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Hi John-

I got your message yesterday. Below is a link to last years annual report. Attached is the approved groundwater sampling criteria for the Site.

Please let me know if you have any questions or need any additional information.

 [Report.hwD100019811.2021_2022AnnualGMOMM_BayShore NY_.pdf](#)

-Chris



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Consulting
Engineers and
Scientists

2021/2022 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

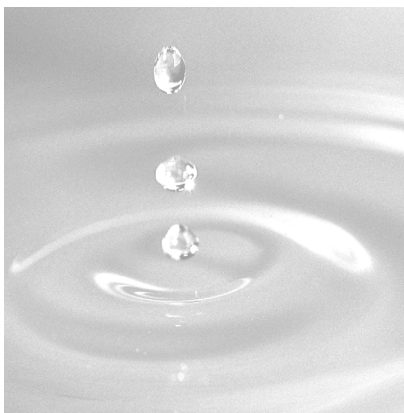
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Executive Summary

This report presents a summary of the 2021/2022 reporting period (Q3 2021 through Q2 2022) annual groundwater monitoring (GM) and operations, maintenance, and monitoring (OM&M) activities and associated results for the Bay Shore/Brightwaters former manufactured gas plant (MGP) site located in Bay Shore, Suffolk County, New York (the Site). 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 USA (National Grid) and the New York State Department of Environmental Conservation (NYSDEC).

The following narrative provides a summary of notable activities and associated monitoring and analytical results completed during this reporting period, with detailed descriptions provided in the following report sections, as follows: Section 1, Introduction (including a Site background and remedial history); Section 2, Remediation Systems; Section 3, Groundwater Level Monitoring and Well Condition Assessment Programs; Section 4, Groundwater Quality; and Section 5, Future Plans.

Remediation Systems

Multiple remediation systems currently operating at the Site include a dense non-aqueous phase liquid (DNAPL) recovery system, an ozone injection system and associated subsurface barrier wall, and seven oxygen injection systems. These systems have been successful at significantly reducing concentrations of benzene, toluene, ethylbenzene and xylene (BTEX) and polycyclic aromatic hydrocarbons (PAHs) in groundwater at and downgradient of the Site.

NAPL Monitoring and Recovery: DNAPL and light non-aqueous phase liquid (LNAPL) monitoring are completed on a quarterly basis, while DNAPL recovery at well BBRW-02 is completed on a monthly basis. NAPL gauging results were consistent with recent historical thicknesses. In addition, over 28 gallons of DNAPL were recovered from well BBRW-02 during this reporting period.

OU-1 Ozone Groundwater Treatment System: Ozone injection system performance monitoring includes quarterly monitoring of BTEX and PAHs in OU-1 well clusters OZMW-23 and OZMW-24, located downgradient of the system and upgradient of the subsurface barrier wall. Although, elevated contaminant concentrations remain in OZMW-24I2 and OZMW-24D, concentrations remained within their historical ranges during this reporting period. Groundwater passing through the perforated section of the subsurface

barrier wall is further treated by the OU-1 Union Boulevard oxygen injection system, and downgradient OU-2 oxygen injection systems.

Oxygen Injection Systems: The oxygen injection systems located throughout OU-1, OU-2, and OU-3 were operational for approximately 85% of the time during this reporting period, continuing to significantly increase dissolved oxygen (DO) and oxidation reduction potential (ORP) in groundwater at OU-1, OU-2, and OU-3. Given the significant contaminant concentration reductions achieved since startup of the oxygen injection systems, three systems and a portion of a fourth system have been shut down.

Groundwater Level Monitoring and Well Condition Assessment Programs

Groundwater level monitoring is conducted annually at the Site to measure groundwater elevations and determine groundwater flow regimes. Groundwater elevations at the Site are shallow, generally between 2 and 12 feet below ground surface (bgs). Shallow and deep groundwater flow directions at and downgradient of the Site have been consistently generally toward the south/southeast, with generally similar groundwater elevations and flow directions.

The monitoring well network was generally observed to be accessible and in good condition during this reporting period and repairs are made on an as-needed basis. In addition, a total of 17 monitoring wells located in the OU-3 area were abandoned in October 2021, in accordance with the NYSDEC-approved work plan and NYSDEC's CP-43 monitoring well decommissioning policy document.

