	42.934	28.622	21.0	35.7	0.135	30	44.414	29.609	21.0	35.7	0.138	26	38.761	25.841	21.5	36.2	0.127
	Point 18A	25	26	30.694	20.463	8.0	22.7	0.062	30	35.416	23.611	8.0	22.7	0.070	25	29.837	19.891	8.5	23.2	0.063
	Point 18B	45	30	41.852	27.901	17.0	31.7	0.117	31	43.247	28.831	17.0	31.7	0.119	25	35.151	23.434	17.5	32.2	0.102
	Point 21B	42	28	38.126	25.418	15.5	30.2	0.102	30	40.850	27.233	15.5	30.2	0.107	25	34.322	22.881	16.0	30.7	0.095
Total Oxygen Injected Per Day (lb)			**20.911**						**22.510**						**19.993**					
System Total Per Day (lb)			**148.26**						**127.70**						**103.61**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-2. 9 North Clinton Third Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2019: 537,587 lbs

Oxygen to OU-2 - 9 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Jul-19	30	3,757
Month 2	Aug-19	29	3,971
Month 3	Sep-19	30	3,079
Total Operational Days in Q3 2019			89
Total Oxygen in Q3 2019			10,807.29
Running Total for Oxygen to 9 North Clinton Through Q3 2019 (lbs)			**548,394.45**

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.

			7/15/2019						8/12/2019						9/16/2019					
		O_2%	92.5						92.1						92.1					
		R	10.73						10.73						10.73					
		Temp R (T)	641						637						639					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 1	Point 1A	30	28	34.828	23.218	10.5	25.2	0.079	28	34.828	23.218	10.5	25.2	0.079	26	32.340	21.560	10.5	25.2	0.073
	Point 7A	30	27	33.249	22.166	10.0	24.7	0.074	28	34.480	22.987	10.0	24.7	0.077	29	35.348	23.566	9.5	24.2	0.077
	Point 7B	64	31	48.701	32.467	25.5	40.2	0.176	27	42.417	28.278	25.5	40.2	0.153	35	54.642	36.428	25.0	39.7	0.194
	Point 13A	25	30	34.226	22.817	6.5	21.2	0.065	27	30.803	20.536	6.5	21.2	0.059	33	37.648	25.099	6.5	21.2	0.071
	Point 13B	52	26	37.949	25.299	20.0	34.7	0.118	27	39.409	26.273	20.0	34.7	0.123	31	45.247	30.165	20.0	34.7	0.141
	Point 19A	25	27	31.874	21.250	8.0	22.7	0.065	28	33.055	22.037	8.0	22.7	0.067	30	35.416	23.611	8.0	22.7	0.072
	Point 19B	44	30	41.852	27.901	17.0	31.7	0.119	28	39.062	26.041	17.0	31.7	0.111	30	41.521	27.680	16.5	31.2	0.116
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**22.234**						**21.397**						**23.806**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 2	Point 2A	32	24	30.439	20.293	11.5	26.2	0.072	28	35.512	23.675	11.5	26.2	0.084	26	32.975	21.984	11.5	26.2	0.077
	Point 8A	45	28	39.062	26.041	17.0	31.7	0.111	30	41.852	27.901	17.0	31.7	0.119	30	41.521	27.680	16.5	31.2	0.116
	Point 8B	64	30	46.836	31.224	25.0	39.7	0.167	30	46.836	31.224	25.0	39.7	0.167	32	49.643	33.095	24.5	39.2	0.174
	Point 8C	25	28	32.319	21.546	7.0	21.7	0.063	29	33.473	22.315	7.0	21.7	0.065	29	33.473	22.315	7.0	21.7	0.065
	Point 14A	25	28	33.055	22.037	8.0	22.7	0.067	30	35.804	23.869	8.5	23.2	0.075	30	35.416	23.611	8.0	22.7	0.072
	Point 14B	52	28	40.573	27.049	19.5	34.2	0.124	30	43.471	28.981	19.5	34.2	0.134	30	43.471	28.981	19.5	34.2	0.133
	Point 20A	25	28	32.689	21.793	7.5	22.2	0.065	29	33.856	22.571	7.5	22.2	0.068	29	33.856	22.571	7.5	22.2	0.067
	Point 20B	42	28	38.441	25.627	16.0	30.7	0.106	29	39.814	26.542	16.0	30.7	0.110	30	41.187	27.458	16.0	30.7	0.113
Total Oxygen Injected Per Day (lb)			**24.790**						**26.257**						**26.187**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 3	Point 3A	25	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000
	Point 3B	35	22	28.167	18.778	12.0	26.7	0.067	46	58.341	38.894	11.5	26.2	0.137	28	35.512	23.675	11.5	26.2	0.083
	Point 9A	45	23	31.832	21.222	16.5	31.2	0.089	23	31.576	21.051	16.0	30.7	0.087	24	32.949	21.966	16.0	30.7	0.091
	Point 9B	64	30	45.338	30.225	22.5	37.2	0.151	28	42.315	28.210	22.5	37.2	0.141	28	42.315	28.210	22.5	37.2	0.141
	Point 9C	25	23	26.852	17.901	7.5	22.2	0.053	26	30.354	20.236	7.5	22.2	0.061	28	32.689	21.793	7.5	22.2	0.065
	Point 15A	25	21	24.791	16.527	8.0	22.7	0.050	26	30.694	20.463	8.0	22.7	0.063	10	11.675	7.783	7.5	22.2	0.023
	Point 15B	44	24	32.680	21.787	15.5	30.2	0.088	30	40.850	27.233	15.5	30.2	0.111	30	40.850	27.233	15.5	30.2	0.110
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**16.003**						**19.192**						**16.433**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 4	Point 4A	25	27	31.874	21.250	8.0	22.7	0.065	28	33.055	22.037	8.0	22.7	0.067	32	37.359	24.906	7.5	22.2	0.074
	Point 4B	39	28	36.842	24.562	13.5	28.2	0.093	29	38.158	25.439	13.5	28.2	0.097	30	39.474	26.316	13.5	28.2	0.100
	Point 10A	45	26	35.985	23.990	16.5	31.2	0.101	27	37.369	24.912	16.5	31.2	0.105	32	43.932	29.288	16.0	30.7	0.121
	Point 10B	64	27	42.417	28.278	25.5	40.2	0.153	30	47.130	31.420	25.5	40.2	0.170	33	51.520	34.347	25.0	39.7	0.183
	Point 10C	25	25	29.513	19.676	8.0	22.7	0.060	29	34.235	22.824	8.0	22.7	0.070	33	38.958	25.972	8.0	22.7	0.079
	Point 16A	25	25	29.186	19.458	7.5	22.2	0.058	29	33.856	22.571	7.5	22.2	0.068	30	35.024	23.349	7.5	22.2	0.070
	Point 16B	47	27	38.256	25.504	18.0	32.7	0.112	30	42.181	28.120	17.5	32.2	0.122	30	42.507	28.338	18.0	32.7	0.124
Total Oxygen Injected Per Day (lb)			**20.540**						**22.347**						**24.038**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 5	Point 5A	25	25	29.186	19.458	7.5	22.2	0.058	34	39.694	26.462	7.5	22.2	0.079	41	48.402	32.268	8.0	22.7	0.098
	Point 5B	42	24	32.134	21.423	14.5	29.2	0.084	32	42.846	28.564	14.5	29.2	0.112	44	58.406	38.937	14.0	28.7	0.150
	Point 11A	45	25	34.600	23.067	16.5	31.2	0.097	30	41.852	27.901	17.0	31.7	0.119	44	60.897	40.598	16.5	31.2	0.170
	Point 11B	64	27	41.618	27.746	24.0	38.7	0.144	33	50.537	33.691	23.5	38.2	0.173	50	76.571	51.048	23.5	38.2	0.262
	Point 17A	25	24	28.333	18.889	8.0	22.7	0.058	34	39.694	26.462	7.5	22.2	0.079	37	43.196	28.797	7.5	22.2	0.086
	Point 17B	45	27	37.963	25.308	17.5	32.2	0.110	33	46.399	30.933	17.5	32.2	0.134	43	59.988	39.992	17.0	31.7	0.170
	Point 21A	25	25	29.513	19.676	8.0	22.7	0.060	33	38.958	25.972	8.0	22.7	0.079	39	46.041	30.694	8.0	22.7	0.094
Total Oxygen Injected Per Day (lb)			**19.544**						**24.863**						**32.971**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 6	Point 6A	30	28	33.055	22.037	8.0	22.7	0.067	30	35.024	23.349	7.5	22.2	0.070	32	37.359	24.906	7.5	22.2	0.074
	Point 6B	52	28	40.573	27.049	19.5	34.2	0.124	31	44.920	29.947	19.5	34.2	0.138	19	27.330	18.220	19.0	33.7	0.082
	Point 12A	25	27	31.521	21.014	7.5	22.2	0.063	29	33.856	22.571	7.5	22.2	0.068	31	35.781	23.854	7.0	21.7	0.070
	Point 12B	54	30	44.414	29.609	21.0	35.7	0.142	29	43.531	29.020	22.0	36.7	0.144	24	35.531	23.687	21.0	35.7	0.114
	Point 18A	25	27	31.874	21.250	8.0	22.7	0.065	28	33.055	22.037	8.0	22.7	0.067	20	23.611	15.740	8.0	22.7	0.048
	Point 18B	45	30	41.852	27.901	17.0	31.7	0.119	29	40.457	26.971	17.0	31.7	0.115	19	26.506	17.671	17.0	31.7	0.075
	Point 21B	42	30	40.850	27.233	15.5	30.2	0.111	30	41.187	27.458	16.0	30.7	0.114	20	27.233	18.155	15.5	30.2	0.074
Total Oxygen Injected Per Day (lb)			**22.113**						**22.883**						**17.176**					
System Total Per Day (lb)			**125.22**						**136.94**						**140.61**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-3. OU-2 34 North Clinton Third Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2020 761,041 lbs

Oxygen to OU-2 - 34 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Jul-20	30	4,810
Month 2	Aug-20	29	5,166
Month 3	Sep-20	30	5,044
Total Operational Days in Q3 2020			89
Total Oxygen in Q3 2020			15,019.39
Running Total for Oxygen to 34 North Clinton Through Q3 2020 (lbs)			**776,060.39**

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)

			7/29/2020						8/24/2020						9/15/2020					
		O_2%	83.8						85.2						82.6					
		R	10.73						10.73						10.73					
		Temp R (T)	634						634						632					
		Depth	SCFH (M)1	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 1	Point 1A	65	31	49.601	42.988	27.0	41.7	0.221	36	57.602	49.921	27.0	41.7	0.261	34	54.402	47.148	27.0	41.7	0.239
	Point 1B	45	26	36.272	31.435	17.0	31.7	0.123	24	33.745	29.245	17.5	32.2	0.118	36	50.222	43.526	17.0	31.7	0.168
	Point 2	30	29	37.475	32.479	12.5	27.2	0.109	27	34.891	30.239	12.5	27.2	0.103	42	54.275	47.038	12.5	27.2	0.156
	Point 13A	65	30	46.243	40.077	24.0	38.7	0.191	28	43.438	37.646	24.5	39.2	0.185	30	46.540	40.335	24.5	39.2	0.193
	Point 13B	45	27	37.068	32.126	16.0	30.7	0.121	27	37.068	32.126	16.0	30.7	0.124	30	41.187	35.695	16.0	30.7	0.133
	Point 14	30	25	30.473	26.410	9.5	24.2	0.079	27	32.911	28.523	9.5	24.2	0.086	34	41.869	36.286	10.0	24.7	0.109
	Point 25A	45	30	41.521	35.985	16.5	31.2	0.138	31	43.247	37.481	17.0	31.7	0.149	34	47.432	41.108	17.0	31.7	0.159
	Point 25B	30	27	33.249	28.816	10.0	24.7	0.088	25	30.786	26.681	10.0	24.7	0.083	36	44.332	38.421	10.0	24.7	0.116
Total Oxygen Injected Per Day (lb)			**34.229**						**35.450**						**40.734**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 2	Point 3A	65	31	48.092	41.679	24.5	39.2	0.201	48	74.464	64.536	24.5	39.2	0.317	25	38.784	33.612	25.0	39.7	0.163
	Point 3B	45	28	37.490	32.491	14.5	29.2	0.117	24	32.134	27.850	14.5	29.2	0.102	24	32.134	27.850	15.0	29.7	0.101
	Point 4	30	28	34.480	29.883	10.0	24.7	0.091	25	30.786	26.681	10.0	24.7	0.083	26	32.017	27.748	10.5	25.2	0.085
	Point 15A	65	28	42.880	37.163	23.5	38.2	0.175	30	45.943	39.817	23.5	38.2	0.190	20	30.629	26.545	23.5	38.2	0.124
	Point 15B	45	28	38.753	33.586	16.5	31.2	0.129	27	37.369	32.386	16.5	31.2	0.127	24	33.216	28.788	16.5	31.2	0.109
	Point 16	30	27	32.569	28.226	9.0	23.7	0.082	25	30.473	26.410	9.5	24.2	0.080	30	36.188	31.363	9.5	24.2	0.092
	Point 26A	45	28	38.753	33.586	16.5	31.2	0.129	28	38.753	33.586	16.5	31.2	0.131	30	41.521	35.985	16.5	31.2	0.137
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**29.584**						**32.946**						**25.938**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 3	Point 5A	65	26	41.601	36.054	27.0	41.7	0.185	29	46.401	40.215	27.0	41.7	0.210	36	57.946	50.220	27.5	42.2	0.258
	Point 5B	45	27	37.369	32.386	16.5	31.2	0.124	27	37.369	32.386	16.5	31.2	0.127	38	53.012	45.944	17.0	31.7	0.177
	Point 6	30	25	29.513	25.578	8.0	22.7	0.072	30	35.416	30.694	8.0	22.7	0.087	34	40.578	35.167	8.5	23.2	0.099
	Point 17A	65	28	43.438	37.646	24.5	39.2	0.182	33	51.194	44.368	24.5	39.2	0.218	40	62.054	53.780	24.5	39.2	0.257
	Point 17B	45	27	37.068	32.126	16.0	30.7	0.121	29	39.814	34.505	16.0	30.7	0.133	38	53.012	45.944	17.0	31.7	0.177
	Point 18	30	29	35.348	30.635	9.5	24.2	0.091	32	39.005	33.805	9.5	24.2	0.102	34	41.869	36.286	10.0	24.7	0.109
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**24.826**						**28.057**						**34.505**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 4	Point 7A	65	31	49.303	42.729	26.5	41.2	0.217	32	50.894	44.108	26.5	41.2	0.228	36	57.255	49.621	26.5	41.2	0.249
	Point 7B	45	28	38.753	33.586	16.5	31.2	0.129	31	43.247	37.481	17.0	31.7	0.149	33	46.037	39.899	17.0	31.7	0.154
	Point 8	30	26	32.340	28.028	10.5	25.2	0.087	31	38.559	33.418	10.5	25.2	0.105	37	46.022	39.886	10.5	25.2	0.122
	Point 19A	65	33	51.843	44.931	25.5	40.2	0.222	30	47.422	41.099	26.0	40.7	0.209	34	53.414	46.292	25.5	40.2	0.227
	Point 19B	45	26	35.985	31.187	16.5	31.2	0.120	29	40.137	34.785	16.5	31.2	0.136	36	50.222	43.526	17.0	31.7	0.168
	Point 20	30	27	33.249	28.816	10.0	24.7	0.088	29	35.712	30.950	10.0	24.7	0.096	38	46.795	40.555	10.0	24.7	0.122
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**27.615**						**29.537**						**33.352**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 5	Point 9A	65	28	44.532	38.594	26.5	41.2	0.196	34	54.402	47.148	27.0	41.7	0.246	0	0.000	0.000	9.5	24.2	0.000
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	30	26	31.692	27.466	9.5	24.2	0.082	30	36.567	31.692	9.5	24.2	0.096	0	0.000	0.000	8.5	23.2	0.000
	Point 21A	65	26	40.591	35.179	25.0	39.7	0.172	35	54.985	47.654	25.5	40.2	0.240	0	0.000	0.000	8.5	23.2	0.000
	Point 21B	45	24	33.216	28.788	16.5	31.2	0.111	26	35.985	31.187	16.5	31.2	0.122	0	0.000	0.000	8.5	23.2	0.000
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**17.934**						**22.530**						**0.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 6	Point 11A	65	25	39.275	34.038	25.5	40.2	0.169	28	44.261	38.359	26.0	40.7	0.196	34	53.745	46.579	26.0	40.7	0.231
	Point 11B	45	26	35.985	31.187	16.5	31.2	0.120	30	41.521	35.985	16.5	31.2	0.141	34	47.432	41.108	17.0	31.7	0.159
	Point 12	30	27	33.249	28.816	10.0	24.7	0.088	29	35.712	30.950	10.0	24.7	0.096	36	44.778	38.808	10.5	25.2	0.119
	Point 23	65	30	47.422	41.099	26.0	40.7	0.206	30	47.422	41.099	26.0	40.7	0.209	30	47.422	41.099	26.0	40.7	0.204
	Point 24A	55	25	37.270	32.301	21.5	36.2	0.144	31	46.215	40.053	21.5	36.2	0.182	39	58.141	50.389	21.5	36.2	0.222
	Point 24B	30	27	33.584	29.106	10.5	25.2	0.090	30	37.315	32.340	10.5	25.2	0.102	35	43.534	37.730	10.5	25.2	0.116
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**26.129**						**29.601**						**33.616**					
System Total Per Day (lb)			**160.32**						**178.12**						**168.14**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-3. OU-2 34 North Clinton Second Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2020 | 747,611 | lbs

Oxygen to OU-2 - 34 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Apr-20	23	3,174
Month 2	May-20	29	5,961
Month 3	Jun-20	27	4,296
Total Operational Days in Q2 2020			79
Total Oxygen in Q2 2020			13,430.70
Running Total for Oxygen to 34 North Clinton Through Q2 2020 (lbs)			**761,041.70**

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)

			4/21/2020						5/27/2020						6/24/2020					
		O_2%	73.2						81.6						81.6					
		R	10.73						10.73						10.73					
		Temp R (T)	634						632						631					
		Depth	SCFH (M)1	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 1	Point 1A	65	27	43.460	37.665	27.5	42.2	0.171	36	57.602	49.921	27.0	41.7	0.250	28	44.801	38.828	27.0	41.7	0.195
	Point 1B	45	24	33.745	29.245	17.5	32.2	0.101	40	55.803	48.362	17.0	31.7	0.184	32	44.642	38.690	17.0	31.7	0.148
	Point 2	30	24	31.014	26.879	12.5	27.2	0.079	46	59.444	51.518	12.5	27.2	0.169	28	36.183	31.359	12.5	27.2	0.103
	Point 13A	65	33	51.194	44.368	24.5	39.2	0.187	32	49.643	43.024	24.5	39.2	0.203	31	47.784	41.413	24.0	38.7	0.193
	Point 13B	45	28	38.753	33.586	16.5	31.2	0.113	33	45.305	39.265	16.0	30.7	0.145	28	38.441	33.315	16.0	30.7	0.123
	Point 14	30	25	30.786	26.681	10.0	24.7	0.071	36	43.881	38.030	9.5	24.2	0.111	27	32.911	28.523	9.5	24.2	0.083
	Point 25A	45	28	39.062	33.854	17.0	31.7	0.115	40	55.803	48.362	17.0	31.7	0.184	26	36.272	31.435	17.0	31.7	0.120
	Point 25B	30	25	31.096	26.950	10.5	25.2	0.073	36	44.332	38.421	10.0	24.7	0.114	28	34.480	29.883	10.0	24.7	0.089
Total Oxygen Injected Per Day (lb)			**29.133**						**43.552**						**33.741**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 2	Point 3A	65	26	40.846	35.400	25.5	40.2	0.153	42	65.571	56.828	25.0	39.7	0.271	14	21.994	19.062	25.0	39.7	0.091
	Point 3B	45	27	36.459	31.598	15.0	29.7	0.101	43	58.065	50.323	15.0	29.7	0.180	26	35.109	30.428	14.5	29.2	0.107
	Point 4	30	28	34.828	30.184	10.5	25.2	0.082	43	53.485	46.354	10.5	25.2	0.141	29	36.071	31.262	10.0	24.7	0.093
	Point 15A	65	28	43.160	37.405	24.0	38.7	0.156	29	44.701	38.741	24.0	38.7	0.180	30	46.243	40.077	23.5	38.2	0.185
	Point 15B	45	28	38.753	33.586	16.5	31.2	0.113	41	56.745	49.179	16.5	31.2	0.185	30	41.521	35.985	16.5	31.2	0.135
	Point 16	30	28	34.130	29.579	9.5	24.2	0.077	46	56.070	48.594	9.5	24.2	0.142	26	31.692	27.466	9.0	23.7	0.078
	Point 26A	45	30	41.852	36.272	17.0	31.7	0.124	39	53.977	46.780	16.5	31.2	0.176	28	39.062	33.854	16.5	31.2	0.127
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**25.767**						**40.769**						**26.141**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 3	Point 5A	65	26	41.850	36.270	27.5	42.2	0.165	35	56.002	48.535	27.0	41.7	0.244	28	44.801	38.828	27.0	41.7	0.195
	Point 5B	45	26	36.272	31.435	17.0	31.7	0.107	37	51.209	44.381	16.5	31.2	0.167	29	40.137	34.785	16.5	31.2	0.131
	Point 6	30	30	35.804	31.030	8.5	23.2	0.077	37	43.680	37.856	8.0	22.7	0.103	30	35.416	30.694	8.0	22.7	0.084
	Point 17A	65	29	44.989	38.990	24.5	39.2	0.164	37	57.400	49.746	24.5	39.2	0.235	36	55.848	48.402	24.5	39.2	0.229
	Point 17B	45	30	41.521	35.985	16.5	31.2	0.121	38	52.593	45.580	16.5	31.2	0.171	29	40.137	34.785	16.5	31.2	0.131
	Point 18	30	29	35.712	30.950	10.0	24.7	0.082	32	39.406	34.152	10.0	24.7	0.102	30	36.567	31.692	9.5	24.2	0.092
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**22.941**						**32.667**						**27.578**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 4	Point 7A	65	26	41.351	35.838	26.5	41.2	0.159	38	60.436	52.378	26.5	41.2	0.260	27	42.942	37.216	26.5	41.2	0.185
	Point 7B	45	30	41.852	36.272	17.0	31.7	0.124	34	47.432	41.108	17.0	31.7	0.157	28	38.753	33.586	16.5	31.2	0.126
	Point 8	30	22	27.635	23.950	11.0	25.7	0.066	48	59.704	51.744	10.5	25.2	0.157	25	31.096	26.950	10.5	25.2	0.082
	Point 19A	65	24	37.938	32.880	26.0	40.7	0.144	39	61.269	53.100	25.5	40.2	0.257	28	43.988	38.123	25.5	40.2	0.185
	Point 19B	45	26	36.272	31.435	17.0	31.7	0.107	40	55.803	48.362	17.0	31.7	0.184	26	35.985	31.187	16.5	31.2	0.117
	Point 20	30	26	32.340	28.028	10.5	25.2	0.076	40	49.754	43.120	10.5	25.2	0.131	26	32.017	27.748	10.0	24.7	0.083
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**21.634**						**36.655**						**24.880**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 5	Point 9A	65	23	36.801	31.894	27.0	41.7	0.143	30	47.713	41.351	26.5	41.2	0.205	31	49.303	42.729	26.5	41.2	0.212
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	30	28	34.480	29.883	10.0	24.7	0.079	31	38.175	33.085	10.0	24.7	0.098	30	36.567	31.692	9.5	24.2	0.092
	Point 21A	65	25	39.275	34.038	25.5	40.2	0.147	32	49.959	43.297	25.0	39.7	0.207	27	42.153	36.532	25.0	39.7	0.175
	Point 21B	45	32	44.289	38.383	16.5	31.2	0.129	30	41.521	35.985	16.5	31.2	0.135	29	40.137	34.785	16.5	31.2	0.131
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**15.956**						**20.649**						**19.526**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 6	Point 11A	65	30	47.422	41.099	26.0	40.7	0.180	34	53.745	46.579	26.0	40.7	0.228	30	47.130	40.846	25.5	40.2	0.198
	Point 11B	45	27	37.667	32.645	17.0	31.7	0.111	30	41.521	35.985	16.5	31.2	0.135	33	45.673	39.583	16.5	31.2	0.149
	Point 12	30	28	34.828	30.184	10.5	25.2	0.082	33	40.638	35.219	10.0	24.7	0.105	30	36.943	32.017	10.0	24.7	0.095
	Point 23	65	25	39.761	34.459	26.5	41.2	0.153	32	50.894	44.108	26.5	41.2	0.219	25	39.761	34.459	26.5	41.2	0.171
	Point 24A	55	20	29.816	25.841	21.5	36.2	0.101	33	49.196	42.637	21.5	36.2	0.186	26	38.761	33.593	21.5	36.2	0.147
	Point 24B	30	26	32.659	28.305	11.0	25.7	0.078	32	39.803	34.496	10.5	25.2	0.105	28	34.828	30.184	10.5	25.2	0.092
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**22.556**						**31.260**						**27.244**					
System Total Per Day (lb)			**137.99**						**205.55**						**159.11**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-3. OU-2 34 North Clinton First Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q4 2019 | 731,518 | lbs

Oxygen to OU-2 - 34 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Jan-20	28	5,192
Month 2	Feb-20	29	5,095
Month 3	Mar-20	31	5,807
Total Operational Days in Q1 2020			88
Total Oxygen in Q1 2020			16,093.19
Running Total for Oxygen to 34 North Clinton Through Q1 2020 (lbs)			**747,611.19**

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)

			1/28/2020						2/25/2020						3/26/2020					
		O_2%	83.5						88						74.9					
		R	10.73						10.73						10.73					
		Temp R (T)	634						645						630					
		Depth	SCFH (M)1	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 1	Point 1A	65	35	56.002	48.535	27.0	41.7	0.248	36	57.602	49.921	27.0	41.7	0.265	36	57.946	50.220	27.5	42.2	0.235
	Point 1B	45	32	44.993	38.994	17.5	32.2	0.154	34	47.805	41.431	17.5	32.2	0.170	35	49.211	42.649	17.5	32.2	0.152
	Point 2	30	32	41.731	36.167	13.0	27.7	0.123	28	36.183	31.359	12.5	27.2	0.108	40	52.163	45.208	13.0	27.7	0.139
	Point 13A	65	32	49.643	43.024	24.5	39.2	0.207	32	49.643	43.024	24.5	39.2	0.214	34	53.081	46.004	25.0	39.7	0.202
	Point 13B	45	31	42.559	36.885	16.0	30.7	0.139	32	43.932	38.075	16.0	30.7	0.149	32	44.289	38.383	16.5	31.2	0.133
	Point 14	30	33	40.638	35.219	10.0	24.7	0.107	31	37.786	32.748	9.5	24.2	0.101	34	41.869	36.286	10.0	24.7	0.099
	Point 25A	45	37	51.617	44.735	17.0	31.7	0.174	30	41.852	36.272	17.0	31.7	0.146	35	49.211	42.649	17.5	32.2	0.152
	Point 25B	30	60	74.631	64.680	10.5	25.2	0.200	29	35.712	30.950	10.0	24.7	0.097	31	38.559	33.418	10.5	25.2	0.093
Total Oxygen Injected Per Day (lb)			**43.277**						**40.001**						**38.578**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 2	Point 3A	65	30	47.130	40.846	25.5	40.2	0.202	27	42.417	36.762	25.5	40.2	0.188	33	51.843	44.931	25.5	40.2	0.200
	Point 3B	45	33	44.561	38.620	15.0	29.7	0.141	25	33.759	29.257	15.0	29.7	0.110	32	43.211	37.449	15.5	30.2	0.125
	Point 4	30	32	39.803	34.496	10.5	25.2	0.107	26	32.340	28.028	10.5	25.2	0.090	30	37.315	32.340	10.5	25.2	0.090
	Point 15A	65	33	50.867	44.085	24.0	38.7	0.209	30	46.243	40.077	24.0	38.7	0.197	32	49.325	42.749	24.0	38.7	0.183
	Point 15B	45	34	47.057	40.782	16.5	31.2	0.156	27	37.369	32.386	16.5	31.2	0.128	34	47.057	40.782	17.0	31.7	0.143
	Point 16	30	33	40.224	34.861	9.5	24.2	0.104	26	31.692	27.466	9.5	24.2	0.085	30	36.567	31.692	9.5	24.2	0.085
	Point 26A	45	32	44.642	38.690	17.0	31.7	0.151	27	37.667	32.645	17.0	31.7	0.132	34	47.432	41.108	17.0	31.7	0.144
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**34.199**						**29.760**						**31.093**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 3	Point 5A	65	41	65.994	57.195	27.5	42.2	0.296	25	40.240	34.875	27.5	42.2	0.187	27	43.460	37.665	27.5	42.2	0.176
	Point 5B	45	32	44.642	38.690	17.0	31.7	0.151	26	35.985	31.187	16.5	31.2	0.124	28	39.062	33.854	17.0	31.7	0.119
	Point 6	30	31	36.997	32.064	8.5	23.2	0.091	28	33.417	28.961	8.5	23.2	0.085	28	33.417	28.961	8.5	23.2	0.074
	Point 17A	65	42	65.156	56.469	24.5	39.2	0.272	27	41.886	36.301	24.5	39.2	0.181	30	46.540	40.335	24.5	39.2	0.175
	Point 17B	45	34	47.057	40.782	16.5	31.2	0.156	28	38.753	33.586	16.5	31.2	0.133	29	40.457	35.063	17.0	31.7	0.123
	Point 18	30	30	36.943	32.017	10.0	24.7	0.097	29	35.712	30.950	10.0	24.7	0.097	30	36.943	32.017	10.0	24.7	0.088
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**34.018**						**25.845**						**24.174**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 4	Point 7A	65	30	47.713	41.351	26.5	41.2	0.209	25	39.761	34.459	26.5	41.2	0.181	47	75.202	65.175	27.0	41.7	0.301
	Point 7B	45	30	41.852	36.272	17.0	31.7	0.141	27	37.667	32.645	17.0	31.7	0.132	33	46.399	40.212	17.5	32.2	0.143
	Point 8	30	27	33.915	29.393	11.0	25.7	0.093	26	32.340	28.028	10.5	25.2	0.090	43	54.013	46.811	11.0	25.7	0.133
	Point 19A	65	27	42.680	36.989	26.0	40.7	0.185	25	39.519	34.250	26.0	40.7	0.177	39	61.649	53.429	26.0	40.7	0.241
	Point 19B	45	28	39.062	33.854	17.0	31.7	0.132	30	41.852	36.272	17.0	31.7	0.146	38	53.012	45.944	17.0	31.7	0.161
	Point 20	30	27	33.584	29.106	10.5	25.2	0.090	28	34.828	30.184	10.5	25.2	0.097	37	46.022	39.886	10.5	25.2	0.111
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**27.184**						**26.306**						**34.931**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 5	Point 9A	65	27	43.201	37.441	27.0	41.7	0.192	30	47.713	41.351	26.5	41.2	0.217	42	67.604	58.590	27.5	42.2	0.274
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	30	26	32.017	27.748	10.0	24.7	0.084	31	38.175	33.085	10.0	24.7	0.104	34	41.869	36.286	10.0	24.7	0.099
	Point 21A	65	28	43.988	38.123	25.5	40.2	0.188	34	53.414	46.292	25.5	40.2	0.237	44	69.124	59.908	25.5	40.2	0.267
	Point 21B	45	27	37.369	32.386	16.5	31.2	0.124	31	42.905	37.184	16.5	31.2	0.148	36	50.222	43.526	17.0	31.7	0.153
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**18.813**						**22.549**						**25.375**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 6	Point 11A	65	31	49.003	42.469	26.0	40.7	0.212	29	45.842	39.729	26.0	40.7	0.206	36	57.255	49.621	26.5	41.2	0.227
	Point 11B	45	28	39.062	33.854	17.0	31.7	0.132	29	40.457	35.063	17.0	31.7	0.141	32	44.642	38.690	17.0	31.7	0.136
	Point 12	30	30	37.315	32.340	10.5	25.2	0.100	28	34.828	30.184	10.5	25.2	0.097	32	39.803	34.496	10.5	25.2	0.096
	Point 23	65	28	44.532	38.594	26.5	41.2	0.195	33	52.484	45.486	26.5	41.2	0.238	39	62.402	54.082	27.0	41.7	0.250
	Point 24A	55	25	37.270	32.301	21.5	36.2	0.144	32	47.706	41.345	21.5	36.2	0.190	42	63.045	54.639	22.0	36.7	0.222
	Point 24B	30	27	33.584	29.106	10.5	25.2	0.090	30	37.315	32.340	10.5	25.2	0.104	34	42.708	37.014	11.0	25.7	0.105
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**27.924**						**31.228**						**33.158**					
System Total Per Day (lb)			**185.41**						**175.69**						**187.31**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-3. OU-2 34 North Clinton Fourth Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2019 | 715,268 | lbs

Oxygen to OU-2 - 34 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Oct-19	31	5,723
Month 2	Nov-19	30	4,476
Month 3	Dec-19	31	6,051
Total Operational Days in Q4 2019			92
Total Oxygen in Q4 2019			16,249.93
Running Total for Oxygen to 34 North Clinton Through Q4 2019 (lbs)			**731,517.60**

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)

			10/23/2019						11/18/2019						12/16/2019					
		O_2%	84.4						86						87.2					
		R	10.73						10.73						10.73					
		Temp R (T)	632						632						631					
		Depth	SCFH (M)1	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 1	Point 1A	65	33	52.802	45.761	27.0	41.7	0.237	28	44.801	38.828	27.0	41.7	0.205	30	48.288	41.850	27.5	42.2	0.227
	Point 1B	45	30	42.181	36.557	17.5	32.2	0.147	23	32.339	28.027	17.5	32.2	0.114	24	33.745	29.245	17.5	32.2	0.121
	Point 2	30	38	49.106	42.558	12.5	27.2	0.144	22	28.430	24.639	12.5	27.2	0.085	25	32.602	28.255	13.0	27.7	0.101
	Point 13A	65	30	46.540	40.335	24.5	39.2	0.197	27	41.886	36.301	24.5	39.2	0.180	32	49.959	43.297	25.0	39.7	0.221
	Point 13B	45	30	41.187	35.695	16.0	30.7	0.136	26	35.695	30.936	16.0	30.7	0.120	30	41.521	35.985	16.5	31.2	0.145
	Point 14	30	28	34.130	29.579	9.5	24.2	0.089	22	26.816	23.241	9.5	24.2	0.071	26	32.017	27.748	10.0	24.7	0.088
	Point 25A	45	31	43.247	37.481	17.0	31.7	0.148	22	30.691	26.599	17.0	31.7	0.107	28	39.369	34.120	17.5	32.2	0.141
	Point 25B	30	28	34.480	29.883	10.0	24.7	0.092	21	25.860	22.412	10.0	24.7	0.070	28	34.828	30.184	10.5	25.2	0.098
Total Oxygen Injected Per Day (lb)			**38.082**						**30.533**						**36.584**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 2	Point 3A	65	30	47.130	40.846	25.5	40.2	0.204	41	64.411	55.823	25.5	40.2	0.285	30	47.130	40.846	25.5	40.2	0.211
	Point 3B	45	35	47.262	40.960	15.0	29.7	0.151	19	25.656	22.236	15.0	29.7	0.084	25	33.759	29.257	15.5	30.2	0.114
	Point 4	30	42	52.241	45.276	10.5	25.2	0.142	23	28.608	24.794	10.5	25.2	0.079	29	36.071	31.262	10.5	25.2	0.101
	Point 15A	65	28	43.160	37.405	24.0	38.7	0.180	26	40.077	34.733	24.0	38.7	0.170	31	47.784	41.413	24.0	38.7	0.206
	Point 15B	45	35	48.441	41.982	16.5	31.2	0.163	26	35.985	31.187	16.5	31.2	0.123	28	38.753	33.586	17.0	31.7	0.137
	Point 16	30	33	40.224	34.861	9.5	24.2	0.105	22	26.816	23.241	9.5	24.2	0.071	28	34.130	29.579	9.5	24.2	0.092
	Point 26A	45	33	45.673	39.583	16.5	31.2	0.154	27	37.667	32.645	17.0	31.7	0.131	30	41.521	35.985	17.5	32.2	0.149
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**35.189**						**30.208**						**32.374**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 3	Point 5A	65	30	48.001	41.601	27.0	41.7	0.216	20	32.001	27.734	27.0	41.7	0.147	37	59.202	51.308	27.0	41.7	0.276
	Point 5B	45	30	41.521	35.985	16.5	31.2	0.140	22	30.448	26.389	16.5	31.2	0.104	34	47.432	41.108	17.0	31.7	0.168
	Point 6	30	31	36.997	32.064	8.5	23.2	0.093	24	28.643	24.824	8.5	23.2	0.073	32	38.191	33.099	8.5	23.2	0.099
	Point 17A	65	30	46.540	40.335	24.5	39.2	0.197	22	34.130	29.579	24.5	39.2	0.147	31	48.397	41.944	25.0	39.7	0.214
	Point 17B	45	33	45.673	39.583	16.5	31.2	0.154	23	31.832	27.588	16.5	31.2	0.109	36	50.222	43.526	17.0	31.7	0.178
	Point 18	30	30	36.943	32.017	10.0	24.7	0.098	28	34.480	29.883	10.0	24.7	0.094	32	39.803	34.496	10.5	25.2	0.112
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**28.708**						**21.566**						**33.485**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 4	Point 7A	65	28	44.532	38.594	26.5	41.2	0.198	25	39.761	34.459	26.5	41.2	0.180	30	48.001	41.601	27.0	41.7	0.223
	Point 7B	45	29	40.457	35.063	17.0	31.7	0.138	28	39.062	33.854	17.0	31.7	0.136	27	37.963	32.901	17.5	32.2	0.136
	Point 8	30	35	43.534	37.730	10.5	25.2	0.118	24	29.254	25.353	9.5	24.2	0.078	24	30.147	26.127	11.0	25.7	0.086
	Point 19A	65	30	47.130	40.846	25.5	40.2	0.204	30	47.422	41.099	26.0	40.7	0.212	26	41.351	35.838	26.5	41.2	0.190
	Point 19B	45	30	41.852	36.272	17.0	31.7	0.143	26	36.272	31.435	17.0	31.7	0.126	29	40.775	35.338	17.5	32.2	0.147
	Point 20	30	31	38.559	33.418	10.5	25.2	0.105	24	29.852	25.872	10.5	25.2	0.083	27	34.244	29.678	11.5	26.2	0.100
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**29.019**						**26.085**						**28.262**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 5	Point 9A	65	28	44.532	38.594	26.5	41.2	0.198	23	36.580	31.702	26.5	41.2	0.166	100	160.005	138.671	27.0	41.7	0.745
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	30	30	36.943	32.017	10.0	24.7	0.098	25	30.473	26.410	9.5	24.2	0.081	26	32.340	28.028	10.5	25.2	0.091
	Point 21A	65	32	49.959	43.297	25.0	39.7	0.214	22	34.347	29.767	25.0	39.7	0.150	23	36.133	31.315	25.5	40.2	0.162
	Point 21B	45	40	55.361	47.979	16.5	31.2	0.186	22	30.448	26.389	16.5	31.2	0.104	25	34.877	30.226	17.0	31.7	0.123
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**22.290**						**16.031**						**35.880**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 6	Point 11A	65	30	47.422	41.099	26.0	40.7	0.208	24	37.938	32.880	26.0	40.7	0.170	26	41.351	35.838	26.5	41.2	0.190
	Point 11B	45	30	41.852	36.272	17.0	31.7	0.143	24	33.482	29.017	17.0	31.7	0.117	29	40.775	35.338	17.5	32.2	0.147
	Point 12	30	37	46.022	39.886	10.5	25.2	0.125	24	29.555	25.614	10.0	24.7	0.080	28	34.828	30.184	10.5	25.2	0.098
	Point 23	65	32	50.894	44.108	26.5	41.2	0.226	24	38.170	33.081	26.5	41.2	0.173	24	38.401	33.281	27.0	41.7	0.179
	Point 24A	55	30	44.724	38.761	21.5	36.2	0.175	24	35.779	31.009	21.5	36.2	0.142	28	42.030	36.426	22.0	36.7	0.172
	Point 24B	30	30	37.315	32.340	10.5	25.2	0.101	27	33.584	29.106	10.5	25.2	0.093	30	37.684	32.659	11.0	25.7	0.108
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**31.316**						**24.794**						**28.598**					
System Total Per Day (lb)			**184.61**						**149.22**						**195.18**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-3. OU-2 34 North Clinton Third Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2019 | 699,935 | lbs

Oxygen to OU-2 - 34 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Jul-19	29	5,131
Month 2	Aug-19	29	5,328
Month 3	Sep-19	30	4,873
Total Operational Days in Q3 2019			88
Total Oxygen in Q3 2019			15,332.86
Running Total for Oxygen to 34 North Clinton Through Q3 2019 (lbs)			**715,267.58**

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)

			7/23/2019						8/20/2019						9/23/2019					
		O_2%	83.2						84.4						82.4					
		R	10.73						10.73						10.73					
		Temp R (T)	638						633						632					
		Depth	SCFH (M)1	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 1	Point 1A	65	36	57.602	49.921	27.0	41.7	0.253	30	48.001	41.601	27.0	41.7	0.216	32	50.894	44.108	26.5	41.2	0.221
	Point 1B	45	32	44.993	38.994	17.5	32.2	0.153	30	41.852	36.272	17.0	31.7	0.143	26	36.272	31.435	17.0	31.7	0.121
	Point 2	30	34	43.937	38.079	12.5	27.2	0.126	36	46.521	40.318	12.5	27.2	0.136	25	32.306	27.999	12.5	27.2	0.093
	Point 13A	65	30	46.540	40.335	24.5	39.2	0.192	32	49.325	42.749	24.0	38.7	0.206	28	43.160	37.405	24.0	38.7	0.176
	Point 13B	45	30	41.187	35.695	16.0	30.7	0.133	30	41.187	35.695	16.0	30.7	0.136	28	38.126	33.043	15.5	30.2	0.121
	Point 14	30	30	36.943	32.017	10.0	24.7	0.096	27	32.911	28.523	9.5	24.2	0.086	26	31.692	27.466	9.5	24.2	0.081
	Point 25A	45	31	43.247	37.481	17.0	31.7	0.144	30	41.521	35.985	16.5	31.2	0.140	28	38.753	33.586	16.5	31.2	0.127
	Point 25B	30	29	35.712	30.950	10.0	24.7	0.093	28	34.480	29.883	10.0	24.7	0.092	26	32.017	27.748	10.0	24.7	0.083
Total Oxygen Injected Per Day (lb)			**38.088**						**36.911**						**32.735**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 2	Point 3A	65	23	36.133	31.315	25.5	40.2	0.153	22	34.562	29.954	25.5	40.2	0.150	28	43.988	38.123	25.5	40.2	0.186
	Point 3B	45	39	52.663	45.641	15.0	29.7	0.165	33	44.185	38.293	14.5	29.2	0.139	26	35.109	30.428	14.5	29.2	0.108
	Point 4	30	30	37.315	32.340	10.5	25.2	0.099	34	41.869	36.286	10.0	24.7	0.111	29	36.071	31.262	10.0	24.7	0.094
	Point 15A	65	32	49.325	42.749	24.0	38.7	0.201	29	44.411	38.490	23.5	38.2	0.183	30	46.243	40.077	23.5	38.2	0.186
	Point 15B	45	34	47.057	40.782	16.5	31.2	0.155	34	47.057	40.782	16.5	31.2	0.158	34	47.057	40.782	16.0	30.7	0.152
	Point 16	30	28	34.130	29.579	9.5	24.2	0.087	31	37.394	32.408	9.0	23.7	0.095	32	39.005	33.805	9.0	23.7	0.097
	Point 26A	45	33	46.037	39.899	17.0	31.7	0.154	30	41.521	35.985	16.5	31.2	0.140	32	44.642	38.690	16.5	31.2	0.147
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**32.423**						**31.223**						**31.046**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 3	Point 5A	65	28	45.069	39.060	27.5	42.2	0.200	28	44.801	38.828	27.0	41.7	0.201	29	46.401	40.215	27.0	41.7	0.204
	Point 5B	45	30	41.521	35.985	16.5	31.2	0.136	30	41.521	35.985	16.5	31.2	0.140	26	35.695	30.936	16.0	30.7	0.115
	Point 6	30	30	35.804	31.030	8.5	23.2	0.087	30	35.416	30.694	8.0	22.7	0.087	29	34.235	29.671	8.0	22.7	0.082
	Point 17A	65	30	46.540	40.335	24.5	39.2	0.192	30	46.243	40.077	24.0	38.7	0.193	30	46.243	40.077	24.0	38.7	0.188
	Point 17B	45	31	42.905	37.184	16.5	31.2	0.141	31	42.905	37.184	16.5	31.2	0.144	31	42.559	36.885	16.0	30.7	0.138
	Point 18	30	28	34.480	29.883	10.0	24.7	0.090	30	36.567	31.692	9.5	24.2	0.095	30	36.567	31.692	9.5	24.2	0.093
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**27.109**						**27.503**						**26.248**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 4	Point 7A	65	37	58.846	51.000	26.5	41.2	0.255	35	55.326	47.949	26.0	40.7	0.243	29	45.842	39.729	26.0	40.7	0.196
	Point 7B	45	28	39.062	33.854	17.0	31.7	0.130	30	41.521	35.985	16.5	31.2	0.140	28	38.753	33.586	16.5	31.2	0.127
	Point 8	30	24	30.147	26.127	11.0	25.7	0.082	36	44.778	38.808	10.5	25.2	0.122	29	36.071	31.262	10.5	25.2	0.096
	Point 19A	65	35	55.326	47.949	26.0	40.7	0.237	30	47.130	40.846	25.5	40.2	0.204	32	50.272	43.569	25.5	40.2	0.213
	Point 19B	45	26	36.272	31.435	17.0	31.7	0.121	32	44.289	38.383	16.5	31.2	0.149	28	38.753	33.586	16.5	31.2	0.127
	Point 20	30	25	31.096	26.950	10.5	25.2	0.083	35	43.100	37.354	10.0	24.7	0.115	28	34.480	29.883	10.0	24.7	0.090
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**29.063**						**31.073**						**27.180**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 5	Point 9A	65	35	56.002	48.535	27.0	41.7	0.246	34	54.074	46.865	26.5	41.2	0.240	26	41.351	35.838	26.5	41.2	0.179
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	30	28	34.480	29.883	10.0	24.7	0.090	30	36.567	31.692	9.5	24.2	0.095	29	35.348	30.635	9.5	24.2	0.090
	Point 21A	65	27	42.417	36.762	25.5	40.2	0.180	28	43.714	37.885	25.0	39.7	0.187	27	42.153	36.532	25.0	39.7	0.176
	Point 21B	45	33	45.673	39.583	16.5	31.2	0.150	36	49.825	43.181	16.5	31.2	0.167	25	34.322	29.746	16.0	30.7	0.111
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**21.292**						**22.065**						**17.814**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 6	Point 11A	65	31	49.003	42.469	26.0	40.7	0.210	40	62.840	54.462	25.5	40.2	0.272	30	47.130	40.846	25.5	40.2	0.200
	Point 11B	45	29	40.457	35.063	17.0	31.7	0.135	34	47.057	40.782	16.5	31.2	0.158	28	38.753	33.586	16.5	31.2	0.127
	Point 12	30	32	39.803	34.496	10.5	25.2	0.106	38	46.795	40.555	10.0	24.7	0.124	28	34.480	29.883	10.0	24.7	0.090
	Point 23	65	30	47.130	40.846	25.5	40.2	0.200	30	47.422	41.099	26.0	40.7	0.208	30	47.422	41.099	26.0	40.7	0.203
	Point 24A	55	28	41.742	36.177	21.5	36.2	0.159	37	55.160	47.805	21.5	36.2	0.215	26	38.492	33.360	21.0	35.7	0.145
	Point 24B	30	29	36.071	31.262	10.5	25.2	0.096	34	42.291	36.652	10.5	25.2	0.115	28	34.828	30.184	10.5	25.2	0.092
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**28.969**						**34.954**						**27.422**					
System Total Per Day (lb)			**176.94**						**183.73**						**162.44**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-4. OU-2 33 North Clinton Third Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2020: 814,811 lbs

Oxygen to OU-2 - 33 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Jul-20	31	2,084
Month 2	Aug-20	29	1,509
Month 3	Sep-20	30	1,561
Total Operational Days in Q3 2020			90
Total Oxygen in Q3 2020			5,154.71
Running Total for Oxygen to 33 North Clinton Through Q3 2020 (lbs)			**819,965.71**

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)
* 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)

			7/8/2020						8/13/2020						9/16/2020					
	O_2%		61.3						63.5						63.5					
	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)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 1	Point 1A	62	10	13.729	8.924	16.0	30.7	0.025	10	13.158	8.553	13.5	28.2	0.023	10	13.158	8.553	13.5	28.2	0.023
	Point 1B	46	10	13.617	8.851	15.5	30.2	0.024	10	13.158	8.553	13.5	28.2	0.023	10	13.158	8.553	13.5	28.2	0.023
	Point 6A	65	10	13.729	8.924	16.0	30.7	0.025	10	13.158	8.553	13.5	28.2	0.023	10	13.158	8.553	13.5	28.2	0.023
	Point 6B	46	10	13.840	8.996	16.5	31.2	0.026	10	13.274	8.628	14.0	28.7	0.023	10	13.274	8.628	14.0	28.7	0.023
	Point 11	46	10	13.840	8.996	16.5	31.2	0.026	10	13.274	8.628	14.0	28.7	0.023	10	13.274	8.628	14.0	28.7	0.023
	Point 35	41	17	22.566	14.668	14.0	28.7	0.038	10	13.041	8.477	13.0	27.7	0.022	10	13.041	8.477	13.0	27.7	0.022
	Point 40	41	21	27.632	17.961	13.5	28.2	0.046	10	13.158	8.553	13.5	28.2	0.023	10	13.158	8.553	13.5	28.2	0.023
	Point 45	31	20	24.125	15.681	9.0	23.7	0.034	17	20.506	13.329	9.0	23.7	0.030	17	20.506	13.329	9.0	23.7	0.030
Total Oxygen Injected Per Day (lb)			**7.801**						**6.073**						**6.073**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 2	Point 2A	67	30	40.510	26.332	15.0	29.7	0.071	10	13.274	8.628	14.0	28.7	0.023	10	13.274	8.628	14.0	28.7	0.023
	Point 2B	46	10	13.389	8.703	14.5	29.2	0.023	10	13.158	8.553	13.5	28.2	0.023	10	13.158	8.553	13.5	28.2	0.023
	Point 7A	65	10	13.274	8.628	14.0	28.7	0.023	10	12.923	8.400	12.5	27.2	0.022	10	12.923	8.400	12.5	27.2	0.022
	Point 7B	41	10	13.503	8.777	15.0	29.7	0.024	10	13.274	8.628	14.0	28.7	0.023	10	13.274	8.628	14.0	28.7	0.023
	Point 12	46	10	13.389	8.703	14.5	29.2	0.023	10	13.158	8.553	13.5	28.2	0.023	10	13.158	8.553	13.5	28.2	0.023
	Point 36	36	11	13.682	8.893	10.5	25.2	0.020	10	12.438	8.085	10.5	25.2	0.019	10	12.438	8.085	10.5	25.2	0.019
	Point 41	41	10	13.158	8.553	13.5	28.2	0.022	10	13.158	8.553	13.5	28.2	0.023	10	13.158	8.553	13.5	28.2	0.023
	Point 46	46	11	13.951	9.068	11.5	26.2	0.022	15	18.842	12.247	11.0	25.7	0.030	15	18.842	12.247	11.0	25.7	0.030
Total Oxygen Injected Per Day (lb)			**7.294**						**5.937**						**5.937**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 3	Point 3A	65	10	14.169	9.210	18.0	32.7	0.027	10	13.274	8.628	14.0	28.7	0.023	10	13.274	8.628	14.0	28.7	0.023
	Point 3B	46	20	27.233	17.702	15.5	30.2	0.049	10	12.923	8.400	12.5	27.2	0.022	10	12.923	8.400	12.5	27.2	0.022
	Point 8A	71	10	14.060	9.139	17.5	32.2	0.027	10	13.274	8.628	14.0	28.7	0.023	10	13.274	8.628	14.0	28.7	0.023
	Point 8B	46	13	17.848	11.601	16.0	30.7	0.032	10	13.041	8.477	13.0	27.7	0.022	10	13.041	8.477	13.0	27.7	0.022
	Point 32A	63.5	10	13.951	9.068	17.0	31.7	0.026	10	13.158	8.553	13.5	28.2	0.023	10	13.158	8.553	13.5	28.2	0.023
	Point 32B	36	18	22.610	14.697	11.0	25.7	0.034	24	30.147	19.595	11.0	25.7	0.048	24	30.147	19.595	11.0	25.7	0.048
	Point 37	41	18	23.684	15.395	13.5	28.2	0.040	10	13.041	8.477	13.0	27.7	0.022	10	13.041	8.477	13.0	27.7	0.022
	Point 42	36	22	27.902	18.136	11.5	26.2	0.043	16	20.293	13.190	11.5	26.2	0.033	16	20.293	13.190	11.5	26.2	0.033
Total Oxygen Injected Per Day (lb)			**8.924**						**6.898**						**6.898**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 4	Point 4A	69	10	14.060	9.139	17.5	32.2	0.027	10	13.158	8.553	13.5	28.2	0.023	10	13.158	8.553	13.5	28.2	0.023
	Point 4B	46	10	13.840	8.996	16.5	31.2	0.026	10	13.158	8.553	13.5	28.2	0.023	10	13.158	8.553	13.5	28.2	0.023
	Point 9A	71	11	15.346	9.975	17.0	31.7	0.029	10	13.158	8.553	13.5	28.2	0.023	10	13.158	8.553	13.5	28.2	0.023
	Point 9B	46	15	20.760	13.494	16.5	31.2	0.038	11	14.474	9.408	13.5	28.2	0.025	11	14.474	9.408	13.5	28.2	0.025
	Point 33	42	17	22.369	14.540	13.5	28.2	0.037	10	13.158	8.553	13.5	28.2	0.023	10	13.158	8.553	13.5	28.2	0.023
	Point 38	36	17	21.561	14.015	11.5	26.2	0.033	11	13.951	9.068	11.5	26.2	0.022	11	13.951	9.068	11.5	26.2	0.022
	Point 43	31	19	22.919	14.897	9.0	23.7	0.032	10	12.063	7.841	9.0	23.7	0.018	10	12.063	7.841	9.0	23.7	0.018
	Point 48	55	10	13.840	8.996	16.5	31.2	0.026	10	13.274	8.628	14.0	28.7	0.023	10	13.274	8.628	14.0	28.7	0.023
Total Oxygen Injected Per Day (lb)			**7.940**						**5.742**						**5.742**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 5	Point 5A	67	11	14.854	9.655	15.0	29.7	0.026	10	13.274	8.628	14.0	28.7	0.023	10	13.274	8.628	14.0	28.7	0.023
	Point 5B	45	11	14.728	9.573	14.5	29.2	0.025	10	13.158	8.553	13.5	28.2	0.023	10	13.158	8.553	13.5	28.2	0.023
	Point 10	56	13	17.406	11.314	14.5	29.2	0.030	10	13.041	8.477	13.0	27.7	0.022	10	13.041	8.477	13.0	27.7	0.022
	Point 34	36	10	12.923	8.400	12.5	27.2	0.021	10	12.923	8.400	12.5	27.2	0.022	10	12.923	8.400	12.5	27.2	0.022
	Point 39	26	19	21.676	14.090	6.5	21.2	0.027	26	29.662	19.281	6.5	21.2	0.039	26	29.662	19.281	6.5	21.2	0.039
	Point 44	41	12	15.219	9.893	11.5	26.2	0.024	16	20.098	13.064	11.0	25.7	0.032	16	20.098	13.064	11.0	25.7	0.032
	Point 47	55	10	13.389	8.703	14.5	29.2	0.023	10	13.041	8.477	13.0	27.7	0.022	10	13.041	8.477	13.0	27.7	0.022
	Point 49	55	10	13.503	8.777	15.0	29.7	0.024	10	13.158	8.553	13.5	28.2	0.023	10	13.158	8.553	13.5	28.2	0.023
Total Oxygen Injected Per Day (lb)			**6.408**						**6.562**						**6.562**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 6	Point 16	40	19	25.656	16.677	15.0	29.7	0.045	10	13.389	8.703	14.5	29.2	0.024	10	13.389	8.703	14.5	29.2	0.024
	Point 19	40	16	21.423	13.925	14.5	29.2	0.037	10	13.389	8.703	14.5	29.2	0.024	10	13.389	8.703	14.5	29.2	0.024
	Point 22	40	15	20.084	13.055	14.5	29.2	0.035	10	13.389	8.703	14.5	29.2	0.024	10	13.389	8.703	14.5	29.2	0.024
	Point 25A	60	10	13.729	8.924	16.0	30.7	0.025	10	13.503	8.777	15.0	29.7	0.025	10	13.503	8.777	15.0	29.7	0.025
	Point 25B	29	20	24.629	16.009	10.0	24.7	0.036	23	28.323	18.410	10.0	24.7	0.043	23	28.323	18.410	10.0	24.7	0.043
	Point 28	50	10	13.729	8.924	16.0	30.7	0.025	10	13.389	8.703	14.5	29.2	0.024	10	13.389	8.703	14.5	29.2	0.024
	Point 31A	69	10	13.617	8.851	15.5	30.2	0.024	10	13.389	8.703	14.5	29.2	0.024	10	13.389	8.703	14.5	29.2	0.024
	Point 31B	40	17	22.762	14.795	14.5	29.2	0.039	10	13.389	8.703	14.5	29.2	0.024	10	13.389	8.703	14.5	29.2	0.024
Total Oxygen Injected Per Day (lb)			**8.531**						**6.766**						**6.766**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 7	Point 14	39	10	13.617	8.851	15.5	30.2	0.024	11	14.474	9.408	13.5	28.2	0.025	11	14.474	9.408	13.5	28.2	0.025
	Point 17	40	18	23.473	15.258	13.0	27.7	0.039	10	13.274	8.628	14.0	28.7	0.023	10	13.274	8.628	14.0	28.7	0.023
	Point 20	40	17	22.956	14.921	15.0	29.7	0.040	12	15.929	10.354	14.0	28.7	0.028	12	15.929	10.354	14.0	28.7	0.028
	Point 23	40	22	29.456	19.147	14.5	29.2	0.051	10	13.389	8.703	14.5	29.2	0.024	10	13.389	8.703	14.5	29.2	0.024
	Point 26A	60	14	19.376	12.595	16.5	31.2	0.036	10	13.389	8.703	14.5	29.2	0.024	10	13.389	8.703	14.5	29.2	0.024
	Point 26B	29	32	41.731	27.125	13.0	27.7	0.068	14	16.159	10.504	7.0	21.7	0.022	14	16.159	10.504	7.0	21.7	0.022
	Point 29A	66	16	23.185	15.070	19.5	34.2	0.047	10	13.274	8.628	14.0	28.7	0.023	10	13.274	8.628	14.0	28.7	0.023
	Point 29B	40	24	32.408	21.065	15.0	29.7	0.057	10	13.158	8.553	13.5	28.2	0.023	10	13.158	8.553	13.5	28.2	0.023
Total Oxygen Injected Per Day (lb)			**11.597**						**6.147**						**6.147**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 8	Point 13	40	20	27.233	17.702	15.5	30.2	0.049	13	17.702	11.506	15.5	30.2	0.033	13	17.702	11.506	15.5	30.2	0.033
	Point 15	40	15	20.255	13.166	15.0	29.7	0.036	13	17.554	11.410	15.0	29.7	0.032	13	17.554	11.410	15.0	29.7	0.032
	Point 50	55	10	13.729	8.924	16.0	30.7	0.025	13	17.406	11.314	14.5	29.2	0.031	13	17.406	11.314	14.5	29.2	0.031
	Point 21	40	12	15.929	10.354	14.0	28.7	0.027	13	17.256	11.217	14.0	28.7	0.030	13	17.256	11.217	14.0	28.7	0.030
	Point 24	55	12	16.608	10.795	16.5	31.2	0.031	13	17.554	11.410	15.0	29.7	0.032	13	17.554	11.410	15.0	29.7	0.032
	Point 27A	65	10	13.840	8.996	16.5	31.2	0.026	13	17.702	11.506	15.5	30.2	0.033	13	17.702	11.506	15.5	30.2	0.033
	Point 27B	33	20	25.845	16.799	12.5	27.2	0.042	11	14.215	9.240	12.5	27.2	0.024	11	14.215	9.240	12.5	27.2	0.024
	Point 30	50	15	20.760	13.494	16.5	31.2	0.038	13	17.702	11.506	15.5	30.2	0.033	13	17.702	11.506	15.5	30.2	0.033
Total Oxygen Injected Per Day (lb)			**8.724**						**7.925**						**7.925**					
System Total Per Day (lb)			**67.22**						**52.05**						**52.05**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-4. OU-2 33 North Clinton Second Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2020 800,529 lbs

Oxygen to OU-2 - 33 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Apr-20	30	5,558
Month 2	May-20	30	5,596
Month 3	Jun-20	30	3,128
Total Operational Days in Q2 2020			90
Total Oxygen in Q2 2020			14,282.59
Running Total for Oxygen to 33 North Clinton Through Q2 2020 (lbs)			**814,811.59**

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 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)

			4/28/2020						5/21/2020						6/16/2020					
	O_2%		73.7						72.8						67.8					
	R		10.73						10.73						10.73					
	Temp R (T)		627						627						625					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 1	Point 1A	62	20	30.629	19.909	23.5	38.2	0.083	27	41.077	26.700	23.0	37.7	0.109	10	14.384	9.350	19.0	33.7	0.032
	Point 1B	46	19	26.085	16.955	16.0	30.7	0.057	32	43.932	28.556	16.0	30.7	0.095	19	25.872	16.816	15.5	30.2	0.051
	Point 6A	65	27	42.153	27.399	25.0	39.7	0.119	28	43.438	28.234	24.5	39.2	0.120	11	15.822	10.285	19.0	33.7	0.035
	Point 6B	46	28	39.062	25.390	17.0	31.7	0.088	30	41.852	27.204	17.0	31.7	0.093	18	24.912	16.193	16.5	31.2	0.051
	Point 11	46	22	30.691	19.949	17.0	31.7	0.069	30	41.521	26.988	16.5	31.2	0.091	23	31.832	20.691	16.5	31.2	0.065
	Point 35	41	17	22.369	14.540	13.5	28.2	0.045	32	42.106	27.369	13.5	28.2	0.084	20	26.082	16.953	13.0	27.7	0.047
	Point 40	41	17	22.566	14.668	14.0	28.7	0.046	33	43.805	28.473	14.0	28.7	0.088	24	31.579	20.526	13.5	28.2	0.059
	Point 45	31	18	21.940	14.261	9.5	24.2	0.038	29	34.981	22.738	9.0	23.7	0.058	25	30.156	19.602	9.0	23.7	0.047
Total Oxygen Injected Per Day (lb)			**17.465**						**23.624**						**12.402**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 2	Point 2A	67	45	71.569	46.520	26.5	41.2	0.210	30	47.130	30.635	25.5	40.2	0.133	10	14.384	9.350	19.0	33.7	0.032
	Point 2B	46	25	34.600	22.490	16.5	31.2	0.077	28	38.753	25.189	16.5	31.2	0.085	22	30.448	19.791	16.5	31.2	0.062
	Point 7A	65	20	31.027	20.167	24.5	39.2	0.087	14	21.580	14.027	24.0	38.7	0.059	10	14.060	9.139	17.5	32.2	0.030
	Point 7B	41	23	32.339	21.020	17.5	32.2	0.074	29	40.775	26.504	17.5	32.2	0.092	20	27.901	18.136	17.0	31.7	0.058
	Point 12	46	27	37.369	24.290	16.5	31.2	0.083	28	38.753	25.189	16.5	31.2	0.085	21	28.831	18.740	16.0	30.7	0.058
	Point 36	36	25	31.403	20.412	11.0	25.7	0.057	29	36.428	23.678	11.0	25.7	0.066	24	29.852	19.404	10.5	25.2	0.049
	Point 41	41	25	33.473	21.758	14.5	29.2	0.070	28	37.168	24.159	14.0	28.7	0.075	24	31.579	20.526	13.5	28.2	0.059
	Point 46	46	30	38.048	24.731	11.5	26.2	0.071	27	34.244	22.258	11.5	26.2	0.063	23	29.170	18.961	11.5	26.2	0.050
Total Oxygen Injected Per Day (lb)			**23.317**						**21.069**						**12.752**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 3	Point 3A	65	32	50.584	32.880	26.0	40.7	0.147	33	51.843	33.698	25.5	40.2	0.147	10	15.612	10.148	25.0	39.7	0.041
	Point 3B	46	36	49.825	32.386	16.5	31.2	0.111	25	34.322	22.309	16.0	30.7	0.074	20	27.458	17.848	16.0	30.7	0.055
	Point 8A	71	10	16.286	10.586	28.5	43.2	0.050	29	47.229	30.699	28.5	43.2	0.144	10	15.807	10.275	26.0	40.7	0.042
	Point 8B	46	34	47.057	30.587	16.5	31.2	0.105	19	26.296	17.093	16.5	31.2	0.058	18	24.912	16.193	16.5	31.2	0.051
	Point 32A	63.5	30	46.243	30.058	24.0	38.7	0.127	38	58.574	38.073	24.0	38.7	0.159	10	14.908	9.690	21.5	36.2	0.035
	Point 32B	36	40	50.731	32.975	11.5	26.2	0.095	19	23.866	15.513	11.0	25.7	0.043	22	27.635	17.963	11.0	25.7	0.047
	Point 37	41	40	53.096	34.513	14.0	28.7	0.109	18	23.684	15.395	13.5	28.2	0.047	22	28.948	18.816	13.5	28.2	0.054
	Point 42	36	39	49.463	32.151	11.5	26.2	0.092	15	19.024	12.366	11.5	26.2	0.035	25	31.707	20.610	11.5	26.2	0.055
Total Oxygen Injected Per Day (lb)			**26.713**						**22.609**						**12.155**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 4	Point 4A	69	34	54.402	35.361	27.0	41.7	0.162	42	67.202	43.681	27.0	41.7	0.197	12	18.256	11.867	23.0	37.7	0.045
	Point 4B	46	29	40.457	26.297	17.0	31.7	0.091	28	39.062	25.390	17.0	31.7	0.087	17	23.716	15.415	17.0	31.7	0.049
	Point 9A	71	39	62.775	40.804	27.5	42.2	0.189	55	88.529	57.544	27.5	42.2	0.263	15	22.669	14.735	22.5	37.2	0.055
	Point 9B	46	30	41.852	27.204	17.0	31.7	0.094	32	44.642	29.017	17.0	31.7	0.100	18	24.912	16.193	16.5	31.2	0.051
	Point 33	42	34	45.132	29.336	14.0	28.7	0.092	20	26.548	17.256	14.0	28.7	0.054	22	29.203	18.982	14.0	28.7	0.055
	Point 38	36	34	43.122	28.029	11.5	26.2	0.080	22	27.902	18.136	11.5	26.2	0.051	21	26.634	17.312	11.5	26.2	0.046
	Point 43	31	32	39.005	25.353	9.5	24.2	0.067	23	27.744	18.034	9.0	23.7	0.046	22	26.538	17.249	9.0	23.7	0.041
	Point 48	55	22	31.879	20.721	19.5	34.2	0.078	25	36.226	23.547	19.5	34.2	0.087	18	26.083	16.954	19.5	34.2	0.059
Total Oxygen Injected Per Day (lb)			**27.311**						**28.317**						**12.864**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 5	Point 5A	67	28	43.988	28.592	25.5	40.2	0.126	32	49.959	32.473	25.0	39.7	0.140	30	46.836	30.444	25.0	39.7	0.122
	Point 5B	45	28	38.753	25.189	16.5	31.2	0.086	28	38.753	25.189	16.5	31.2	0.085	21	28.831	18.740	16.0	30.7	0.058
	Point 10	56	25	36.752	23.889	20.5	35.2	0.092	25	36.752	23.889	20.5	35.2	0.091	27	39.409	25.616	20.0	34.7	0.090
	Point 34	36	26	33.906	22.039	13.0	27.7	0.067	23	29.994	19.496	13.0	27.7	0.058	19	24.553	15.959	12.5	27.2	0.044
	Point 39	26	27	31.164	20.257	7.0	21.7	0.048	23	26.240	17.056	6.5	21.2	0.039	20	23.349	15.177	7.5	22.2	0.034
	Point 44	41	28	35.512	23.083	11.5	26.2	0.066	27	34.244	22.258	11.5	26.2	0.063	22	27.635	17.963	11.0	25.7	0.047
	Point 47	55	29	42.022	27.314	19.5	34.2	0.102	29	42.022	27.314	19.5	34.2	0.101	19	27.330	17.764	19.0	33.7	0.061
	Point 49	55	28	40.868	26.564	20.0	34.7	0.101	28	40.868	26.564	20.0	34.7	0.100	21	30.430	19.779	19.5	34.2	0.068
Total Oxygen Injected Per Day (lb)			**22.039**						**21.665**						**16.760**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 6	Point 16	40	27	36.765	23.897	15.5	30.2	0.079	22	29.957	19.472	15.5	30.2	0.064	17	23.148	15.046	15.5	30.2	0.046
	Point 19	40	28	37.810	24.576	15.0	29.7	0.080	24	32.408	21.065	15.0	29.7	0.068	19	25.656	16.677	15.0	29.7	0.050
	Point 22	40	27	36.459	23.698	15.0	29.7	0.077	22	29.456	19.147	14.5	29.2	0.060	17	22.762	14.795	14.5	29.2	0.044
	Point 25A	60	25	38.286	24.886	23.5	38.2	0.104	27	41.349	26.877	23.5	38.2	0.111	10	14.490	9.419	19.5	34.2	0.033
	Point 25B	29	26	32.340	21.021	10.5	25.2	0.058	23	28.608	18.595	10.5	25.2	0.051	21	25.860	16.809	10.0	24.7	0.042
	Point 28	50	32	46.369	30.140	19.5	34.2	0.113	28	40.275	26.179	19.0	33.7	0.095	17	24.453	15.894	19.0	33.7	0.054
	Point 31A	69	14	22.535	14.647	27.5	42.2	0.068	11	17.601	11.440	27.0	41.7	0.052	10	14.384	9.350	19.0	33.7	0.032
	Point 31B	40	28	37.810	24.576	15.0	29.7	0.080	25	33.759	21.943	15.0	29.7	0.071	20	26.779	17.406	14.5	29.2	0.051
Total Oxygen Injected Per Day (lb)			**21.084**						**18.280**						**11.252**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 7	Point 14	39	35	48.051	31.233	16.0	30.7	0.105	33	44.935	29.208	15.5	30.2	0.095	16	21.787	14.161	15.5	30.2	0.043
	Point 17	40	33	43.421	28.224	13.5	28.2	0.087	32	41.731	27.125	13.0	27.7	0.081	19	24.778	16.105	13.0	27.7	0.045
	Point 20	40	32	43.211	28.087	15.0	29.7	0.091	33	44.561	28.965	15.0	29.7	0.093	17	22.956	14.921	15.0	29.7	0.045
	Point 23	40	30	40.510	26.332	15.0	29.7	0.086	30	40.168	26.109	14.5	29.2	0.082	20	26.779	17.406	14.5	29.2	0.051
	Point 26A	60	34	51.727	33.622	23.0	37.7	0.139	42	63.898	41.533	23.0	37.7	0.169	14	20.286	13.186	19.5	34.2	0.046
	Point 26B	29	28	36.842	23.948	13.5	28.2	0.074	28	36.514	23.734	13.0	27.7	0.071	23	29.994	19.496	13.0	27.7	0.055
	Point 29A	66	21	33.196	21.577	26.0	40.7	0.096	38	59.698	38.804	25.5	40.2	0.169	10	14.490	9.419	19.5	34.2	0.033
	Point 29B	40	30	40.510	26.332	15.0	29.7	0.086	27	36.459	23.698	15.0	29.7	0.076	21	28.357	18.432	15.0	29.7	0.055
Total Oxygen Injected Per Day (lb)			**24.448**						**26.812**						**11.924**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	28	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 8	Point 13	40	30	41.187	26.771	16.0	30.7	0.090	31	42.559	27.664	16.0	30.7	0.092	24	32.680	21.242	15.5	30.2	0.065
	Point 15	40	30	40.850	26.552	15.5	30.2	0.088	33	44.935	29.208	15.5	30.2	0.095	25	33.759	21.943	15.0	29.7	0.066
	Point 50	55	20	29.192	18.975	20.0	34.7	0.072	19	27.532	17.896	19.5	34.2	0.066	12	17.388	11.302	19.5	34.2	0.039
	Point 21	40	28	37.490	24.368	14.5	29.2	0.078	28	37.168	24.159	14.0	28.7	0.075	24	31.858	20.708	14.0	28.7	0.060
	Point 24	55	30	44.414	28.869	21.0	35.7	0.113	30	44.414	28.869	21.0	35.7	0.112	22	32.341	21.022	20.5	35.2	0.075
	Point 27A	65	23	36.357	23.632	26.0	40.7	0.105	37	57.765	37.547	25.0	39.7	0.161	13	19.111	12.422	20.5	35.2	0.044
	Point 27B	33	26	33.906	22.039	13.0	27.7	0.067	29	37.475	24.359	12.5	27.2	0.072	20	25.845	16.799	12.5	27.2	0.046
	Point 30	50	29	42.022	27.314	19.5	34.2	0.102	24	34.522	22.439	19.0	33.7	0.082	15	21.576	14.024	19.0	33.7	0.048
Total Oxygen Injected Per Day (lb)			**22.894**						**24.158**						**14.173**					
System Total Per Day (lb)			**185.27**						**186.53**						**104.28**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-4. OU-2 33 North Clinton First Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q4 2019: 783,651 lbs

Oxygen to OU-2 - 33 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Jan-20	31	6,299
Month 2	Feb-20	29	5,808
Month 3	Mar-20	31	4,771
Total Operational Days in Q1 2020			91
Total Oxygen in Q1 2020			16,877.90
Running Total for Oxygen to 33 North Clinton Through Q1 2020 (lbs)			**800,528.90**

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 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)

			1/8/2020						2/11/2020						3/17/2020					
	O_2%		75.8						68.7						65.2					
	R		10.73						10.73						10.73					
	Temp R (T)		633						625						628					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 1	Point 1A	62	31	47.474	30.858	23.5	38.2	0.132	33	50.205	32.633	23.0	37.7	0.126	19	28.906	18.789	23.0	37.7	0.069
	Point 1B	46	31	42.559	27.664	16.0	30.7	0.095	28	38.441	24.987	16.0	30.7	0.079	29	39.814	25.879	16.0	30.7	0.077
	Point 6A	65	28	43.714	28.414	25.0	39.7	0.126	33	51.520	33.488	25.0	39.7	0.136	20	31.224	20.296	25.0	39.7	0.078
	Point 6B	46	29	40.457	26.297	17.0	31.7	0.093	22	30.691	19.949	17.0	31.7	0.065	27	37.667	24.483	17.0	31.7	0.075
	Point 11	46	27	37.667	24.483	17.0	31.7	0.087	27	37.667	24.483	17.0	31.7	0.080	28	39.062	25.390	17.0	31.7	0.078
	Point 35	41	29	38.158	24.803	13.5	28.2	0.078	31	40.790	26.513	13.5	28.2	0.077	19	25.000	16.250	13.5	28.2	0.044
	Point 40	41	29	38.495	25.022	14.0	28.7	0.080	28	37.168	24.159	14.0	28.7	0.071	30	39.822	25.885	14.0	28.7	0.072
	Point 45	31	25	30.473	19.807	9.5	24.2	0.053	28	34.130	22.184	9.5	24.2	0.055	29	34.981	22.738	9.0	23.7	0.052
Total Oxygen Injected Per Day (lb)			**23.794**						**22.007**						**17.431**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 2	Point 2A	67	30	47.713	31.013	26.5	41.2	0.143	13	20.676	13.439	26.5	41.2	0.057	14	22.266	14.473	26.5	41.2	0.058
	Point 2B	46	28	39.062	25.390	17.0	31.7	0.090	37	51.209	33.286	16.5	31.2	0.106	23	32.087	20.856	17.0	31.7	0.064
	Point 7A	65	28	43.438	28.234	24.5	39.2	0.124	13	20.167	13.109	24.5	39.2	0.053	19	29.476	19.159	24.5	39.2	0.073
	Point 7B	41	28	39.369	25.590	17.5	32.2	0.092	38	53.429	34.729	17.5	32.2	0.115	22	30.933	20.106	17.5	32.2	0.063
	Point 12	46	28	38.753	25.189	16.5	31.2	0.088	34	47.057	30.587	16.5	31.2	0.098	24	33.216	21.591	16.5	31.2	0.065
	Point 36	36	25	31.403	20.412	11.0	25.7	0.059	44	55.269	35.925	11.0	25.7	0.095	24	29.852	19.404	10.5	25.2	0.047
	Point 41	41	28	37.168	24.159	14.0	28.7	0.077	34	45.132	29.336	14.0	28.7	0.086	25	33.185	21.570	14.0	28.7	0.060
	Point 46	46	27	34.244	22.258	11.5	26.2	0.065	28	35.512	23.083	11.5	26.2	0.062	26	32.975	21.434	11.5	26.2	0.054
Total Oxygen Injected Per Day (lb)			**23.571**						**21.467**						**15.479**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 3	Point 3A	65	30	47.422	30.825	26.0	40.7	0.140	22	34.776	22.605	26.0	40.7	0.094	19	30.034	19.522	26.0	40.7	0.077
	Point 3B	46	30	41.521	26.988	16.5	31.2	0.094	26	35.985	23.390	16.5	31.2	0.075	27	37.369	24.290	16.5	31.2	0.073
	Point 8A	71	29	47.501	30.876	29.0	43.7	0.151	27	44.225	28.746	29.0	43.7	0.129	12	19.543	12.703	28.5	43.2	0.053
	Point 8B	46	30	41.521	26.988	16.5	31.2	0.094	23	31.832	20.691	16.5	31.2	0.066	27	37.369	24.290	16.5	31.2	0.073
	Point 32A	63.5	30	46.243	30.058	24.0	38.7	0.130	25	38.535	25.048	24.0	38.7	0.099	22	33.911	22.042	24.0	38.7	0.083
	Point 32B	36	30	38.048	24.731	11.5	26.2	0.072	23	29.170	18.961	11.5	26.2	0.051	28	35.171	22.861	11.0	25.7	0.057
	Point 37	41	28	37.168	24.159	14.0	28.7	0.077	23	30.530	19.845	14.0	28.7	0.058	25	32.895	21.382	13.5	28.2	0.058
	Point 42	36	30	38.048	24.731	11.5	26.2	0.072	24	30.439	19.785	11.5	26.2	0.053	30	38.048	24.731	11.5	26.2	0.063
Total Oxygen Injected Per Day (lb)			**26.571**						**20.015**						**17.186**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 4	Point 4A	69	31	49.601	32.241	27.0	41.7	0.150	29	46.401	30.161	27.0	41.7	0.129	34	54.402	35.361	27.0	41.7	0.143
	Point 4B	46	34	47.432	30.831	17.0	31.7	0.109	33	46.037	29.924	17.0	31.7	0.097	18	25.111	16.322	17.0	31.7	0.050
	Point 9A	71	28	45.335	29.468	28.0	42.7	0.140	31	50.193	32.625	28.0	42.7	0.143	42	67.604	43.942	27.5	42.2	0.179
	Point 9B	46	33	46.037	29.924	17.0	31.7	0.106	33	46.037	29.924	17.0	31.7	0.097	20	27.901	18.136	17.0	31.7	0.056
	Point 33	42	38	50.442	32.787	14.0	28.7	0.105	36	47.787	31.061	14.0	28.7	0.091	32	42.477	27.610	14.0	28.7	0.077
	Point 38	36	36	45.658	29.678	11.5	26.2	0.087	36	45.658	29.678	11.5	26.2	0.080	16	20.293	13.190	11.5	26.2	0.033
	Point 43	31	35	42.662	27.730	9.5	24.2	0.075	34	41.443	26.938	9.5	24.2	0.067	17	20.506	13.329	9.0	23.7	0.031
	Point 48	55	31	45.247	29.411	20.0	34.7	0.114	32	46.707	30.359	20.0	34.7	0.108	18	26.083	16.954	19.5	34.2	0.056
Total Oxygen Injected Per Day (lb)			**28.351**						**25.971**						**19.986**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 5	Point 5A	67	34	53.414	34.719	25.5	40.2	0.156	32	50.272	32.677	25.5	40.2	0.135	22	34.562	22.465	25.5	40.2	0.087
	Point 5B	45	34	47.057	30.587	16.5	31.2	0.107	33	45.673	29.687	16.5	31.2	0.095	29	40.137	26.089	16.5	31.2	0.079
	Point 10	56	33	48.512	31.533	20.5	35.2	0.124	34	49.982	32.488	20.5	35.2	0.117	25	36.752	23.889	20.5	35.2	0.081
	Point 34	36	36	46.947	30.516	13.0	27.7	0.094	34	44.339	28.820	13.0	27.7	0.082	31	40.427	26.277	13.0	27.7	0.070
	Point 39	26	36	41.553	27.009	7.0	21.7	0.065	35	40.398	26.259	7.0	21.7	0.058	34	39.244	25.509	7.0	21.7	0.054
	Point 44	41	34	43.122	28.029	11.5	26.2	0.082	34	43.122	28.029	11.5	26.2	0.075	32	40.585	26.380	11.5	26.2	0.067
	Point 47	55	34	49.267	32.024	19.5	34.2	0.122	32	46.369	30.140	19.5	34.2	0.106	31	44.920	29.198	19.5	34.2	0.097
	Point 49	55	33	48.166	31.308	20.0	34.7	0.121	33	48.166	31.308	20.0	34.7	0.111	29	42.328	27.513	20.0	34.7	0.092
Total Oxygen Injected Per Day (lb)			**27.882**						**24.924**						**20.076**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 6	Point 16	40	32	43.573	28.323	15.5	30.2	0.095	33	44.935	29.208	15.5	30.2	0.090	28	38.126	24.782	15.5	30.2	0.072
	Point 19	40	31	41.861	27.209	15.0	29.7	0.090	34	45.912	29.843	15.0	29.7	0.091	28	37.810	24.576	15.0	29.7	0.071
	Point 22	40	30	40.168	26.109	14.5	29.2	0.085	35	46.862	30.461	14.5	29.2	0.091	27	36.151	23.498	14.5	29.2	0.066
	Point 25A	60	37	56.663	36.831	23.5	38.2	0.157	32	49.006	31.854	23.5	38.2	0.125	32	49.006	31.854	23.5	38.2	0.118
	Point 25B	29	30	37.315	24.255	10.5	25.2	0.068	36	44.332	28.816	10.0	24.7	0.073	26	32.340	21.021	10.5	25.2	0.051
	Point 28	50	30	43.471	28.256	19.5	34.2	0.108	35	50.344	32.724	19.0	33.7	0.113	26	37.398	24.309	19.0	33.7	0.079
	Point 31A	69	33	53.117	34.526	27.5	42.2	0.163	30	48.288	31.387	27.5	42.2	0.136	22	35.411	23.017	27.5	42.2	0.094
	Point 31B	40	30	40.510	26.332	15.0	29.7	0.087	35	47.262	30.720	15.0	29.7	0.093	28	37.490	24.368	14.5	29.2	0.069
Total Oxygen Injected Per Day (lb)			**27.318**						**25.983**						**19.857**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 7	Point 14	39	29	39.814	25.879	16.0	30.7	0.089	31	42.559	27.664	16.0	30.7	0.087	33	45.305	29.448	16.0	30.7	0.087
	Point 17	40	30	39.474	25.658	13.5	28.2	0.081	29	38.158	24.803	13.5	28.2	0.072	30	39.122	25.430	13.0	27.7	0.068
	Point 20	40	29	39.160	25.454	15.0	29.7	0.084	32	43.211	28.087	15.0	29.7	0.085	29	39.160	25.454	15.0	29.7	0.073
	Point 23	40	27	36.459	23.698	15.0	29.7	0.079	32	43.211	28.087	15.0	29.7	0.085	31	41.507	26.979	14.5	29.2	0.076
	Point 26A	60	28	42.598	27.689	23.0	37.7	0.116	32	48.684	31.645	23.0	37.7	0.122	24	36.513	23.733	23.0	37.7	0.087
	Point 26B	29	28	36.514	23.734	13.0	27.7	0.073	33	43.035	27.973	13.0	27.7	0.079	30	39.122	25.430	13.0	27.7	0.068
	Point 29A	66	29	45.842	29.797	26.0	40.7	0.135	30	47.422	30.825	26.0	40.7	0.129	18	28.278	18.381	25.5	40.2	0.071
	Point 29B	40	29	39.160	25.454	15.0	29.7	0.084	32	43.211	28.087	15.0	29.7	0.085	28	37.810	24.576	15.0	29.7	0.071
Total Oxygen Injected Per Day (lb)			**23.741**						**23.844**						**19.259**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	28	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 8	Point 13	40	24	32.949	21.417	16.0	30.7	0.073	50	68.644	44.619	16.0	30.7	0.140	38	52.170	33.910	16.0	30.7	0.101
	Point 15	40	25	34.041	22.127	15.5	30.2	0.075	45	61.275	39.829	15.5	30.2	0.123	38	51.743	33.633	15.5	30.2	0.098
	Point 50	55	22	31.879	20.721	19.5	34.2	0.079	34	49.267	32.024	19.5	34.2	0.112	22	31.879	20.721	19.5	34.2	0.069
	Point 21	40	27	36.151	23.498	14.5	29.2	0.077	44	58.913	38.293	14.5	29.2	0.115	35	46.459	30.199	14.0	28.7	0.084
	Point 24	55	26	38.492	25.020	21.0	35.7	0.100	52	76.984	50.040	21.0	35.7	0.183	37	54.777	35.605	21.0	35.7	0.123
	Point 27A	65	25	39.275	25.529	25.5	40.2	0.115	55	86.405	56.163	25.5	40.2	0.231	35	54.985	35.740	25.5	40.2	0.139
	Point 27B	33	29	37.475	24.359	12.5	27.2	0.074	37	47.814	31.079	12.5	27.2	0.087	32	41.352	26.879	12.5	27.2	0.071
	Point 30	50	27	38.837	25.244	19.0	33.7	0.095	42	60.413	39.268	19.0	33.7	0.136	28	40.275	26.179	19.0	33.7	0.085
Total Oxygen Injected Per Day (lb)			**21.975**						**36.056**						**24.626**					
System Total Per Day (lb)			**203.20**						**200.27**						**153.90**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-4. OU-2 33 North Clinton Fourth Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2019: 768,712 lbs

Oxygen to OU-2 - 33 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Oct-19	31	4,988
Month 2	Nov-19	30	4,314
Month 3	Dec-19	31	5,637
Total Operational Days in Q4 2019			92
Total Oxygen in Q4 2019			14,938.90
Running Total for Oxygen to 33 North Clinton Through Q4 2019 (lbs)			**783,650.77**

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 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)

			10/2/2019						11/12/2019						12/3/2019					
	O_2%		68.7						74.0						74.3					
	R		10.73						10.73						10.73					
	Temp R (T)		627						623						628					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 1	Point 1A	62	33	50.205	32.633	23.0	37.7	0.126	18	27.385	17.800	23.0	37.7	0.074	31	47.163	30.656	23.0	37.7	0.127
	Point 1B	46	30	40.850	26.552	15.5	30.2	0.082	25	34.322	22.309	16.0	30.7	0.076	33	45.305	29.448	16.0	30.7	0.100
	Point 6A	65	37	57.400	37.310	24.5	39.2	0.149	14	21.719	14.117	24.5	39.2	0.061	27	41.886	27.226	24.5	39.2	0.118
	Point 6B	46	28	38.753	25.189	16.5	31.2	0.080	17	23.339	15.170	16.0	30.7	0.052	28	39.062	25.390	17.0	31.7	0.089
	Point 11	46	34	47.057	30.587	16.5	31.2	0.097	17	23.528	15.293	16.5	31.2	0.053	25	34.600	22.490	16.5	31.2	0.077
	Point 35	41	30	39.122	25.430	13.0	27.7	0.072	21	27.632	17.961	13.5	28.2	0.056	26	34.211	22.237	13.5	28.2	0.069
	Point 40	41	32	42.106	27.369	13.5	28.2	0.079	21	27.876	18.119	14.0	28.7	0.058	25	33.185	21.570	14.0	28.7	0.068
	Point 45	31	28	33.775	21.954	9.0	23.7	0.053	22	26.538	17.249	9.0	23.7	0.045	12	14.475	9.409	9.0	23.7	0.025
Total Oxygen Injected Per Day (lb)			**23.630**						**15.188**						**21.533**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 2	Point 2A	67	28	44.261	28.770	26.0	40.7	0.120	12	19.085	12.405	26.5	41.2	0.057	34	53.745	34.934	26.0	40.7	0.157
	Point 2B	46	23	31.576	20.525	16.0	30.7	0.064	23	31.832	20.691	16.5	31.2	0.071	26	35.985	23.390	16.5	31.2	0.080
	Point 7A	65	27	41.618	27.052	24.0	38.7	0.107	15	23.270	15.126	24.5	39.2	0.066	26	40.335	26.218	24.5	39.2	0.113
	Point 7B	41	27	37.667	24.483	17.0	31.7	0.079	24	33.745	21.934	17.5	32.2	0.078	24	33.745	21.934	17.5	32.2	0.078
	Point 12	46	30	41.187	26.771	16.0	30.7	0.084	22	30.448	19.791	16.5	31.2	0.068	27	37.369	24.290	16.5	31.2	0.084
	Point 36	36	24	29.852	19.404	10.5	25.2	0.050	24	29.852	19.404	10.5	25.2	0.054	23	28.608	18.595	10.5	25.2	0.052
	Point 41	41	26	34.513	22.433	14.0	28.7	0.066	24	31.858	20.708	14.0	28.7	0.066	26	34.513	22.433	14.0	28.7	0.071
	Point 46	46	22	27.635	17.963	11.0	25.7	0.047	22	27.902	18.136	11.5	26.2	0.053	28	35.512	23.083	11.5	26.2	0.067
Total Oxygen Injected Per Day (lb)			**19.738**						**16.408**						**22.443**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 3	Point 3A	65	22	34.562	22.465	25.5	40.2	0.092	15	23.565	15.317	25.5	40.2	0.068	27	42.680	27.742	26.0	40.7	0.124
	Point 3B	46	27	36.765	23.897	15.5	30.2	0.074	22	30.203	19.632	16.0	30.7	0.067	26	35.985	23.390	16.5	31.2	0.080
	Point 8A	71	28	45.600	29.640	28.5	43.2	0.131	16	26.057	16.937	28.5	43.2	0.081	31	50.777	33.005	29.0	43.7	0.159
	Point 8B	46	22	30.203	19.632	16.0	30.7	0.062	19	26.296	17.093	16.5	31.2	0.059	26	35.985	23.390	16.5	31.2	0.080
	Point 32A	63.5	25	38.286	24.886	23.5	38.2	0.097	14	21.580	14.027	24.0	38.7	0.060	26	40.077	26.050	24.0	38.7	0.111
	Point 32B	36	25	31.403	20.412	11.0	25.7	0.054	22	27.902	18.136	11.5	26.2	0.053	26	32.975	21.434	11.5	26.2	0.062
	Point 37	41	23	30.263	19.671	13.5	28.2	0.057	18	23.684	15.395	13.5	28.2	0.048	26	34.211	22.237	13.5	28.2	0.069
	Point 42	36	22	27.902	18.136	11.5	26.2	0.049	26	32.975	21.434	11.5	26.2	0.062	27	34.244	22.258	11.5	26.2	0.064
Total Oxygen Injected Per Day (lb)			**19.649**						**15.931**						**24.032**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 4	Point 4A	69	14	22.266	14.473	26.5	41.2	0.061	14	22.401	14.560	27.0	41.7	0.067	18	28.801	18.721	27.0	41.7	0.086
	Point 4B	46	20	27.680	17.992	16.5	31.2	0.057	15	20.760	13.494	16.5	31.2	0.047	27	37.667	24.483	17.0	31.7	0.086
	Point 9A	71	14	22.535	14.647	27.5	42.2	0.063	15	24.144	15.694	27.5	42.2	0.073	20	32.382	21.049	28.0	42.7	0.099
	Point 9B	46	24	33.216	21.591	16.5	31.2	0.069	18	25.111	16.322	17.0	31.7	0.057	28	39.062	25.390	17.0	31.7	0.089
	Point 33	42	26	34.211	22.237	13.5	28.2	0.064	25	33.185	21.570	14.0	28.7	0.069	30	39.822	25.885	14.0	28.7	0.082
	Point 38	36	24	30.147	19.595	11.0	25.7	0.051	23	29.170	18.961	11.5	26.2	0.055	29	36.780	23.907	11.5	26.2	0.069
	Point 43	31	26	31.363	20.386	9.0	23.7	0.049	22	26.538	17.249	9.0	23.7	0.045	26	31.692	20.600	9.5	24.2	0.055
	Point 48	55	26	37.675	24.489	19.5	34.2	0.086	14	20.286	13.186	19.5	34.2	0.050	30	43.788	28.462	20.0	34.7	0.109
Total Oxygen Injected Per Day (lb)			**16.014**						**14.820**						**21.579**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 5	Point 5A	67	30	47.130	30.635	25.5	40.2	0.126	14	21.857	14.207	25.0	39.7	0.062	28	43.988	28.592	25.5	40.2	0.127
	Point 5B	45	30	41.521	26.988	16.5	31.2	0.086	23	31.576	20.525	16.0	30.7	0.070	28	38.753	25.189	16.5	31.2	0.087
	Point 10	56	31	45.572	29.622	20.5	35.2	0.106	20	29.401	19.111	20.5	35.2	0.074	26	38.222	24.844	20.5	35.2	0.096
	Point 34	36	30	39.122	25.430	13.0	27.7	0.072	23	29.994	19.496	13.0	27.7	0.060	28	36.514	23.734	13.0	27.7	0.072
	Point 39	26	30	34.627	22.508	7.0	21.7	0.050	24	27.702	18.006	7.0	21.7	0.043	27	31.164	20.257	7.0	21.7	0.048
	Point 44	41	30	38.048	24.731	11.5	26.2	0.066	22	27.902	18.136	11.5	26.2	0.053	28	35.512	23.083	11.5	26.2	0.067
	Point 47	55	30	43.471	28.256	19.5	34.2	0.099	20	28.981	18.837	19.5	34.2	0.071	28	40.573	26.372	19.5	34.2	0.099
	Point 49	55	29	42.328	27.513	20.0	34.7	0.097	18	26.273	17.077	20.0	34.7	0.066	27	39.409	25.616	20.0	34.7	0.098
Total Oxygen Injected Per Day (lb)			**22.475**						**15.975**						**22.237**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 6	Point 16	40	20	27.007	17.554	15.0	29.7	0.053	34	46.296	30.093	15.5	30.2	0.101	24	32.680	21.242	15.5	30.2	0.071
	Point 19	40	23	31.058	20.188	15.0	29.7	0.061	33	44.561	28.965	15.0	29.7	0.095	25	33.759	21.943	15.0	29.7	0.072
	Point 22	40	20	26.779	17.406	14.5	29.2	0.052	34	45.523	29.590	14.5	29.2	0.096	29	38.829	25.239	14.5	29.2	0.081
	Point 25A	60	26	39.817	25.881	23.5	38.2	0.101	34	52.069	33.845	23.5	38.2	0.143	24	36.754	23.890	23.5	38.2	0.101
	Point 25B	29	19	23.397	15.208	10.0	24.7	0.038	36	44.332	28.816	10.0	24.7	0.079	25	31.096	20.212	10.5	25.2	0.056
	Point 28	50	19	27.330	17.764	19.0	33.7	0.061	38	54.659	35.528	19.0	33.7	0.133	28	40.573	26.372	19.5	34.2	0.099
	Point 31A	69	22	35.411	23.017	27.5	42.2	0.099	40	64.384	41.850	27.5	42.2	0.196	27	43.460	28.249	27.5	42.2	0.131
	Point 31B	40	20	27.007	17.554	15.0	29.7	0.053	34	45.523	29.590	14.5	29.2	0.096	28	37.810	24.576	15.0	29.7	0.080
Total Oxygen Injected Per Day (lb)			**16.616**						**29.987**						**22.145**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 7	Point 14	39	27	36.765	23.897	15.5	30.2	0.074	23	31.318	20.357	15.5	30.2	0.068	30	41.187	26.771	16.0	30.7	0.091
	Point 17	40	30	42.507	27.630	18.0	32.7	0.092	20	26.082	16.953	13.0	27.7	0.052	29	37.818	24.582	13.0	27.7	0.075
	Point 20	40	27	36.151	23.498	14.5	29.2	0.070	17	22.956	14.921	15.0	29.7	0.049	32	43.211	28.087	15.0	29.7	0.092
	Point 23	40	29	38.829	25.239	14.5	29.2	0.075	22	29.456	19.147	14.5	29.2	0.062	30	40.168	26.109	14.5	29.2	0.084
	Point 26A	60	29	43.826	28.487	22.5	37.2	0.108	16	24.342	15.822	23.0	37.7	0.066	23	34.992	22.745	23.0	37.7	0.095
	Point 26B	29	29	37.475	24.359	12.5	27.2	0.068	24	31.298	20.344	13.0	27.7	0.062	30	39.122	25.430	13.0	27.7	0.078
	Point 29A	66	28	43.988	28.592	25.5	40.2	0.117	18	28.278	18.381	25.5	40.2	0.082	21	32.991	21.444	25.5	40.2	0.095
	Point 29B	40	27	36.151	23.498	14.5	29.2	0.070	17	22.956	14.921	15.0	29.7	0.049	29	39.160	25.454	15.0	29.7	0.083
Total Oxygen Injected Per Day (lb)			**21.587**						**15.688**						**22.156**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	28	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 8	Point 13	40	29	39.488	25.667	15.5	30.2	0.079	28	38.441	24.987	16.0	30.7	0.085	32	43.932	28.556	16.0	30.7	0.097
	Point 15	40	28	37.810	24.576	15.0	29.7	0.075	24	32.680	21.242	15.5	30.2	0.071	33	44.935	29.208	15.5	30.2	0.097
	Point 50	55	24	34.777	22.605	19.5	34.2	0.079	20	28.981	18.837	19.5	34.2	0.071	22	31.879	20.721	19.5	34.2	0.078
	Point 21	40	25	33.185	21.570	14.0	28.7	0.063	22	29.203	18.982	14.0	28.7	0.060	30	39.822	25.885	14.0	28.7	0.082
	Point 24	55	30	44.102	28.666	20.5	35.2	0.103	25	36.752	23.889	20.5	35.2	0.093	35	51.816	33.681	21.0	35.7	0.133
	Point 27A	65	31	48.701	31.656	25.5	40.2	0.130	22	34.562	22.465	25.5	40.2	0.100	32	50.272	32.677	25.5	40.2	0.145
	Point 27B	33	24	31.014	20.159	12.5	27.2	0.056	23	29.722	19.319	12.5	27.2	0.058	27	34.891	22.679	12.5	27.2	0.068
	Point 30	50	24	34.522	22.439	19.0	33.7	0.077	23	33.083	21.504	19.0	33.7	0.080	30	43.152	28.049	19.0	33.7	0.104
Total Oxygen Injected Per Day (lb)			**21.186**						**19.808**						**25.717**					
System Total Per Day (lb)			**160.89**						**143.80**						**181.84**					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-4. OU-2 33 North Clinton Third Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2019: 751,913 lbs