Groundwater Quality

Current and Historical Plume and Contaminant Concentrations: Remedial activities completed at the Site since Q1 2009, have significantly reduced contaminant concentrations resulting in the currently limited plume footprint.

The overall OU1/OU2 groundwater plumes (concentrations of total BTEX and total PAH equal to or greater than 100 micrograms per liter [$\mu\text{g/L}$]) have significantly reduced in size and concentration since remedial activities began in 2009. These significant reductions include the virtual elimination of shallow and intermediate impacts above 100 $\mu\text{g/L}$ in OU-2. Current maximum BTEX and PAH concentrations (well above 1,000 $\mu\text{g/L}$) are all located upgradient of the barrier wall capture zone or within the OU-1 ozone system treatment area. Concentrations above 100 $\mu\text{g/L}$ were generally only present in the shallow zone immediately downgradient of the barrier wall and the shallow/ intermediate zones immediately east of the barrier wall. Further downgradient, BTEX was not detected at concentrations above 100 $\mu\text{g/L}$ in any deep OU-2 well; though, deep PAH impacts remained periodically elevated extending to the Cooper Lane and 33 North Clinton Avenue oxygen injection systems, where additional remedial measures may be considered, as needed.

Shallow BTEX impacts in the OU-3 Brightwaters Yard have been reduced by up to two orders of magnitude by implementation of various remedial activities, and generally continue to decrease over time. The greatest total BTEX concentrations in the area (838 µg/L to 2,740 µg/L) were detected in shallow monitoring well OU3MW-08S, where a shallow peat unit exists in the vicinity of the well, potentially limiting the effectiveness of previous ORC-A injections in the area. However, contaminants in nearby well OU3MW-16S continue to exhibit near-historical low concentrations. Contaminant concentrations within the sheeting cells at the southern portion of the Brightwaters Yard varied widely, with highs generally near the upper end of historical concentration ranges concentrations in the deeper wells (up to 1,202 µg/L). Downgradient of the Brightwaters Yard, contaminant concentrations sporadically slightly above 100 µg/L were only observed during one sampling event (Q3 2021) during this reporting period in one shallow well located immediately south of the LIRR Right-of-Way (ROW) at 87 Community Road and one intermediate well, located immediately south of the LIRR ROW at 83 Community Road. These impacts will be treated by the Community Road oxygen injection system located further downgradient. BTEX and PAHs downgradient of the system were non-detect during all sample rounds during this reporting period.

Shallow and intermediate OU-4 wells continue to exhibit decreasing concentration trends; however, impacts above 100 µg/L are periodically detected in limited wells screened outside or below the vertical extent of the remedial excavation. Although access to several well clusters was granted during this reporting period, routine access issues persist at several wells south and west of the excavation area.

Analysis of Sulfate Concentrations: Sulfate concentrations have been declining in OU-1 wells since 2011 and the majority of OU-2 wells since 2017. Although, sulfate is still present in limited areas in the lower intermediate and deep zones at OU-1 and OU-2, concentrations have been below the Ambient Water Quality Standards (AWQS) for several years, including throughout this reporting period.

Future Plans

Overall contaminant concentrations at the Site have reduced significantly since Q1 2009 and have generally remained stable or have continued to reduce throughout this reporting period, with limited and minor exceptions. Based on the OM&M activities and analytical results discussed above, the following recommendations are presented below.

General Recommendations

- Based on the significant remedial progress achieved at the Site, the groundwater sampling rationale and system OM&M schedule are evaluated on a quarterly basis to ensure that these programs continue to operate in an effective and efficient manner.

- Continue to monitor Site-related impacts and associated remedial system effectiveness via quarterly and annual monitoring of the GM well network, including areas upgradient and downgradient of the on-site subsurface barrier wall and multiple treatment systems throughout the Site, in accordance with the 2012 NYSDEC-approved groundwater sampling criteria.
- Continue to evaluate the need for additional remedial measures based on contaminant concentrations within and/or downgradient of each OU and associated remedial system.
- Given that only one exceedance (out of approximately 20 wells per quarter) of the AWQS for sulfate has been detected over the past 3 years, sulfate monitoring at the Site should be discontinued, following NYSDEC approval.
- Continue well abandonment activities at targeted monitoring wells located throughout the Site, in accordance with the NYSDEC-approved work plan and NYSDEC's CP-43 monitoring well decommissioning policy document.
- Continue to complete minor well repair items, such as replacing broken well covers, etc., concurrent with site-wide groundwater sampling activities.