Oxygen to OU-2 - 33 North Clinton

	Operational Days		Injected Per Month (lbs)
Month 1	Jul-19	25	3,598
Month 2	Aug-19	30	5,866
Month 3	Sep-19	25	7,334
Total Operational Days in Q3 2019			80
Total Oxygen in Q3 2019			16,798.51
Running Total for Oxygen to 33 North Clinton Through Q3 2019 (lbs)			**768,711.87**

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)

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)

			7/10/2019						8/8/2019						9/10/2019					
	O_2%		74.5						72.7						74.8					
	R		10.73						10.73						10.73					
	Temp R (T)		627						625						633					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 1	Point 1A	62	23	34.992	22.745	23.0	37.7	0.095	33	50.205	32.633	23.0	37.7	0.133	26	39.556	25.711	23.0	37.7	0.107
	Point 1B	46	21	28.831	18.740	16.0	30.7	0.064	35	48.051	31.233	16.0	30.7	0.104	23	31.576	20.525	16.0	30.7	0.069
	Point 6A	65	22	34.130	22.184	24.5	39.2	0.096	33	51.194	33.276	24.5	39.2	0.141	26	40.335	26.218	24.5	39.2	0.113
	Point 6B	46	17	23.716	15.415	17.0	31.7	0.054	32	44.642	29.017	17.0	31.7	0.100	28	38.753	25.189	16.5	31.2	0.087
	Point 11	46	18	24.912	16.193	16.5	31.2	0.056	37	51.209	33.286	16.5	31.2	0.113	25	34.600	22.490	16.5	31.2	0.077
	Point 35	41	20	26.316	17.105	13.5	28.2	0.053	38	49.555	32.211	13.0	27.7	0.097	22	28.690	18.648	13.0	27.7	0.057
	Point 40	41	17	22.566	14.668	14.0	28.7	0.047	40	52.632	34.211	13.5	28.2	0.105	22	28.948	18.816	13.5	28.2	0.058
	Point 45	31	17	20.506	13.329	9.0	23.7	0.035	36	43.425	28.226	9.0	23.7	0.073	22	26.538	17.249	9.0	23.7	0.045
Total Oxygen Injected Per Day (lb)			**16.001**						**27.675**						**19.632**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 2	Point 2A	67	23	36.580	23.777	26.5	41.2	0.108	24	37.938	24.660	26.0	40.7	0.109	28	44.261	28.770	26.0	40.7	0.129
	Point 2B	46	26	35.985	23.390	16.5	31.2	0.081	26	35.985	23.390	16.5	31.2	0.079	23	31.832	20.691	16.5	31.2	0.071
	Point 7A	65	18	27.924	18.151	24.5	39.2	0.079	22	34.130	22.184	24.5	39.2	0.094	20	30.828	20.038	24.0	38.7	0.085
	Point 7B	41	23	32.339	21.020	17.5	32.2	0.075	20	28.120	18.278	17.5	32.2	0.064	19	26.506	17.229	17.0	31.7	0.060
	Point 12	46	17	23.528	15.293	16.5	31.2	0.053	21	29.064	18.892	16.5	31.2	0.064	22	30.448	19.791	16.5	31.2	0.068
	Point 36	36	25	31.403	20.412	11.0	25.7	0.058	28	34.828	22.638	10.5	25.2	0.062	23	28.608	18.595	10.5	25.2	0.052
	Point 41	41	17	22.566	14.668	14.0	28.7	0.047	22	29.203	18.982	14.0	28.7	0.059	20	26.316	17.105	13.5	28.2	0.053
	Point 46	46	22	27.902	18.136	11.5	26.2	0.053	29	36.780	23.907	11.5	26.2	0.068	21	26.379	17.146	11.0	25.7	0.049
Total Oxygen Injected Per Day (lb)			**17.702**						**19.158**						**18.139**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 3	Point 3A	65	14	22.130	14.385	26.0	40.7	0.065	20	31.420	20.423	25.5	40.2	0.089	55	86.405	56.163	25.5	40.2	0.249
	Point 3B	46	20	27.458	17.848	16.0	30.7	0.061	24	32.949	21.417	16.0	30.7	0.071	73	100.221	65.143	16.0	30.7	0.220
	Point 8A	71	13	21.294	13.841	29.0	43.7	0.067	22	35.829	23.289	28.5	43.2	0.109	62	100.971	65.631	28.5	43.2	0.312
	Point 8B	46	10	13.840	8.996	16.5	31.2	0.031	29	40.137	26.089	16.5	31.2	0.088	87	119.441	77.637	16.0	30.7	0.262
	Point 32A	63.5	18	27.746	18.035	24.0	38.7	0.077	21	32.370	21.040	24.0	38.7	0.088	85	130.171	84.611	23.5	38.2	0.356
	Point 32B	36	12	15.219	9.893	11.5	26.2	0.029	26	32.659	21.228	11.0	25.7	0.059	95	119.332	77.565	11.0	25.7	0.220
	Point 37	41	14	18.421	11.974	13.5	28.2	0.037	24	31.579	20.526	13.5	28.2	0.063	70	92.106	59.869	13.5	28.2	0.186
	Point 42	36	12	15.219	9.893	11.5	26.2	0.029	29	37.129	24.134	12.0	26.7	0.070	100	125.612	81.648	11.0	25.7	0.231
Total Oxygen Injected Per Day (lb)			**12.661**						**20.403**						**65.156**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 4	Point 4A	69	22	35.201	22.881	27.0	41.7	0.106	34	54.402	35.361	27.0	41.7	0.160	29	46.122	29.980	26.5	41.2	0.136
	Point 4B	46	21	29.064	18.892	16.5	31.2	0.065	32	44.642	29.017	17.0	31.7	0.100	29	40.137	26.089	16.5	31.2	0.090
	Point 9A	71	26	41.351	26.878	26.5	41.2	0.123	42	68.400	44.460	28.5	43.2	0.208	20	32.192	20.925	27.5	42.2	0.097
	Point 9B	46	27	37.667	24.483	17.0	31.7	0.086	34	47.432	30.831	17.0	31.7	0.106	46	63.665	41.382	16.5	31.2	0.142
	Point 33	42	30	39.822	25.885	14.0	28.7	0.082	32	42.477	27.610	14.0	28.7	0.086	53	69.737	45.329	13.5	28.2	0.141
	Point 38	36	26	32.975	21.434	11.5	26.2	0.062	28	35.512	23.083	11.5	26.2	0.066	84	105.514	68.584	11.0	25.7	0.194
	Point 43	31	25	30.156	19.602	9.0	23.7	0.051	30	36.188	23.522	9.0	23.7	0.060	97	117.007	76.054	9.0	23.7	0.199
	Point 48	55	26	37.675	24.489	19.5	34.2	0.093	25	36.490	23.718	20.0	34.7	0.089	40	57.961	37.675	19.5	34.2	0.142
Total Oxygen Injected Per Day (lb)			**21.380**						**27.995**						**36.493**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 5	Point 5A	67	21	32.991	21.444	25.5	40.2	0.095	35	54.985	35.740	25.5	40.2	0.156	62	96.795	62.917	25.0	39.7	0.275
	Point 5B	45	23	31.832	20.691	16.5	31.2	0.071	33	45.673	29.687	16.5	31.2	0.100	64	87.865	57.112	16.0	30.7	0.193
	Point 10	56	21	30.871	20.066	20.5	35.2	0.078	31	45.572	29.622	20.5	35.2	0.113	100	145.959	94.873	20.0	34.7	0.363
	Point 34	36	22	28.690	18.648	13.0	27.7	0.057	31	40.427	26.277	13.0	27.7	0.079	77	99.504	64.678	12.5	27.2	0.194
	Point 39	26	22	25.393	16.506	7.0	21.7	0.040	37	42.212	27.438	6.5	21.2	0.063	48	54.761	35.595	6.5	21.2	0.083
	Point 44	41	25	31.707	20.610	11.5	26.2	0.060	31	39.317	25.556	11.5	26.2	0.073	68	85.416	55.521	11.0	25.7	0.157
	Point 47	55	22	31.879	20.721	19.5	34.2	0.078	34	49.267	32.024	19.5	34.2	0.119	64	92.058	59.837	19.0	33.7	0.222
	Point 49	55	86	125.524	81.591	20.0	34.7	0.314	33	48.166	31.308	20.0	34.7	0.118	77	111.575	72.524	19.5	34.2	0.273
Total Oxygen Injected Per Day (lb)			**25.402**						**26.248**						**56.318**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 6	Point 16	40	53	71.568	46.519	15.0	29.7	0.153	30	40.850	26.552	15.5	30.2	0.087	85	114.779	74.606	15.0	29.7	0.244
	Point 19	40	22	29.707	19.310	15.0	29.7	0.064	32	43.211	28.087	15.0	29.7	0.090	98	131.215	85.290	14.5	29.2	0.274
	Point 22	40	0	0.000	0.000	14.5	29.2	0.000	18	24.101	15.665	14.5	29.2	0.050	94	125.859	81.808	14.5	29.2	0.263
	Point 25A	60	22	33.691	21.899	23.5	38.2	0.093	29	44.411	28.867	23.5	38.2	0.120	60	91.886	59.726	23.5	38.2	0.251
	Point 25B	29	14	17.240	11.206	10.0	24.7	0.031	28	34.480	22.412	10.0	24.7	0.060	60	73.886	48.026	10.0	24.7	0.131
	Point 28	50	15	21.576	14.024	19.0	33.7	0.052	32	46.029	29.919	19.0	33.7	0.109	100	143.840	93.496	19.0	33.7	0.347
	Point 31A	69	20	32.192	20.925	27.5	42.2	0.098	32	51.508	33.480	27.5	42.2	0.153	58	93.357	60.682	27.5	42.2	0.282
	Point 31B	40	17	22.956	14.921	15.0	29.7	0.049	32	42.846	27.850	14.5	29.2	0.088	83	111.131	72.235	14.5	29.2	0.232
Total Oxygen Injected Per Day (lb)			**17.248**						**24.228**						**64.786**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 7	Point 14	39	21	28.595	18.587	15.5	30.2	0.062	31	42.211	27.437	15.5	30.2	0.090	20	27.233	17.702	15.5	30.2	0.059
	Point 17	40	17	22.169	14.410	13.0	27.7	0.044	30	39.122	25.430	13.0	27.7	0.076	19	24.778	16.105	13.0	27.7	0.049
	Point 20	40	17	22.956	14.921	15.0	29.7	0.049	40	54.014	35.109	15.0	29.7	0.113	17	22.956	14.921	15.0	29.7	0.049
	Point 23	40	18	24.101	15.665	14.5	29.2	0.051	32	42.846	27.850	14.5	29.2	0.088	18	24.101	15.665	14.5	29.2	0.050
	Point 26A	60	17	26.034	16.922	23.5	38.2	0.072	31	47.474	30.858	23.5	38.2	0.128	14	21.440	13.936	23.5	38.2	0.059
	Point 26B	29	18	23.473	15.258	13.0	27.7	0.047	38	49.555	32.211	13.0	27.7	0.097	20	26.082	16.953	13.0	27.7	0.052
	Point 29A	66	20	31.615	20.550	26.0	40.7	0.093	26	41.601	27.041	27.0	41.7	0.122	19	30.034	19.522	26.0	40.7	0.088
	Point 29B	40	18	24.306	15.799	15.0	29.7	0.052	33	44.561	28.965	15.0	29.7	0.093	21	28.117	18.276	14.5	29.2	0.059
Total Oxygen Injected Per Day (lb)			**15.010**						**25.837**						**14.842**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	28	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O2
Injection Bank 8	Point 13	40	25	34.322	22.309	16.0	30.7	0.076	28	38.441	24.987	16.0	30.7	0.083	23	31.576	20.525	16.0	30.7	0.069
	Point 15	40	32	43.573	28.323	15.5	30.2	0.095	30	40.510	26.332	15.0	29.7	0.085	22	29.707	19.310	15.0	29.7	0.063
	Point 50	55	20	29.192	18.975	20.0	34.7	0.073	32	46.369	30.140	19.5	34.2	0.112	25	36.226	23.547	19.5	34.2	0.089
	Point 21	40	14.5	19.414	12.619	14.5	29.2	0.041	31	41.150	26.747	14.0	28.7	0.083	21	27.876	18.119	14.0	28.7	0.057
	Point 24	55	21	31.090	20.208	21.0	35.7	0.080	27	39.973	25.982	21.0	35.7	0.101	17	24.991	16.244	20.5	35.2	0.063
	Point 27A	65	25.5	40.061	26.039	25.5	40.2	0.116	22	34.562	22.465	25.5	40.2	0.098	18	28.278	18.381	25.5	40.2	0.081
	Point 27B	33	12.5	16.301	10.596	13.0	27.7	0.033	32	41.352	26.879	12.5	27.2	0.079	21	27.137	17.639	12.5	27.2	0.053
	Point 30	50	19	27.330	17.764	19.0	33.7	0.066	32	46.029	29.919	19.0	33.7	0.109	25	35.960	23.374	19.0	33.7	0.087
Total Oxygen Injected Per Day (lb)			**18.524**						**23.997**						**17.998**					
System Total Per Day (lb)			**143.93**						**195.54**						**293.36**					

Appendix E. OU-3 Oxygen Injection System Operational Data
Table E-1. OU-3 87 Community Third Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2019: 303,572 lbs

Oxygen to OU-3 - 87 Community

	Operational Days		Injected Per Month (lbs)
Month 1	Jul-19	30	3,980
Month 2	Aug-19	31	3,472
Month 3	Sep-19	30	3,935
Total Operational Days in Q3 2019			91
Total Oxygen in Q3 2019 (lbs)			11,387.40
Running Total for Oxygen to 87 Community Rd Through Q3 2019 (lbs)			**314,959.81**

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 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)

			7/9/2019						8/19/2019						9/11/2019					
		O_2%	82.7						75.4						84.5					
		R	10.73						10.73						10.73					
		Temp R (T)	612						645						640					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	11	31	33.216	24.469	4.0	18.7	0.058	31	33.216	24.469	4.0	18.7	0.050	29	31.073	22.890	4.0	18.7	0.053
	Point 1B	21	30	35.416	26.090	8.0	22.7	0.075	25	29.513	21.741	8.0	22.7	0.054	32	37.777	27.829	8.0	22.7	0.078
	Point 1C	31	31	40.060	29.511	12.5	27.2	0.101	30	38.410	28.295	12.0	26.7	0.082	29	37.129	27.352	12.0	26.7	0.090
	Point 2A	11	29	31.073	22.890	4.0	18.7	0.054	22	23.255	17.131	3.5	18.2	0.034	32	33.826	24.918	3.5	18.2	0.056
	Point 2B	21	30	37.315	27.489	10.5	25.2	0.087	32	39.406	29.029	10.0	24.7	0.078	28	34.480	25.401	10.0	24.7	0.077
	Point 2C	31	30	38.410	28.295	12.0	26.7	0.095	32	40.585	29.898	11.5	26.2	0.085	30	38.048	28.029	11.5	26.2	0.090
	Point 3A	11	29	31.073	22.890	4.0	18.7	0.054	30	32.145	23.680	4.0	18.7	0.048	28	30.002	22.101	4.0	18.7	0.051
	Point 3B	21	23	27.152	20.002	8.0	22.7	0.057	32	37.777	27.829	8.0	22.7	0.069	27	31.874	23.481	8.0	22.7	0.066
Total Oxygen Injected Per Day (lb)			**18.582**						**16.013**						**17.922**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3C	31	29	37.818	27.860	13.0	27.7	0.097	30	38.768	28.559	12.5	27.2	0.085	29	37.475	27.607	12.5	27.2	0.092
	Point 4A	11	30	32.571	23.994	4.5	19.2	0.058	28	30.400	22.395	4.5	19.2	0.047	27	28.930	21.312	4.0	18.7	0.049
	Point 4B	21	30	35.416	26.090	8.0	22.7	0.075	28	32.689	24.081	7.5	22.2	0.058	23	26.852	19.781	7.5	22.2	0.054
	Point 4C	31	30	39.122	28.820	13.0	27.7	0.101	31	40.060	29.511	12.5	27.2	0.087	31	40.060	29.511	12.5	27.2	0.099
	Point 5A	11	40	42.859	31.573	4.0	18.7	0.074	32	33.826	24.918	3.5	18.2	0.049	31	32.769	24.140	3.5	18.2	0.054
	Point 5B	21	32	37.777	27.829	8.0	22.7	0.080	31	36.597	26.959	8.0	22.7	0.067	28	32.689	24.081	7.5	22.2	0.066
	Point 5C	31	40	52.163	38.427	13.0	27.7	0.134	34	43.937	32.367	12.5	27.2	0.096	31	40.060	29.511	12.5	27.2	0.099
	Point 6A	11	37	40.171	29.593	4.5	19.2	0.072	28	30.002	22.101	4.0	18.7	0.045	28	30.002	22.101	4.0	18.7	0.051
Total Oxygen Injected Per Day (lb)			**22.075**						**17.094**						**18.039**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 6B	21	30	35.024	25.801	7.5	22.2	0.072	27	31.164	22.958	7.0	21.7	0.054	27	30.803	22.692	6.5	21.2	0.059
	Point 6C	31	29	37.475	27.607	12.5	27.2	0.095	20	25.845	19.039	12.5	27.2	0.056	37	47.372	34.897	12.0	26.7	0.115
	Point 7A	11	29	31.893	23.495	5.0	19.7	0.058	23	24.971	18.396	4.5	19.2	0.038	30	32.571	23.994	4.5	19.2	0.057
	Point 7B	21	29	34.235	25.220	8.0	22.7	0.072	28	32.689	24.081	7.5	22.2	0.058	30	35.024	25.801	7.5	22.2	0.070
	Point 7C	31	29	37.818	27.860	13.0	27.7	0.097	30	39.122	28.820	13.0	27.7	0.087	28	36.183	26.655	12.5	27.2	0.089
	Point 8A	16	26	28.954	21.330	5.5	20.2	0.054	26	28.954	21.330	5.5	20.2	0.047	30	33.409	24.611	5.5	20.2	0.061
	Point 8B	26	30	36.943	27.215	10.0	24.7	0.085	28	34.130	25.142	9.5	24.2	0.066	36	43.881	32.326	9.5	24.2	0.096
	Point 8C	36	33	43.805	32.269	14.0	28.7	0.117	31	40.790	30.048	13.5	28.2	0.092	25	32.895	24.233	13.5	28.2	0.084
Total Oxygen Injected Per Day (lb)			**20.794**						**15.998**						**20.216**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 9A	16	29	31.893	23.495	5.0	19.7	0.058	23	25.294	18.634	5.0	19.7	0.040	32	34.743	25.594	4.5	19.2	0.060
	Point 9B	26	30	35.416	26.090	8.0	22.7	0.075	26	30.694	22.611	8.0	22.7	0.056	32	37.777	27.829	8.0	22.7	0.078
	Point 9C	36	30	39.474	29.079	13.5	28.2	0.103	34	44.737	32.956	13.5	28.2	0.101	32	41.731	30.742	13.0	27.7	0.105
	Point 10A	16	30	31.712	23.361	3.5	18.2	0.054	26	27.484	20.246	3.5	18.2	0.040	33	34.401	25.342	3.0	17.7	0.055
	Point 10B	26	31	37.786	27.836	9.5	24.2	0.085	27	32.911	24.244	9.5	24.2	0.064	33	40.224	29.632	9.5	24.2	0.088
	Point 10C	36	31	40.790	30.048	13.5	28.2	0.107	23	30.263	22.294	13.5	28.2	0.068	32	42.106	31.018	13.5	28.2	0.108
	Point 11A	16	29	31.893	23.495	5.0	19.7	0.058	21	23.095	17.013	5.0	19.7	0.037	32	35.192	25.925	5.0	19.7	0.063
	Point 11B	26	31	37.786	27.836	9.5	24.2	0.085	31	37.394	27.547	9.0	23.7	0.071	32	38.600	28.435	9.0	23.7	0.083
Total Oxygen Injected Per Day (lb)			**19.980**						**15.276**						**20.474**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 11C	36	29	38.495	28.358	14.0	28.7	0.102	31	41.150	30.314	14.0	28.7	0.095	28	36.842	27.141	13.5	28.2	0.094
	Point 12A	16	25	27.494	20.254	5.0	19.7	0.050	32	34.743	25.594	4.5	19.2	0.054	34	36.914	27.194	4.5	19.2	0.064
	Point 12B	26	31	36.191	26.661	7.5	22.2	0.075	29	33.856	24.941	7.5	22.2	0.060	29	33.856	24.941	7.5	22.2	0.068
	Point 12C	36	21	27.386	20.174	13.0	27.7	0.070	30	39.122	28.820	13.0	27.7	0.087	30	39.122	28.820	13.0	27.7	0.098
	Point 15A	15	29	32.692	24.083	6	20.7	0.063	32	35.192	25.925	5	19.7	0.056	30	32.993	24.305	5	19.7	0.059
	Point 15B	30	25	31.707	23.358	11.5	26.2	0.077	28	35.171	25.910	11	25.7	0.073	28	35.171	25.910	11	25.7	0.082
	Point 16A	15	22	25.684	18.921	7.5	22.2	0.053	33	38.090	28.059	7	21.7	0.066	28	32.319	23.808	7	21.7	0.064
	Point 16B	30	31	39.690	29.238	12	26.7	0.098	17	21.766	16.034	12	26.7	0.047	30	38.048	28.029	11.5	26.2	0.090
Total Oxygen Injected Per Day (lb)			**18.839**						**17.177**						**19.826**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 13A	16	27	30.068	22.150	5.5	20.2	0.056	29	32.295	23.791	5.5	20.2	0.052	30	33.409	24.611	5.5	20.2	0.061
	Point 13B	26	25	30.786	22.679	10.0	24.7	0.071	32	39.005	28.734	9.5	24.2	0.076	30	36.567	26.938	9.5	24.2	0.080
	Point 13C	36	29	38.495	28.358	14.0	28.7	0.102	30	39.822	29.336	14.0	28.7	0.092	31	41.150	30.314	14.0	28.7	0.107
	Point 14A	16	20	22.273	16.407	5.5	20.2	0.042	31	34.523	25.432	5.5	20.2	0.056	33	36.750	27.072	5.5	20.2	0.067
	Point 14B	26	30	36.943	27.215	10.0	24.7	0.085	30	36.943	27.215	10.0	24.7	0.073	30	36.943	27.215	10.0	24.7	0.083
	Point 14C	36	29	38.829	28.604	14.5	29.2	0.105	32	42.846	31.563	14.5	29.2	0.100	31	41.150	30.314	14.0	28.7	0.107
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**14.751**						**14.382**						**16.176**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 17A	15	29	31.893	23.495	5.0	19.7	0.058	32	34.743	25.594	4.5	19.2	0.054	32	34.743	25.594	4.5	19.2	0.060
	Point 17B	30	29	36.071	26.573	10.5	25.2	0.084	24	29.555	21.772	10.0	24.7	0.059	31	38.175	28.122	10.0	24.7	0.085
	Point 18A	15	27	30.438	22.423	6.0	20.7	0.058	31	34.523	25.432	5.5	20.2	0.056	30	33.409	24.611	5.5	20.2	0.061
	Point 18B	30	30	37.684	27.760	11.0	25.7	0.090	32	40.196	29.611	11.0	25.7	0.083	30	37.315	27.489	10.5	25.2	0.085
	Point 19A	15	22	23.573	17.365	4.0	18.7	0.041	26	27.859	20.522	4.0	18.7	0.042	30	31.712	23.361	3.5	18.2	0.052
	Point 19B	30	29	36.071	26.573	10.5	25.2	0.084	28	34.828	25.656	10.5	25.2	0.070	24	29.852	21.991	10.5	25.2	0.068
	Point 20A	15	22	24.801	18.270	6	20.7	0.048	32	36.074	26.575	6	20.7	0.060	34	37.863	27.893	5.5	20.2	0.069
	Point 20B	30	27	34.891	25.703	12.5	27.2	0.088	28	36.183	26.655	12.5	27.2	0.079	31	39.690	29.238	12	26.7	0.096
Total Oxygen Injected Per Day (lb)			**17.658**						**16.069**						**18.504**					
System Total Per Day (lb)			**132.68**						**112.01**						**131.16**					

Appendix E. OU-3 Oxygen Injection System Operational Data
Table E-1. OU-3 87 Community Third Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q2 2020: 345,942 lbs

Oxygen to OU-3 - 87 Community

	Operational Days		Injected Per Month (lbs)
Month 1	Jul-20	31	3,783
Month 2	Aug-20	28	3,027
Month 3	Sep-20	24	3,513
Total Operational Days in Q3 2020			83
Total Oxygen in Q3 2020 (lbs)			10,322.37
Running Total for Oxygen to 87 Community Rd Through Q3 2020 (lbs)			**356,264.37**

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)

			7/7/2020						8/3/2020						9/21/2020					
		O_2%	77.1						75.9						83.0					
		R	10.73						10.73						10.73					
		Temp R (T)	611						641						622					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	11	27	28.930	21.312	4.0	18.7	0.047	29	30.655	22.582	3.5	18.2	0.045	25	26.427	19.468	3.5	18.2	0.044
	Point 1B	21	29	34.235	25.220	8.0	22.7	0.067	27	31.874	23.481	8.0	22.7	0.059	43	50.763	37.395	8.0	22.7	0.106
	Point 1C	31	29	37.129	27.352	12.0	26.7	0.086	30	38.410	28.295	12.0	26.7	0.083	29	37.129	27.352	12.0	26.7	0.091
	Point 2A	11	27	28.930	21.312	4.0	18.7	0.047	25	26.427	19.468	3.5	18.2	0.039	49	51.796	38.156	3.5	18.2	0.086
	Point 2B	21	26	32.017	23.586	10.0	24.7	0.069	29	35.712	26.308	10.0	24.7	0.072	26	32.017	23.586	10.0	24.7	0.072
	Point 2C	31	29	36.780	27.095	11.5	26.2	0.083	28	35.512	26.160	11.5	26.2	0.076	25	31.707	23.358	11.5	26.2	0.076
	Point 3A	11	27	29.314	21.595	4.5	19.2	0.049	30	32.145	23.680	4.0	18.7	0.049	28	30.002	22.101	4.0	18.7	0.051
	Point 3B	21	30	35.804	26.376	8.5	23.2	0.072	52	61.388	45.222	8.0	22.7	0.113	28	33.055	24.350	8.0	22.7	0.069
Total Oxygen Injected Per Day (lb)			**16.629**						**17.156**						**19.056**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	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	0.094	28	36.183	26.655	12.5	27.2	0.080	36	46.521	34.271	12.5	27.2	0.116
	Point 4A	11	27	29.314	21.595	4.5	19.2	0.049	26	27.859	20.522	4.0	18.7	0.042	30	32.571	23.994	4.5	19.2	0.057
	Point 4B	21	25	29.513	21.741	8.0	22.7	0.058	27	31.521	23.221	7.5	22.2	0.057	30	35.024	25.801	7.5	22.2	0.071
	Point 4C	31	27	34.891	25.703	12.5	27.2	0.082	27	34.891	25.703	12.5	27.2	0.077	33	42.645	31.415	12.5	27.2	0.106
	Point 5A	11	30	32.145	23.680	4.0	18.7	0.052	24	25.369	18.689	3.5	18.2	0.038	38	40.168	29.591	3.5	18.2	0.067
	Point 5B	21	29	34.235	25.220	8.0	22.7	0.067	26	30.354	22.361	7.5	22.2	0.055	30	35.024	25.801	7.5	22.2	0.071
	Point 5C	31	31	40.060	29.511	12.5	27.2	0.094	25	32.306	23.799	12.5	27.2	0.071	37	47.814	35.223	12.5	27.2	0.119
	Point 6A	11	27	28.930	21.312	4.0	18.7	0.047	27	28.930	21.312	4.0	18.7	0.044	32	34.743	25.594	4.5	19.2	0.061
Total Oxygen Injected Per Day (lb)			**17.394**						**14.852**						**21.414**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 6B	21	0	0.000	0.000	7.0	21.7	0.000	24	27.381	20.170	6.5	21.2	0.047	27	30.803	22.692	6.5	21.2	0.060
	Point 6C	31	33	42.645	31.415	12.5	27.2	0.100	21	26.887	19.807	12.0	26.7	0.058	38	48.652	35.841	12.0	26.7	0.119
	Point 7A	11	30	32.571	23.994	4.5	19.2	0.054	24	26.057	19.195	4.5	19.2	0.041	29	31.486	23.194	4.5	19.2	0.055
	Point 7B	21	31	36.191	26.661	7.5	22.2	0.070	26	30.354	22.361	7.5	22.2	0.055	30	35.024	25.801	7.5	22.2	0.071
	Point 7C	31	31	40.427	29.781	13.0	27.7	0.097	27	35.210	25.938	13.0	27.7	0.079	26	33.599	24.751	12.5	27.2	0.084
	Point 8A	16	30	33.409	24.611	5.5	20.2	0.058	24	26.727	19.689	5.5	20.2	0.044	33	36.750	27.072	5.5	20.2	0.068
	Point 8B	26	30	36.567	26.938	9.5	24.2	0.077	24	29.254	21.550	9.5	24.2	0.058	23	28.035	20.652	9.5	24.2	0.062
	Point 8C	36	33	43.805	32.269	14.0	28.7	0.109	31	40.790	30.048	13.5	28.2	0.094	25	32.895	24.233	13.5	28.2	0.085
Total Oxygen Injected Per Day (lb)			**18.091**						**15.208**						**19.338**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 9A	16	31	34.093	25.115	5.0	19.7	0.058	23	24.971	18.396	4.5	19.2	0.039	55	59.714	43.990	4.5	19.2	0.105
	Point 9B	26	31	36.597	26.959	8.0	22.7	0.072	30	35.024	25.801	7.5	22.2	0.063	25	29.513	21.741	8.0	22.7	0.061
	Point 9C	36	31	40.790	30.048	13.5	28.2	0.100	30	39.122	28.820	13.0	27.7	0.088	86	112.151	82.618	13.0	27.7	0.285
	Point 10A	16	33	34.883	25.697	3.5	18.2	0.055	26	27.103	19.966	3.0	17.7	0.039	30	31.273	23.038	3.0	17.7	0.051
	Point 10B	26	32	39.406	29.029	10.0	24.7	0.084	24	29.254	21.550	9.5	24.2	0.058	27	32.911	24.244	9.5	24.2	0.073
	Point 10C	36	30	39.474	29.079	13.5	28.2	0.096	25	32.895	24.233	13.5	28.2	0.075	10	13.158	9.693	13.5	28.2	0.034
	Point 11A	16	35	38.492	28.355	5.0	19.7	0.066	23	25.294	18.634	5.0	19.7	0.041	36	39.591	29.166	5.0	19.7	0.071
	Point 11B	26	31	37.394	27.547	9.0	23.7	0.077	30	36.188	26.658	9.0	23.7	0.070	24	28.950	21.327	9.0	23.7	0.063
Total Oxygen Injected Per Day (lb)			**19.457**						**15.119**						**23.776**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 11C	36	29	38.495	28.358	14.0	28.7	0.096	30	39.474	29.079	13.5	28.2	0.090	34	44.737	32.956	13.5	28.2	0.116
	Point 12A	16	29	31.893	23.495	5.0	19.7	0.054	27	29.314	21.595	4.5	19.2	0.046	42	46.190	34.027	5.0	19.7	0.083
	Point 12B	26	29	33.856	24.941	7.5	22.2	0.065	31	36.191	26.661	7.5	22.2	0.065	24	28.019	20.641	7.5	22.2	0.057
	Point 12C	36	29	37.818	27.860	13.0	27.7	0.091	30	39.122	28.820	13.0	27.7	0.088	50	65.204	48.034	13.0	27.7	0.165
	Point 15A	15	30	33.409	24.611	5.5	20.2	0.058	34	37.392	27.545	5	19.7	0.060	29	31.893	23.495	5	19.7	0.058
	Point 15B	30	30	37.684	27.760	11	25.7	0.084	29	36.428	26.835	11	25.7	0.076	40	50.245	37.014	11	25.7	0.118
	Point 16A	15	22	25.684	18.921	7.5	22.2	0.049	24	27.702	20.407	7	21.7	0.049	41	47.324	34.862	7	21.7	0.094
	Point 16B	30	31	39.317	28.963	11.5	26.2	0.089	39	49.463	36.438	11.5	26.2	0.105	29	36.780	27.095	11.5	26.2	0.088
Total Oxygen Injected Per Day (lb)			**18.785**						**18.556**						**24.948**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 13A	16	31	34.523	25.432	5.5	20.2	0.060	24	26.727	19.689	5.5	20.2	0.044	28	30.793	22.684	5.0	19.7	0.056
	Point 13B	26	31	37.786	27.836	9.5	24.2	0.079	26	31.692	23.346	9.5	24.2	0.062	38	46.319	34.121	9.5	24.2	0.103
	Point 13C	36	30	39.822	29.336	14.0	28.7	0.099	28	37.168	27.380	14.0	28.7	0.087	25	33.185	24.447	14.0	28.7	0.087
	Point 14A	16	30	33.409	24.611	5.5	20.2	0.058	25	27.841	20.509	5.5	20.2	0.046	40	44.545	32.815	5.5	20.2	0.082
	Point 14B	26	30	36.943	27.215	10.0	24.7	0.079	28	34.480	25.401	10.0	24.7	0.069	28	34.480	25.401	10.0	24.7	0.078
	Point 14C	36	31	41.507	30.577	14.5	29.2	0.105	26	34.513	25.424	14.0	28.7	0.081	36	47.787	35.203	14.0	28.7	0.126
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**15.397**						**12.430**						**17.012**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 17A	15	29	31.893	23.495	5.0	19.7	0.054	24	26.057	19.195	4.5	19.2	0.041	33	35.829	26.394	4.5	19.2	0.063
	Point 17B	30	27	33.249	24.493	10.0	24.7	0.071	26	32.017	23.586	10.0	24.7	0.064	40	49.258	36.286	10.0	24.7	0.111
	Point 18A	15	24	26.727	19.689	5.5	20.2	0.047	25	27.841	20.509	5.5	20.2	0.046	28	31.182	22.970	5.5	20.2	0.058
	Point 18B	30	22	27.635	20.358	11.0	25.7	0.062	29	36.428	26.835	11.0	25.7	0.076	33	41.452	30.536	11.0	25.7	0.098
	Point 19A	15	29	31.073	22.890	4.0	18.7	0.050	28	29.598	21.804	3.5	18.2	0.044	10	10.715	7.893	4.0	18.7	0.018
	Point 19B	30	30	37.315	27.489	10.5	25.2	0.081	27	33.249	24.493	10.0	24.7	0.067	40	49.258	36.286	10.0	24.7	0.111
	Point 20A	15	27	30.438	22.423	6	20.7	0.055	27	30.068	22.150	5.5	20.2	0.049	35	38.977	28.713	5.5	20.2	0.072
	Point 20B	30	29	37.475	27.607	12.5	27.2	0.088	27	34.569	25.466	12	26.7	0.075	38	48.652	35.841	12	26.7	0.119
Total Oxygen Injected Per Day (lb)			**16.274**						**14.776**						**20.824**					
System Total Per Day (lb)			**122.03**						**108.10**						**146.37**					

Appendix E. OU-3 Oxygen Injection System Operational Data
Table E-1. OU-3 87 Community Second Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2020: 335,406 lbs

Oxygen to OU-3 - 87 Community

	Operational Days		Injected Per Month (lbs)
Month 1	Apr-20	28	3,487
Month 2	May-20	31	3,703
Month 3	Jun-20	30	3,346
Total Operational Days in Q2 2020			89
Total Oxygen in Q2 2020 (lbs)			10,535.86
Running Total for Oxygen to 87 Community Rd Through Q2 2020 (lbs)			**345,941.86**

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)

			4/23/2020						5/19/2020						6/4/2020					
	O_2%		76.3						80.4						80.4					
	R		10.73						10.73						10.73					
	Temp R (T)		628						627						631					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	11	31	33.216	24.469	4.0	18.7	0.052	28	30.002	22.101	4.0	18.7	0.049	30	32.145	23.680	4.0	18.7	0.053
	Point 1B	21	36	42.965	31.651	8.5	23.2	0.083	24	28.333	20.872	8.0	22.7	0.057	23	27.152	20.002	8.0	22.7	0.054
	Point 1C	31	32	41.352	30.463	12.5	27.2	0.094	30	38.768	28.559	12.5	27.2	0.093	30	38.768	28.559	12.5	27.2	0.092
	Point 2A	11	36	38.573	28.416	4.0	18.7	0.060	24	25.369	18.689	3.5	18.2	0.041	19	20.358	14.997	4.0	18.7	0.033
	Point 2B	21	36	44.332	32.658	10.0	24.7	0.091	26	32.017	23.586	10.0	24.7	0.070	34	41.869	30.843	10.0	24.7	0.090
	Point 2C	31	32	40.585	29.898	11.5	26.2	0.089	26	32.975	24.292	11.5	26.2	0.076	31	39.317	28.963	11.5	26.2	0.090
	Point 3A	11	28	30.400	22.395	4.5	19.2	0.049	26	27.859	20.522	4.0	18.7	0.046	30	32.145	23.680	4.0	18.7	0.053
	Point 3B	21	33	38.958	28.699	8.0	22.7	0.074	28	33.417	24.617	8.5	23.2	0.068	34	40.138	29.568	8.0	22.7	0.080
Total Oxygen Injected Per Day (lb)			**18.926**						**15.977**						**17.437**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3C	31	32	41.731	30.742	13.0	27.7	0.096	24	31.298	23.056	13.0	27.7	0.076	31	40.427	29.781	13.0	27.7	0.098
	Point 4A	11	31	33.657	24.794	4.5	19.2	0.054	28	30.400	22.395	4.5	19.2	0.051	29	31.486	23.194	4.5	19.2	0.053
	Point 4B	21	33	38.958	28.699	8.0	22.7	0.074	24	28.333	20.872	8.0	22.7	0.057	36	42.029	30.961	7.5	22.2	0.082
	Point 4C	31	32	41.731	30.742	13.0	27.7	0.096	26	33.906	24.978	13.0	27.7	0.083	35	45.643	33.624	13.0	27.7	0.111
	Point 5A	11	30	31.712	23.361	3.5	18.2	0.048	26	27.859	20.522	4.0	18.7	0.046	23	24.312	17.910	3.5	18.2	0.039
	Point 5B	21	31	36.597	26.959	8.0	22.7	0.069	26	30.694	22.611	8.0	22.7	0.061	27	31.874	23.481	8.0	22.7	0.063
	Point 5C	31	33	43.035	31.702	13.0	27.7	0.099	26	33.906	24.978	13.0	27.7	0.083	23	29.994	22.095	13.0	27.7	0.073
	Point 6A	11	30	32.571	23.994	4.5	19.2	0.052	24	26.057	19.195	4.5	19.2	0.044	24	26.057	19.195	4.5	19.2	0.044
Total Oxygen Injected Per Day (lb)			**18.865**						**16.030**						**17.968**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 6B	21	32	36.936	27.209	7.0	21.7	0.067	32	36.936	27.209	7.0	21.7	0.071	29	33.473	24.658	7.0	21.7	0.064
	Point 6C	31	29	37.475	27.607	12.5	27.2	0.085	26	33.599	24.751	12.5	27.2	0.080	22	28.430	20.943	12.5	27.2	0.068
	Point 7A	11	30	32.993	24.305	5.0	19.7	0.054	28	30.793	22.684	5.0	19.7	0.053	25	27.143	19.995	4.5	19.2	0.046
	Point 7B	21	31	36.597	26.959	8.0	22.7	0.069	30	35.416	26.090	8.0	22.7	0.071	27	31.521	23.221	7.5	22.2	0.061
	Point 7C	31	28	36.514	26.899	13.0	27.7	0.084	28	36.514	26.899	13.0	27.7	0.089	27	35.210	25.938	13.0	27.7	0.085
	Point 8A	16	39	43.432	31.995	5.5	20.2	0.073	26	28.954	21.330	5.5	20.2	0.051	26	28.954	21.330	5.5	20.2	0.051
	Point 8B	26	18	22.166	16.329	10.0	24.7	0.046	28	34.480	25.401	10.0	24.7	0.075	27	32.911	24.244	9.5	24.2	0.070
	Point 8C	36	32	42.477	31.292	14.0	28.7	0.102	28	37.168	27.380	14.0	28.7	0.094	30	39.822	29.336	14.0	28.7	0.100
Total Oxygen Injected Per Day (lb)			**18.570**						**18.708**						**17.412**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 9A	16	29	31.893	23.495	5.0	19.7	0.052	28	30.793	22.684	5.0	19.7	0.053	23	25.294	18.634	5.0	19.7	0.044
	Point 9B	26	10	11.935	8.792	8.5	23.2	0.023	28	33.417	24.617	8.5	23.2	0.068	28	33.055	24.350	8.0	22.7	0.066
	Point 9C	36	30	39.474	29.079	13.5	28.2	0.093	30	39.474	29.079	13.5	28.2	0.098	32	41.731	30.742	13.0	27.7	0.101
	Point 10A	16	32	33.826	24.918	3.5	18.2	0.051	34	35.940	26.476	3.5	18.2	0.058	24	25.369	18.689	3.5	18.2	0.040
	Point 10B	26	30	36.943	27.215	10.0	24.7	0.076	28	34.480	25.401	10.0	24.7	0.075	28	34.130	25.142	9.5	24.2	0.072
	Point 10C	36	29	38.495	28.358	14.0	28.7	0.092	32	42.477	31.292	14.0	28.7	0.107	17	22.369	16.478	13.5	28.2	0.055
	Point 11A	16	34	37.392	27.545	5.0	19.7	0.061	30	32.993	24.305	5.0	19.7	0.057	23	25.294	18.634	5.0	19.7	0.044
	Point 11B	26	31	37.786	27.836	9.5	24.2	0.076	30	36.567	26.938	9.5	24.2	0.078	31	37.786	27.836	9.5	24.2	0.080
Total Oxygen Injected Per Day (lb)			**16.822**						**19.029**						**16.056**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 11C	36	38	50.442	37.159	14.0	28.7	0.121	26	34.513	25.424	14.0	28.7	0.087	25	33.185	24.447	14.0	28.7	0.083
	Point 12A	16	10	10.998	8.102	5.0	19.7	0.018	70	76.983	56.711	5.0	19.7	0.134	20	21.995	16.203	5.0	19.7	0.038
	Point 12B	26	31	36.191	26.661	7.5	22.2	0.067	28	32.689	24.081	7.5	22.2	0.064	29	33.856	24.941	7.5	22.2	0.066
	Point 12C	36	36	47.369	34.895	13.5	28.2	0.111	20	26.082	19.213	13.0	27.7	0.064	17	22.369	16.478	13.5	28.2	0.055
	Point 15A	15	36	40.091	29.533	5.5	20.2	0.068	24	26.727	19.689	5.5	20.2	0.048	30	32.993	24.305	5	19.7	0.057
	Point 15B	30	32	40.585	29.898	11.5	26.2	0.089	26	32.975	24.292	11.5	26.2	0.076	21	26.634	19.620	11.5	26.2	0.061
	Point 16A	15	38	43.861	32.311	7	21.7	0.079	22	25.684	18.921	7.5	22.2	0.050	21	24.239	17.856	7	21.7	0.046
	Point 16B	30	42	53.774	39.613	12	26.7	0.120	20	25.607	18.863	12	26.7	0.060	26	33.288	24.523	12	26.7	0.078
Total Oxygen Injected Per Day (lb)			**21.525**						**18.630**						**15.482**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	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	0.056	28	31.182	22.970	5.5	20.2	0.055	28	31.182	22.970	5.5	20.2	0.055
	Point 13B	26	30	36.943	27.215	10.0	24.7	0.076	30	36.567	26.938	9.5	24.2	0.078	26	31.692	23.346	9.5	24.2	0.067
	Point 13C	36	30	40.168	29.590	14.5	29.2	0.098	30	39.822	29.336	14.0	28.7	0.101	29	38.495	28.358	14.0	28.7	0.097
	Point 14A	16	33	37.202	27.405	6.0	20.7	0.064	30	33.409	24.611	5.5	20.2	0.059	25	27.841	20.509	5.5	20.2	0.049
	Point 14B	26	28	34.828	25.656	10.5	25.2	0.073	28	34.480	25.401	10.0	24.7	0.075	30	36.943	27.215	10.0	24.7	0.080
	Point 14C	36	31	41.507	30.577	14.5	29.2	0.101	28	37.490	27.618	14.5	29.2	0.096	24	32.134	23.672	14.5	29.2	0.082
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**15.001**						**14.872**						**13.758**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 17A	15	24	26.394	19.444	5.0	19.7	0.043	20	21.995	16.203	5.0	19.7	0.038	24	26.394	19.444	5.0	19.7	0.045
	Point 17B	30	20	24.629	18.143	10.0	24.7	0.051	26	32.017	23.586	10.0	24.7	0.070	18	22.166	16.329	10.0	24.7	0.048
	Point 18A	15	31	34.947	25.744	6.0	20.7	0.060	28	31.565	23.253	6.0	20.7	0.058	22	24.500	18.048	5.5	20.2	0.043
	Point 18B	30	30	37.684	27.760	11.0	25.7	0.081	26	32.659	24.059	11.0	25.7	0.074	28	35.171	25.910	11.0	25.7	0.079
	Point 19A	15	35	37.502	27.626	4.0	18.7	0.058	34	36.430	26.837	4.0	18.7	0.060	24	25.716	18.944	4.0	18.7	0.042
	Point 19B	30	24	29.852	21.991	10.5	25.2	0.063	28	34.828	25.656	10.5	25.2	0.077	20	24.877	18.326	10.5	25.2	0.055
	Point 20A	15	22	24.801	18.270	6	20.7	0.043	24	27.056	19.931	6	20.7	0.049	25	28.183	20.762	6	20.7	0.051
	Point 20B	30	22	28.430	20.943	12.5	27.2	0.065	26	33.599	24.751	12.5	27.2	0.080	18	23.261	17.135	12.5	27.2	0.055
Total Oxygen Injected Per Day (lb)			**14.842**						**16.198**						**13.409**					
System Total Per Day (lb)			**124.55**						**119.44**						**111.52**					

Appendix E. OU-3 Oxygen Injection System Operational Data
Table E-1. OU-3 87 Community First Quarter 2020
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q4 2019: 326,601 lbs

Oxygen to OU-3 - 87 Community

	Operational Days		Injected Per Month (lbs)
Month 1	Jan-20	31	3,860
Month 2	Feb-20	29	3,585
Month 3	Mar-20	11	1,360
Total Operational Days in Q1 2020			71
Total Oxygen in Q1 2020 (lbs)			8,804.88
Running Total for Oxygen to 87 Community Rd Through Q1 2020 (lbs)			**335,405.88**

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 March 2020 taken from February 2020 due to COVID-19.

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)

			1/13/2020						2/10/2020						3/1/2020					
		O_2%	79.5						75.9						75.9					
		R	10.73						10.73						10.73					
		Temp R (T)	627						622						622					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	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	0.051	30	32.145	23.680	4.0	18.7	0.050	30	32.145	23.680	4.0	18.7	0.050
	Point 1B	21	32	37.777	27.829	8.0	22.7	0.075	33	38.958	28.699	8.0	22.7	0.074	33	38.958	28.699	8.0	22.7	0.074
	Point 1C	31	30	38.768	28.559	12.5	27.2	0.092	31	40.060	29.511	12.5	27.2	0.091	31	40.060	29.511	12.5	27.2	0.091
	Point 2A	11	32	34.287	25.258	4.0	18.7	0.056	32	34.287	25.258	4.0	18.7	0.054	32	34.287	25.258	4.0	18.7	0.054
	Point 2B	21	28	34.480	25.401	10.0	24.7	0.074	30	36.943	27.215	10.0	24.7	0.076	30	36.943	27.215	10.0	24.7	0.076
	Point 2C	31	30	38.048	28.029	11.5	26.2	0.087	31	39.317	28.963	11.5	26.2	0.086	31	39.317	28.963	11.5	26.2	0.086
	Point 3A	11	29	31.486	23.194	4.5	19.2	0.053	30	32.571	23.994	4.5	19.2	0.052	30	32.571	23.994	4.5	19.2	0.052
	Point 3B	21	28	33.417	24.617	8.5	23.2	0.067	30	35.804	26.376	8.5	23.2	0.070	30	35.804	26.376	8.5	23.2	0.070
Total Oxygen Injected Per Day (lb)			**17.724**						**17.733**						**17.733**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	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	0.094	24	31.298	23.056	13.0	27.7	0.073	24	31.298	23.056	13.0	27.7	0.073
	Point 4A	11	28	30.400	22.395	4.5	19.2	0.051	30	32.571	23.994	4.5	19.2	0.052	30	32.571	23.994	4.5	19.2	0.052
	Point 4B	21	29	34.235	25.220	8.0	22.7	0.068	26	30.354	22.361	7.5	22.2	0.056	26	30.354	22.361	7.5	22.2	0.056
	Point 4C	31	30	39.122	28.820	13.0	27.7	0.094	30	39.122	28.820	13.0	27.7	0.091	30	39.122	28.820	13.0	27.7	0.091
	Point 5A	11	28	29.598	21.804	3.5	18.2	0.047	25	26.427	19.468	3.5	18.2	0.040	25	26.427	19.468	3.5	18.2	0.040
	Point 5B	21	27	31.874	23.481	8.0	22.7	0.063	27	31.874	23.481	8.0	22.7	0.061	27	31.874	23.481	8.0	22.7	0.061
	Point 5C	31	28	36.514	26.899	13.0	27.7	0.088	26	33.906	24.978	13.0	27.7	0.079	26	33.906	24.978	13.0	27.7	0.079
	Point 6A	11	28	30.400	22.395	4.5	19.2	0.051	29	31.486	23.194	4.5	19.2	0.051	29	31.486	23.194	4.5	19.2	0.051
Total Oxygen Injected Per Day (lb)			**17.788**						**16.080**						**16.080**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 6B	21	30	34.627	25.509	7.0	21.7	0.065	30	34.627	25.509	7.0	21.7	0.063	30	34.627	25.509	7.0	21.7	0.063
	Point 6C	31	27	34.891	25.703	12.5	27.2	0.083	30	38.768	28.559	12.5	27.2	0.088	30	38.768	28.559	12.5	27.2	0.088
	Point 7A	11	28	30.793	22.684	5.0	19.7	0.053	28	30.793	22.684	5.0	19.7	0.051	28	30.793	22.684	5.0	19.7	0.051
	Point 7B	21	30	35.416	26.090	8.0	22.7	0.070	30	35.416	26.090	8.0	22.7	0.067	30	35.416	26.090	8.0	22.7	0.067
	Point 7C	31	29	37.818	27.860	13.0	27.7	0.091	30	39.122	28.820	13.0	27.7	0.091	30	39.122	28.820	13.0	27.7	0.091
	Point 8A	16	29	32.295	23.791	5.5	20.2	0.057	30	33.409	24.611	5.5	20.2	0.057	30	33.409	24.611	5.5	20.2	0.057
	Point 8B	26	29	35.712	26.308	10.0	24.7	0.077	30	36.567	26.938	9.5	24.2	0.074	30	36.567	26.938	9.5	24.2	0.074
	Point 8C	36	30	39.822	29.336	14.0	28.7	0.099	30	39.822	29.336	14.0	28.7	0.096	30	39.822	29.336	14.0	28.7	0.096
Total Oxygen Injected Per Day (lb)			**19.042**						**18.774**						**18.774**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 9A	16	25	27.494	20.254	5.0	19.7	0.047	23	25.294	18.634	5.0	19.7	0.042	23	25.294	18.634	5.0	19.7	0.042
	Point 9B	26	28	33.055	24.350	8.0	22.7	0.065	27	32.223	23.738	8.5	23.2	0.063	27	32.223	23.738	8.5	23.2	0.063
	Point 9C	36	27	35.527	26.171	13.5	28.2	0.087	26	34.211	25.202	13.5	28.2	0.081	26	34.211	25.202	13.5	28.2	0.081
	Point 10A	16	29	30.655	22.582	3.5	18.2	0.049	24	25.369	18.689	3.5	18.2	0.039	24	25.369	18.689	3.5	18.2	0.039
	Point 10B	26	28	34.480	25.401	10.0	24.7	0.074	28	34.480	25.401	10.0	24.7	0.071	28	34.480	25.401	10.0	24.7	0.071
	Point 10C	36	26	34.513	25.424	14.0	28.7	0.086	22	29.203	21.513	14.0	28.7	0.070	22	29.203	21.513	14.0	28.7	0.070
	Point 11A	16	29	31.893	23.495	5.0	19.7	0.055	23	25.613	18.869	5.5	20.2	0.043	23	25.613	18.869	5.5	20.2	0.043
	Point 11B	26	30	36.567	26.938	9.5	24.2	0.077	28	34.130	25.142	9.5	24.2	0.069	28	34.130	25.142	9.5	24.2	0.069
Total Oxygen Injected Per Day (lb)			**17.291**						**15.296**						**15.296**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 11C	36	21	27.876	20.535	14.0	28.7	0.070	31	41.150	30.314	14.0	28.7	0.099	31	41.150	30.314	14.0	28.7	0.099
	Point 12A	16	29	31.893	23.495	5.0	19.7	0.055	32	35.192	25.925	5.0	19.7	0.058	32	35.192	25.925	5.0	19.7	0.058
	Point 12B	26	30	35.024	25.801	7.5	22.2	0.068	30	35.024	25.801	7.5	22.2	0.065	30	35.024	25.801	7.5	22.2	0.065
	Point 12C	36	30	39.474	29.079	13.5	28.2	0.097	32	42.106	31.018	13.5	28.2	0.099	32	42.106	31.018	13.5	28.2	0.099
	Point 15A	15	31	34.523	25.432	5.5	20.2	0.061	31	34.523	25.432	5.5	20.2	0.058	31	34.523	25.432	5.5	20.2	0.058
	Point 15B	30	30	38.048	28.029	11.5	26.2	0.087	30	38.048	28.029	11.5	26.2	0.084	30	38.048	28.029	11.5	26.2	0.084
	Point 16A	15	32	36.936	27.209	7	21.7	0.070	34	39.694	29.241	7.5	22.2	0.074	34	39.694	29.241	7.5	22.2	0.074
	Point 16B	30	33	42.251	31.125	12	26.7	0.098	21	26.887	19.807	12	26.7	0.060	21	26.887	19.807	12	26.7	0.060
Total Oxygen Injected Per Day (lb)			**19.340**						**19.121**						**19.121**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	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	0.059	30	33.409	24.611	5.5	20.2	0.057	30	33.409	24.611	5.5	20.2	0.057
	Point 13B	26	30	36.943	27.215	10.0	24.7	0.079	32	39.406	29.029	10.0	24.7	0.082	32	39.406	29.029	10.0	24.7	0.082
	Point 13C	36	29	38.495	28.358	14.0	28.7	0.096	29	38.495	28.358	14.0	28.7	0.093	29	38.495	28.358	14.0	28.7	0.093
	Point 14A	16	30	33.820	24.914	6.0	20.7	0.061	32	36.074	26.575	6.0	20.7	0.063	32	36.074	26.575	6.0	20.7	0.063
	Point 14B	26	29	36.071	26.573	10.5	25.2	0.079	29	35.712	26.308	10.0	24.7	0.074	29	35.712	26.308	10.0	24.7	0.074
	Point 14C	36	30	40.168	29.590	14.5	29.2	0.102	32	42.846	31.563	14.5	29.2	0.105	32	42.846	31.563	14.5	29.2	0.105
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**15.249**						**15.101**						**15.101**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 17A	15	28	30.793	22.684	5.0	19.7	0.053	33	36.292	26.735	5.0	19.7	0.060	33	36.292	26.735	5.0	19.7	0.060
	Point 17B	30	30	36.943	27.215	10.0	24.7	0.079	31	38.175	28.122	10.0	24.7	0.079	31	38.175	28.122	10.0	24.7	0.079
	Point 18A	15	32	36.074	26.575	6.0	20.7	0.065	30	33.409	24.611	5.5	20.2	0.057	30	33.409	24.611	5.5	20.2	0.057
	Point 18B	30	31	38.940	28.686	11.0	25.7	0.087	31	38.940	28.686	11.0	25.7	0.084	31	38.940	28.686	11.0	25.7	0.084
	Point 19A	15	32	34.287	25.258	4.0	18.7	0.056	26	27.859	20.522	4.0	18.7	0.044	26	27.859	20.522	4.0	18.7	0.044
	Point 19B	30	29	36.071	26.573	10.5	25.2	0.079	33	41.047	30.238	10.5	25.2	0.087	33	41.047	30.238	10.5	25.2	0.087
	Point 20A	15	28	31.565	23.253	6	20.7	0.057	100	108.571	79.981	4.5	19.2	0.175	100	108.571	79.981	4.5	19.2	0.175
	Point 20B	30	29	37.475	27.607	12.5	27.2	0.089	30	38.768	28.559	12.5	27.2	0.088	30	38.768	28.559	12.5	27.2	0.088
Total Oxygen Injected Per Day (lb)			**18.077**						**21.522**						**21.522**					
System Total Per Day (lb)			**124.51**						**123.63**						**123.63**					

Appendix E. OU-3 Oxygen Injection System Operational Data
Table E-1. OU-3 87 Community Fourth Quarter 2019
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q3 2019: 314,960 lbs

Oxygen to OU-3 - 87 Community

	Operational Days		Injected Per Month (lbs)
Month 1	Oct-19	31	4,083
Month 2	Nov-19	28	3,976
Month 3	Dec-19	30	3,581
Total Operational Days in Q4 2019			89
Total Oxygen in Q4 2019 (lbs)			11,641.03
Running Total for Oxygen to 87 Community Rd Through Q4 2019 (lbs)			**326,600.84**

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)
* 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)

			10/8/2019						11/13/2019						12/9/2019					
		O_2%	82.4						74.8						77.5					
		R	10.73						10.73						10.73					
		Temp R (T)	632						623						632					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	11	27	28.541	21.025	3.5	18.2	0.046	36	38.054	28.033	3.5	18.2	0.057	29	31.073	22.890	4.0	18.7	0.049
	Point 1B	21	34	39.694	29.241	7.5	22.2	0.079	41	48.402	35.656	8.0	22.7	0.091	25	29.837	21.980	8.5	23.2	0.058
	Point 1C	31	28	35.849	26.409	12.0	26.7	0.086	27	34.569	25.466	12.0	26.7	0.076	29	37.475	27.607	12.5	27.2	0.086
	Point 2A	11	36	38.054	28.033	3.5	18.2	0.062	33	34.883	25.697	3.5	18.2	0.052	22	23.573	17.365	4.0	18.7	0.037
	Point 2B	21	26	32.017	23.586	10.0	24.7	0.071	36	44.332	32.658	10.0	24.7	0.090	28	34.480	25.401	10.0	24.7	0.072
	Point 2C	31	28	35.512	26.160	11.5	26.2	0.083	30	38.048	28.029	11.5	26.2	0.082	29	36.780	27.095	11.5	26.2	0.081
	Point 3A	11	26	27.859	20.522	4.0	18.7	0.047	44	47.771	35.192	4.5	19.2	0.076	24	25.716	18.944	4.0	18.7	0.040
	Point 3B	21	26	30.694	22.611	8.0	22.7	0.062	28	33.055	24.350	8.0	22.7	0.062	27	32.223	23.738	8.5	23.2	0.063
Total Oxygen Injected Per Day (lb)			**17.156**						**18.751**						**15.564**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3C	31	35	45.229	33.319	12.5	27.2	0.110	37	47.814	35.223	12.5	27.2	0.107	29	37.818	27.860	13.0	27.7	0.088
	Point 4A	11	32	34.287	25.258	4.0	18.7	0.057	37	40.171	29.593	4.5	19.2	0.064	27	29.314	21.595	4.5	19.2	0.047
	Point 4B	21	33	38.526	28.381	7.5	22.2	0.077	35	40.861	30.101	7.5	22.2	0.075	33	38.526	28.381	7.5	22.2	0.072
	Point 4C	31	36	46.521	34.271	12.5	27.2	0.113	34	43.937	32.367	12.5	27.2	0.099	32	41.731	30.742	13.0	27.7	0.097
	Point 5A	11	40	42.282	31.148	3.5	18.2	0.069	40	42.282	31.148	3.5	18.2	0.063	21	22.198	16.353	3.5	18.2	0.034
	Point 5B	21	38	44.363	32.681	7.5	22.2	0.088	42	49.582	36.526	8.0	22.7	0.093	26	30.694	22.611	8.0	22.7	0.059
	Point 5C	31	42	54.275	39.982	12.5	27.2	0.132	45	58.152	42.838	12.5	27.2	0.130	19	24.778	18.253	13.0	27.7	0.058
	Point 6A	11	34	36.430	26.837	4.0	18.7	0.061	45	48.857	35.991	4.5	19.2	0.077	21	22.800	16.796	4.5	19.2	0.037
Total Oxygen Injected Per Day (lb)			**22.640**						**22.655**						**15.751**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 6B	21	28	31.944	23.532	6.5	21.2	0.061	72	82.142	60.511	6.5	21.2	0.144	29	33.473	24.658	7.0	21.7	0.061
	Point 6C	31	36	46.092	33.954	12.0	26.7	0.110	49	62.736	46.216	12.0	26.7	0.138	23	29.722	21.895	12.5	27.2	0.068
	Point 7A	11	36	39.086	28.793	4.5	19.2	0.067	50	54.286	39.990	4.5	19.2	0.086	29	31.893	23.495	5.0	19.7	0.053
	Point 7B	21	32	37.359	27.521	7.5	22.2	0.074	41	47.866	35.261	7.5	22.2	0.088	30	35.416	26.090	8.0	22.7	0.068
	Point 7C	31	30	38.768	28.559	12.5	27.2	0.094	36	46.521	34.271	12.5	27.2	0.104	30	39.122	28.820	13.0	27.7	0.091
	Point 8A	16	34	37.863	27.893	5.5	20.2	0.068	55	61.250	45.121	5.5	20.2	0.102	31	34.523	25.432	5.5	20.2	0.059
	Point 8B	26	28	34.130	25.142	9.5	24.2	0.074	62	75.573	55.672	9.5	24.2	0.151	30	36.567	26.938	9.5	24.2	0.075
	Point 8C	36	29	38.158	28.110	13.5	28.2	0.096	37	48.685	35.864	13.5	28.2	0.113	31	41.150	30.314	14.0	28.7	0.099
Total Oxygen Injected Per Day (lb)			**20.649**						**29.611**						**18.357**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 9A	16	27	29.314	21.595	4.5	19.2	0.050	32	35.192	25.925	5.0	19.7	0.057	26	28.594	21.064	5.0	19.7	0.047
	Point 9B	26	29	33.856	24.941	7.5	22.2	0.067	34	40.138	29.568	8.0	22.7	0.075	29	34.235	25.220	8.0	22.7	0.065
	Point 9C	36	30	39.122	28.820	13.0	27.7	0.097	32	41.731	30.742	13.0	27.7	0.095	33	43.421	31.987	13.5	28.2	0.103
	Point 10A	16	26	27.103	19.966	3.0	17.7	0.043	31	32.769	24.140	3.5	18.2	0.049	30	31.712	23.361	3.5	18.2	0.049
	Point 10B	26	30	36.567	26.938	9.5	24.2	0.079	30	36.567	26.938	9.5	24.2	0.073	30	36.567	26.938	9.5	24.2	0.075
	Point 10C	36	24	31.579	23.263	13.5	28.2	0.080	36	47.369	34.895	13.5	28.2	0.110	28	36.842	27.141	13.5	28.2	0.087
	Point 11A	16	25	27.494	20.254	5.0	19.7	0.048	36	39.591	29.166	5.0	19.7	0.064	24	26.394	19.444	5.0	19.7	0.044
	Point 11B	26	30	36.188	26.658	9.0	23.7	0.077	34	41.013	30.213	9.0	23.7	0.080	31	37.786	27.836	9.5	24.2	0.077
Total Oxygen Injected Per Day (lb)			**17.337**						**19.333**						**17.512**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 11C	36	32	42.106	31.018	13.5	28.2	0.106	31	41.150	30.314	14.0	28.7	0.097	30	39.822	29.336	14.0	28.7	0.096
	Point 12A	16	28	30.400	22.395	4.5	19.2	0.052	30	32.993	24.305	5.0	19.7	0.054	33	36.292	26.735	5.0	19.7	0.060
	Point 12B	26	30	35.024	25.801	7.5	22.2	0.070	33	38.526	28.381	7.5	22.2	0.071	28	32.689	24.081	7.5	22.2	0.061
	Point 12C	36	28	36.514	26.899	13.0	27.7	0.091	29	37.818	27.860	13.0	27.7	0.086	34	44.737	32.956	13.5	28.2	0.106
	Point 15A	15	28	30.793	22.684	5	19.7	0.054	31	34.947	25.744	6	20.7	0.060	30	33.820	24.914	6	20.7	0.059
	Point 15B	30	26	32.659	24.059	11	25.7	0.075	29	36.780	27.095	11.5	26.2	0.079	32	40.585	29.898	11.5	26.2	0.090
	Point 16A	15	28	32.319	23.808	7	21.7	0.063	26	30.010	22.107	7	21.7	0.054	34	39.694	29.241	7.5	22.2	0.074
	Point 16B	30	32	40.585	29.898	11.5	26.2	0.095	27	34.244	25.226	11.5	26.2	0.074	32	40.970	30.182	12	26.7	0.092
Total Oxygen Injected Per Day (lb)			**19.394**						**18.383**						**20.431**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 13A	16	28	30.793	22.684	5.0	19.7	0.054	31	34.523	25.432	5.5	20.2	0.057	30	33.409	24.611	5.5	20.2	0.057
	Point 13B	26	31	37.786	27.836	9.5	24.2	0.082	31	37.786	27.836	9.5	24.2	0.075	32	39.406	29.029	10.0	24.7	0.082
	Point 13C	36	24	31.858	23.469	14.0	28.7	0.082	30	39.822	29.336	14.0	28.7	0.094	29	38.495	28.358	14.0	28.7	0.093
	Point 14A	16	33	36.750	27.072	5.5	20.2	0.066	34	37.863	27.893	5.5	20.2	0.063	32	36.074	26.575	6.0	20.7	0.063
	Point 14B	26	26	32.017	23.586	10.0	24.7	0.071	28	34.480	25.401	10.0	24.7	0.070	30	36.943	27.215	10.0	24.7	0.077
	Point 14C	36	30	39.822	29.336	14.0	28.7	0.102	34	45.523	33.536	14.5	29.2	0.110	32	42.846	31.563	14.5	29.2	0.105
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**14.641**						**15.036**						**15.257**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 17A	15	35	38.492	28.355	5.0	19.7	0.068	32	34.743	25.594	4.5	19.2	0.055	26	28.594	21.064	5.0	19.7	0.047
	Point 17B	30	32	39.406	29.029	10.0	24.7	0.087	35	43.100	31.751	10.0	24.7	0.088	22	27.092	19.958	10.0	24.7	0.056
	Point 18A	15	33	36.750	27.072	5.5	20.2	0.066	31	34.523	25.432	5.5	20.2	0.057	34	37.863	27.893	5.5	20.2	0.064
	Point 18B	30	21	26.379	19.432	11.0	25.7	0.061	33	41.452	30.536	11.0	25.7	0.088	34	42.708	31.462	11.0	25.7	0.092
	Point 19A	15	34	35.940	26.476	3.5	18.2	0.059	18	19.287	14.208	4.0	18.7	0.030	32	34.287	25.258	4.0	18.7	0.054
	Point 19B	30	34	41.869	30.843	10.0	24.7	0.093	36	44.778	32.987	10.5	25.2	0.093	26	32.340	23.824	10.5	25.2	0.069
	Point 20A	15	39	43.432	31.995	5.5	20.2	0.079	33	37.202	27.405	6	20.7	0.063	28	31.565	23.253	6	20.7	0.055
	Point 20B	30	36	46.092	33.954	12	26.7	0.110	34	43.531	32.068	12	26.7	0.096	27	34.569	25.466	12	26.7	0.078
Total Oxygen Injected Per Day (lb)			**19.902**						**18.242**						**16.508**					
System Total Per Day (lb)			**131.72**						**142.01**						**119.38**					

Appendix F - Table F-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.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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

Appendix F - Table F-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)																															
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 F - Table F-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	--
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

Appendix F - Table F-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)																															
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	--

Appendix F - Table F-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)																																
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
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

Appendix F - Table F-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)																																
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 F - Table F-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	--	--
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	--	--

Appendix F - Table F-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)																														
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 F - Table F-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		Baseline Average	Historical Average	Q3 2019 - Q3 2020 Average
		Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q3			
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	**NS**	**5.85**	**6.30**
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	**NS**	**5.71**	**6.09**
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	**NS**	**5.65**	**5.34**
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	**6.32**	**6.60**	**7.15**
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	**5.95**	**6.57**	**7.52**
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	**5.46**	**5.96**	**5.91**
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	**5.08**	**4.76**	**4.95**
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	**6.61**	**6.45**	**7.04**
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	**6.54**	**6.67**	**7.37**
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	**5.66**	**5.77**	**6.39**
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	**5.49**	**5.12**	**5.33**
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	**6.08**	**6.78**	**7.27**
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	**6.52**	**6.91**	**7.71**
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	**6.61**	**5.96**	**6.28**
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	**5.92**	**5.22**	**5.76**
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	**5.87**	**5.42**	**5.58**
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	**5.49**	**5.71**	**6.98**
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	**4.85**	**5.02**	**5.40**
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	**5.35**	**5.38**	**5.59**
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	**NS**	**0.422**	**0.31**
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	**NS**	**0.450**	**0.48**
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	**NS**	**0.485**	**0.29**
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	**0.645**	**0.597**	**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	**0.656**	**0.702**	**0.52**
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	**0.634**	**0.519**	**0.31**
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	**2.190**	**0.226**	**0.16**
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	**0.768**	**0.560**	**0.38**
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	**0.601**	**0.653**	**0.47**
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	**0.382**	**0.505**	**0.40**
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	**0.983**	**0.338**	**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	**0.641**	**0.508**	**0.35**
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	**0.572**	**0.642**	**0.50**
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	**0.654**	**0.585**	**0.42**
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	**1.910**	**0.591**	**0.41**
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	**0.240**	**0.228**	**0.12**
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	**0.493**	**0.477**	**0.49**
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	**0.269**	**0.416**	**0.33**
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	**0.505**	**0.245**	**0.13**
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	**NS**	**3.1**	**2.49**
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	**NS**	**2.1**	**2.13**
OU2MW-57I2	66 North Clinton	1.76	--	--	1.61	--	--	1.29	0.00	0	0.00	1.45	0.82	0.58	0.18	**NS**	**1.1**	**0.76**
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	**19.3**	**29.3**	**33.31**
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	**26.0**	**33.4**	**36.03**
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	**0.7**	**17.1**	**30.22**
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	**0.0**	**1.4**	**0.05**
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	**12.8**	**18.9**	**22.00**
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	**16.1**	**25.9**	**26.75**
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	**3.1**	**11.5**	**27.00**
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	**0.1**	**6.9**	**24.50**
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	**17.6**	**24.8**	**27.99**
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	**3.5**	**16.8**	**14.36**
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	**1.3**	**19.0**	**22.25**
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	**0.0**	**14.9**	**19.00**
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	**0.3**	**26.6**	**33.21**
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	**0.2**	**22.6**	**38.88**
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	**5.1**	**10.1**	**7.79**
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	**0.3**	**1.2**	**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	**NS**	**16.1**	**18.17**
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	**NS**	**14.9**	**15.46**
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	**NS**	**15.1**	**15.00**
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	**14.8**	**14.6**	**15.95**
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	**14.4**	**14.6**	**14.96**
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	**14.0**	**14.4**	**15.87**
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	**13.6**	**14.3**	**16.06**
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	**15.2**	**15.1**	**16.41**
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	**14.8**	**14.7**	**15.65**
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	**14.6**	**14.2**	**15.29**
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	**14.2**	**14.4**	**15.46**
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	**14.5**	**14.8**	**16.84**
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	**14.5**	**14.9**	**15.78**
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	**15.1**	**14.5**	**15.61**
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	**14.1**	**14.4**	**16.39**
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	**10.4**	**14.8**	**18.55**
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	**12.4**	**14.8**	**17.83**
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	**13.1**	**14.6**	**18.48**
OU2MW-50D	OU-1 Union Boulevard (Ext.)	11.93	--	--	15.68	--	--	21.88	14.14	12.97	15.49	17.80	1672.00	12.21	25.59	**12.1**	**14.4**	**431.90**
Oxidation Reduction Potential (mV)																		
OU2MW-57S	66 North Clinton	-78	--	--	167	--	--	-4	11	12	12	-17	-70	291	-22	**NS**	**-17**	**46**
OU2MW-57I	66 North Clinton	95	--	--	203	--	--	194	210	250	112	164	218	118	133	**NS**	**140**	**158**
OU2MW-57I2	66 North Clinton	148	--	--	257	--	--	299	281	178	137	271	307	177	228	**NS**	**164**	**246**
OZMW-16S	OU-1 Union Boulevard	-84	--	--	307	--	--	227	214	209	203	243	197	139	287	**106**	**173**	**217**
OZMW-16I	OU-1 Union Boulevard	103	--	--	277	--	--	229	200	225	264	229	201	435	283	**187**	**196**	**287**
OZMW-16I2	OU-1 Union Boulevard	125	--	--	287	--	--	247	275	254	289	252	190	485	276	**80**	**121**	**301**
OZMW-16D	OU-1 Union Boulevard	89	--	--	234	--	--	157	167	166	139	127	99	113	123	**65**	**136**	**116**
OZMW-17S	OU-1 Union Boulevard	83	--	--	--	349	--	148	107	142	216	133	134	133	175	**33**	**154**	**144**

Appendix F - Table F-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		Baseline Average	Historical Average	Q3 2019 - Q3 2020 Average
		Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q3			
pH (SU)																		
OZMW-17I	OU-1 Union Boulevard	82	--	--	--	288	--	213	208	187	194	241	385	135	304	**61**	**170**	**266**
OZMW-17I2	OU-1 Union Boulevard	150	--	--	--	317	--	277	194	240	327	269	218	440	336	**107**	**193**	**316**
OZMW-17D	OU-1 Union Boulevard	128	--	--	--	280	--	199	182	171	153	108	166	460	146	**32**	**93**	**220**
OZMW-18S	OU-1 Union Boulevard	--	117	--	--	208	--	249	223	212	206	148	266	156	160	**51**	**158**	**183**
OZMW-18I	OU-1 Union Boulevard	--	102	--	--	175	--	115	177	172	160	229	117	147	181	**-48**	**139**	**169**
OZMW-18I2	OU-1 Union Boulevard	--	102	--	--	200	--	189	145	152	94	145	181	431	207	**-81**	**168**	**241**
OZMW-18D	OU-1 Union Boulevard	--	0	--	--	191	--	142	152	100	55	65	36	449	76	**-53**	**74**	**157**
OU2MW-50S	OU-1 Union Boulevard (Ext.)	221	--	--	371	--	--	298	238	275	248	268	229	242	278	**-76**	**230**	**254**
OU2MW-50I	OU-1 Union Boulevard (Ext.)	-210	--	--	363	--	--	286	270	224	202	229	215	206	281	**126**	**185**	**233**
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	190	--	--	332	--	--	327	277	229	273	210	265	461	264	**74**	**218**	**300**
OU2MW-50D	OU-1 Union Boulevard (Ext.)	-18	--	--	156	--	--	63	61	67	36	43	39	254	23	**-46**	**39**	**90**

Appendix F - Table F-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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix F - Table F-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-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	--
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 F - Table F-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	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.24	--	--	6.58	--	--	6.01	5.90	6.39	5.97	5.68	6.34	5.99
OU2MW-30I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.63	--	--	7.03	--	--	6.27	6.16	6.30	6.05	5.95	6.12	5.97
OU2MW-30I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.53	--	--	6.95	--	--	6.15	6.04	6.37	5.80	5.78	6.21	5.90
OU2MW-30I3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.09	--	--	6.50	--	--	5.72	5.72	6.14	6.10	5.01	6.00	5.70
OU2MW-30D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.00	--	--	6.34	--	--	5.64	5.59	6.10	6.04	4.72	5.93	5.63
OU2MW-30D2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.21	--	--	6.49	--	--	5.76	5.67	5.82	5.66	4.85	5.86	5.88
OU2MW-39S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.67	6.03	5.57	5.68	6.09	5.85
OU2MW-39I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.49	6.39	5.71	5.74	5.94	5.83
OU2MW-39I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.60	4.95	5.81	4.76	4.92	4.78
OU2MW-39D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.97	5.38	4.95	5.11	5.30	5.14
OU2MW-47S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.33	6.09	5.78	5.44	5.90	5.55	5.40	4.34	5.28
OU2MW-47I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.55	6.25	6.18	5.84	6.38	6.41	5.98	4.70	6.02
OU2MW-47I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.28	6.16	6.16	5.91	6.26	6.09	6.13	4.86	5.97
OU2MW-47D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.55	5.42	5.35	5.19	5.63	5.80	5.67	4.65	5.52
OU2MW-19I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.48
OU2MW-19I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.87
OU2MW-02S	6.49	--	--	--	6.63	--	6.29	--	--	6.40	--	--	6.32	--	--	--	6.12	--	6.27	--	--	--	5.92	--	--	6.35	--	--	--
OU2MW-02I	6.06	--	--	--	6.61	--	6.16	--	--	5.98	--	--	5.74	--	--	--	6.19	--	6.31	--	--	--	6.01	--	--	6.34	--	--	--
OU2MW-02I2	5.99	--	--	--	6.46	--	6.16	--	--	6.01	--	--	6.30	--	--	--	5.98	--	6.16	--	--	--	5.96	--	--	5.87	--	--	--
OU2MW-02D	5.64	--	--	--	5.64	--	5.34	--	--	5.50	--	--	5.07	--	--	--	5.33	--	5.80	--	--	--	5.36	--	--	5.52	--	--	--
Conductivity (mS/cm)																													
OU2MW-30S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.627	--	--	0.434	--	--	0.393	0.420	0.391	0.412	0.278	0.297	0.322
OU2MW-30I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.905	--	--	0.522	--	--	0.511	0.535	0.596	0.718	0.530	0.633	0.702
OU2MW-30I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.379	--	--	0.463	--	--	0.431	0.457	0.429	0.538	0.565	0.595	0.710
OU2MW-30I3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.904	--	--	0.589	--	--	0.689	0.730	0.595	0.474	0.616	0.507	0.587
OU2MW-30D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.343	--	--	0.582	--	--	0.638	0.661	0.590	0.477	0.748	0.536	0.609
OU2MW-30D2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.642	--	--	0.482	--	--	0.560	0.607	0.451	0.388	0.525	0.433	0.444
OU2MW-39S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.211	0.242	0.235	0.382	0.387	0.342
OU2MW-39I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.408	0.649	0.491	0.691	0.612	0.692
OU2MW-39I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.233	0.342	0.351	0.327	0.383	0.573
OU2MW-39D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.133	0.138	0.018	0.429	0.600	0.615
OU2MW-47S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.303	0.350	0.265	0.320	0.256	0.177	0.263	0.268	0.222
OU2MW-47I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.640	0.960	0.662	1.020	0.722	0.502	0.674	0.565	0.359
OU2MW-47I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.490	0.719	0.446	0.530	0.513	0.462	0.399	0.575	0.547
OU2MW-47D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.341	0.503	0.386	0.434	0.376	0.276	0.279	0.460	0.434
OU2MW-19I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.708
OU2MW-19I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.270
OU2MW-02S	0.654	--	--	--	0.390	--	0.448	--	--	0.453	--	--	0.467	--	--	--	0.913	--	0.596	--	--	--	0.479	--	--	0.412	--	--	--
OU2MW-02I	0.301	--	--	--	0.186	--	0.237	--	--	0.230	--	--	0.201	--	--	--	0.460	--	0.271	--	--	--	0.279	--	--	0.279	--	--	--
OU2MW-02I2	0.093	--	--	--	0.072	--	0.071	--	--	0.080	--	--	0.064	--	--	--	0.152	--	0.930	--	--	--	0.104	--	--	0.070	--	--	--
OU2MW-02D	0.042	--	--	--	0.038	--	0.035	--	--	0.039	--	--	0.046	--	--	--	0.078	--	0.057	--	--	--	0.063	--	--	0.042	--	--	--
Dissolved Oxygen (mg/L)																													
OU2MW-30S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--	0.0	0.0	22.0	21.0	13.7	11.6	23.0
OU2MW-30I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--	0.0	1.0	25.0	18.1	10.6	16.2	27.0
OU2MW-30I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	--	--	0.0	--	--	0.0	2.1	42.0	45.0	23.0	19.8	25.0
OU2MW-30I3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--	0.0	15.8	37.0	29.0	20.0	20.0	25.0
OU2MW-30D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.6	--	--	0.0	--	--	0.0	2.1	32.0	20.0	27.0	19.5	29.0
OU2MW-30D2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--	0.0	0.0	29.0	17.6	9.1	3.0	0.0
OU2MW-39S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.8	1.9	14.7	22.0	19.6	24.0
OU2MW-39I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.2	2.7	17.0	20.0	38.0	32.0
OU2MW-39I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	7.6	0.0	2.8
OU2MW-39D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	7.6	0.0	3.0
OU2MW-47S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	9.9	20.0	22.0	18.4	36.0	28.0	32.0
OU2MW-47I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	24.0	20.0	26.0	26.0	31.0	36.0	38.0
OU2MW-47I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	6.8	36.0	20.0	22.0	31.0	32.0	40.0	40.0
OU2MW-47D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	11.2	30.0	20.0	23.0	16.6	32.0	27.0	18.6
OU2MW-19I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
OU2MW-19I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0
OU2MW-02S	0.0	--	--	--	0.1	--	10.5	--	--	3.7	--	--	0.0	--	--	--	4.5	--	3.5	--	--	--	12.1	--	--	5.8	--	--	--
OU2MW-02I	0.0	--	--	--	0.0	--	2.1	--	--	1.0	--	--	0.0	--	--	--	0.0	--	0.0	--	--	--	0.0	--	--	5.4	--	--	--
OU2MW-02I2	0.0	--	--	--	0.0	--	0.0	--	--	0.0	--	--	0.0	--	--	--	0.0	--	0.0	--	--	--	0.0	--	--	5.2	--	--	--
OU2MW-02D	0.0	--	--	--	0.0	--	0.0	--	--	0.0	--	--	0.0	--	--	--	0.0	--	0.0	--	--	--	0.0	--	--	5.2	--	--	--
Temperature (degrees Celcius)																													
OU2MW-30S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.6	--	--	13.5	--	--	10.9	10.3	11.6	14.9	16.2	18.2	19.9
OU2MW-30I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.6	--	--	13.8	--	--	12.6	12.1	13.4	15.3	15.5	16.5	18.3
OU2MW-30I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.6	--	--	13.8	--	--	13.1	11.7	12.6	16.4	15.4	15.9	18.3
OU2MW-30I3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.3	--	--	13.1	--	--	12.4	12.1	12.2	15.8	14.4	16.9	17.3
OU2MW-30D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.3	--	--	13.3	--	--	12.3	11.9	12.5	15.2	16.0	16.0	17.5
OU2MW-30D2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.5	--	--	13.3	--	--	11.9	11.9	12.8	15.1	14.5	15.5	18.7
OU2MW-39S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.2	8.9	12.9	13.7	15.8	18.5
OU2MW-39I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.9	11.6	12.7	13.1	14.3	16.1
OU2MW-39I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.0	12.0	13.5	13.9	14.9	15.5
OU2MW-39D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.9	11.2	13.5	13.2	14.8	16.2
OU2MW-47S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.6	10.8	10.5	10.9	12.2	14.4	14.1	17.1	19.0
OU2MW-47I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.8	13.0	12.5	12.3	12.9	13.0	13.6	16.2	17.0

Appendix F - Table F-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
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Bay Shore/Brightwaters Former MGP Site

Well ID	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-47I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.1	12.1	12.6	12.9	14.0	14.1	15.8	16.5	16.8
OU2MW-47D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13.4	12.6	12.0	12.3	14.4	14.0	14.7	16.1	16.7
OU2MW-19I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19.2
OU2MW-19I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15.7
OU2MW-02S	13.2	--	--	--	21.1	--	11.2	--	--	7.6	--	--	13.5	--	--	--	21.2	--	12.8	--	--	--	10.9	--	--	18.0	--	--	--
OU2MW-02I	13.6	--	--	--	19.8	--	11.4	--	--	8.5	--	--	13.6	--	--	--	19.6	--	11.7	--	--	--	11.0	--	--	17.9	--	--	--
OU2MW-02I2	12.4	--	--	--	18.8	--	11.6	--	--	9.7	--	--	12.2	--	--	--	15.9	--	12.2	--	--	--	10.2	--	--	20.4	--	--	--
OU2MW-02D	12.3	--	--	--	16.6	--	10.7	--	--	9.3	--	--	11.7	--	--	--	15.5	--	11.4	--	--	--	10.4	--	--	20.0	--	--	--
Oxidation Reduction Potential																													
OU2MW-30S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1	--	--	12	--	--	22	38	169	324	224	177	355
OU2MW-30I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-141	--	--	-113	--	--	-102	-74	41	251	102	105	214
OU2MW-30I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-47	--	--	-64	--	--	-48	-21	160	320	202	197	276
OU2MW-30I3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	31	--	--	-32	--	--	57	77	188	131	243	161	297
OU2MW-30D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	113	--	--	73	--	--	76	85	191	170	348	202	352
OU2MW-30D2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-101	--	--	-146	--	--	-41	-35	109	147	204	65	82
OU2MW-39S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	147	184	226	331	282	258
OU2MW-39I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17	-20	87	325	306	245
OU2MW-39I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	128	135	211	170	168	106
OU2MW-39D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	60	129	78	87	-58
OU2MW-47S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-62	-104	21	84	189	206	340	343	314
OU2MW-47I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-104	-114	15	44	91	138	330	288	210
OU2MW-47I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	75	144	134	116	178	199	225	324	306
OU2MW-47D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	79	151	161	120	157	128	156	240	167
OU2MW-19I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-71
OU2MW-19I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-122
OU2MW-02S	-84	--	--	--	-40	--	65	--	--	75	--	--	-61	--	--	--	-38	--	2	--	--	--	47	--	--	0	--	--	--
OU2MW-02I	59	--	--	--	32	--	73	--	--	22	--	--	-17	--	--	--	-40	--	-34	--	--	--	-35	--	--	-46	--	--	--
OU2MW-02I2	1	--	--	--	-15	--	18	--	--	-11	--	--	3	--	--	--	-17	--	8	--	--	--	-9	--	--	23	--	--	--
OU2MW-02D	98	--	--	--	102	--	112	--	--	78	--	--	99	--	--	--	74	--	63	--	--	--	73	--	--	151	--	--	--

Appendix F - Table F-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
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Bay Shore/Brightwaters Former MGP Site

Well ID	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	--	--	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	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	--	--	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	6.55	--	6.28	--	--	5.80	--	6.19	--	--	--	--	5.64	4.85	--	--	--	6.70	--	5.57	--	--	--	--	5.28	--	5.88	--
OU2MW-02I	6.22	--	7.79	--	--	6.29	--	6.18	--	--	--	--	5.79	5.89	--	--	--	6.25	--	6.19	--	--	--	--	7.00	--	6.12	--
OU2MW-02I2	5.80	--	7.05	--	--	5.34	--	5.81	--	--	--	--	5.83	5.03	--	--	--	5.85	--	5.87	--	--	--	--	6.55	--	5.34	--
OU2MW-02D	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	--	--	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	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	--	--	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	0.674	--	0.522	--	--	0.602	--	1.350	--	--	--	--	0.439	0.519	--	--	--	0.537	--	0.381	--	--	--	--	0.658	--	0.688	--
OU2MW-02I	0.297	--	0.612	--	--	0.336	--	0.286	--	--	--	--	0.218	0.279	--	--	--	0.271	--	0.166	--	--	--	--	0.310	--	0.412	--
OU2MW-02I2	0.078	--	0.088	--	--	0.103	--	0.110	--	--	--	--	0.065	0.070	--	--	--	0.084	--	0.056	--	--	--	--	0.177	--	0.095	--
OU2MW-02D	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	--	--	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	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	--	--	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	0.0	--	4.1	--	--	7.2	--	0.0	--	--	--	--	14.5	12.6	--	--	--	9.2	--	28.0	--	--	--	--	30.0	--	10.9	--
OU2MW-02I	0.0	--	0.7	--	--	0.0	--	1.0	--	--	--	--	0.0	0.0	--	--	--	9.1	--	3.3	--	--	--	--	0.0	--	4.5	--
OU2MW-02I2	0.0	--	0.0	--	--	0.0	--	0.0	--	--	--	--	0.1	0.0	--	--	--	0.7	--	0.5	--	--	--	--	0.0	--	2.1	--
OU2MW-02D	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	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	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	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	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	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	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	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	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	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	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	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	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

Appendix F - Table F-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	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-47I2	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	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	--	--	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	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	--	--	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	21.6	--	13.3	--	--	5.1	--	15.7	--	--	--	--	28.2	17.7	--	--	--	10.1	--	12.2	--	--	--	--	17.5	--	15.0	--
OU2MW-02I	20.4	--	14.3	--	--	11.3	--	18.0	--	--	--	--	23.0	14.6	--	--	--	13.4	--	12.7	--	--	--	--	17.5	--	13.8	--
OU2MW-02I2	17.2	--	14.4	--	--	6.5	--	15.8	--	--	--	--	24.6	17.5	--	--	--	11.9	--	12.5	--	--	--	--	16.9	--	13.8	--
OU2MW-02D	21.2	--	13.1	--	--	8.6	--	16.3	--	--	--	--	24.3	17.7	--	--	--	11.3	--	13.6	--	--	--	--	17.2	--	13.5	--
Oxidation Reduction Potential																												
OU2MW-30S	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	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	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	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	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	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	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	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	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	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	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	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	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	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	--	--	-132	--	-95	-109	-39	-61	-103	--	-68	--	--	--	--	-2	--	73	--	95	--	--	--	106	--	--	--	263
OU2MW-19I2	70	--	38	--	155	255	14	178	192	--	167	--	--	--	--	236	--	184	--	271	--	--	--	123	--	--	--	279
OU2MW-19D	--	--	-113	--	-122	155	14	20	42	--	29	--	--	--	--	86	--	40	--	114	--	--	--	110	--	--	--	223
OU2MW-02S	-134	--	33	--	--	91	--	-78	--	--	--	--	93	171	--	--	--	163	--	206	--	--	--	--	211	--	169	--
OU2MW-02I	-59	--	-46	--	--	-17	--	-71	--	--	--	--	-38	-17	--	--	--	-87	--	-55	--	--	--	--	-76	--	-32	--
OU2MW-02I2	32	--	-6	--	--	45	--	40	--	--	--	--	6	59	--	--	--	-17	--	16	--	--	--	--	-10	--	13	--
OU2MW-02D	74	--	83	--	--	228	--	82	--	--	--	--	116	138	--	--	--	54	--	84	--	--	--	--	80	--	114	--