NAPL Gauging and Recovery

- Routine quarterly NAPL gauging should continue to be completed at targeted Site wells, as approved by the NYSDEC.
- Given that intermittent, but minimal thicknesses of DNAPL have recently been periodically detected in OU-4 monitoring well WCMW-05I, this well was redeveloped in Q4 2022. Redevelopment successfully removed the NAPL present in the well. The well will be monitored periodically to determine if additional NAPL accumulates.
- Routine monthly DNAPL recovery via the BBRW-02 DNAPL recovery system should continue to be completed.
- DNAPL recovery from wells in OU-1 which exhibit DNAPL thicknesses of greater than one-foot. Recovery from these began in early Q4 2022. An evaluation will be conducted to determine recovery schedules as warranted.

Treatment Systems

Ozone Groundwater Treatment System

- Continue routine operation and inspection of the ozone injection system, with routine maintenance completed per manufacturers' recommendations.

- Annual monitoring for ozone should continue at the Soil Vapor Extraction (SVE) manifold to ensure that excess ozone is not present within the vadose zone.

Oxygen Injection Systems

- Continue routine operation and bi-weekly/monthly system inspection of the oxygen injection systems, with maintenance completed per manufacturers' recommendations.
- Continue to evaluate groundwater data in the vicinity of the remaining active injection systems to optimize or shut down systems, as warranted and with NYSDEC-approval.
- Evaluate whether to abandon 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, as this treatment line was replaced.

Operable Unit-Specific Recommendations

Operable Unit 2

- As approved by the NYSDEC, post shut-down GM in the vicinity of the Manatuck Lane portion of the Montauk Highway oxygen injection system was completed during this reporting period. A letter requesting approval to abandon the Manatuck Lane portion of the Montauk Highway oxygen injection system will be submitted to the NYSDEC in the near future.
- Continue post-shutdown GM of the 9 North Clinton Avenue oxygen injection system following its August 13, 2021, shut down during this reporting period, as approved by the NYSDEC.
- As toluene was sporadically detected above the AWQS at several wells in the OU2MW-02 cluster, and was non-detect upgradient of this area, toluene concentrations will be closely monitored at this location during future sampling events.

Operable Unit 3

- Total BTEX concentrations south of the LIRR ROW at 87 Community Road will be closely monitored during future sample events.
- The elevated total BTEX concentrations identified at intermediate temporary wells TMW-01I2, TMW-02I2, and TMW-03I2, along with persistent contaminant concentrations in shallow wells OU3MW-08S and OU3MW-16S, will be closely monitored during future sampling events and additional remedial options considered.

Operable Unit 4

- Excavation of MGP impacts beneath the 22 Oak Street property are planned concurrent with future potential property redevelopment activities, as warranted.
- Given that the WCMW-04 well cluster, located on the LIRR ROW within the former cesspool area, has historically exhibited elevated contaminant concentrations, primarily PAHs in well WCMW-04I, further attempts to coordinate access with LIRR should be made to more consistently monitor contaminant concentrations in this area.
- Given that the trace measurements of DNAPL sporadically observed in monitoring well WCMW-05I are possibly attributable to a small amount of NAPL-impacted silt thought to exist at the bottom of the well, this material was removed from the well via redevelopment during Q4 2022. The well will be monitored periodically to determine if additional NAPL accumulates.

1. Introduction

This report presents a summary of the 2021/2022 reporting period (Q3 2021 through Q2 2022) annual GM and OM&M activities and associated results for the Bay Shore/Brightwaters former MGP site located in Bay Shore, Suffolk County, New York (the Site). This report has been prepared in accordance with the requirements of Section Title 6 of DER-10, Technical Guidance for Site Investigation and Remediation, and the Order on Consent, Index No. D1-0001-98-11, between National Grid and the NYSDEC.

Quarterly monitoring reports for the Site were prepared and submitted to the NYSDEC and distributed to the public from 2004 (the initial site remediation report) through Q2 2012. However, based on the significant and continued contaminant concentration reductions achieved through implementation of various remedial activities at the Site since Q1 2009, modification of the reporting frequency from quarterly to annually was approved by the NYSDEC in August 2012. Currently, interpretive Annual GM and OM&M Reports are submitted to the regulatory agencies annually, while quarterly GM and OM&M data continues to be evaluated and submitted to the regulatory agencies on a quarterly basis.