Appendix F - Table F-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
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Bay Shore/Brightwaters Former MGP Site

Well ID	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	--	--	6.44	--	--	6.54	--	6.49	--	--	6.66	--	5.79	--	--	6.57	--	--	6.41	--	--	6.30	--	--	6.13	--	--
OU2MW-19I2	--	--	5.95	--	--	6.69	--	6.77	--	--	6.55	--	6.30	--	--	6.11	--	--	6.15	--	--	6.46	--	--	6.09	--	--
OU2MW-19D	--	--	5.13	--	--	5.70	--	5.69	--	--	5.58	--	5.80	--	--	5.64	--	--	5.57	--	--	5.41	--	--	5.01	--	--
OU2MW-02S	--	--	--	--	5.77	--	--	--	5.67	--	5.69	--	--	5.70	--	--	5.81	--	--	--	6.08	--	5.68	--	--	7.22	--
OU2MW-02I	--	6.71	--	--	7.50	--	--	--	6.46	--	6.32	--	--	5.76	--	--	6.07	--	--	--	5.86	--	5.55	--	--	6.16	--
OU2MW-02I2	--	6.18	--	--	6.83	--	--	--	6.25	--	6.03	--	--	5.79	--	--	5.80	--	--	--	5.79	--	5.37	--	--	7.14	--
OU2MW-02D	--	5.54	--	--	6.04	--	--	--	5.71	--	5.60	--	--	4.94	--	--	5.32	--	--	--	5.41	--	4.85	--	--	4.68	--
Conductivity (mS/cm)																											
OU2MW-30S	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	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	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	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	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	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	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	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	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	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	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	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	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	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	--	--	0.900	--	--	0.807	--	0.910	--	--	0.736	--	0.377	--	--	0.554	--	--	0.843	--	--	0.974	--	--	0.841	--	--
OU2MW-19I2	--	--	0.729	--	--	0.590	--	0.511	--	--	0.470	--	0.384	--	--	0.426	--	--	0.523	--	--	0.963	--	--	0.569	--	--
OU2MW-19D	--	--	0.568	--	--	0.620	--	0.555	--	--	0.606	--	0.214	--	--	0.541	--	--	0.478	--	--	0.473	--	--	0.576	--	--
OU2MW-02S	--	--	--	--	0.747	--	--	--	0.559	--	0.580	--	--	0.443	--	--	0.504	--	--	--	0.613	--	0.829	--	--	0.609	--
OU2MW-02I	--	0.462	--	--	0.430	--	--	--	0.492	--	0.581	--	--	0.735	--	--	0.731	--	--	--	0.862	--	1.250	--	--	0.795	--
OU2MW-02I2	--	0.095	--	--	0.118	--	--	--	0.109	--	0.136	--	--	0.133	--	--	0.162	--	--	--	0.318	--	0.672	--	--	0.650	--
OU2MW-02D	--	0.052	--	--	0.054	--	--	--	0.046	--	0.048	--	--	0.051	--	--	0.056	--	--	--	0.058	--	0.088	--	--	0.060	--
Dissolved Oxygen (mg/L)																											
OU2MW-30S	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	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	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	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	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	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	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	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	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	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	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	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	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	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	--	--	24.0	--	--	32.0	--	34.0	--	--	0.0	--	40.0	--	--	21.0	--	--	14.0	--	--	18.2	--	--	25.0	--	--
OU2MW-19I2	--	--	36.0	--	--	29.0	--	23.8	--	--	0.0	--	1.7	--	--	25.0	--	--	21.0	--	--	37.6	--	--	37.0	--	--
OU2MW-19D	--	--	15.8	--	--	11.9	--	11.3	--	--	5.1	--	0.4	--	--	4.7	--	--	4.4	--	--	2.8	--	--	8.6	--	--
OU2MW-02S	--	--	--	--	20.0	--	--	--	13.0	--	14.8	--	--	20.0	--	--	22.0	--	--	--	25.0	--	30.0	--	--	38.0	--
OU2MW-02I	--	1.6	--	--	0.0	--	--	--	0.0	--	3.6	--	--	14.2	--	--	12.0	--	--	--	30.0	--	32.0	--	--	30.0	--
OU2MW-02I2	--	0.0	--	--	0.0	--	--	--	1.1	--	3.9	--	--	0.7	--	--	0.7	--	--	--	3.4	--	0.8	--	--	1.0	--
OU2MW-02D	--	2.0	--	--	0.0	--	--	--	2.2	--	0.4	--	--	0.7	--	--	0.5	--	--	--	2.9	--	0.3	--	--	0.7	--
Temperature (degrees Celcius)																											
OU2MW-30S	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	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	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	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	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	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	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	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	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	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	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	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

Appendix F - Table F-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	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-47I2	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	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	--	--	12.4	--	--	16.3	--	18.2	--	--	16.1	--	13.0	--	--	13.2	--	--	17.2	--	--	17.5	--	--	13.4	--	--
OU2MW-19I2	--	--	12.2	--	--	17.8	--	17.4	--	--	14.2	--	13.9	--	--	14.2	--	--	16.9	--	--	16.1	--	--	13.4	--	--
OU2MW-19D	--	--	12.4	--	--	16.0	--	18.4	--	--	14.9	--	13.7	--	--	13.9	--	--	16.1	--	--	16.3	--	--	13.0	--	--
OU2MW-02S	--	--	--	--	18.7	--	--	--	22.7	--	15.2	--	--	12.5	--	--	16.6	--	--	--	19.4	--	14.7	--	--	9.8	--
OU2MW-02I	--	10.2	--	--	17.9	--	--	--	20.9	--	12.8	--	--	11.0	--	--	16.6	--	--	--	17.3	--	13.3	--	--	9.6	--
OU2MW-02I2	--	9.1	--	--	18.6	--	--	--	20.6	--	13.7	--	--	10.5	--	--	15.6	--	--	--	16.1	--	13.7	--	--	10.2	--
OU2MW-02D	--	9.6	--	--	17.6	--	--	--	21.1	--	13.8	--	--	10.0	--	--	15.5	--	--	--	16.7	--	13.3	--	--	9.4	--
Oxidation Reduction Potential																											
OU2MW-30S	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	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	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	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	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	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	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	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	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	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	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	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	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	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	--	--	233	--	--	197	--	263	--	--	200	--	248	--	--	156	--	--	199	--	--	161	--	--	227	--	--
OU2MW-19I2	--	--	289	--	--	169	--	241	--	--	184	--	141	--	--	221	--	--	189	--	--	155	--	--	231	--	--
OU2MW-19D	--	--	269	--	--	157	--	140	--	--	170	--	204	--	--	108	--	--	133	--	--	120	--	--	187	--	--
OU2MW-02S	--	--	--	--	191	--	--	--	224	--	255	--	--	210	--	--	168	--	--	--	189	--	230	--	--	158	--
OU2MW-02I	--	-74	--	--	-102	--	--	--	-72	--	-60	--	--	12	--	--	15	--	--	--	160	--	210	--	--	203	--
OU2MW-02I2	--	9	--	--	-20	--	--	--	-50	--	-31	--	--	-20	--	--	-21	--	--	--	-17	--	-32	--	--	-100	--
OU2MW-02D	--	78	--	--	78	--	--	--	50	--	105	--	--	133	--	--	108	--	--	--	71	--	71	--	--	137	--

Appendix F - Table F-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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	--	6.70	--	--	--	6.57	5.63	--	--	5.80	--	--	--	5.99	--	6.02	--	--	5.24	--	--	--	--	5.97	--	6.15	--	6.28	--
OU2MW-19I2	--	6.32	--	--	--	6.17	5.77	--	--	6.03	--	--	--	5.79	--	6.14	--	--	6.00	--	--	--	--	6.03	--	5.91	--	6.39	--
OU2MW-19D	--	5.46	--	--	--	5.16	4.72	--	--	4.75	--	--	--	4.88	--	5.27	--	--	4.59	--	--	--	--	4.74	--	4.76	--	5.38	--
OU2MW-02S	--	6.06	--	--	--	5.72	5.64	--	--	--	--	5.83	--	--	5.79	--	5.91	--	--	5.17	--	--	--	5.57	--	5.33	--	6.04	--
OU2MW-02I	--	5.97	--	--	--	5.66	5.29	--	--	--	--	5.47	--	--	5.56	--	5.37	--	--	5.05	--	--	--	5.26	--	4.75	--	5.66	--
OU2MW-02I2	--	5.81	--	--	--	5.64	5.31	--	--	--	--	5.48	--	--	5.50	--	5.21	--	--	5.45	--	--	--	5.24	--	5.39	--	5.57	--
OU2MW-02D	--	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	--	0.602	--	--	--	1.25	1.55	--	--	1.260	--	--	--	0.677	--	0.85	--	--	0.794	--	--	--	--	1.030	--	0.839	--	1.08	--
OU2MW-19I2	--	0.497	--	--	--	1.16	1.28	--	--	0.565	--	--	--	0.572	--	0.93	--	--	1.320	--	--	--	--	0.622	--	0.679	--	0.62	--
OU2MW-19D	--	0.614	--	--	--	0.699	0.755	--	--	0.753	--	--	--	0.724	--	0.64	--	--	0.597	--	--	--	--	0.537	--	0.563	--	0.34	--
OU2MW-02S	--	0.554	--	--	--	0.494	0.431	--	--	--	--	0.524	--	--	0.461	--	0.425	--	--	0.365	--	--	--	0.609	--	0.479	--	0.40	--
OU2MW-02I	--	0.638	--	--	--	0.648	0.726	--	--	--	--	0.748	--	--	0.595	--	0.343	--	--	0.397	--	--	--	0.503	--	0.388	--	0.40	--
OU2MW-02I2	--	0.563	--	--	--	0.655	0.810	--	--	--	--	0.758	--	--	0.443	--	0.401	--	--	0.979	--	--	--	1.120	--	1.020	--	1.16	--
OU2MW-02D	--	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	--	17.0	--	--	--	9.6	9.4	--	--	16.40	--	--	--	31.50	--	16.36	--	--	47.670	--	--	--	--	29.6	--	26.0	--	11.0	--
OU2MW-19I2	--	20.0	--	--	--	38.5	45.0	--	--	46.00	--	--	--	37.40	--	29.69	--	--	50.000	--	--	--	--	50.0	--	31.0	--	29.1	--
OU2MW-19D	--	4.2	--	--	--	4.6	2.0	--	--	0.74	--	--	--	2.80	--	1.10	--	--	4.250	--	--	--	--	16.6	--	15.2	--	13.4	--
OU2MW-02S	--	18.0	--	--	--	29.35	34.30	--	--	--	--	40.10	--	--	19.36	--	29.51	--	--	16.2	--	--	--	50.0	--	44.9	--	28.9	--
OU2MW-02I	--	19.0	--	--	--	30.73	40.53	--	--	--	--	49.60	--	--	20.03	--	50.0	--	--	31.0	--	--	--	50.0	--	46.9	--	19.1	--
OU2MW-02I2	--	2.3	--	--	--	0.51	1.85	--	--	--	--	1.50	--	--	4.07	--	0.40	--	--	0.5	--	--	--	0.8	--	0.6	--	0.7	--
OU2MW-02D	--	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	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	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	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	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	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	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	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	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	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	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	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	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

Appendix F - Table F-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	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-47I2	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	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	--	12.9	--	--	--	15.94	15.49	--	--	12.06	--	--	--	12.63	--	16.16	--	--	16.37	--	--	--	--	10.50	--	12.21	--	16.4	--
OU2MW-19I2	--	14.2	--	--	--	15.31	13.96	--	--	11.35	--	--	--	13.66	--	16.08	--	--	13.82	--	--	--	--	12.10	--	13.11	--	16.2	--
OU2MW-19D	--	14.2	--	--	--	15.56	13.54	--	--	11.12	--	--	--	13.87	--	15.42	--	--	14.82	--	--	--	--	16.27	--	12.91	--	15.9	--
OU2MW-02S	--	15.1	--	--	--	16.63	14.03	--	--	--	--	9.04	--	--	17.38	--	18.38	--	--	19.21	--	--	--	11.70	--	15.86	--	15.5	--
OU2MW-02I	--	15.9	--	--	--	15.33	13.62	--	--	--	--	8.25	--	--	19.11	--	19.90	--	--	14.53	--	--	--	12.70	--	16.25	--	16.2	--
OU2MW-02I2	--	15.7	--	--	--	14.84	13.29	--	--	--	--	8.85	--	--	18.62	--	18.30	--	--	13.39	--	--	--	12.40	--	12.79	--	15.6	--
OU2MW-02D	--	15.9	--	--	--	14.50	13.17	--	--	--	--	7.49	--	--	18.23	--	17.80	--	--	12.88	--	--	--	12.00	--	12.30	--	15.1	--
Oxidation Reduction Potential																													
OU2MW-30S	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	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	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	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	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	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	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	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	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	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	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	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	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	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	--	177	--	--	--	225	119	--	--	262	--	--	--	181	--	228.00	--	--	185	--	--	--	--	166	--	216	--	209.0	--
OU2MW-19I2	--	178	--	--	--	202	106	--	--	274	--	--	--	211	--	201.00	--	--	140	--	--	--	--	185	--	228	--	258.0	--
OU2MW-19D	--	170	--	--	--	163	94	--	--	135	--	--	--	175	--	62.00	--	--	175	--	--	--	--	142	--	137	--	121.0	--
OU2MW-02S	--	190	--	--	--	152	218	--	--	--	--	207	--	--	191	--	218	--	--	203	--	--	--	182	--	351	--	140.0	--
OU2MW-02I	--	157	--	--	--	146	178	--	--	--	--	234	--	--	226	--	196	--	--	235	--	--	--	179	--	380	--	216.0	--
OU2MW-02I2	--	-99	--	--	--	-49	-123	--	--	--	--	58	--	--	-21	--	-78	--	--	-107	--	--	--	-79	--	-99	--	-71.0	--
OU2MW-02D	--	54	--	--	--	99	132	--	--	--	--	153	--	--	142	--	67	--	--	91	--	--	--	112	--	122	--	75.0	--

Appendix F - Table F-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
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Bay Shore/Brightwaters Former MGP Site

Well ID	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	--	--	6.36	--	--	6.36	--	6.02	--	--	--	6.10	--	--	5.96	--	--	6.03	--	6.28	--	--	6.22	--	--	--	6.68	--
OU2MW-30I	--	--	6.31	--	--	6.28	--	6.15	--	--	--	6.25	--	--	6.35	--	--	6.16	--	6.47	--	--	6.29	--	--	--	6.86	--
OU2MW-30I2	--	--	6.45	--	--	6.56	--	6.26	--	--	--	6.31	--	--	6.44	--	--	6.08	--	6.51	--	--	6.51	--	--	--	6.89	--
OU2MW-30I3	--	--	5.65	--	--	5.64	--	5.41	--	--	--	5.50	--	--	5.65	--	--	5.59	--	5.60	--	--	5.40	--	--	--	5.80	--
OU2MW-30D	--	--	5.56	--	--	5.62	--	5.27	--	--	--	5.34	--	--	5.50	--	--	5.44	--	5.73	--	--	5.48	--	--	--	5.39	--
OU2MW-30D2	--	--	6.00	--	--	5.74	--	5.40	--	--	--	5.44	--	--	5.54	--	--	5.51	--	5.78	--	--	5.57	--	--	--	5.74	--
OU2MW-39S	--	--	6.08	--	--	6.17	--	--	--	6.18	--	6.03	--	--	6.30	--	--	--	5.95	--	6.46	--	--	6.45	--	--	4.33	--
OU2MW-39I	--	--	6.82	--	--	6.92	--	--	--	6.94	--	6.83	--	--	6.95	--	--	--	6.65	--	7.38	--	--	7.44	--	--	7.12	--
OU2MW-39I2	--	--	6.27	--	--	6.37	--	--	--	6.49	--	6.19	--	--	6.47	--	--	--	6.07	--	6.39	--	--	6.70	--	--	6.66	--
OU2MW-39D	--	--	4.93	--	--	5.25	--	--	--	5.25	--	5.04	--	--	5.15	--	--	--	4.95	--	5.07	--	--	5.52	--	--	5.27	--
OU2MW-47S	--	--	5.91	--	--	6.21	--	5.65	--	--	--	5.52	--	5.47	--	--	--	5.27	--	--	5.89	--	--	6.19	--	--	5.87	--
OU2MW-47I	--	--	5.85	--	--	6.43	--	5.82	--	--	--	5.78	--	5.87	--	--	--	5.73	--	--	6.44	--	--	6.55	--	--	6.15	--
OU2MW-47I2	--	--	6.26	--	--	6.49	--	5.76	--	--	--	5.78	--	5.83	--	--	--	5.66	--	--	6.19	--	--	6.29	--	--	5.96	--
OU2MW-47D	--	--	5.78	--	--	6.25	--	5.57	--	--	--	5.68	--	5.81	--	--	--	5.68	--	--	5.85	--	--	5.87	--	--	5.88	--
OU2MW-19I	--	--	--	6.45	6.66	--	--	--	6.42	--	--	--	5.82	6.37	--	--	--	5.89	--	--	--	6.71	--	6.47	--	--	7.13	--
OU2MW-19I2	--	--	--	6.74	6.88	--	--	--	6.65	--	--	--	5.32	6.65	--	--	--	5.91	--	--	--	6.44	--	6.71	--	--	7.38	--
OU2MW-19D	--	--	--	5.39	5.56	--	--	--	5.27	--	--	--	5.29	5.10	--	--	--	4.93	--	--	--	5.08	--	5.17	--	--	5.80	--
OU2MW-02S	--	--	--	6.09	6.09	--	--	--	6.16	--	--	5.96	--	--	5.92	--	--	5.66	--	--	6.19	--	--	6.07	--	--	5.90	--
OU2MW-02I	--	--	--	5.80	5.91	--	--	--	5.96	--	--	5.72	--	--	5.82	--	--	5.66	--	--	5.75	--	--	5.60	--	--	5.60	--
OU2MW-02I2	--	--	--	5.81	5.48	--	--	--	6.19	--	--	5.80	--	--	5.81	--	--	5.80	--	--	5.93	--	--	5.85	--	--	6.11	--
OU2MW-02D	--	--	--	5.46	5.85	--	--	--	5.76	--	--	5.33	--	--	5.34	--	--	5.71	--	--	5.52	--	--	5.53	--	--	5.53	--
Conductivity (mS/cm)																												
OU2MW-30S	--	--	0.501	--	--	0.630	--	0.788	--	--	--	0.400	--	--	0.497	--	--	1.05	--	0.595	--	--	0.287	--	--	--	0.492	--
OU2MW-30I	--	--	0.510	--	--	0.742	--	0.997	--	--	--	0.680	--	--	0.552	--	--	0.526	--	0.305	--	--	0.313	--	--	--	0.787	--
OU2MW-30I2	--	--	0.568	--	--	0.559	--	1.110	--	--	--	0.611	--	--	0.509	--	--	0.523	--	0.319	--	--	0.376	--	--	--	0.617	--
OU2MW-30I3	--	--	0.540	--	--	0.678	--	0.891	--	--	--	0.767	--	--	0.593	--	--	0.419	--	0.232	--	--	0.259	--	--	--	0.272	--
OU2MW-30D	--	--	0.490	--	--	0.580	--	0.740	--	--	--	0.577	--	--	0.525	--	--	0.545	--	0.323	--	--	0.289	--	--	--	0.324	--
OU2MW-30D2	--	--	1.020	--	--	0.922	--	1.10	--	--	--	0.886	--	--	0.797	--	--	0.682	--	0.440	--	--	0.400	--	--	--	0.487	--
OU2MW-39S	--	--	0.560	--	--	0.508	--	--	--	0.291	--	0.486	--	--	0.513	--	--	--	0.433	--	0.155	--	--	0.292	--	--	0.134	--
OU2MW-39I	--	--	0.738	--	--	0.799	--	--	--	0.627	--	0.823	--	--	0.701	--	--	--	0.765	--	0.361	--	--	0.552	--	--	0.521	--
OU2MW-39I2	--	--	0.516	--	--	0.687	--	--	--	0.636	--	0.598	--	--	0.622	--	--	--	0.454	--	0.194	--	--	0.330	--	--	0.512	--
OU2MW-39D	--	--	0.228	--	--	0.257	--	--	--	0.228	--	0.249	--	--	0.222	--	--	--	0.225	--	0.111	--	--	0.155	--	--	0.184	--
OU2MW-47S	--	--	0.618	--	--	0.578	--	0.79	--	--	--	0.400	--	0.467	--	--	--	0.531	--	--	0.181	--	--	0.254	--	--	0.356	--
OU2MW-47I	--	--	0.643	--	--	0.556	--	1.03	--	--	--	0.684	--	0.623	--	--	--	0.484	--	--	0.346	--	--	0.364	--	--	0.450	--
OU2MW-47I2	--	--	0.641	--	--	0.426	--	0.70	--	--	--	0.442	--	0.428	--	--	--	0.643	--	--	0.301	--	--	0.421	--	--	0.410	--
OU2MW-47D	--	--	0.402	--	--	0.551	--	1.55	--	--	--	0.549	--	0.362	--	--	--	0.361	--	--	0.250	--	--	0.305	--	--	0.386	--
OU2MW-19I	--	--	--	0.948	0.918	--	--	--	1.000	--	--	--	1.030	1.170	--	--	--	1.05	--	--	--	0.679	--	1.010	--	--	0.761	--
OU2MW-19I2	--	--	--	0.679	0.563	--	--	--	0.452	--	--	--	0.800	1.330	--	--	--	0.553	--	--	--	0.357	--	0.890	--	--	0.377	--
OU2MW-19D	--	--	--	0.495	0.475	--	--	--	0.444	--	--	--	0.323	0.498	--	--	--	0.505	--	--	--	0.281	--	0.312	--	--	0.369	--
OU2MW-02S	--	--	--	0.586	0.661	--	--	--	0.487	--	--	0.551	--	--	0.548	--	--	0.508	--	--	0.341	--	--	0.289	--	--	0.502	--
OU2MW-02I	--	--	--	0.388	0.414	--	--	--	0.245	--	--	0.425	--	--	0.500	--	--	0.338	--	--	0.191	--	--	0.199	--	--	0.318	--
OU2MW-02I2	--	--	--	0.991	0.062	--	--	--	0.809	--	--	1.400	--	--	1.150	--	--	1.07	--	--	0.462	--	--	0.507	--	--	0.472	--
OU2MW-02D	--	--	--	0.061	1.090	--	--	--	0.035	--	--	0.070	--	--	0.072	--	--	0.342	--	--	0.037	--	--	0.037	--	--	0.041	--
Dissolved Oxygen (mg/L)																												
OU2MW-30S	--	--	23.0	--	--	19.0	--	21.0	--	--	--	35.00	--	--	25	--	--	18.0	--	23.0	--	--	25.00	--	--	--	27.00	--
OU2MW-30I	--	--	39.0	--	--	21.0	--	43.0	--	--	--	35.00	--	--	36	--	--	20.0	--	19.0	--	--	29.00	--	--	--	27.00	--
OU2MW-30I2	--	--	25.0	--	--	22.0	--	46.4	--	--	--	40.00	--	--	34	--	--	19.0	--	19.0	--	--	33.00	--	--	--	25.00	--
OU2MW-30I3	--	--	33.0	--	--	22.0	--	37.0	--	--	--	40.00	--	--	17	--	--	18.0	--	17.0	--	--	30.00	--	--	--	20.00	--
OU2MW-30D	--	--	31.0	--	--	18.0	--	27.0	--	--	--	34.00	--	--	21	--	--	22.0	--	21.0	--	--	23.00	--	--	--	26.00	--
OU2MW-30D2	--	--	6.0	--	--	3.9	--	18.00	--	--	--	18.00	--	--	19	--	--	8.0	--	10.0	--	--	4.00	--	--	--	21.00	--
OU2MW-39S	--	--	25.0	--	--	17.0	--	--	--	17.0	--	16.00	--	--	14	--	--	--	11.0	--	27.0	--	--	30.00	--	--	13.00	--
OU2MW-39I	--	--	31.0	--	--	12.9	--	--	--	14.0	--	17.00	--	--	17	--	--	--	18.0	--	18.0	--	--	22.00	--	--	23.00	--
OU2MW-39I2	--	--	24.0	--	--	17.4	--	--	--	30.0	--	23.00	--	--	8	--	--	--	7.0	--	4.0	--	--	6.00	--	--	1.00	--
OU2MW-39D	--	--	2.0	--	--	0.6	--	--	--	1.0	--	2.00	--	--	1	--	--	--	0.40	--	4.00	--	--	1.00	--	--	0.00	--
OU2MW-47S	--	--	20.0	--	--	20.0	--	19.00	--	--	--	19.00	--	27	--	--	--	14.0	--	--	26.00	--	--	30.00	--	--	16.00	--
OU2MW-47I	--	--	29.0	--	--	26.0	--	21.00	--	--	--	21.00	--	23	--	--	--	16.0	--	--	30.00	--	--	30.00	--	--	16.00	--
OU2MW-47I2	--	--	25.0	--	--	24.0	--	27.00	--	--	--	21.00	--	36	--	--	--	17.0	--	--	20.00	--	--	36.00	--	--	15.00	--
OU2MW-47D	--	--	27.0	--	--	24.0	--	18.00	--	--	--	20.00	--	27	--	--	--	18.0	--	--	37.00	--	--	35.00	--	--	16.00	--
OU2MW-19I	--	--	--	50.0	27.9	--	--	--	16.5	--	--	--	12.25	19.01	--	--	--	16.68	--	--	--	8.58	--	12.11	--	--	16.21	--
OU2MW-19I2	--	--	--	22.6	31.8	--	--	--	32.1	--	--	--	13.35	21.87	--	--	--	26.75	--	--	--	27.63	--	27.12	--	--	16.70	--
OU2MW-19D	--	--	--	50.0	19.4	--	--	--	9.5	--	--	--	0.38	19.49	--	--	--	14.17	--	--	--	4.66	--	14.76	--	--	21.34	--
OU2MW-02S	--	--	--	14.6	23.8	--	--	--	28.3	--	--	34.87	--	--	26.9	--	--	22.16	--	--	26.27	--	--	22.28	--	--	37.55	--
OU2MW-02I	--	--	--	20.6	30.4	--	--	--	23.0	--	--	42.74	--	--	26.3	--	--	24.26	--	--	13.12	--	--	15.61	--	--	16.88	--
OU2MW-02I2	--	--	--	1.6	6.7	--	--	--	0.0	--	--	0.38	--	--	0.3	--	--	0.75	--	--	0.00	--	--	0.00	--	--	0.00	--
OU2MW-02D	--	--	--	3.7	1.3	--	--	--	0.0	--	--	0.45	--	--	0.5	--	--	7.80	--	--	0.00	--	--	0.00	--	--	0.05	--
Temperature (degrees Celcius																												
OU2MW-30S	--	--	16.52	--	--	11.90	--	12.21	--	--	--	19.43	--	--	15.32	--	--	10.23	--	13.49	--	--	22.56		--	--	15.52	--
OU2MW-30I	--	--	14.35	--	--	13.98	--	13.50	--	--	--	16.23	--	--	14.11	--	--	12.71	--	15.41	--	--	21.36	--	--	--	13.42	--
OU2MW-30I2	--	--	13.98	--	--	14.01	--	13.77	--	--	--	16.27	--	--	14.40	--	--	13.01	--	15.78	--	--	20.07	--	--	--	13.18	--
OU2MW-30I3	--	--	14.03	--	--	14.09	--	14.22	--	--	--	15.78	--	--	13.16	--	--	13.64	--	15.21	--	--	19.95	--	--	--	13.51	--
OU2MW-30D	--	--	13.47	--	--	14.03	--	13.42	--	--	--	16.05	--	--	13.64	--	--	14.98	--	15.93	--	--	21.78	--	--	--	12.31	--
OU2MW-30D2	--	--	14.26	--	--	14.01	--	13.54	--	--	--	15.55	--	--	13.07	--	--	12.96	--	15.42	--	--	20.87	--	--	--	13.32	--
OU2MW-39S	--	--	15.09	--	--	6.69	--	--	--	15.10	--	17.84	--	--	10.27	--	--	--	11.40	--	21.16	--	--	23.40	--	--	15.20	--
OU2MW-39I	--	--	14.48	--	--	10.80	--	--	--	14.69	--	17.58	--	--	10.01	--	--	--	12.73	--	21.25	--	--	23.28	--	--	14.37	--
OU2MW-39I2	--	--	14.81	--	--	9.80	--	--	--	15.82	--	18.36	--	--	10.46	--	--	--	14.35	--	22.50	--	--	23.58	--	--	12.53	--
OU2MW-39D	--	--	14.25	--	--	11.10	--	--	--	15.46	--	20.15	--	--	10.14	--	--	--	15.39	--	24.51	--	--	26.38	--	--	13.00	--
OU2MW-47S	--	--	14.40	--	--	12.57	--	12.04	--	--	--	17.82	--	18.50	--	--	--	11.48	--	--	15.85	--	--	18.19	--	--	14.87	--
OU2MW-47I	--	--	13.08	--	--	13.83	--	13.16	--	--	--	16.30	--	16.55	--	--	--	12.25	--	--	16.39	--	--	15.13	--	--	13.69	--

Appendix F - Table F-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	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-47I2	--	--	12.34	--	--	13.37	--	13.75	--	--	--	17.61	--	16.77	--	--	--	12.47	--	--	17.29	--	--	15.65	--	--	13.11	--
OU2MW-47D	--	--	12.72	--	--	13.06	--	14.19	--	--	--	16.47	--	17.38	--	--	--	12.45	--	--	18.40	--	--	14.76	--	--	12.85	--
OU2MW-19I	--	--	--	14.28	12.36	--	--	--	12.62	--	--	--	16.29	15.26	--	--	--	12.08	--	--	--	16.78	--	20.41	--	--	16.65	--
OU2MW-19I2	--	--	--	13.02	12.36	--	--	--	13.39	--	--	--	15.78	15.34	--	--	--	12.80	--	--	--	18.07	--	19.79	--	--	14.84	--
OU2MW-19D	--	--	--	12.57	11.98	--	--	--	13.08	--	--	--	15.68	15.24	--	--	--	12.26	--	--	--	20.62	--	19.89	--	--	14.69	--
OU2MW-02S	--	--	--	11.63	7.74	--	--	--	13.35	--	--	16.57	--	--	15.29	--	--	9.77	--	--	16.98	--	--	21.13	--	--	11.67	--
OU2MW-02I	--	--	--	11.58	7.62	--	--	--	12.90	--	--	15.59	--	--	14.21	--	--	10.82	--	--	18.08	--	--	20.34	--	--	12.07	--
OU2MW-02I2	--	--	--	11.33	10.56	--	--	--	12.71	--	--	15.75	--	--	13.74	--	--	10.70	--	--	17.67	--	--	22.77	--	--	12.45	--
OU2MW-02D	--	--	--	9.83	10.40	--	--	--	12.90	--	--	15.39	--	--	12.49	--	--	10.64	--	--	17.76	--	--	22.95	--	--	12.60	--
Oxidation Reduction Potential																												
OU2MW-30S	--	--	117	--	--	238	--	217	--	--	--	132	--	--	204	--	--	194	--	332	--	--	179	--	--	--	238	--
OU2MW-30I	--	--	272	--	--	275	--	203	--	--	--	224	--	--	210	--	--	199	--	344	--	--	251	--	--	--	246	--
OU2MW-30I2	--	--	280	--	--	281	--	187	--	--	--	226	--	--	211	--	--	208	--	353	--	--	245	--	--	--	264	--
OU2MW-30I3	--	--	284	--	--	318	--	273	--	--	--	247	--	--	222	--	--	224	--	348	--	--	298	--	--	--	322	--
OU2MW-30D	--	--	288	--	--	325	--	273	--	--	--	264	--	--	260	--	--	215	--	380	--	--	284	--	--	--	363	--
OU2MW-30D2	--	--	226	--	--	212	--	188.00	--	--	--	157	--	--	132	--	--	120	--	228	--	--	156	--	--	--	246	--
OU2MW-39S	--	--	176	--	--	266	--	--	--	163	--	221	--	--	164	--	--	--	229	--	248	--	--	293	--	--	414	--
OU2MW-39I	--	--	151	--	--	245	--	--	--	173	--	206	--	--	168	--	--	--	187	--	196	--	--	261	--	--	324	--
OU2MW-39I2	--	--	168	--	--	247	--	--	--	187	--	215	--	--	179	--	--	--	211	--	180	--	--	233	--	--	171	--
OU2MW-39D	--	--	74	--	--	78	--	--	--	72	--	73	--	--	102	--	--	--	64	--	110	--	--	119	--	--	80	--
OU2MW-47S	--	--	200	--	--	262	--	272.00	--	--	--	225	--	219	--	--	--	202	--	--	258	--	--	338	--	--	262	--
OU2MW-47I	--	--	235	--	--	259	--	262.00	--	--	--	227	--	198	--	--	--	187	--	--	251	--	--	321	--	--	267	--
OU2MW-47I2	--	--	184	--	--	264	--	259.00	--	--	--	245	--	206	--	--	--	201	--	--	264	--	--	340	--	--	283	--
OU2MW-47D	--	--	223	--	--	280	--	273.00	--	--	--	260	--	208	--	--	--	200	--	--	287	--	--	342	--	--	284	--
OU2MW-19I	--	--	--	274	150	--	--	--	244	--	--	--	151	122	--	--	--	199	--	--	--	229	--	285	--	--	171	--
OU2MW-19I2	--	--	--	283	164	--	--	--	242	--	--	--	247	151	--	--	--	227	--	--	--	148	--	288	--	--	181	--
OU2MW-19D	--	--	--	162	135	--	--	--	201	--	--	--	201	231	--	--	--	155	--	--	--	227	--	263	--	--	282	--
OU2MW-02S	--	--	--	156	179	--	--	--	191	--	--	108	--	--	119	--	--	103	--	--	211	--	--	174	--	--	225	--
OU2MW-02I	--	--	--	248	183	--	--	--	258	--	--	204	--	--	97	--	--	113	--	--	238	--	--	181	--	--	227	--
OU2MW-02I2	--	--	--	-117	42	--	--	--	-102	--	--	-115	--	--	-118	--	--	-117	--	--	-8	--	--	-67	--	--	-23	--
OU2MW-02D	--	--	--	76	-65	--	--	--	110	--	--	88	--	--	61	--	--	2	--	--	119	--	--	73	--	--	110	--

Appendix F - Table F-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	2019				2020		Baseline Average	Historical Average	Q3 2019 - Q3 2020 Average
	Q1	Q2	Q3	Q4	Q1	Q3			
pH (SU)									
OU2MW-30S	5.59	6.56	6.67	6.31	6.21	6.17	**6.28**	**5.84**	**6.34**
OU2MW-30I	6.4	7.17	7.35	6.94	6.66	6.59	**6.64**	**6.00**	**6.89**
OU2MW-30I2	6.76	6.98	6.94	6.51	6.54	6.4	**6.54**	**5.99**	**6.60**
OU2MW-30I3	5.8	6.1	5.63	5.76	5.13	5.45	**6.10**	**5.48**	**5.49**
OU2MW-30D	5.66	5.76	5.59	--	5.13	5.44	**5.99**	**5.48**	**5.39**
OU2MW-30D2	5.3	5.92	5.42	5.69	5.73	5.63	**6.15**	**5.54**	**5.62**
OU2MW-39S	5.09	4.84	--	6.26	6.00	5.99	**5.67**	**5.69**	**6.08**
OU2MW-39I	6.66	7.5	7.55	7.55	6.95	7.14	**7.49**	**6.39**	**7.30**
OU2MW-39I2	5.29	6.32	--	5.97	4.75	5.55	**5.60**	**5.46**	**5.42**
OU2MW-39D	4.88	4.33	5.12	5.25	4.05	5	**6.97**	**4.97**	**4.86**
OU2MW-47S	3.96	5.84	5.91	5.86	5.54	5.66	**6.33**	**5.56**	**5.74**
OU2MW-47I	6.01	6.4	6.49	6.31	6.07	6.08	**6.55**	**5.96**	**6.24**
OU2MW-47I2	6.61	6.24	6.18	6.29	5.84	5.75	**6.28**	**5.96**	**6.02**
OU2MW-47D	6.45	6.07	5.85	5.64	5.48	5.45	**5.55**	**5.77**	**5.61**
OU2MW-19I	6.66	6.84	6.97	6.75	6.85	6.63	**7.51**	**6.35**	**6.80**
OU2MW-19I2	6.91	6.71	7.21	6.50	6.52	5.93	**5.94**	**6.16**	**6.54**
OU2MW-19D	5.29	5.19	5.29	5.21	5.45	4.92	**7.09**	**5.45**	**5.22**
OU2MW-02S	5.38	6.35	6.32	6.20	5.65	5.99	**6.88**	**5.89**	**6.04**
OU2MW-02I	5.68	5.63	5.68	6.07	5.27	5.09	**6.12**	**5.94**	**5.53**
OU2MW-02I2	5.79	6.23	6.21	6.06	5.87	5.72	**6.14**	**5.83**	**5.97**
OU2MW-02D	4.86	4.99	4.65	5.24	5.37	4.9	**5.74**	**5.20**	**5.04**
Conductivity (mS/cm)									
OU2MW-30S	0.402	0.381	0.231	0.281	0.553	0.267	**0.485**	**0.428**	**0.33**
OU2MW-30I	0.753	0.744	0.511	0.573	0.76	0.52	**0.646**	**0.603**	**0.59**
OU2MW-30I2	0.714	0.556	0.447	0.618	0.915	0.494	**0.424**	**0.566**	**0.62**
OU2MW-30I3	0.47	0.422	0.293	0.280	0.478	0.371	**0.727**	**0.466**	**0.36**
OU2MW-30D	0.504	0.437	0.287	--	0.462	0.392	**0.521**	**0.461**	**0.38**
OU2MW-30D2	0.699	0.601	0.442	0.384	0.637	0.49	**0.561**	**0.677**	**0.49**
OU2MW-39S	0.22	0.367	--	0.325	0.331	0.295	**0.211**	**0.332**	**0.32**
OU2MW-39I	0.648	0.431	0.508	0.634	0.541	0.565	**0.408**	**0.681**	**0.56**
OU2MW-39I2	0.25	0.273	--	0.169	0.445	0.23	**0.233**	**0.439**	**0.28**
OU2MW-39D	0.205	0.243	0.139	0.140	0.452	0.212	**0.133**	**0.304**	**0.24**
OU2MW-47S	0.173	0.274	0.189	0.256	0.323	0.294	**0.303**	**0.385**	**0.27**
OU2MW-47I	0.726	0.649	0.4	0.495	0.500	0.438	**0.640**	**0.603**	**0.46**
OU2MW-47I2	0.548	0.556	0.891	0.384	0.473	0.392	**0.490**	**0.531**	**0.54**
OU2MW-47D	0.459	0.39	0.284	0.419	0.758	0.272	**0.341**	**0.451**	**0.43**
OU2MW-19I	0.991	1.09	0.887	0.645	1.05	0.981	**0.631**	**0.843**	**0.89**
OU2MW-19I2	0.354	0.714	0.697	0.425	0.390	0.383	**0.553**	**0.656**	**0.47**
OU2MW-19D	0.421	0.55	0.376	0.481	0.516	0.365	**1.310**	**0.668**	**0.43**
OU2MW-02S	0.64	0.731	0.396	0.537	0.530	0.450	**0.405**	**0.556**	**0.48**
OU2MW-02I	0.721	0.726	0.505	0.619	0.674	0.515	**0.178**	**0.479**	**0.58**
OU2MW-02I2	0.446	0.262	0.226	0.281	0.345	0.431	**0.122**	**0.462**	**0.32**
OU2MW-02D	0.06	0.079	0.05	0.058	0.066	0.053	**0.037**	**0.085**	**0.06**
Dissolved Oxygen (mg/L)									
OU2MW-30S	13	24	31	26	12	28	**0.0**	**25.34**	**24.25**
OU2MW-30I	23	27	29	28	16	24	**0.0**	**29.56**	**24.25**
OU2MW-30I2	17	24	26	29	17	25	**0.7**	**31.42**	**24.25**
OU2MW-30I3	17	25	31	23	18	27	**0.0**	**30.23**	**24.75**
OU2MW-30D	18	21	31	--	20	28	**0.5**	**31.15**	**26.33**
OU2MW-30D2	17	22	29	6	4	21	**0.0**	**17.22**	**15.00**
OU2MW-39S	11	24	--	15	12	23	**1.8**	**21.25**	**16.67**
OU2MW-39I	17	26	22	18	9	22	**7.2**	**26.33**	**17.75**
OU2MW-39I2	9	31	--	23	35	6	**0.0**	**9.67**	**21.33**
OU2MW-39D	1	1	0	0	0	0	**0.0**	**1.56**	**0.00**
OU2MW-47S	14	18	22	30	13	32	**0.0**	**25.98**	**24.25**
OU2MW-47I	14	17	21	23	16	26	**0.0**	**29.57**	**21.50**
OU2MW-47I2	22	18	31	23	15	26	**0.0**	**30.18**	**23.75**
OU2MW-47D	24	31	25	24	16	26	**0.0**	**28.22**	**22.75**
OU2MW-19I	21.28	21.82	17.29	24.84	22.6	20.09	**0.0**	**17.67**	**21.21**
OU2MW-19I2	25.62	38.24	22	40.34	36.8	19.7	**0.0**	**27.26**	**29.71**
OU2MW-19D	25.92	41.37	22.37	22.46	20.33	9.15	**0.0**	**10.50**	**18.58**
OU2MW-02S	22.67	40.5	35.47	30.22	38.50	33.46	**1.8**	**22.89**	**34.41**
OU2MW-02I	16.11	26.64	25.28	18.16	5.2	18.01	**0.4**	**18.53**	**16.66**
OU2MW-02I2	0	0	0	0	0	0	**0.5**	**1.05**	**0.00**
OU2MW-02D	0	0	0	0	0	0	**0.9**	**1.29**	**0.00**
Temperature (degrees Celcius)									
OU2MW-30S	10.76	13.88	19.14	16.57	8.22	19.96	**15.0**	**15.90**	**15.97**
OU2MW-30I	12.26	14.45	15.67	15.01	9.51	16.16	**14.3**	**14.99**	**14.09**
OU2MW-30I2	12.3	13.91	16.07	14.22	10.93	15.92	**14.5**	**15.05**	**14.29**
OU2MW-30I3	12.62	15.38	23.22	14.27	11.92	16.14	**14.3**	**15.00**	**16.39**
OU2MW-30D	12.14	14.08	21.24	--	11.25	17.18	**14.0**	**14.89**	**16.56**
OU2MW-30D2	12.64	14.85	21.85	14.15	11.89	16.55	**14.2**	**15.02**	**16.11**
OU2MW-39S	4.81	14.94	--	13.68	11.01	21.53	**9.2**	**13.85**	**15.41**
OU2MW-39I	4.78	13.9	25.02	13.50	12.53	22.94	**12.9**	**14.20**	**18.50**
OU2MW-39I2	9.75	15.35	--	11.99	11.66	24.48	**12.0**	**14.15**	**16.04**
OU2MW-39D	5.33	13.99	22.75	11.65	11.67	23.83	**11.9**	**14.01**	**17.48**
OU2MW-47S	8.2	11.53	16.54	14.80	14.66	18.06	**12.6**	**14.99**	**16.02**
OU2MW-47I	11.79	11.92	15.52	13.60	15.96	14.99	**13.8**	**14.84**	**15.02**

Appendix F - Table F-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	2019				2020		Baseline Average	Historical Average	Q3 2019 - Q3 2020 Average
	Q1	Q2	Q3	Q4	Q1	Q3			
OU2MW-47I2	12.98	13.95	15.63	13.04	13.09	16.26	**13.1**	**15.03**	**14.51**
OU2MW-47D	11.46	13.6	15.59	12.34	14.98	15.5	**13.4**	**14.95**	**14.60**
OU2MW-19I	6.11	13	20.38	15.30	12.67	17.06	**17.7**	**14.41**	**16.35**
OU2MW-19I2	8.79	14.11	20.81	13.84	13.22	16.32	**15.3**	**14.37**	**16.05**
OU2MW-19D	10.47	14.37	16.72	12.56	12.48	16.49	**15.2**	**14.42**	**14.56**
OU2MW-02S	10.42	16.75	18.03	16.42	9.68	17	**16.7**	**15.20**	**15.28**
OU2MW-02I	11.33	16.08	15.68	16.40	11.94	16.10	**18.0**	**14.85**	**15.03**
OU2MW-02I2	12.06	17.66	17.45	13.86	12.22	15.57	**16.0**	**14.64**	**14.78**
OU2MW-02D	11.88	15.8	18.65	13.52	12.19	15.68	**17.2**	**14.53**	**15.01**
Oxidation Reduction Potential									
OU2MW-30S	350	264	215	202	201	248	**11**	**227**	**217**
OU2MW-30I	314	306	212	235	209	259	**-119**	**213**	**229**
OU2MW-30I2	298	257	228	283	225	269	**-53**	**223**	**251**
OU2MW-30I3	320	260	256	260	295	311	**19**	**244**	**281**
OU2MW-30D	304	285	245	--	312	320	**87**	**242**	**292**
OU2MW-30D2	220	188	199	134	131	183	**-96**	**206**	**162**
OU2MW-39S	279	230	--	178	274	255	**147**	**211**	**236**
OU2MW-39I	170	175	130	133	246	214	**17**	**175**	**181**
OU2MW-39I2	198	198	--	216	412	258	**128**	**156**	**295**
OU2MW-39D	43	127	90	45	90	79	**38**	**98**	**76**
OU2MW-47S	252	346	196	321	293	278	**-62**	**230**	**272**
OU2MW-47I	210	334	196	316	274	284	**-104**	**222**	**268**
OU2MW-47I2	261	240	196	335	246	293	**75**	**224**	**268**
OU2MW-47D	272	260	231	343	303	303	**79**	**218**	**295**
OU2MW-19I	219	212	194	268	280	237	**-102**	**139**	**245**
OU2MW-19I2	218	218	185	208	317	280	**54**	**194**	**248**
OU2MW-19D	249	275	151	262	197	183	**-118**	**133**	**198**
OU2MW-02S	236	157	136	156	192	165	**-183**	**162**	**162**
OU2MW-02I	222	184	69	26	100	202	**101**	**99**	**99**
OU2MW-02I2	-13	-68	-46	15	-79	-60	**-6**	**-35**	**-43**
OU2MW-02D	137	107	116	222	69	93	**69**	**95**	**125**