In Q4 2012, the NYSDEC also approved specific criteria for modification of the GM program and shutdown of remediation systems, which are summarized below:

- Monitoring wells which meet ambient groundwater quality standards for Class GA groundwater for individual BTEX and PAHs compounds for four consecutive quarters can be reduced to an annual sampling frequency.
- 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 can be removed from the sampling program.
- Quarterly sampling will resume at any well where total BTEX or total PAH concentrations exceed 50 µg/L.
- 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 monitoring wells located upgradient (as far as the next treatment system), and immediately downgradient of a given treatment system, meet the above criteria.

- Treatment systems will be placed back into operation if total BTEX or total PAH concentrations in either upgradient or downgradient wells exceed 50 µg/L during any of the four quarterly sampling events.

Since implementation of the above criteria and given the significant contaminant concentration reductions achieved at the Site since Q1 2009, multiple reductions to the long-term monitoring program sample list have been made, through quarterly evaluations. As such, the total number of wells in the groundwater sampling program has been reduced from a historical total of 553 to approximately 157 wells sampled during the current annual sampling event (Q2 2022).

A GM well tracking summary is provided in Appendix A for the quarterly and annual sampling events included in this report. Annual sampling events are conducted during the second quarter of each year.

The Site has been divided into four operable units (OUs) to manage investigation and remediation activities more effectively. The extents of the four OUs are shown on Figure 1. A description of GM results and groundwater quality trends for all OUs are included in this report to provide a comprehensive evaluation of groundwater quality throughout the overall Site. Groundwater trend analyses include assessments of the effectiveness of the remedial activities and associated groundwater quality in the Upper Glacial aquifer. For discussion purposes, the three aquifer zones referenced herein include:

- **Shallow Zone:** Includes wells with the top of the well screen located up to 10 feet bgs.
- **Intermediate Zone:** Includes wells with the top of the well screen located from 10 feet through up to 50 feet bgs.
- **Deep Zone:** Includes wells with the top of the well screen located at or deeper than 50 feet bgs.

It should be noted that well ID nomenclatures which indicate “S, I, or D” for shallow, intermediate, or deep, respectively, typically does, though does not necessarily, correspond to these aquifer zone descriptions.

GM and OM&M activities include groundwater and non-aqueous phase liquid (NAPL) monitoring and associated maintenance and monitoring of the various remedial systems operating at the Site. Routine well maintenance, including simple repairs identified during GM activities, is conducted quarterly, while major well repairs or replacements are performed on an as-needed basis.

The following narrative provides a background and remedial history for the Site, while the remaining report sections are organized as follows: Section 2, Remediation Systems;

Section 3, Groundwater Level Monitoring and Well Condition Assessment Programs;
Section 4, Groundwater Quality; and Section 5, Future Plans.

1.1 Background and Remedial History

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

A Final Remedial Action Plan (RAP) for Operable Unit 1 (OU-1) was approved by the NYSDEC on August 9, 2004. As depicted on Figure 2, and as summarized below, the remedy currently being implemented at OU-1 is detailed in a document entitled “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), dated August 2004. In addition, several interim remedial measures (IRMs) have been completed at the Site since 1999, as depicted on Figure 2, and as summarized below.

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 OU-1 remedial activities.

Table 1a. Summary of OU-1 Remedial History

Date	OU-1 Remedial History	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 to Present	DNAPL Recovery	A DNAPL recovery system was installed at BBRW-02 south of the LIRR as part of the Phase I Remedial Activities, per the Final RAP (GEI, 2004a), as 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 surfactant to solubilize MGP-related impacts and sodium persulfate to oxidize such (GEI, 2007a).
February to April 2007	OU-1 Southern Cell Excavation	The southern cell excavation was included in Phase I of the OU-1 remedy, per the Final RAP, with results provided in the Phase I and Phase II Remedial Activities, OU-1 Bay Shore Former MGP site, Final Completion Report (Paulus, Sokolowski and Sartor Engineering, PC [PS&S], 2009).
April 2007 to May 2008	Subsurface Barrier Wall Installation	The barrier was installed as part of Phase I of the OU-1 remedy, per the Final RAP, as documented 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 to treat groundwater at the perforated portion of the barrier wall until startup of the full-scale groundwater treatment system was completed (KeySpan, 2007). Initially installed to