Appendix F - Table F-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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix F - Table F-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
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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 F - Table F-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							
		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	6.34	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	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	6.42	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	6.03	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	5.95	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	0.502	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	0.730	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	0.451	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	0.336	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	0.600	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	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	0.0	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
MW-34D	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	0.6	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	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix F - Table F-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							
		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
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature (degrees Celcius)																												
IO-10	OU-3 Community Road	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	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	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	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	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	-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	-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	-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	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	-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 F - Table F-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										
		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
pH (SU)																												
IO-10	OU-3 Community Road	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
MW-34S	OU-3 Community Road	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
MW-34I	OU-3 Community Road	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
MW-34D	OU-3 Community Road	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
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
MW-70/70S	OU-3 Community Road	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
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	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.84	--	--
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	0.436	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
MW-34S	OU-3 Community Road	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
MW-34I	OU-3 Community Road	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
MW-34D	OU-3 Community Road	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
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
MW-70/70S	OU-3 Community Road	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
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	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.484	--	--
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	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
MW-34S	OU-3 Community Road	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
MW-34I	OU-3 Community Road	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
MW-34D	OU-3 Community Road	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
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
MW-70/70S	OU-3 Community Road	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
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	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix F - Table F-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											
		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
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature (degrees Celcius)																												
IO-10	OU-3 Community Road	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
MW-34S	OU-3 Community Road	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
MW-34I	OU-3 Community Road	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
MW-34D	OU-3 Community Road	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
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
MW-70/70S	OU-3 Community Road	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
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	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.1	--	--
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	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
MW-34S	OU-3 Community Road	-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
MW-34I	OU-3 Community Road	-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
MW-34D	OU-3 Community Road	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
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
MW-70/70S	OU-3 Community Road	-42	-18	385	-32	2	-10	28	11	-32	-20	--	-69	-33	-47	-42	-42	-6	51	-28	-39	-29	-32	--	-78	-8	--	36
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	137	--	401
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	113	--	186
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-60	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-117	--	--
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 F - Table F-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	2009	2010												2011										2012	
		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	Jan-12	Feb-12
pH (SU)																											
IO-10	OU-3 Community Road	5.98	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	6.00	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	5.73	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	5.66	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	5.49	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	5.88	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	7.46	--	--	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	7.09	--	--	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	0.298	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	0.753	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	0.289	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	0.354	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	0.365	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	0.718	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	0.693	--	--	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	0.300	--	--	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	24.0	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	0.0	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	5.0	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	0.0	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	16.0	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	25.0	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	--	--	0.0	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	--	--	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

Appendix F - Table F-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	2009	2010												2011										2012	
		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	Jan-12	Feb-12
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature (degrees Celcius)																												
IO-10	OU-3 Community Road	14.1	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	8.9	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	11.1	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	11.4	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	10.5	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	10.2	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	12.1	--	--	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	7.5	--	--	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	218	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	-96	-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	208	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	210	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	26	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	68	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	1	--	--	-36	-30	--	--	-51	--	--	--	--	35	--	--	46	--	20	-137	-108	-76	-142	-81	-136	-126	-99	--
OU3MW-03I	OU-3 Community Road	30	--	--	-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 F - Table F-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				
		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	6.60	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	6.22	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	6.58	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	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	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	0.417	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	0.595	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	0.362	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	0.302	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	0.374	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	0.402	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	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	0.0	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	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	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	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

Appendix F - Table F-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				
		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
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
Temperature (degrees Celcius)																												
IO-10	OU-3 Community Road	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	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	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	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	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	-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	-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	-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	-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	-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 F - Table F-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							
		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	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	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	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	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	5.38	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	0.620	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	0.740	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	0.617	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	0.487	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	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	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	0.0	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	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	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	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	--

Appendix F - Table F-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							
		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
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
Temperature (degrees Celcius)																												
IO-10	OU-3 Community Road	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	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	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	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	19.8	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	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	-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	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	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	-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 F - Table F-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									
		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	--		6.27	--	--	6.53	--	--	6.59	--	--	6.02	--	--	6.48	--	--	6.89	--	--	--	--	--	--	--	--
MW-34S	OU-3 Community Road	--		5.82	--	--	6.36	--	--	6.34	--	--	5.79	--	--	4.97	--	--	6.43	--	--	6.28	--	--	--	--	--
MW-34I	OU-3 Community Road	--		6.46	--	--	6.82	--	--	6.74	--	--	6.18	--	--	6.58	--	--	6.47	--	--	6.20	--	--	--	--	--
MW-34D	OU-3 Community Road	--		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	--		5.63	--	--	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	--	--	0.459	--	--	0.600	--	--	0.405	--	--	0.743	--	--	0.378	--	--	0.554	--	--	--	--	--	--	--	--
MW-34S	OU-3 Community Road	--	--	0.845	--	--	1.440	--	--	0.545	--	--	0.954	--	--	0.724	--	--	0.681	--	--	0.494	--	--	--	--	--
MW-34I	OU-3 Community Road	--	--	0.413	--	--	0.406	--	--	0.394	--	--	0.614	--	--	0.378	--	--	0.356	--	--	0.449	--	--	--	--	--
MW-34D	OU-3 Community Road	--	--	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	--	--	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	--	--	0.691	--	--	0.658	--	--	0.727	--	--	6.900	--	--	1.25	--	--	--	1.66	--	0.605	--	0.475	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	0.782	--	--	1.340	--	--	0.567	--	--	1.910	--	--	1.43	--	--	--	1.44	--	0.599	--	0.578	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	0.666	--	--	0.825	--	--	0.679	--	--	1.020	--	--	0.865	--	--	--	0.851	--	0.541	--	0.411	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	0.369	--	--	0.485	--	--	0.365	--	--	0.647	--	--	0.872	--	--	--	0.590	--	0.476	--	0.271	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	0.456	--	0.407	--	--	0.299	--	--	0.835	--	--	--	--	--	--	--	--	0.446	--	0.158	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	0.445	--	--	0.533	--	--	0.608	--	--	1.020	--	0.471	--	--	--	0.880	--	--	0.264	--	0.259	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	0.325	--	--	0.270	--	--	0.400	--	--	0.693	--	0.259	--	--	--	0.456	--	--	0.262	--	0.195	--	--	--
OU3MW-07S	87 Community Road	--	--	0.398	--	--	0.378	--	--	0.254	--	--	0.935	--	0.364	--	--	--	0.260	--	--	0.132	--	0.156	--	--	--
OU3MW-07I	87 Community Road	--	--	0.442	--	--	0.813	--	1.970	--	--	--	1.170	--	0.630	--	--	--	2.32	--	--	0.467	--	--	0.979	--	--
OU3MW-07I2	87 Community Road	--	--	0.629	--	--	0.827	--	1.110	--	--	--	1.750	--	0.751	--	--	--	1.01	--	--	0.581	--	--	0.422	--	--
OU3MW-07I3	87 Community Road	--	--	0.340	--	--	0.66	--	0.88	--	--	--	1.020	--	0.478	--	--	--	0.758	--	--	0.364	--	--	0.516	--	--
OU3MW-07I4	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (mg/L)																											
IO-10	OU-3 Community Road	--	--	24.0	--	--	16.0		--	30.0	--	--	31.03	--	--	24	--	--	26	--	--	--	--	--	--	--	--
MW-34S	OU-3 Community Road	--	--	1.5	--	--	4.0	--	--	0.0	--	--	0.00	--	--	1	--	--	2	--	--	4.0	--	--	--	--	--
MW-34I	OU-3 Community Road	--	--	37.0	--	--	23.0	--	--	29.0	--	--	31.00	--	--	26	--	--	30	--	--	25.0	--	--	--	--	--
MW-34D	OU-3 Community Road	--	--	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	--	--	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	--	--	--

Appendix F - Table F-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									
		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
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	--	--
Temperature (degrees Celcius)																											
IO-10	OU-3 Community Road	--	--	15.50	--	--	8.89	--	--	12.08	--	--	19.55	--	--	15.50	--	--	10.65	--	--	--	--	--	--	--	--
MW-34S	OU-3 Community Road	--	--	17.30	--	--	8.38	--	--	11.42	--	--	19.49	--	--	18.64	--	--	7.39	--	--	17.06	--	--	--	--	--
MW-34I	OU-3 Community Road	--	--	16.64	--	--	13.38	--	--	10.92	--	--	17.34	--	--	16.11	--	--	12.22	--	--	14.99	--	--	--	--	--
MW-34D	OU-3 Community Road	--	--	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	--	--	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	--	--	183	--	--	241	--	--	198	--	--	158	--	--	140	--	--	108	--	--	--	--	--	--	--	--
MW-34S	OU-3 Community Road	--	--	-25	--	--	162	--	--	0	--	--	-59	--	--	66	--	--	60	--	--	92.00	--	--	--	--	--
MW-34I	OU-3 Community Road	--	--	231	--	--	216	--	--	242	--	--	168	--	--	129	--	--	90	--	--	310.00	--	--	--	--	--
MW-34D	OU-3 Community Road	--	--	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	--	--	-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 F - Table F-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		Baseline Average	Historical Average	Q3 2019 - Q3 2020 Average
		Nov-18	Dec-18	Q1	Q2	Q3	Q4	Q1	Q3			
pH (SU)												
IO-10	OU-3 Community Road	--	--	--	7.21	6.9	6.60	6.27	--	**6.27**	**6.24**	**6.59**
MW-34S	OU-3 Community Road	--	--	--	6.39	5.94	5.72	6.16	--	**6.25**	**5.95**	**5.94**
MW-34I	OU-3 Community Road	--	--	--	6.77	6.74	6.81	6.55	--	**6.34**	**6.17**	**6.70**
MW-34D	OU-3 Community Road	--	--	--	6.2	6.24	6.00	6.24	--	**5.97**	**5.82**	**6.16**
MW-46WR	OU-3 Community Road	--	--	--	5.94	6.14	5.99	5.59	--	**6.03**	**5.76**	**5.91**
MW-70/70S	OU-3 Community Road	--	--	--	6.17	5.81	5.77	5.57	--	**6.07**	**5.84**	**5.72**
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	**5.60**	**5.68**	**6.40**
OU3MW-07I	OU-3 Community Road	6.13	--	6.18	6.7	7.03	6.00	6.17	6.42	**6.26**	**6.12**	**6.41**
OU3MW-07I2	OU-3 Community Road	6.64	--	5.76	6.47	6.8	5.71	6.01	6.22	**5.86**	**6.04**	**6.19**
OU3MW-07I3	OU-3 Community Road	5.96	--	5.97	6.27	6.21	6.09	5.84	5.92	**NS**	**5.84**	**6.02**
OU3MW-07I4	OU-3 Community Road	6.84	--	6.09	6.05	6.26	5.91	5.72	5.83	**NS**	**5.74**	**5.93**
OU3MW-19S	87 Community Road	5.91	--	5.80	6.31	5.98	6.13	5.60	5.81	**6.22**	**5.68**	**5.88**
OU3MW-19I	87 Community Road	6.31	--	6.07	6.61	6.26	6.11	5.89	6.13	**6.73**	**6.00**	**6.10**
OU3MW-19I2	87 Community Road	6.64	--	6.33	6.38	5.94	6.27	6.00	5.94	**5.95**	**5.75**	**6.04**
OU3MW-20S	87 Community Road	5.57	--	5.81	5.59	5.59	5.29	5.17	5.62	**5.90**	**5.22**	**5.42**
OU3MW-20I	87 Community Road	6.11	--	6.62	6.24	6.61	6.35	6.42	6.34	**6.62**	**6.05**	**6.43**
OU3MW-20I2	87 Community Road	5.77	--	6.13	6	6.12	5.64	5.88	5.71	**5.89**	**5.56**	**5.84**
Conductivity (mS/cm)												
IO-10	OU-3 Community Road	--	--	--	0.94	0.799	0.589	0.912	--	**0.413**	**0.504**	**0.77**
MW-34S	OU-3 Community Road	--	--	--	0.656	0.523	0.563	0.835	--	**0.643**	**0.761**	**0.64**
MW-34I	OU-3 Community Road	--	--	--	1.19	0.586	0.521	0.996	--	**0.409**	**0.476**	**0.70**
MW-34D	OU-3 Community Road	--	--	--	6.2	0.392	0.545	0.939	--	**0.295**	**0.627**	**0.63**
MW-46WR	OU-3 Community Road	--	--	--	1.21	0.857	0.560	1.080	--	**0.792**	**0.981**	**0.83**
MW-70/70S	OU-3 Community Road	--	--	--	0.543	0.586	0.572	0.686	--	**0.485**	**0.678**	**0.61**
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	**0.235**	**0.520**	**0.89**
OU3MW-07I	OU-3 Community Road	0.893	--	0.999	0.93	0.631	0.578	1.04	0.545	**0.355**	**0.499**	**0.70**
OU3MW-07I2	OU-3 Community Road	0.482	--	0.994	1.02	0.523	0.410	0.949	0.545	**0.275**	**0.480**	**0.61**
OU3MW-07I3	OU-3 Community Road	0.201	--	0.761	0.918	0.509	0.631	0.562	0.461	**NS**	**0.399**	**0.54**
OU3MW-07I4	OU-3 Community Road	0.235	--	0.301	0.661	0.36	0.750	0.447	0.393	**NS**	**0.378**	**0.49**
OU3MW-19S	87 Community Road	0.267	--	0.251	0.485	0.425	0.717	0.512	0.588	**0.448**	**0.566**	**0.56**
OU3MW-19I	87 Community Road	0.529	--	0.525	0.338	0.255	0.245	0.550	0.979	**0.384**	**0.384**	**0.51**
OU3MW-19I2	87 Community Road	0.751	--	0.265	0.305	0.511	0.283	0.367	0.463	**0.350**	**0.370**	**0.41**
OU3MW-20S	87 Community Road	3.150	--	0.733	0.295	1.44	2.21	1.76	1.52	**0.313**	**0.645**	**1.73**
OU3MW-20I	87 Community Road	1.080	--	0.533	0.525	0.621	0.945	0.918	0.68	**0.599**	**0.671**	**0.79**
OU3MW-20I2	87 Community Road	0.234	--	0.208	0.53	0.312	0.452	0.572	0.328	**0.355**	**0.401**	**0.42**
Dissolved Oxygen (mg/L)												
IO-10	OU-3 Community Road	--	--	--	29	22	13	16	--	**20.4**	**17.7**	**17.00**
MW-34S	OU-3 Community Road	--	--	--	1	9	4	5	--	**0.2**	**1.1**	**6.00**
MW-34I	OU-3 Community Road	--	--	--	33	32	15	23	--	**0.9**	**17.3**	**23.33**
MW-34D	OU-3 Community Road	--	--	--	22	30	13	19	--	**0.2**	**7.5**	**20.67**
MW-46WR	OU-3 Community Road	--	--	--	18	17	21	29	--	**8.7**	**2.4**	**22.33**
MW-70/70S	OU-3 Community Road	--	--	--	18	18	15	20	--	**21.6**	**2.7**	**17.67**
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	**3.0**	**20.0**	**29.75**
OU3MW-07I	OU-3 Community Road	24.0	--	25.0	16	29	38	22	27	**3.2**	**27.8**	**29.00**
OU3MW-07I2	OU-3 Community Road	35.0	--	21.0	16	33	37	23	26	**3.3**	**23.2**	**29.75**
OU3MW-07I3	OU-3 Community Road	7.0	--	17.0	0	15	24	26	19	**NS**	**23.0**	**21.00**
OU3MW-07I4	OU-3 Community Road	0.0	--	0.0	0	0	0	0	0	**NS**	**1.0**	**0.00**

Appendix F - Table F-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		Baseline Average	Historical Average	Q3 2019 - Q3 2020 Average
		Nov-18	Dec-18	Q1	Q2	Q3	Q4	Q1	Q3			
OU3MW-19S	87 Community Road	3.0	--	2.0	2	16	13	3	17	**2.0**	**3.0**	**12.25**
OU3MW-19I	87 Community Road	16.0	--	25.0	30	28	31	19	29	**4.0**	**20.9**	**26.75**
OU3MW-19I2	87 Community Road	2.0	--	11.0	10	14	2	6	5	**2.0**	**6.0**	**6.75**
OU3MW-20S	87 Community Road	15.0	--	13.0	34	19	27	11	21	**15.0**	**23.6**	**19.50**
OU3MW-20I	87 Community Road	38.0	--	24.0	25	29	11	19	32	**2.0**	**25.2**	**22.75**
OU3MW-20I2	87 Community Road	2.0	--	1.0	22	2	0	2	1	**2.0**	**4.9**	**1.25**
Temperature (degrees Celcius)												
IO-10	OU-3 Community Road	--	--	--	15.25	22.79	15.10	12.11	--	**14.9**	**15.5**	**16.67**
MW-34S	OU-3 Community Road	--	--	--	13.51	19.57	15.27	7.62	--	**13.9**	**14.9**	**14.15**
MW-34I	OU-3 Community Road	--	--	--	14.45	17.25	15.04	10.91	--	**14.3**	**14.8**	**14.40**
MW-34D	OU-3 Community Road	--	--	--	13.86	15.59	13.52	11.93	--	**14.3**	**14.6**	**13.68**
MW-46WR	OU-3 Community Road	--	--	--	17.63	22.23	13.98	8.87	--	**15.5**	**17.0**	**15.03**
MW-70/70S	OU-3 Community Road	--	--	--	13.78	21.45	13.18	9.05	--	**13.8**	**15.1**	**14.56**
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	**9.7**	**14.9**	**16.23**
OU3MW-07I	OU-3 Community Road	17.27	--	10.98	13.75	16.29	15.86	10.96	16.4	**11.1**	**15.1**	**14.88**
OU3MW-07I2	OU-3 Community Road	14.50	--	11.94	14.59	19.42	15.14	11.28	16.24	**12.0**	**14.7**	**15.52**
OU3MW-07I3	OU-3 Community Road	14.65	--	6.68	14.22	16.57	14.92	12.29	15.39	**NS**	**15.0**	**14.79**
OU3MW-07I4	OU-3 Community Road	13.70	--	7.39	14.77	17.18	14.47	12.38	15.93	**NS**	**14.3**	**14.99**
OU3MW-19S	87 Community Road	14.72	--	7.23	11.95	18.44	16.83	8.92	21.47	**18.0**	**14.0**	**16.42**
OU3MW-19I	87 Community Road	14.97	--	10.24	12.91	15.42	15.64	11.53	19.8	**15.7**	**14.5**	**15.60**
OU3MW-19I2	87 Community Road	14.03	--	11.41	13.29	16.39	15.51	11.66	19.13	**14.9**	**14.2**	**15.67**
OU3MW-20S	87 Community Road	16.55	--	8.40	11.47	19.10	18.47	8.90	19.73	**19.2**	**14.8**	**16.55**
OU3MW-20I	87 Community Road	15.75	--	11.79	12.37	22.16	15.04	11.26	19.51	**16.7**	**14.9**	**16.99**
OU3MW-20I2	87 Community Road	14.81	--	11.89	13.02	17.14	14.13	10.28	16.73	**16.1**	**14.4**	**14.57**
Oxidation Reduction Potential (mV)												
IO-10	OU-3 Community Road	--	--	--	164	167	161	223	--	**47**	**95**	**184**
MW-34S	OU-3 Community Road	--	--	--	-14	54	23	71	--	**-117**	**-17**	**49**
MW-34I	OU-3 Community Road	--	--	--	184	193	159	225	--	**-78**	**116**	**192**
MW-34D	OU-3 Community Road	--	--	--	202	279	187	209	--	**86**	**108**	**225**
MW-46WR	OU-3 Community Road	--	--	--	60	71	106	301	--	**-65**	**-34**	**159**
MW-70/70S	OU-3 Community Road	--	--	--	62	90	74	224	--	**-8**	**-34**	**129**
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	**-139**	**105**	**148**
OU3MW-07I	OU-3 Community Road	365	--	236	293	247	366	224	266	**-56**	**193**	**276**
OU3MW-07I2	OU-3 Community Road	250	--	257	317	203	368	186	287	**18**	**179**	**261**
OU3MW-07I3	OU-3 Community Road	331	--	243	332	204	237	314	269	**NS**	**226**	**256**
OU3MW-07I4	OU-3 Community Road	186	--	188	281	198	210	285	228	**NS**	**175**	**230**
OU3MW-19S	87 Community Road	82	--	39	88	30	30	46	75	**-60**	**-3**	**45**
OU3MW-19I	87 Community Road	284	--	219	170	272	319	209	198	**-92**	**161**	**250**
OU3MW-19I2	87 Community Road	243	--	253	186	209	188	267	231	**88**	**172**	**224**
OU3MW-20S	87 Community Road	236	--	226	220	226	252	243	230	**97**	**180**	**238**
OU3MW-20I	87 Community Road	275	--	217	193	215	172	245	222	**-112**	**176**	**214**
OU3MW-20I2	87 Community Road	188	--	187	228	233	181	186	223	**80**	**173**	**206**

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.

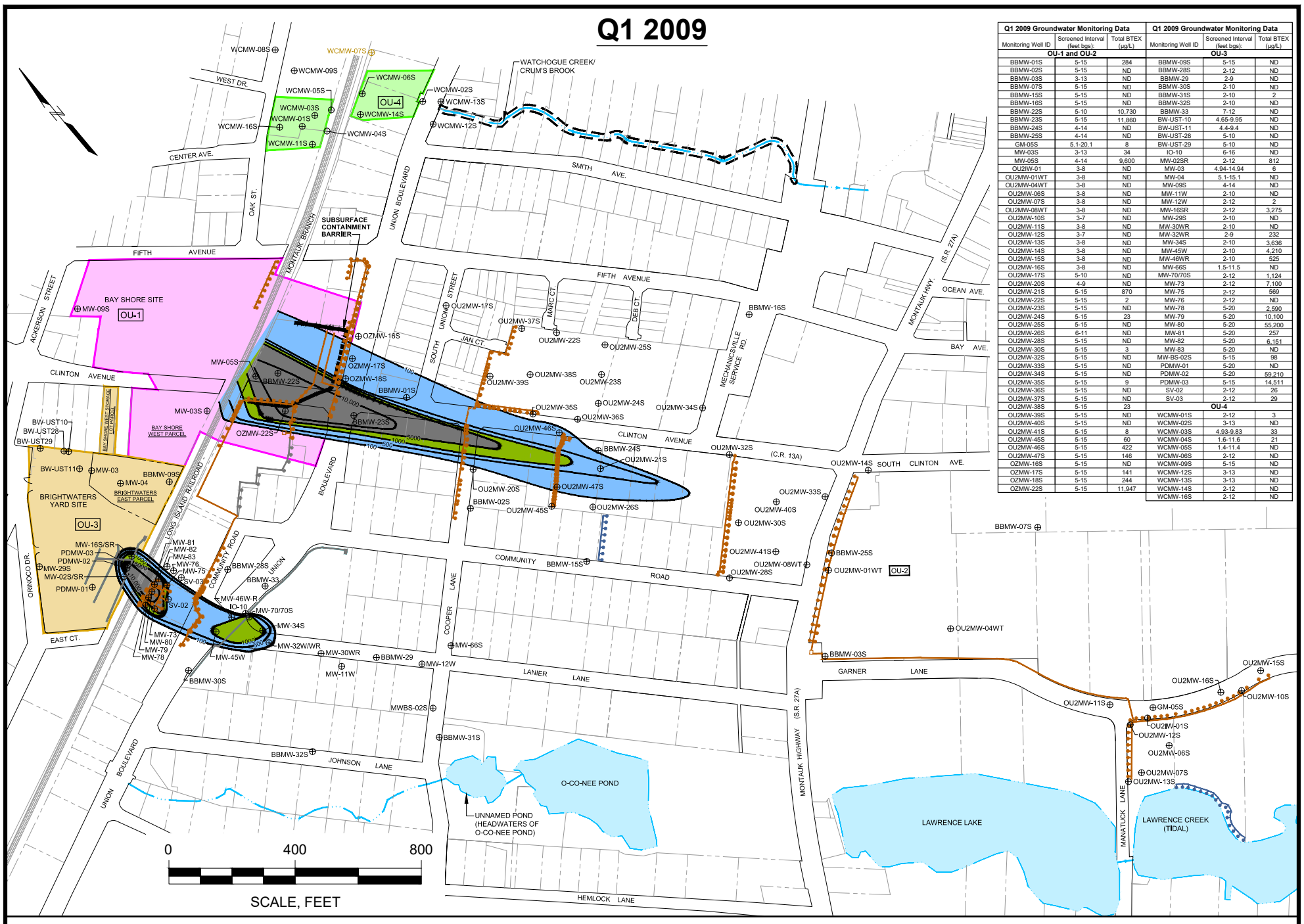
Appendix F - Notes
Summary of Groundwater Parameter Data
OU-1, OU-2, & OU-3 Oxygen Injection Systems
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Notes:

Baseline Average - average of all parameter data measured before system start up.
Historical Average - average of all parameter data measured after system start up but not including the current quarter.
Current Average - average of all parameter data measured in the current quarter.
1 - Well was sampled without taking parameters due to possible impacts.
ER - Value not accurate due to sensor error.
mS/cm - milli-Siemens per centimeter
mg/L - milligrams/Liter
mV - milli-volt
SU - standard unit
-- Not Measured
NS - Not Sampled
Beginning in July 2009, all parameter values were taken from latest date sampled
Parameter data prior to January 2009 can be found in previous Quarterly OM&M reports. Historical averages have been updated in this table and include all data prior to 2009.

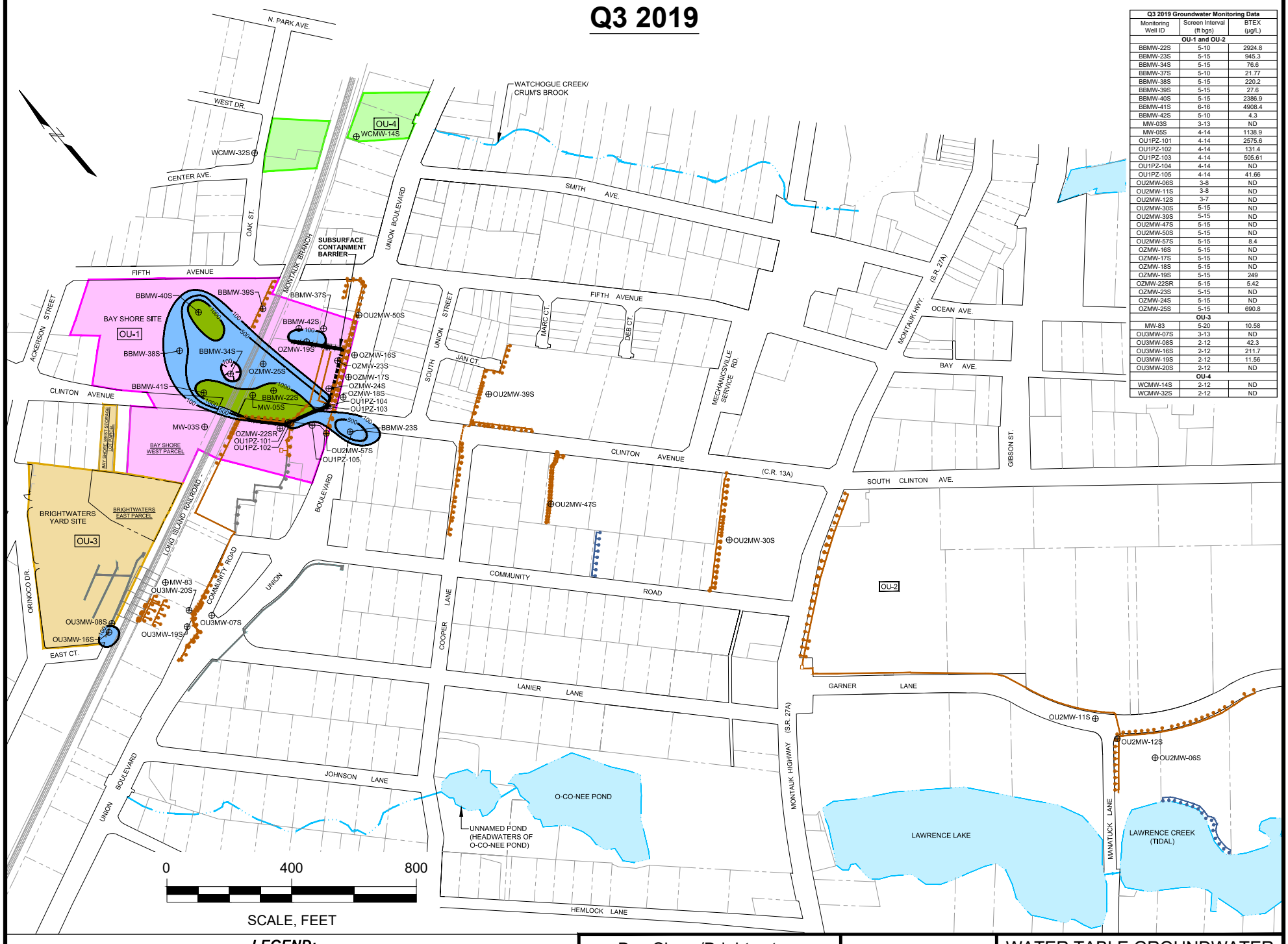
Q1 2009

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



Q3 2019

Q3 2019 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	2924.8
BBMW-23S	5-15	945.3
BBMW-34S	5-15	76.6
BBMW-37S	5-10	21.77
BBMW-38S	5-15	220.2
BBMW-39S	5-15	27.6
BBMW-40S	5-15	2386.9
BBMW-41S	6-16	4908.4
BBMW-42S	5-10	4.3
MW-03S	3-13	ND
MW-05S	4-14	1138.9
OU1PZ-101	4-14	2575.6
OU1PZ-102	4-14	131.4
OU1PZ-103	4-14	505.61
OU1PZ-104	4-14	ND
OU1PZ-105	4-14	41.66
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	8.4
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	249
OZMW-22SR	5-15	5.42
OZMW-23S	5-15	ND
OZMW-24S	5-15	ND
OZMW-25S	5-15	690.8
OU-3		
MW-83	5-20	10.58
OU3MW-07S	3-13	ND
OU3MW-08S	2-12	42.3
OU3MW-16S	2-12	211.7
OU3MW-19S	2-12	11.56
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).

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

nationalgrid

GEI Consultants

Project 093180

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

January 2020 — Fig. 3

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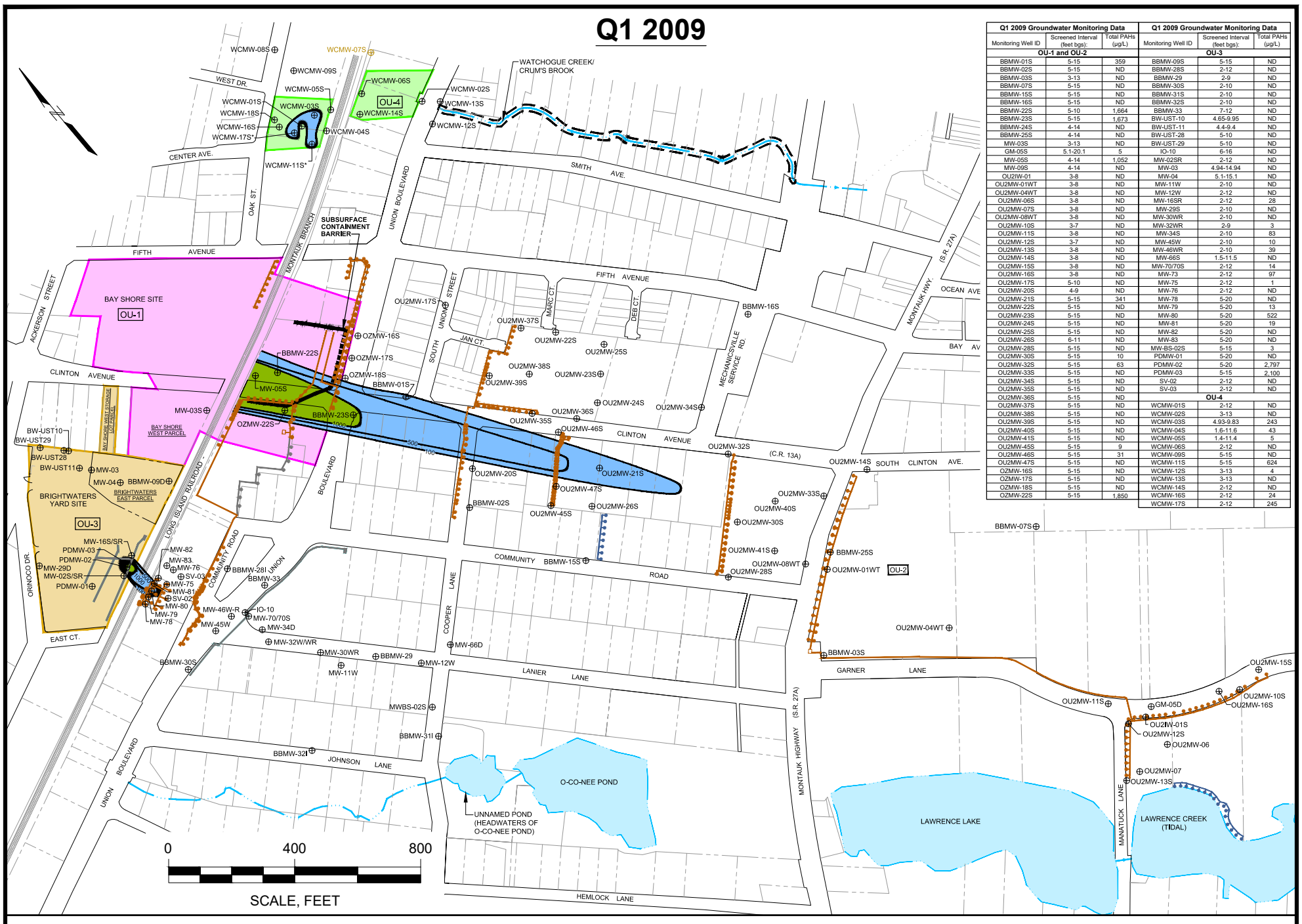
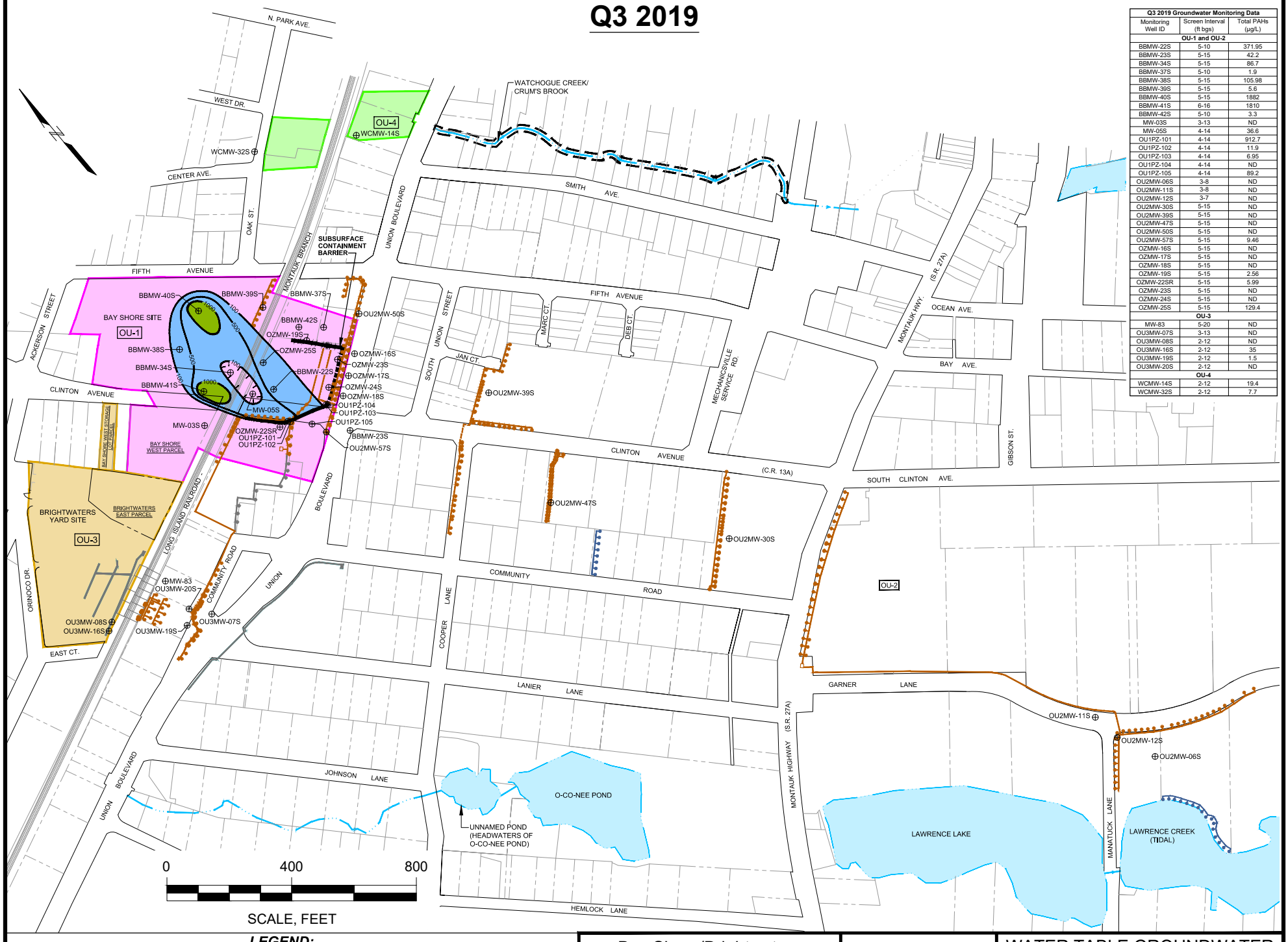
Q1 2009

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-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



Q3 2019

Q3 2019 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	371.95
BBMW-23S	5-15	42.2
BBMW-34S	5-15	86.7
BBMW-37S	5-10	1.9
BBMW-38S	5-15	105.98
BBMW-39S	5-15	5.6
BBMW-40S	5-15	1882
BBMW-41S	6-16	1810
BBMW-42S	5-10	3.3
MW-03S	3-13	ND
MW-05S	4-14	36.6
OU1PZ-101	4-14	912.7
OU1PZ-102	4-14	11.9
OU1PZ-103	4-14	6.95
OU1PZ-104	4-14	ND
OU1PZ-105	4-14	89.2
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	9.46
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	2.56
OZMW-22SR	5-15	5.99
OZMW-23S	5-15	ND
OZMW-24S	5-15	ND
OZMW-25S	5-15	129.4
OU-3		
MW-83	5-20	ND
OU3MW-07S	3-13	ND
OU3MW-08S	2-12	ND
OU3MW-16S	2-12	35
OU3MW-19S	2-12	1.5
OU3MW-20S	2-12	ND
OU-4		
WCMW-14S	2-12	19.4
WCMW-32S	2-12	7.7



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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Former MGP Site
Bay Shore, New York

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

January 2020 — Fig. 4

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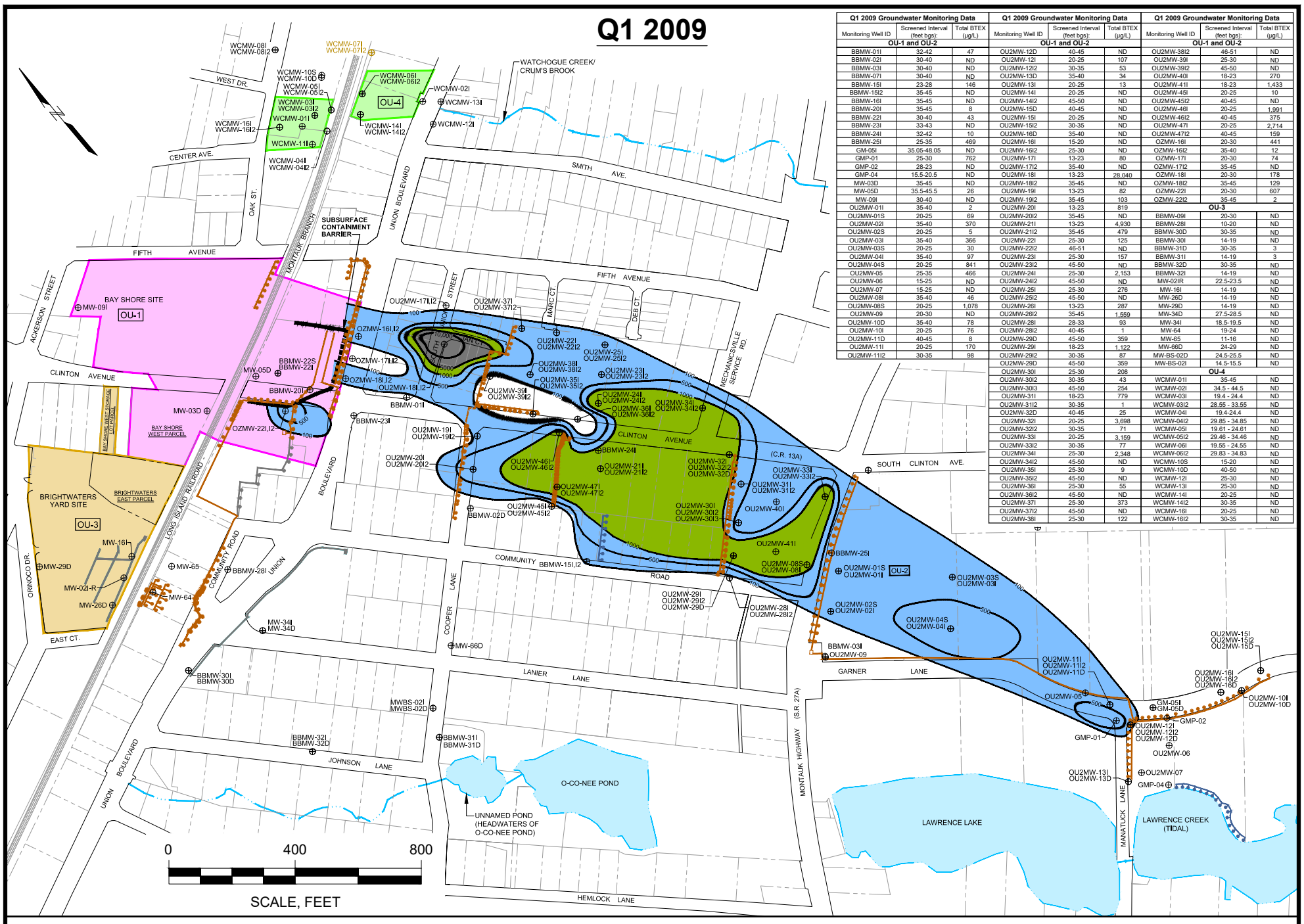
Q1 2009

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-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

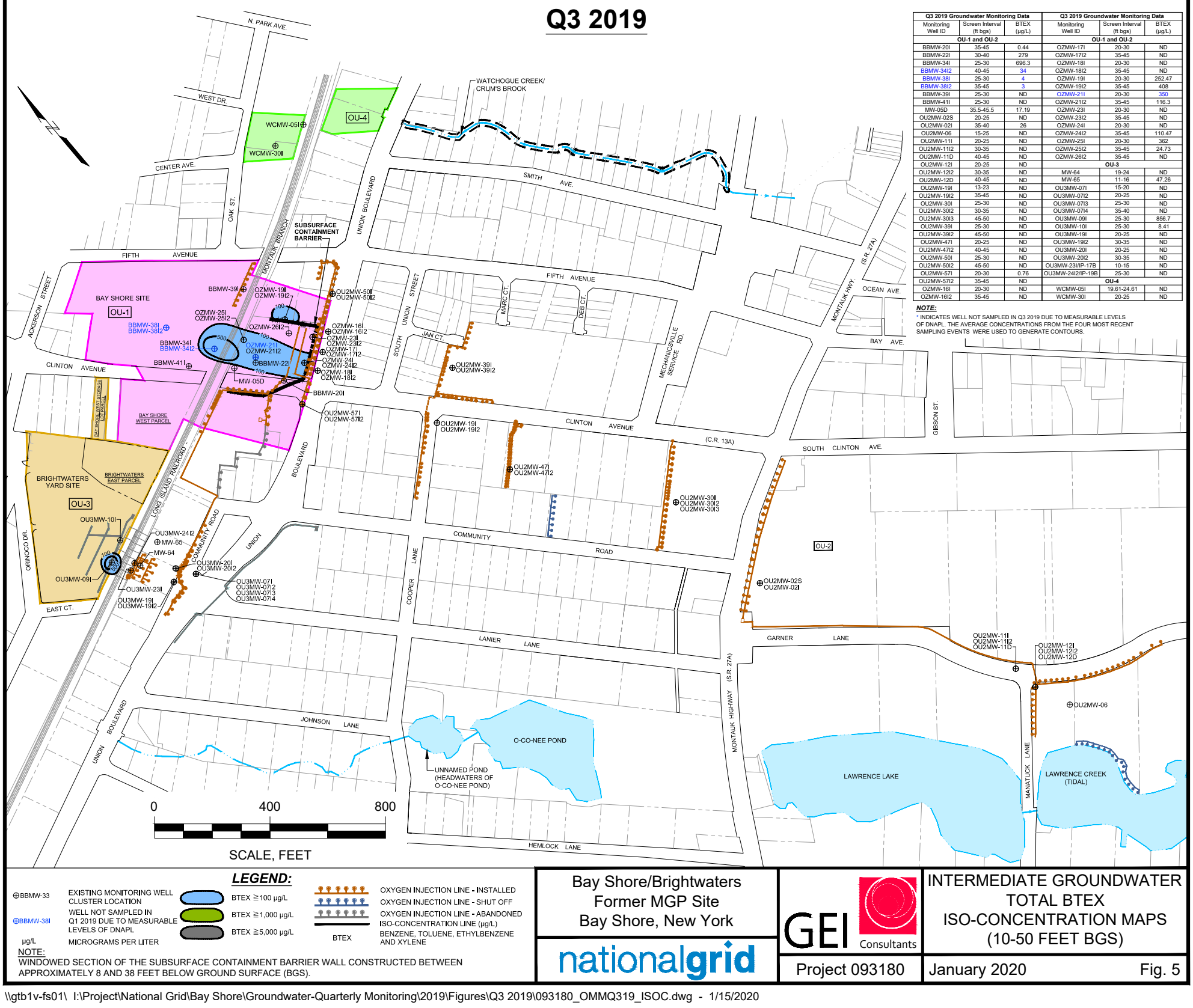


Q3 2019

Q3 2019 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-20I	35-45	0.44
BBMW-22I	30-40	279
BBMW-34I	25-30	696.3
BBMW-34I2	40-45	34
BBMW-38I	25-30	4
BBMW-38I2	35-45	3
BBMW-39I	25-30	ND
BBMW-41I	25-30	ND
MW-05D	35.5-45.5	17.19
OU2MW-02S	20-25	ND
OU2MW-02I	35-40	26
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	0.76
OU2MW-57I2	35-45	ND
OZMW-16I	20-30	ND
OZMW-16I2	35-45	ND

Q3 2019 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
OZMW-17I	20-30	ND
OZMW-17I2	35-45	ND
OZMW-18I	20-30	ND
OZMW-18I2	35-45	ND
OZMW-19I	20-30	252.47
OZMW-19I2	35-45	408
OZMW-21I	20-30	350
OZMW-21I2	35-45	116.3
OZMW-23I	20-30	ND
OZMW-23I2	35-45	ND
OZMW-24I	20-30	ND
OZMW-24I2	35-45	110.47
OZMW-25I	20-30	362
OZMW-25I2	35-45	24.73
OZMW-26I2	35-45	ND
OU-3		
MW-64	19-24	ND
MW-65	11-16	47.26
OU3MW-07I	15-20	ND
OU3MW-07I2	20-25	ND
OU3MW-07I3	25-30	ND
OU3MW-07I4	35-40	ND
OU3MW-09I	25-30	856.7
OU3MW-10I	25-30	8.41
OU3MW-19I	20-25	ND
OU3MW-19I2	30-35	ND
OU3MW-20I	20-25	ND
OU3MW-20I2	30-35	ND
OU3MW-23I/IP-17B	10-15	ND
OU3MW-24I2/IP-19B	25-30	ND
OU-4		
WCMW-05I	19.61-24.61	ND
WCMW-30I	20-25	ND

NOTE:
* INDICATES WELL NOT SAMPLED IN Q3 2019 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)

January 2020 Fig. 5

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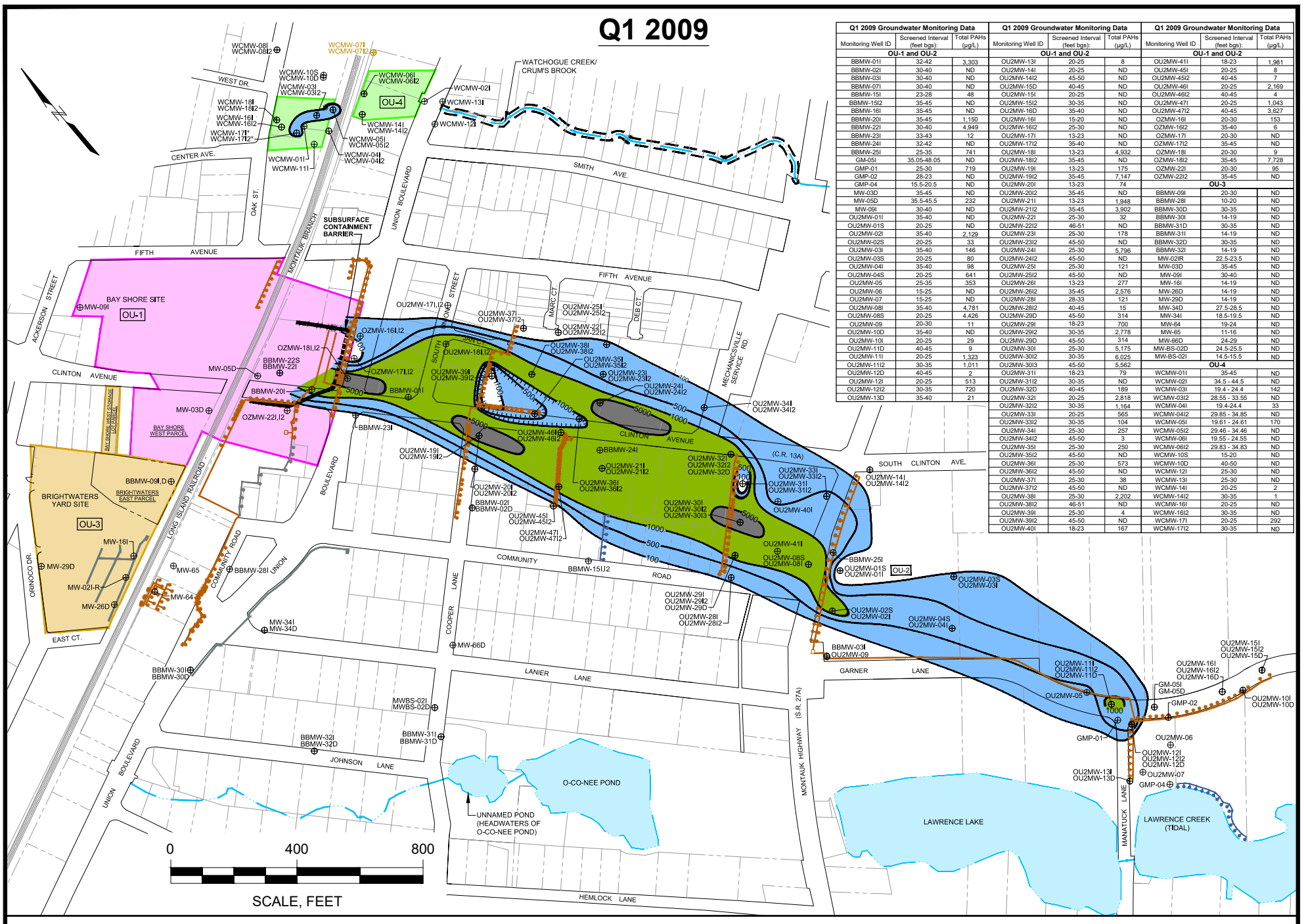
Q1 2009

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



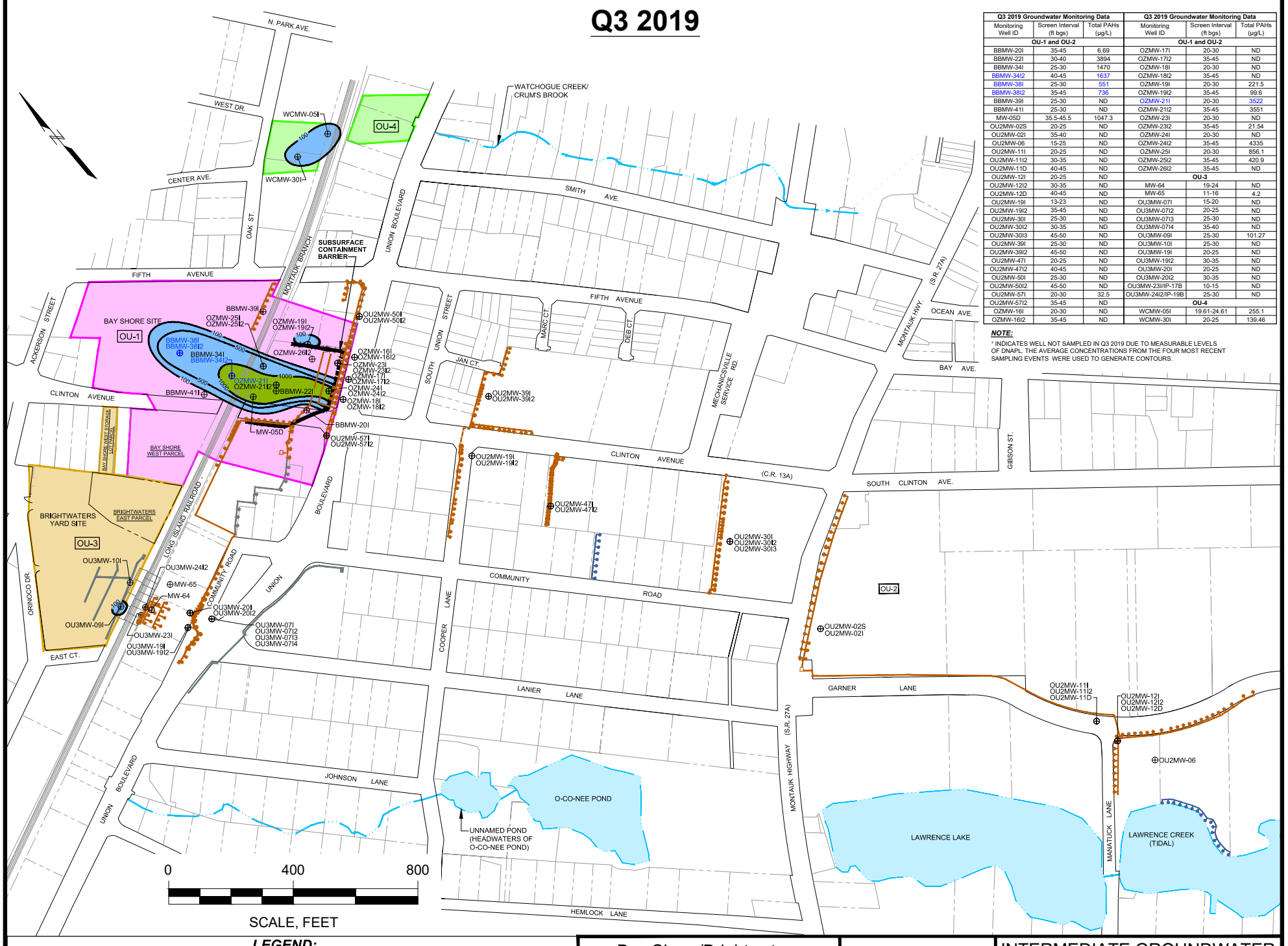
Q3 2019

Q3 2019 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-20I	35-45	6.69
BBMW-22I	30-40	3894
BBMW-34I	25-30	1470
BBMW-34I2	40-45	1637
BBMW-38I	25-30	551
BBMW-38I2	35-45	736
BBMW-39I	25-30	ND
BBMW-41I	25-30	ND
MW-05D	35.5-45.5	1047.3
OU2MW-02S	20-25	ND
OU2MW-02I	35-40	ND
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	32.5
OU2MW-57I2	35-45	ND
OZMW-16I	20-30	ND
OZMW-16I2	35-45	ND

Q3 2019 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
OZMW-17I	20-30	ND
OZMW-17I2	35-45	ND
OZMW-18I	20-30	ND
OZMW-18I2	35-45	ND
OZMW-19I	20-30	221.5
OZMW-19I2	35-45	99.6
OZMW-21I	20-30	3522
OZMW-21I2	35-45	3551
OZMW-23I	20-30	ND
OZMW-23I2	35-45	21.54
OZMW-24I	20-30	ND
OZMW-24I2	35-45	4335
OZMW-25I	20-30	856.1
OZMW-25I2	35-45	420.9
OZMW-26I2	35-45	ND
OU-3		
MW-64	19-24	ND
MW-65	11-16	4.2
OU3MW-07I	15-20	ND
OU3MW-07I2	20-25	ND
OU3MW-07I3	25-30	ND
OU3MW-07I4	35-40	ND
OU3MW-09I	25-30	101.27
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-23I/IP-17B	10-15	ND
OU3MW-24I2/IP-19B	25-30	ND
OU-4		
WCMW-05I	19.61-24.61	255.1
WCMW-30I	20-25	139.46

NOTE:

* INDICATES WELL NOT SAMPLED IN Q3 2019 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
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS
- 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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INTERMEDIATE GROUNDWATER TOTAL PAH ISO-CONCENTRATION MAPS (10-50 FEET BGS)

January 2020 — 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

Q3 2019

Q3 2019 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	3.7
BBMW-05D	64-74	981
OU2MW-02I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-19D	65-70	5.19
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-39D	70-75	0.45
OU2MW-42D	60-65	280.6
OU2MW-43D	65-70	58.1
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OZMW-16D	55-65	ND
OZMW-17D	53-63	27.1
OZMW-18D	55-65	91.71
OZMW-19D	55-65	ND
OZMW-23D	55-65	ND
OZMW-24D	55-65	722

0 400 800

SCALE, FEET

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 093180 | January 2020 | 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

0 400 800

SCALE, FEET

Q3 2019

Q3 2019 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	8.1
BBMW-05D	64-74	1763
OU2MW-02I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-19D	65-70	8.2
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-39D	70-75	ND
OU2MW-42D	60-65	642
OU2MW-43D	65-70	69.97
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OZMW-16D	55-65	ND
OZMW-17D	53-63	459.9
OZMW-18D	55-65	706.2
OZMW-19D	55-65	ND
OZMW-23D	55-65	ND
OZMW-24D	55-65	3192

0 400 800

SCALE, FEET

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 093180 | January 2020 | Fig. 8

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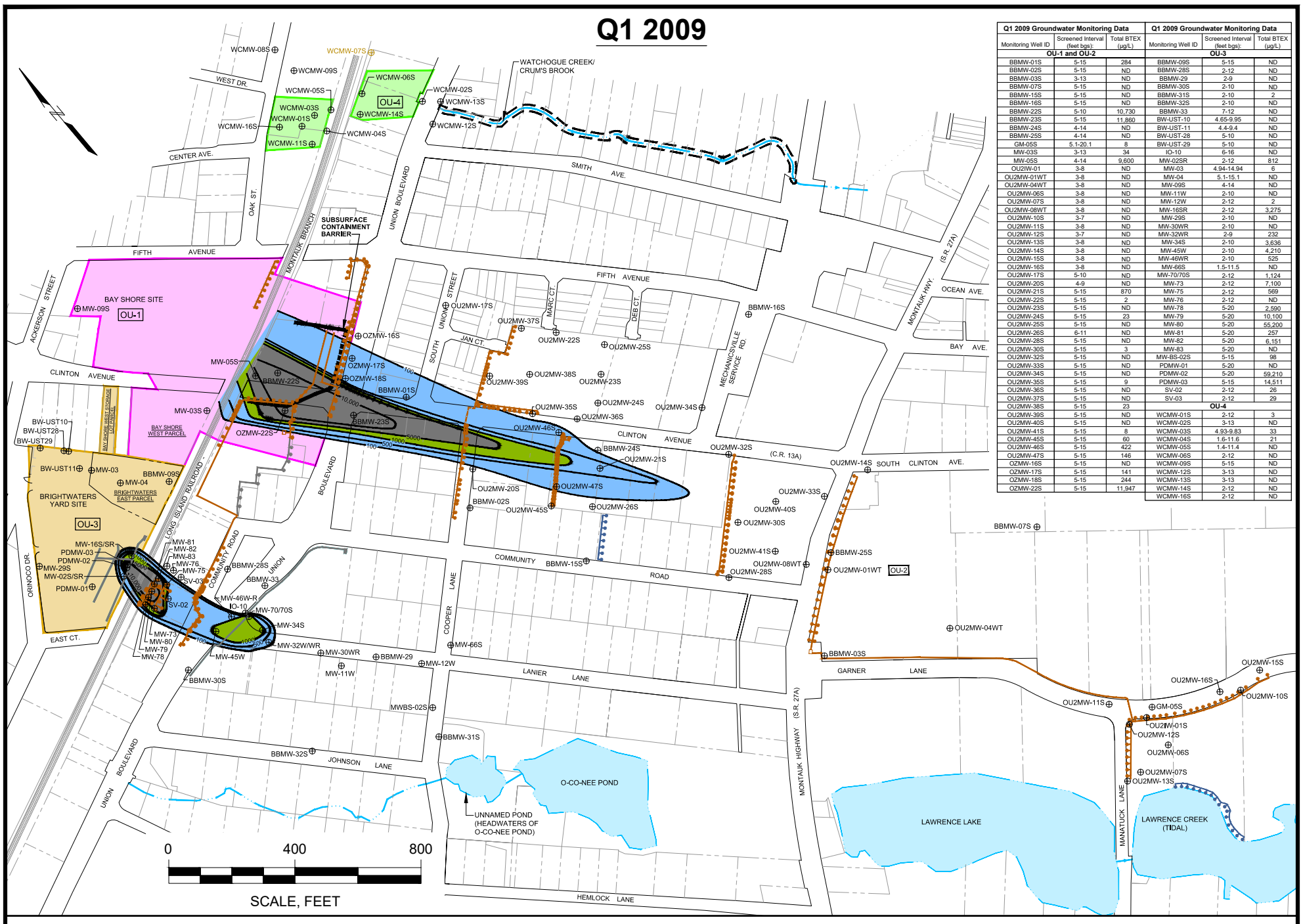
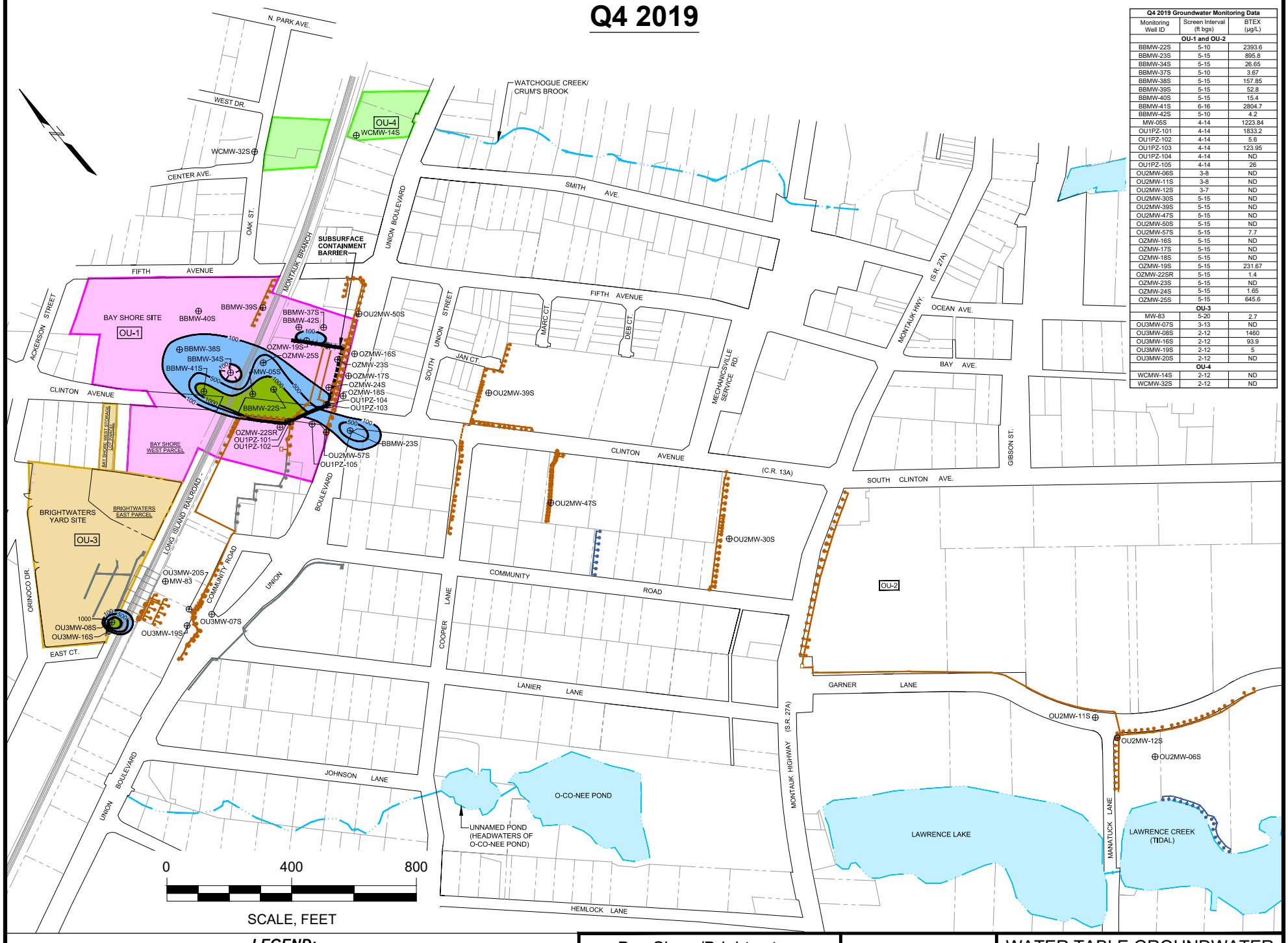
Q1 2009

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



Q4 2019

Q4 2019 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	2393.6
BBMW-23S	5-15	895.8
BBMW-34S	5-15	26.65
BBMW-37S	5-10	3.67
BBMW-38S	5-15	157.85
BBMW-39S	5-15	52.8
BBMW-40S	5-15	15.4
BBMW-41S	6-16	2804.7
BBMW-42S	5-10	4.2
MW-05S	4-14	1223.84
OU1PZ-101	4-14	1833.2
OU1PZ-102	4-14	5.6
OU1PZ-103	4-14	123.95
OU1PZ-104	4-14	ND
OU1PZ-105	4-14	26
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	7.7
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	231.67
OZMW-22SR	5-15	1.4
OZMW-23S	5-15	ND
OZMW-24S	5-15	1.65
OZMW-25S	5-15	645.6
OU-3		
MW-83	5-20	2.7
OU3MW-07S	3-13	ND
OU3MW-08S	2-12	1460
OU3MW-16S	2-12	93.9
OU3MW-19S	2-12	5
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).

Bay Shore/Brightwaters
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WATER TABLE GROUNDWATER
TOTAL BTEX
ISO-CONCENTRATION MAPS
(0-10 FEET BGS)

Project 1905774 | April 2020 | Fig. 3

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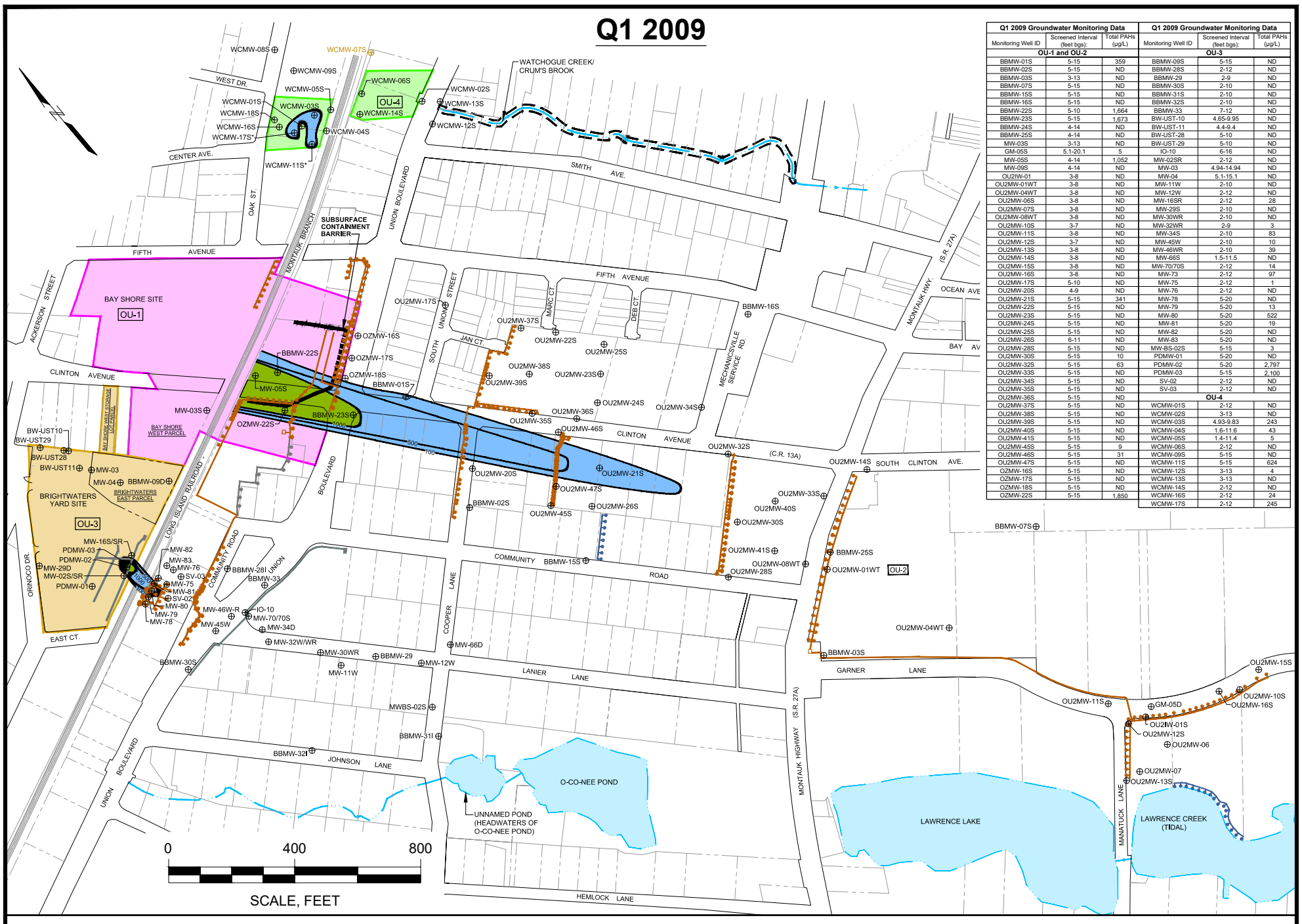
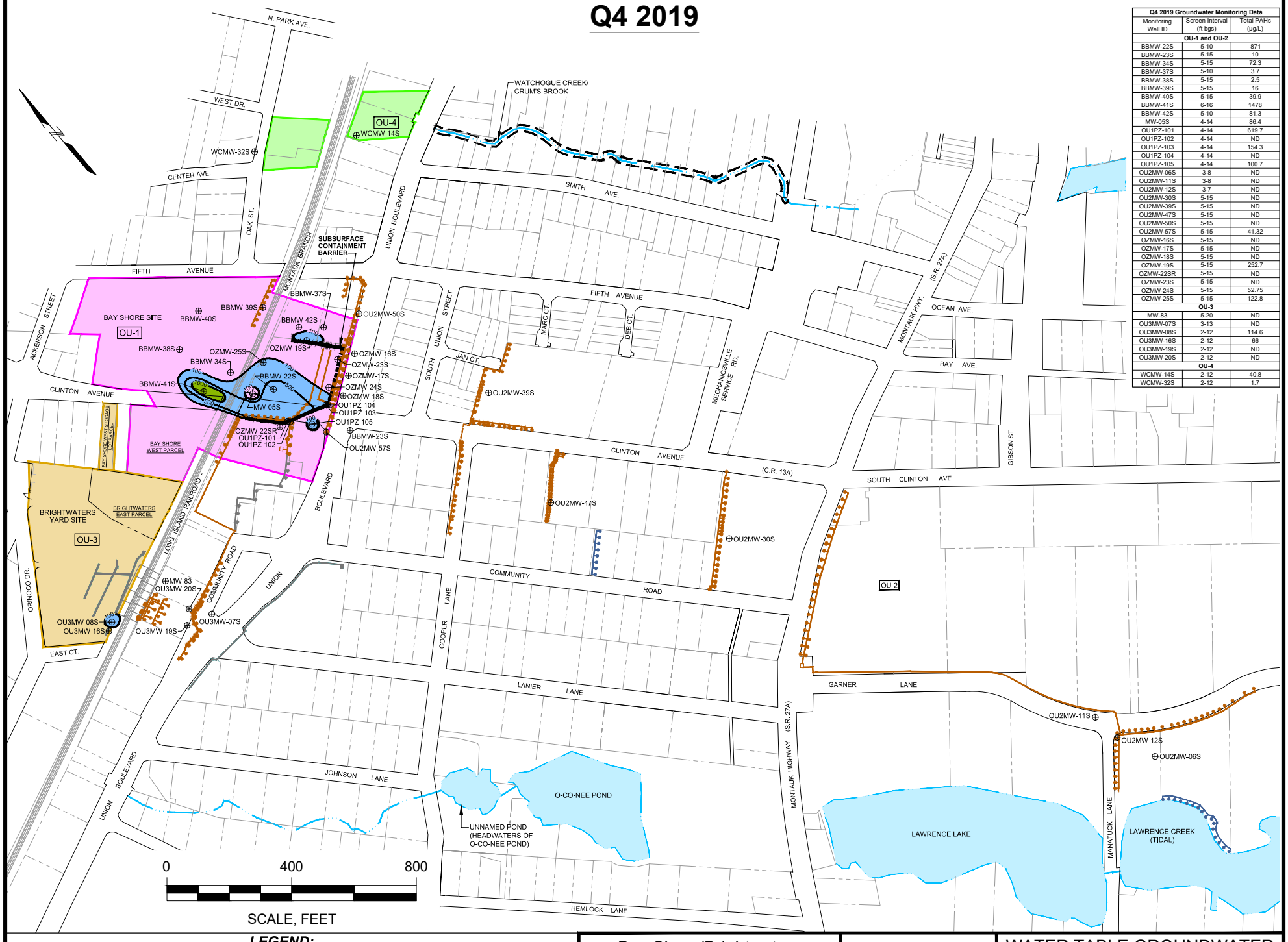
Q1 2009

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-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



Q4 2019

Q4 2019 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	871
BBMW-23S	5-15	10
BBMW-34S	5-15	72.3
BBMW-37S	5-10	3.7
BBMW-38S	5-15	2.5
BBMW-39S	5-15	16
BBMW-40S	5-15	39.9
BBMW-41S	6-16	1478
BBMW-42S	5-10	81.3
MW-05S	4-14	86.4
OU1PZ-101	4-14	619.7
OU1PZ-102	4-14	ND
OU1PZ-103	4-14	154.3
OU1PZ-104	4-14	ND
OU1PZ-105	4-14	100.7
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	41.32
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	252.7
OZMW-22SR	5-15	ND
OZMW-23S	5-15	ND
OZMW-24S	5-15	52.75
OZMW-25S	5-15	122.8
OU-3		
MW-83	5-20	ND
OU3MW-07S	3-13	ND
OU3MW-08S	2-12	114.6
OU3MW-16S	2-12	66
OU3MW-19S	2-12	ND
OU3MW-20S	2-12	ND
OU-4		
WCMW-14S	2-12	40.8
WCMW-32S	2-12	1.7



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)

Project 1905774 | April 2020 | Fig. 4

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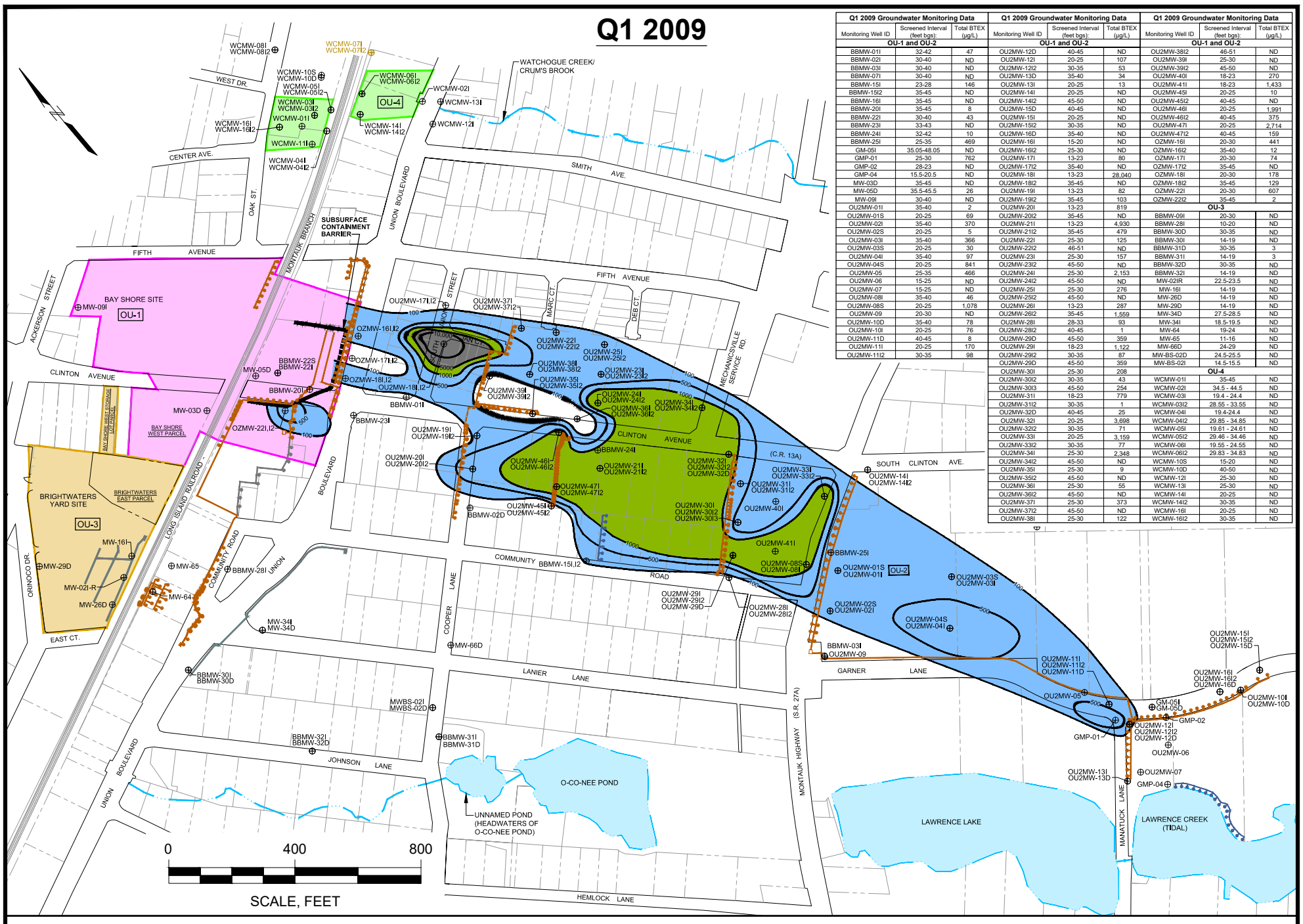
Q1 2009

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-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	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



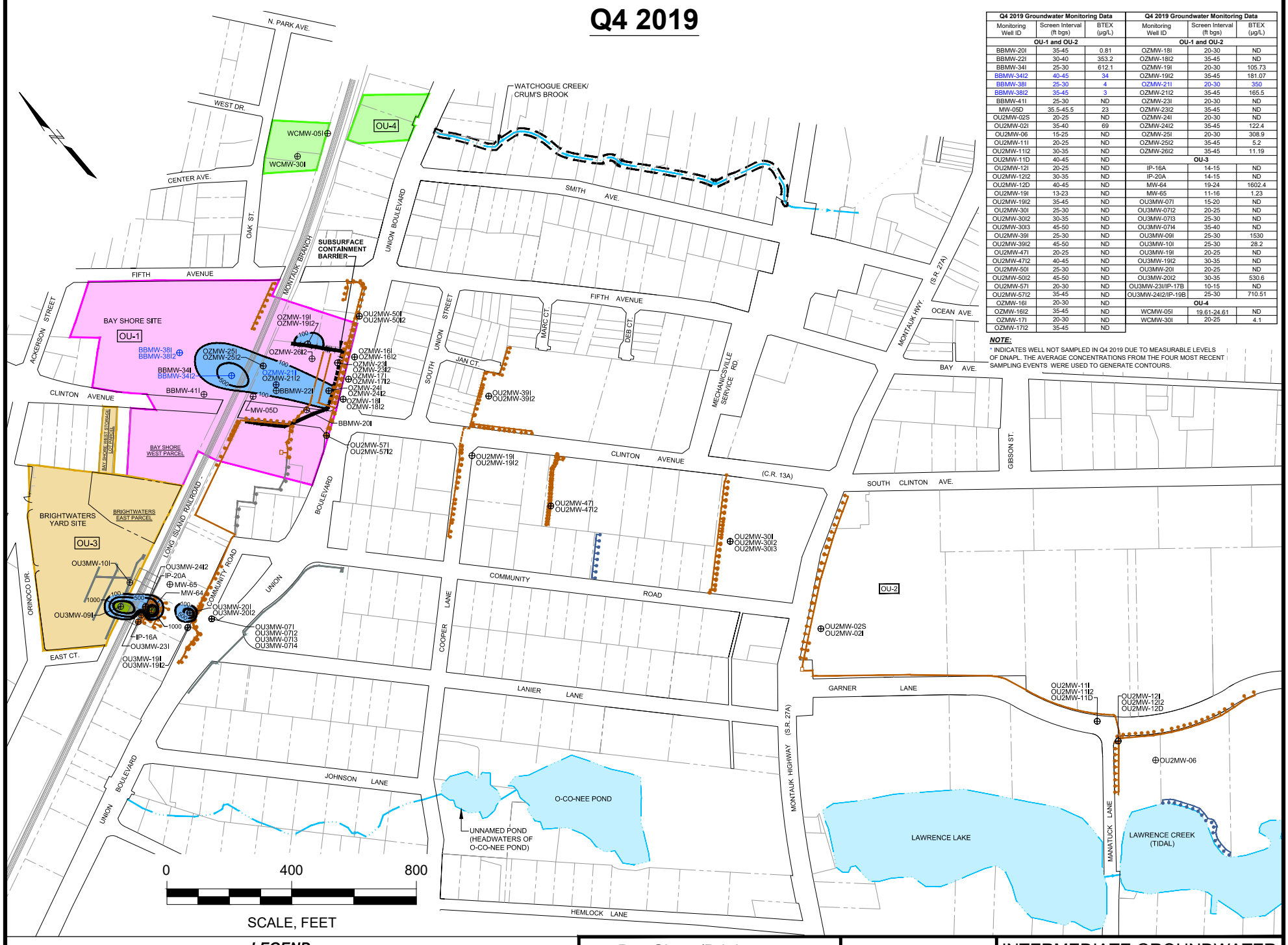
Q4 2019

Q4 2019 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-20I	35-45	0.81
BBMW-22I	30-40	353.2
BBMW-34I	25-30	612.1
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	23
OU2MW-02S	20-25	ND
OU2MW-02I	35-40	69
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	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

Q4 2019 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
OZMW-18I	20-30	ND
OZMW-18I2	35-45	ND
OZMW-19I	20-30	105.73
OZMW-19I2	35-45	181.07
OZMW-21I	20-30	350
OZMW-21I2	35-45	165.5
OZMW-23I	20-30	ND
OZMW-23I2	35-45	ND
OZMW-24I	20-30	ND
OZMW-24I2	35-45	122.4
OZMW-25I	20-30	308.9
OZMW-25I2	35-45	5.2
OZMW-26I2	35-45	11.19
OU-3		
IP-16A	14-15	ND
IP-20A	14-15	ND
MW-64	19-24	1602.4
MW-65	11-16	1.23
OU3MW-07I	15-20	ND
OU3MW-07I2	20-25	ND
OU3MW-07I3	25-30	ND
OU3MW-07I4	35-40	ND
OU3MW-09I	25-30	1530
OU3MW-10I	25-30	28.2
OU3MW-19I	20-25	ND
OU3MW-19I2	30-35	ND
OU3MW-20I	20-25	ND
OU3MW-20I2	30-35	530.6
OU3MW-23I/IP-17B	10-15	ND
OU3MW-24I2/IP-19B	25-30	710.51
OU-4		
WCMW-05I	19.61-24.61	ND
WCMW-30I	20-25	4.1

NOTE:

* INDICATES WELL NOT SAMPLED IN Q4 2019 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)

April 2020 Fig. 5

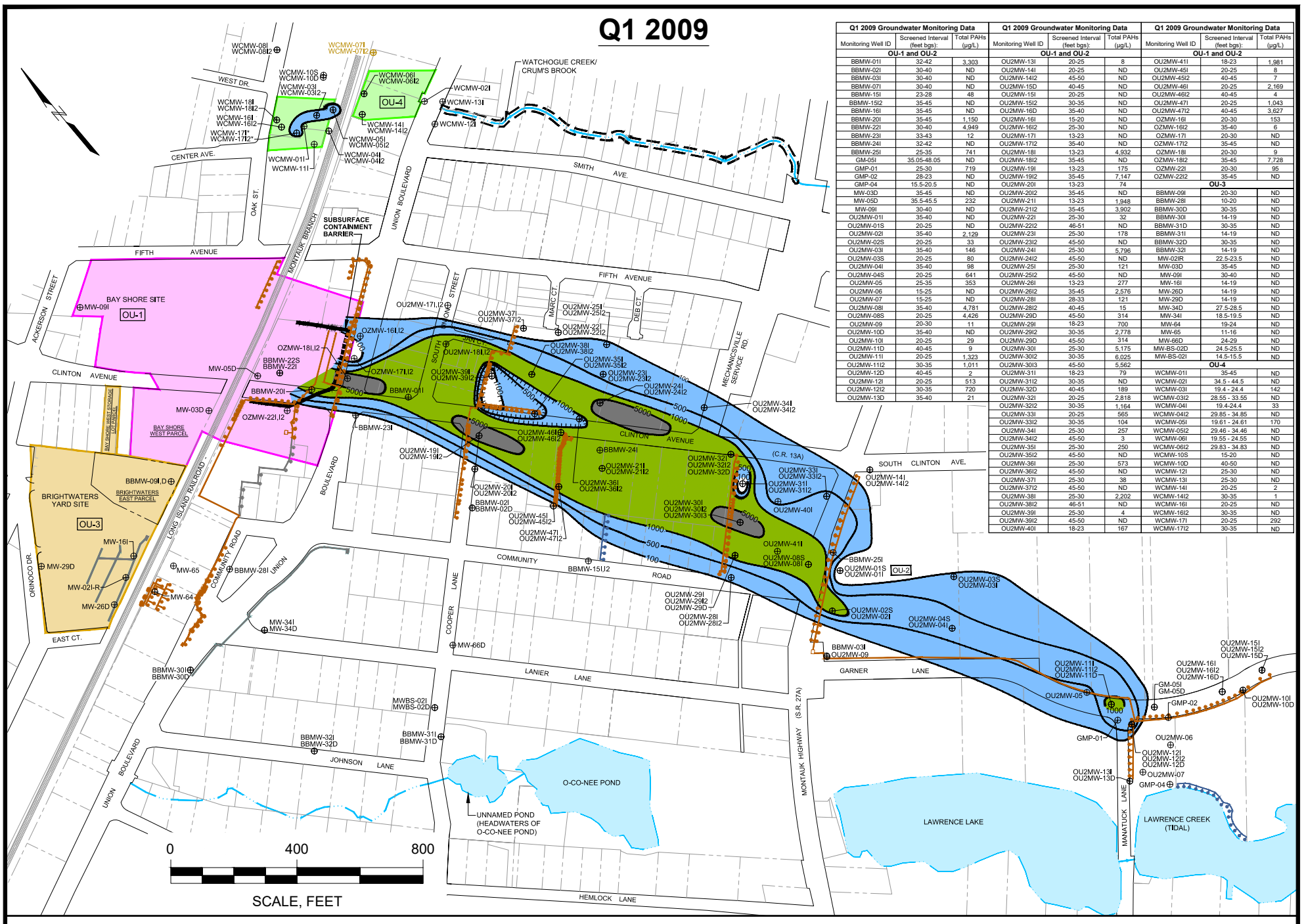
\\GTB2L-PHERI I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2019\Figures\Q4_2019\1905774_OMMQ419_ISOC.dwg - 4/13/2020

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



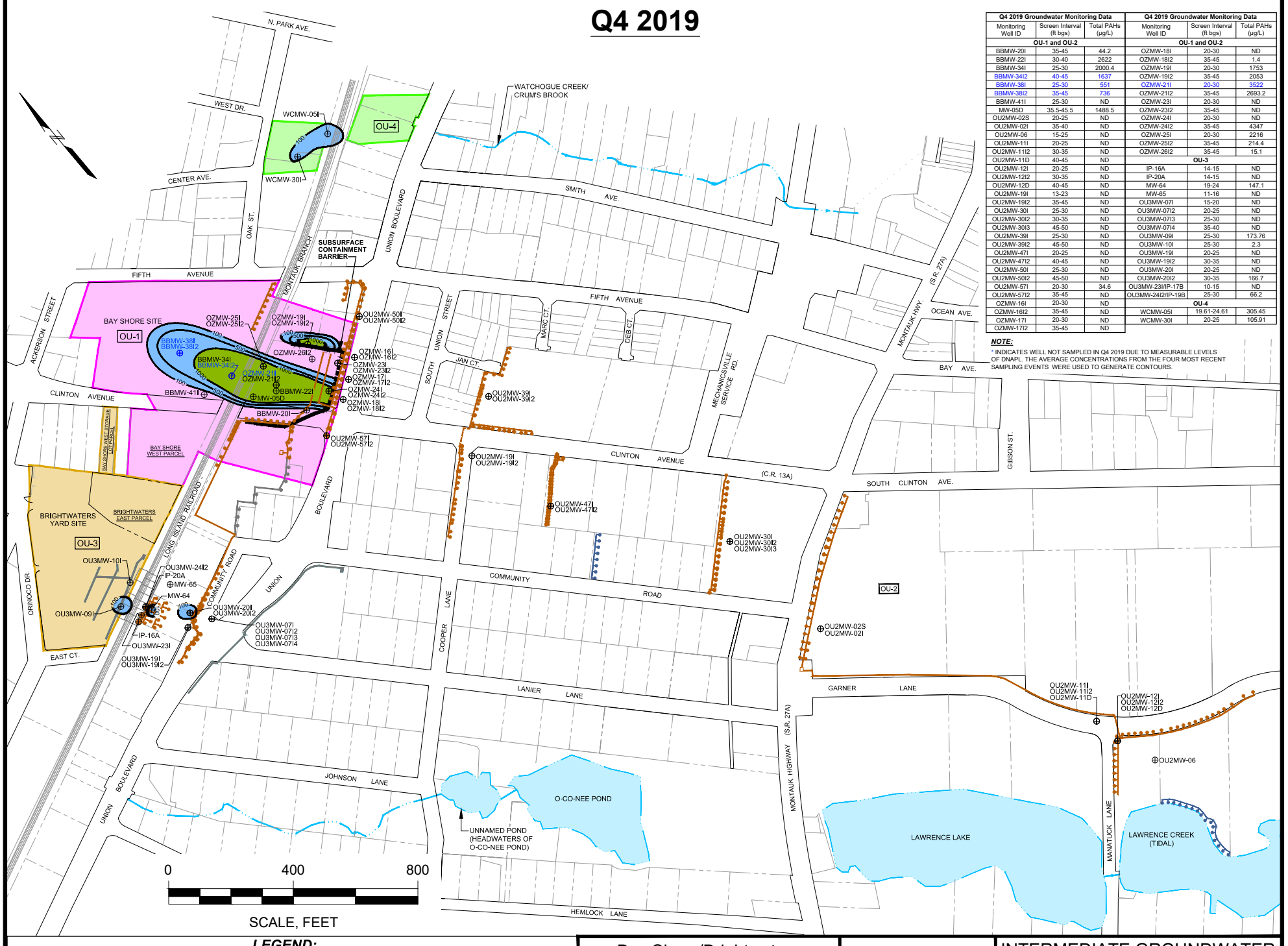
Q4 2019

Q4 2019 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-20I	35-45	44.2
BBMW-22I	30-40	2622
BBMW-34I	25-30	2000.4
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	1488.5
OU2MW-02S	20-25	ND
OU2MW-02I	35-40	ND
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	34.6
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

Q4 2019 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
OZMW-18I	20-30	ND
OZMW-18I2	35-45	1.4
OZMW-19I	20-30	1753
OZMW-19I2	35-45	2053
OZMW-21I	20-30	3522
OZMW-21I2	35-45	2693.2
OZMW-23I	20-30	ND
OZMW-23I2	35-45	ND
OZMW-24I	20-30	ND
OZMW-24I2	35-45	4347
OZMW-25I	20-30	2216
OZMW-25I2	35-45	214.4
OZMW-26I2	35-45	15.1
OU-3		
IP-16A	14-15	ND
IP-20A	14-15	ND
MW-64	19-24	147.1
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	173.76
OU3MW-10I	25-30	2.3
OU3MW-19I	20-25	ND
OU3MW-19I2	30-35	ND
OU3MW-20I	20-25	ND
OU3MW-20I2	30-35	166.7
OU3MW-23I/IP-17B	10-15	ND
OU3MW-24I2/IP-19B	25-30	66.2
OU-4		
WCMW-05I	19.61-24.61	305.45
WCMW-30I	20-25	105.91

NOTE:

* INDICATES WELL NOT SAMPLED IN Q4 2019 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 | April 2020 | 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 2019

Q4 2019 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-05D	64-74	842
OU2MW-02I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-19D	65-70	ND
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-39D	70-75	ND
OU2MW-42D	60-65	320.6
OU2MW-43D	65-70	10.31
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OZMW-16D	55-65	ND
OZMW-17D	53-63	72.7
OZMW-18D	55-65	67.1
OZMW-19D	55-65	ND
OZMW-23D	55-65	ND
OZMW-24D	55-65	712

0 400 800

SCALE, FEET

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 | April 2020 | Fig. 7

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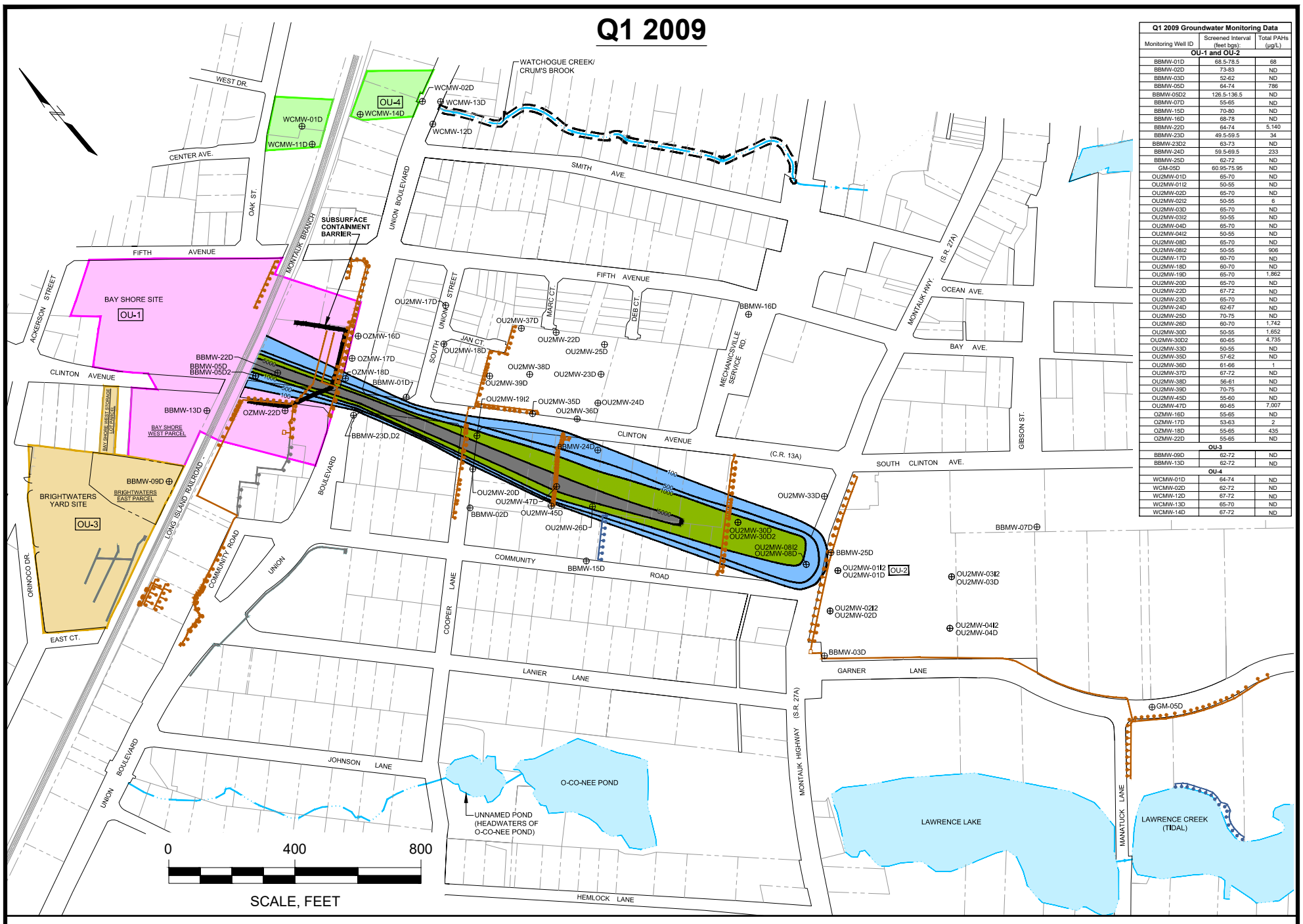
Q1 2009

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 2019

Q4 2019 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-05D	64-74	1639
OU2MW-02I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-19D	65-70	ND
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-39D	70-75	ND
OU2MW-42D	60-65	498.2
OU2MW-43D	65-70	12.9
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OZMW-16D	55-65	ND
OZMW-17D	53-63	272.8
OZMW-18D	55-65	660.8
OZMW-19D	55-65	2.5
OZMW-23D	55-65	ND
OZMW-24D	55-65	2729

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 | April 2020 | Fig. 8

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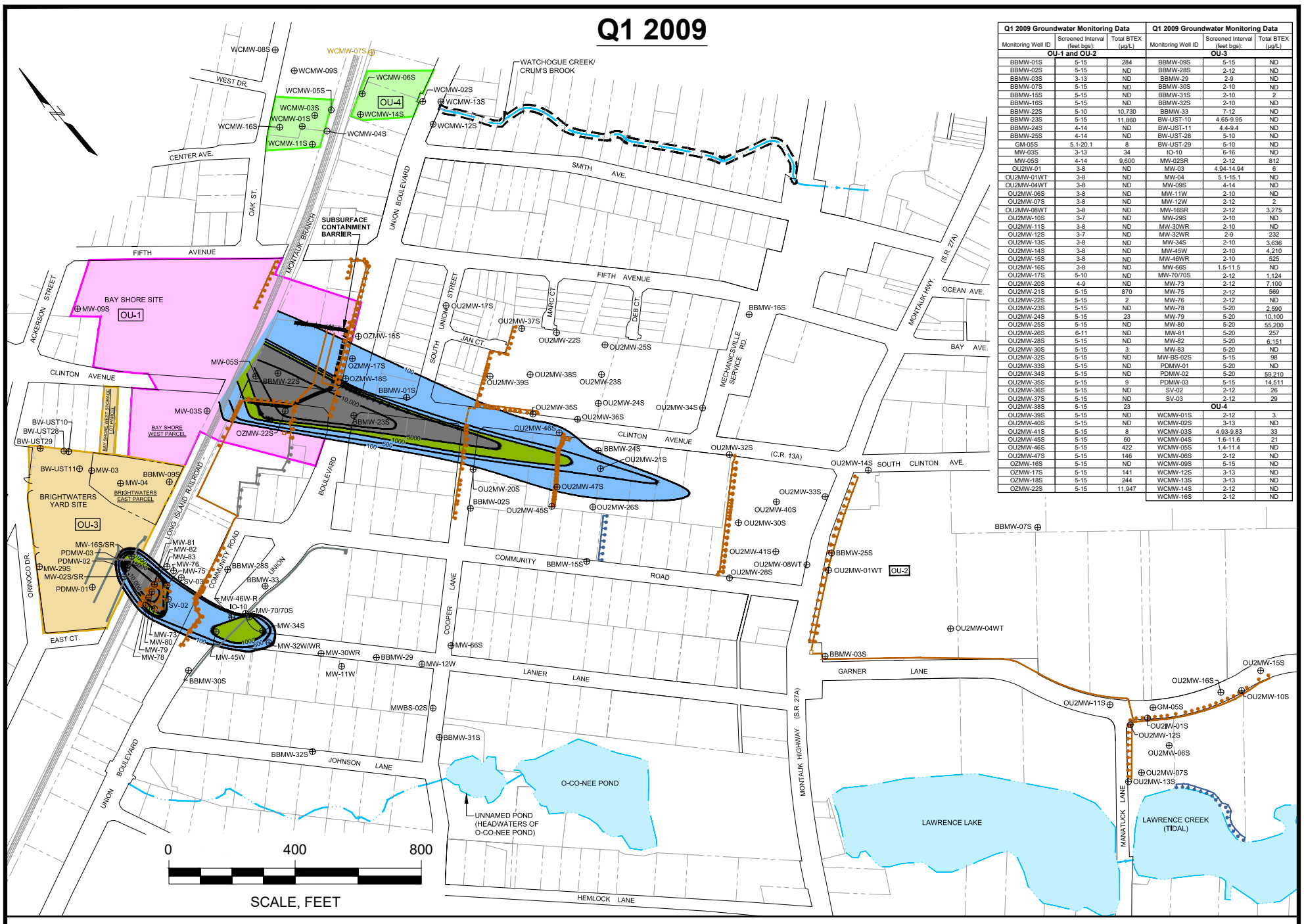
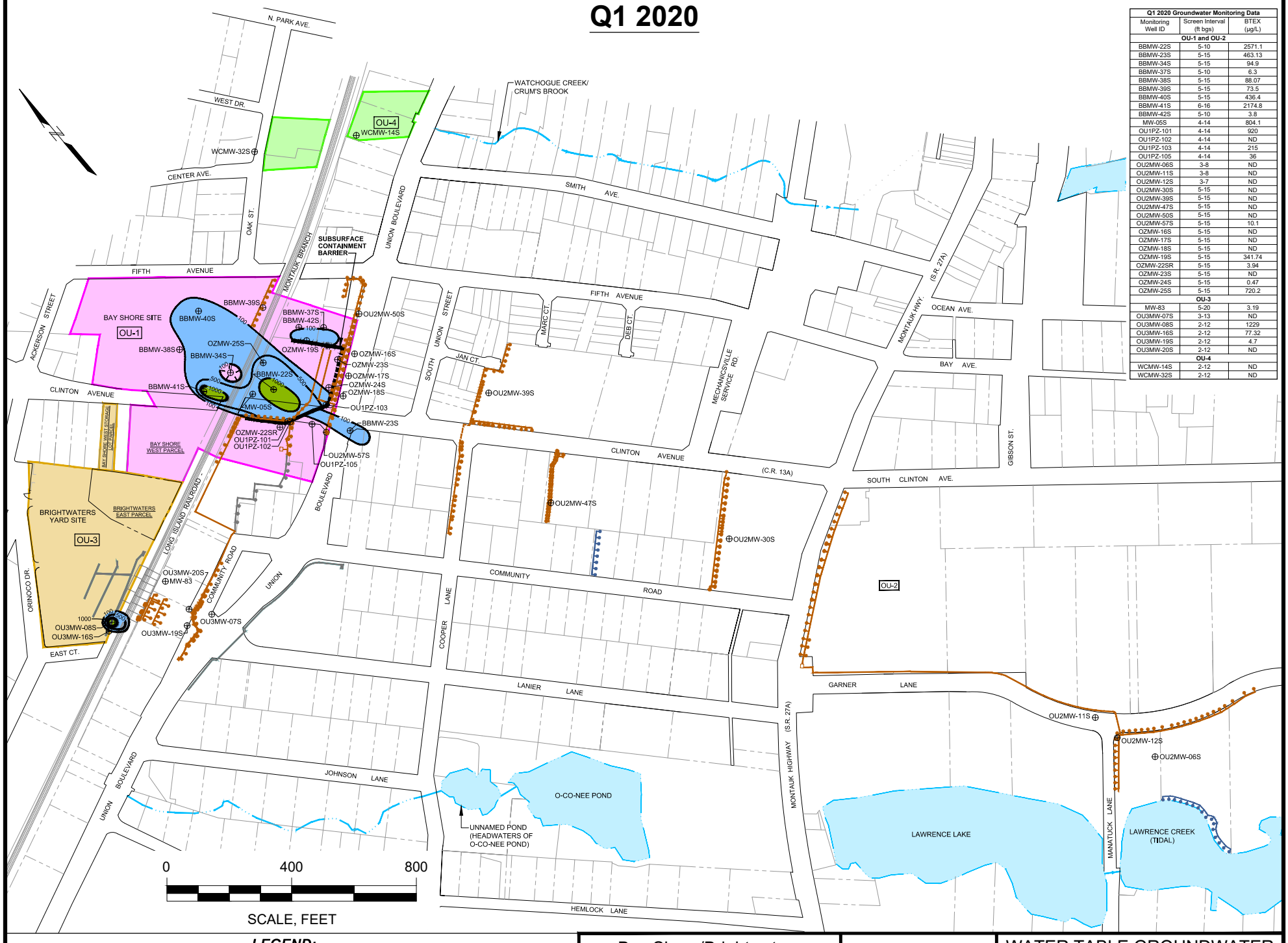
Q1 2009

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 2020

Q1 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	2571.1
BBMW-23S	5-15	463.13
BBMW-34S	5-15	94.9
BBMW-37S	5-10	6.3
BBMW-38S	5-15	88.07
BBMW-39S	5-15	73.5
BBMW-40S	5-15	436.4
BBMW-41S	6-16	2174.8
BBMW-42S	5-10	3.8
MW-05S	4-14	804.1
OU1PZ-101	4-14	920
OU1PZ-102	4-14	ND
OU1PZ-103	4-14	215
OU1PZ-105	4-14	36
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	10.1
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	341.74
OZMW-22SR	5-15	3.94
OZMW-23S	5-15	ND
OZMW-24S	5-15	0.47
OZMW-25S	5-15	720.2
OU-3		
MW-83	5-20	3.19
OU3MW-07S	3-13	ND
OU3MW-08S	2-12	1229
OU3MW-16S	2-12	77.32
OU3MW-19S	2-12	4.7
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).

Bay Shore/Brightwaters
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WATER TABLE GROUNDWATER
TOTAL BTEX
ISO-CONCENTRATION MAPS
(0-10 FEET BGS)

Project 1905774 | July 2020 | Fig. 3

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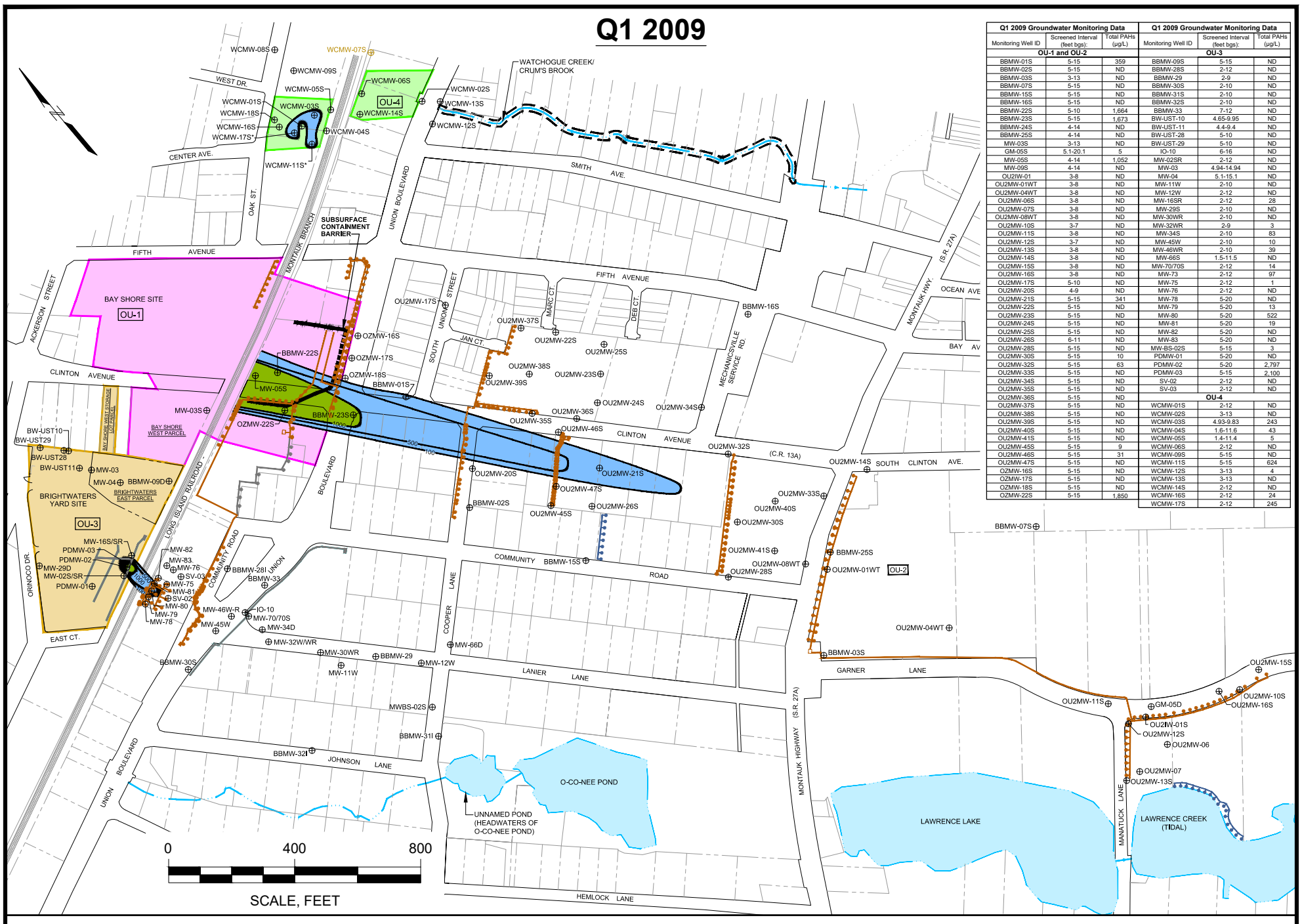
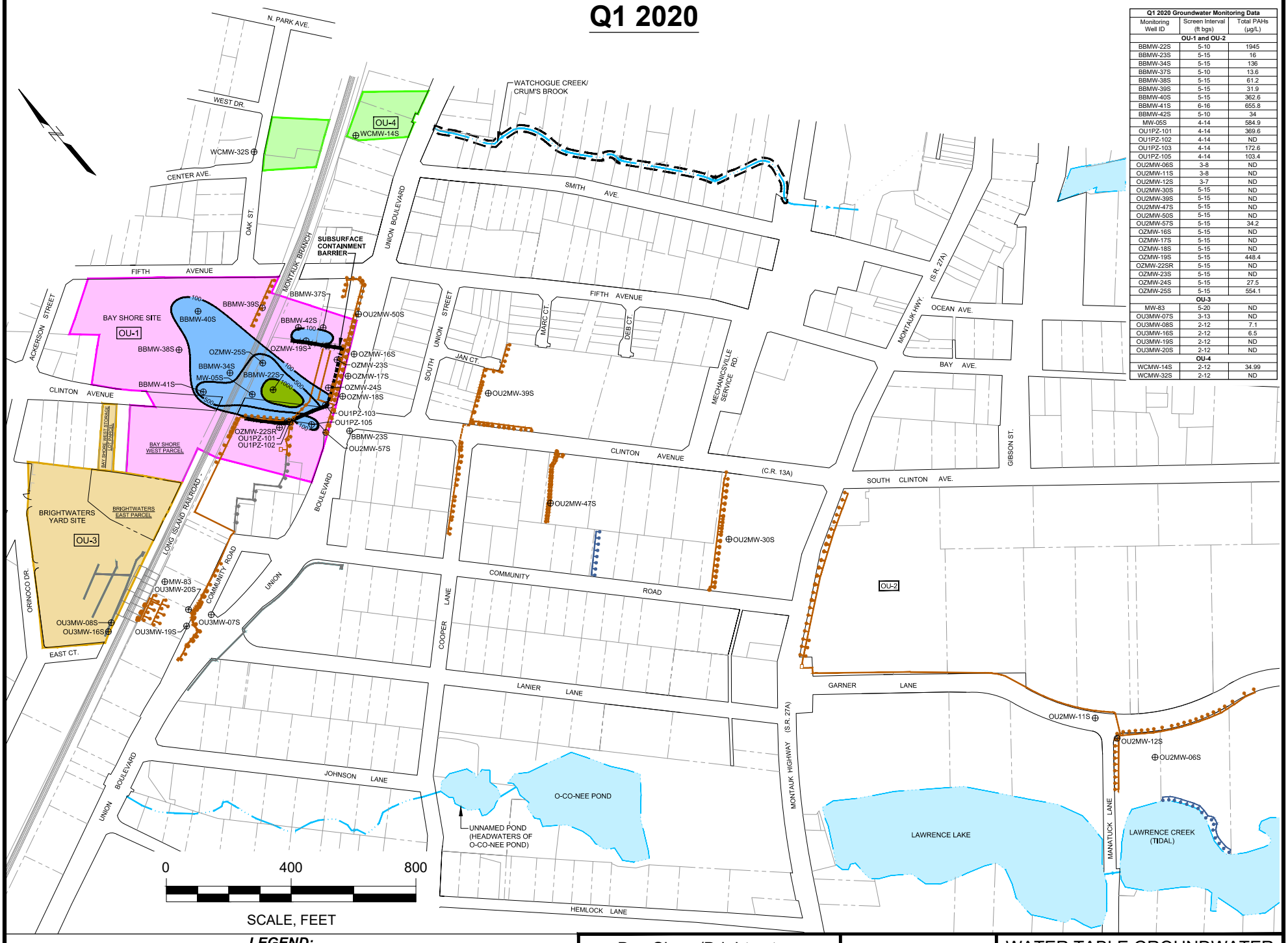
Q1 2009

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-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 2020

Q1 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	1945
BBMW-23S	5-15	16
BBMW-34S	5-15	136
BBMW-37S	5-10	13.6
BBMW-38S	5-15	61.2
BBMW-39S	5-15	31.9
BBMW-40S	5-15	362.6
BBMW-41S	6-16	655.8
BBMW-42S	5-10	34
MW-05S	4-14	584.9
OU1PZ-101	4-14	369.6
OU1PZ-102	4-14	ND
OU1PZ-103	4-14	172.6
OU1PZ-105	4-14	103.4
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	34.2
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	448.4
OZMW-22SR	5-15	ND
OZMW-23S	5-15	ND
OZMW-24S	5-15	27.5
OZMW-25S	5-15	554.1
OU-3		
MW-83	5-20	ND
OU3MW-07S	3-13	ND
OU3MW-08S	2-12	7.1
OU3MW-16S	2-12	6.5
OU3MW-19S	2-12	ND
OU3MW-20S	2-12	ND
OU-4		
WCMW-14S	2-12	34.99
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)

July 2020 — 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-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	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 2020

Q1 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-20I	35-45	0.71
BBMW-22I	30-40	334.3
BBMW-34I	25-30	602.3
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	16.8
OU2MW-02S	20-25	ND
OU2MW-02I	35-40	20
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	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

Q1 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
OZMW-18I	20-30	ND
OZMW-18I2	35-45	1.1
OZMW-19I	20-30	156.8
OZMW-19I2	35-45	203.8
OZMW-21I	20-30	350
OZMW-21I2	35-45	109.68
OZMW-23I	20-30	ND
OZMW-23I2	35-45	ND
OZMW-24I	20-30	ND
OZMW-24I2	35-45	100.3
OZMW-25I	20-30	451.4
OZMW-25I2	35-45	1.5
OZMW-26I2	35-45	ND
OU-3		
IP-16A	14-15	ND
IP-20A	14-15	ND
MW-64	19-24	3.1
MW-65	11-16	11.5
OU3MW-07I	15-20	ND
OU3MW-07I2	20-25	ND
OU3MW-07I3	25-30	ND
OU3MW-07I4	35-40	ND
OU3MW-09I	25-30	28.71
OU3MW-10I	25-30	388
OU3MW-19I	20-25	ND
OU3MW-19I2	30-35	ND
OU3MW-20I	20-25	ND
OU3MW-20I2	30-35	8.2
OU3MW-23I/IP-17B	10-15	0.23
OU3MW-24I2/IP-19B	25-30	0.55
OU-4		
WCMW-04I	19-24	0.35
WCMW-05I	19.61-24.61	ND
WCMW-30I	20-25	0.38

NOTE:
* INDICATES WELL NOT SAMPLED IN Q1 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)

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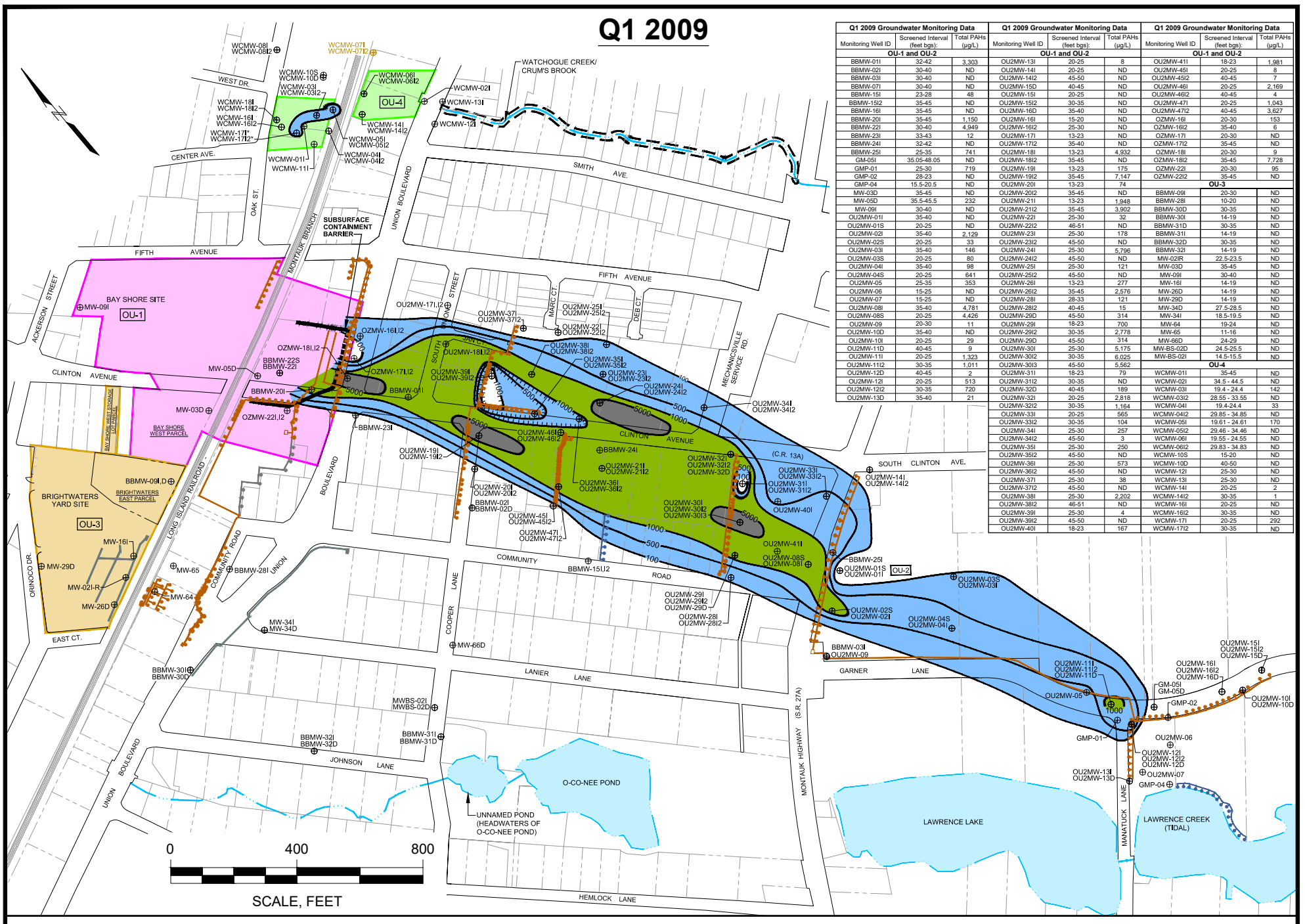
Q1 2009

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



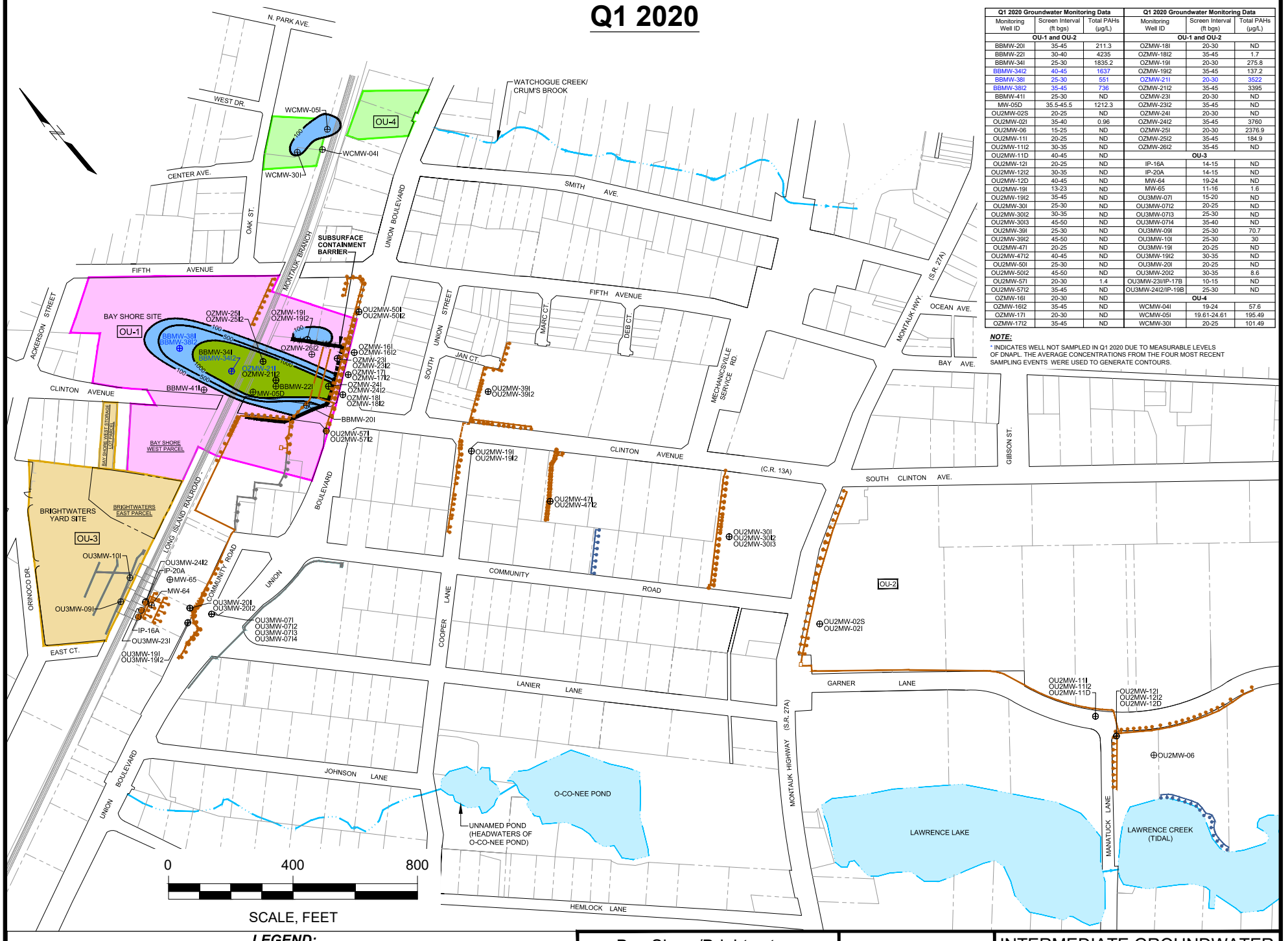
Q1 2020

Q1 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-20I	35-45	211.3
BBMW-22I	30-40	4235
BBMW-34I	25-30	1835.2
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	1212.3
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	1.4
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

Q1 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
OZMW-18I	20-30	ND
OZMW-18I2	35-45	1.7
OZMW-19I	20-30	275.8
OZMW-19I2	35-45	137.2
OZMW-21I	20-30	3522
OZMW-21I2	35-45	3395
OZMW-23I	20-30	ND
OZMW-23I2	35-45	ND
OZMW-24I	20-30	ND
OZMW-24I2	35-45	3760
OZMW-25I	20-30	2376.9
OZMW-25I2	35-45	184.9
OZMW-26I2	35-45	ND
OU-3		
IP-16A	14-15	ND
IP-20A	14-15	ND
MW-64	19-24	ND
MW-65	11-16	1.6
OU3MW-07I	15-20	ND
OU3MW-07I2	20-25	ND
OU3MW-07I3	25-30	ND
OU3MW-07I4	35-40	ND
OU3MW-09I	25-30	70.7
OU3MW-10I	25-30	30
OU3MW-19I	20-25	ND
OU3MW-19I2	30-35	ND
OU3MW-20I	20-25	ND
OU3MW-20I2	30-35	8.6
OU3MW-23I/IP-17B	10-15	ND
OU3MW-24I2/IP-19B	25-30	ND
OU-4		
WCMW-04I	19-24	57.6
WCMW-05I	19.61-24.61	195.49
WCMW-30I	20-25	101.49

NOTE:

* INDICATES WELL NOT SAMPLED IN Q1 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
- PAH — ISO-CONCENTRATION LINE (µg/L)
- 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 | July 2020 | 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

Q1 2020

Q1 2020 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-05D	64-74	1423
BBMW-01D	68.5-78.5	1.98
OU2MW-02D	65-70	ND
OU2MW-02I2	50-55	ND
OU2MW-19D	65-70	4.63
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-39D	70-75	ND
OU2MW-42D	60-65	157.9
OU2MW-43D	65-70	12.37
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OZMW-16D	55-65	ND
OZMW-17D	53-63	595
OZMW-18D	55-65	55.3
OZMW-19D	55-65	ND
OZMW-23D	55-65	ND
OZMW-24D	55-65	551.86

0 400 800

SCALE, FEET

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 | July 2020 | Fig. 7

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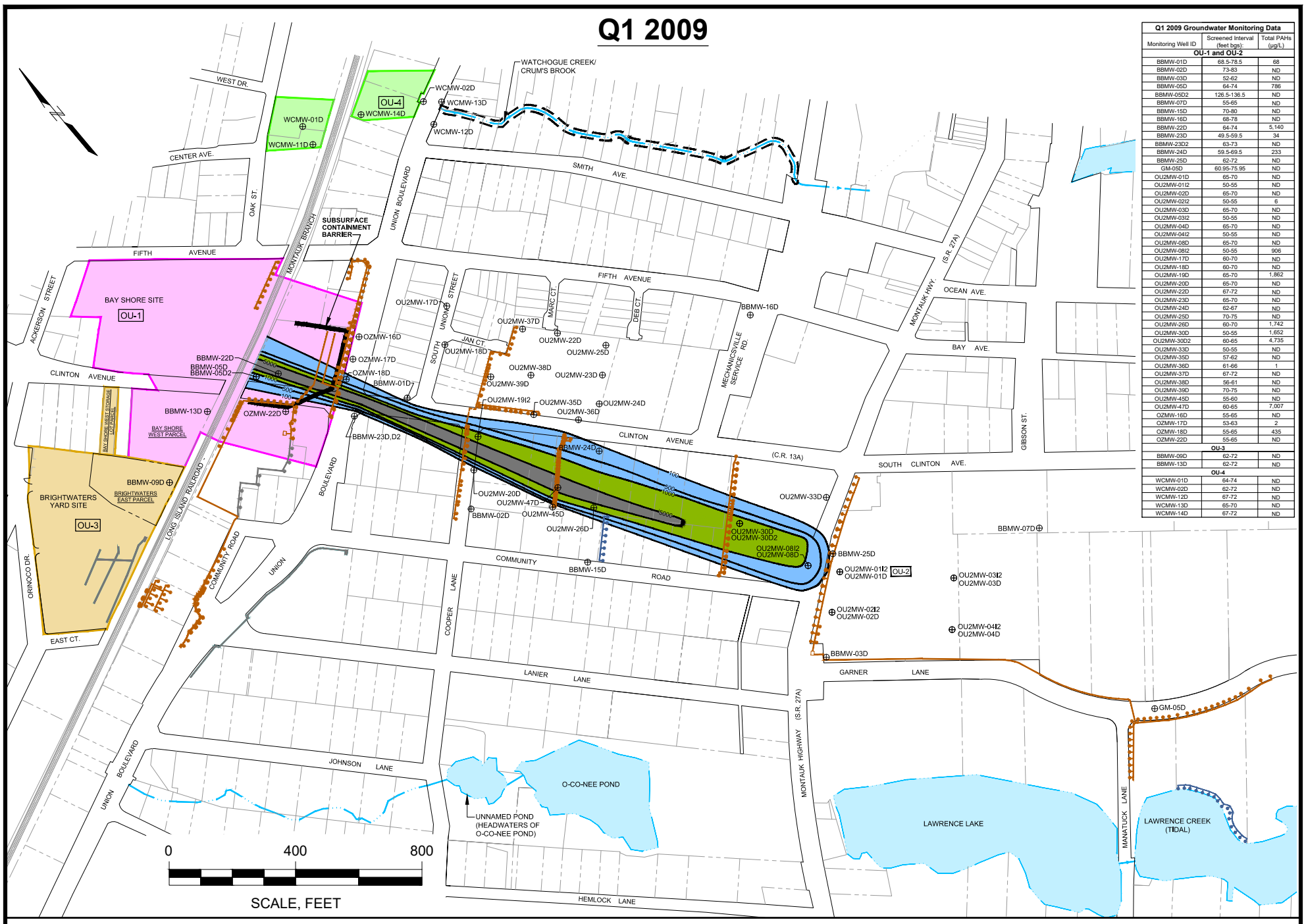
Q1 2009

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



Q1 2020

Q1 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	5.6
BBMW-05D	64-74	2423
OU2MW-02I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-19D	65-70	30.7
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-39D	70-75	ND
OU2MW-42D	60-65	645.9
OU2MW-43D	65-70	69.4
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OZMW-16D	55-65	ND
OZMW-17D	53-63	1487
OZMW-18D	55-65	364.8
OZMW-19D	55-65	ND
OZMW-23D	55-65	ND
OZMW-24D	55-65	2618

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 | July 2020 | Fig. 8

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Appendix H. 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 H. Summary of Sulfate Concentrations (µg/L)
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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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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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 H. 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 H. 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 H. 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
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 H. 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
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41S	6 - 16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65 - 70	--	--	--	--	--	--	--	--	--	29300	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--

Appendix H. 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
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 H. 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-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 H. Summary of Sulfate Concentrations (µg/L)
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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-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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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		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 H. 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 H. Summary of Sulfate Concentrations (µg/L)
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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
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 H. Summary of Sulfate Concentrations (µg/L)
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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
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 H. 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 H. 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-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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix H. 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-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 H. 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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix H. 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
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 H. 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 H. 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	--

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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 H. 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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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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 H. 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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix H. 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								
		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
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	--
OZMW-18S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I	20 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18D	55 - 65	35600	--	--	36400	--	--	34500	--	--	--	--	--	--	37700	--

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		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
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	--
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	--
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	--	--	--	--	--	--	--	--

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		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
OU2MW-01D	65 - 70	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20 - 25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	35 - 40	21500	--	--	--	33700	--	48900	--	--	--	--	--	--	36300	--
OU2MW-02I2	50 - 55	59800 J	--	--	--	111000	--	96800	--	--	--	--	--	--	--	184000
OU2MW-02D	65 - 70	5400 J	--	--	--	6300	--	6800	--	--	--	--	--	--	--	6900
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	--
OU2MW-12I	20 - 25	--	2800 J	--	--	3800 J	--	2500 J	--	--	--	--	--	--	2400 J	--
OU2MW-12I2	30 - 35	--	7900	--	--	5600	--	6200	--	--	--	--	--	--	10000	--
OU2MW-12D	40 - 45	--	10200	--	--	28900	--	15700	--	--	--	--	--	--	10400	--
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	--
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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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	--
OU2MW-30D	50 - 55	36200	--	--	--	189000	--	44800	--	--	--	--	--	--	33600	--
OU2MW-30D2	60 - 65	171000	--	--	--	188000	--	164000	--	--	--	--	--	--	188000	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix H. Summary of Sulfate Concentrations (µg/L)
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Well ID	Screen Interval (feet bgs)	2019						2020								
		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
OU2MW-42S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42D	60 - 65	--	132000	--	--	172000	--	--	163000	--	--	--	--	--	164000	--
OU2MW-43S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43D	65 - 70	--	165000	--	--	119000	--	--	160000	--	--	--	--	--	174000	--
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	--
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 H. Summary of Sulfate Concentrations (µg/L)
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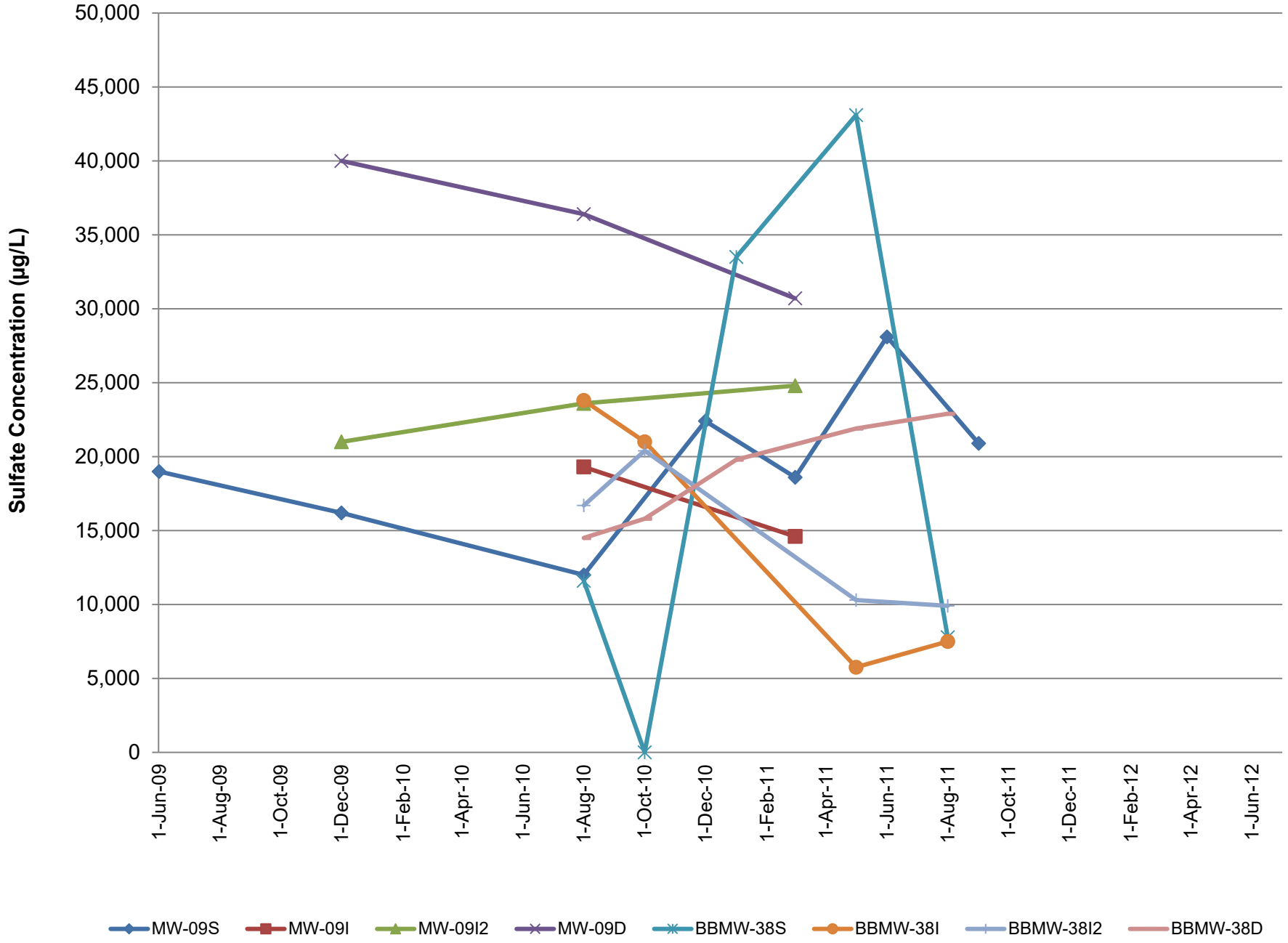
Well ID	Screen Interval (feet bgs)	2019						2020								
		Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19 - 24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I2	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

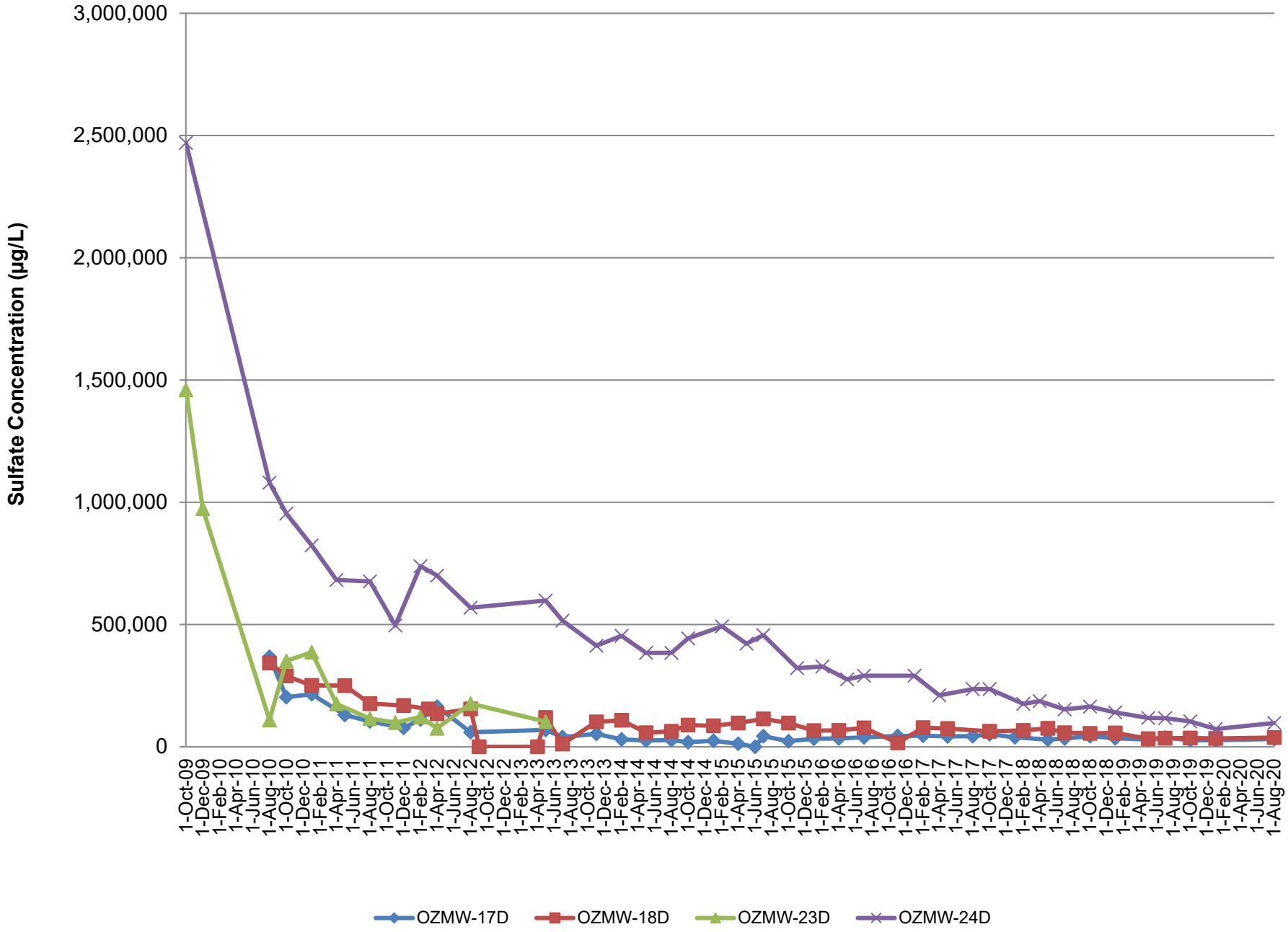
Notes:

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 H - Graph H-1 - Background Sulfate Concentrations
OU-1 Wells Upgradient of In-Situ Remedial Action



Appendix H - Graph H-2 - Sulfate Concentrations
OU-1 Wells Above AWQS Criteria (250,000 µg/L)



Appendix H - Graph H-3 - Sulfate Concentrations
OU-2 Wells Above AWQS Criteria (250,000 µg/L)