Date	OU-1 Remedial History	Comment
		provide temporary treatment during the construction/startup of the ozone injection system. NYSDEC requested the system remain online following the installation.
August 2007 to 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, per the Final RAP. Final construction details are provided in the Final Completion Report (PS&S, 2009).
October 2009	Ozone Groundwater Treatment System	Installation of the ozone injection groundwater treatment system was performed as Phase IA of the OU-1 remedy (GEI, 2009b), per the Final RAP (GEI, 2004a). The treatment building houses the equipment used to generate the ozone gas from fresh air, SVE equipment, carbon vessels, and an ozone destruction unit
March to April 2009	66 North Clinton Avenue Excavation	Shallow MGP-impacted soil located outside of the barrier wall in the western fringe area was removed to approximately 10 feet bgs, as part of Phase IV of the OU-1 remedy (GEI, 2010a), per 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 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, 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 remaining impacts. The 60/66 North Clinton Avenue oxygen injection system was relocated to the northern property boundary to facilitate potential property redevelopment. The southern portion of the treatment line was kept active to ensure no gaps in treatment. The system was also modified to treat groundwater impacts inside the western portion of the barrier wall.
June 2015	Oxygen Injection System Modifications	The Union Boulevard oxygen injection system was modified to include treatment upgradient and downgradient of the barrier wall. Additional deep injection wells were also installed to treat deep impacts. Construction was completed in July 2015.
September 2019	Soil Vapor Extraction (SVE) System	Due to low contaminant concentrations, the SVE system associated with the ozone injection system was shut down on September 25, 2019, per the NYSDEC-approved shutdown plan (GEI 2018). The system is maintained in operational condition should contaminant concentrations warrant re-start. SVE manifold monitoring is completed annually to confirm no excess ozone in subsurface.

1.1.2 Operable Unit 2 (OU-2)

OU-2 consists of the groundwater plume area extending downgradient (south/southeast) from OU-1. The NYSDEC issued a Voluntary Cleanup Program Decision Document for OU-2 in

July 2008, which specified the installation of a minimum of three oxygen injection systems. Table 1b below summarizes OU-2 remedial activities.

Table 1b. Summary of OU-2 Remedial Activities

Date	OU-2 Remedial Activity	Comment
December-2005	Oxygen Injection IRM	The Montauk Highway oxygen injection system, two injection lines along Montauk Highway and the intersection of Manatuck Lane and Garner Lane, treats groundwater prior to discharge to Lawrence Creek (GEI, 2006).
May to July 2007	Hydrologic Study	Investigation to further evaluate groundwater nearby the Montauk Highway oxygen injection system and to validate contaminant reductions in the vicinity of the Montauk Highway and Manatuck Lane treatment lines (GEI, 2007b).
January to November 2009	Installation and operation of the 9 North Clinton Avenue, 33 North Clinton Avenue including the Cooper Lane portion of the system, 34 North Clinton Avenue and Plume Tail oxygen injection systems.	In accordance with the Voluntary Clean-up Program Decision Document (NYSDEC, 2008) and the OU-2 Remedial Design Document (GEI, 2009a), three additional oxygen injection systems were installed within the OU-2 plume (GEI, 2010d). The Plume Tail system was installed to treat remaining impacts prior to discharge into the surface water body.
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 extents of OU-2 and was installed per an addendum to the OU-2 Remedial Design Document (GEI, 2009a).
October 2013	Oxygen Injection System Modifications	33 North Clinton Avenue and Montauk Highway oxygen injection systems were modified to target remaining impacts.
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.
March 2015	Oxygen Injection System Shutdown (29 Community Road and Plume Tail)	The 29 Community Road and Plume Tail oxygen injection systems were shut down on March 26, 2015, per NYSDEC-approved shutdown criteria, and were removed in June 2019 and June 2017, respectively. The injection wells/lines and associated monitoring wells were abandoned in June 2019.
May 2019	Montauk Highway Oxygen Injection System – Manatuck Lane Line	The Manatuck Lane portion of the Montauk Highway oxygen injection system was shut down in May 2019, per NYSDEC-approval.
August 2021	9 North Clinton Avenue Oxygen Injection System	The 9 North Clinton Avenue oxygen injection system was shut down in August 2021, per NYSDEC approval. Post-shutdown monitoring in the vicinity of the system is ongoing.

1.1.3 Operable Unit 3 (OU-3)

OU-3 consists of the Brightwaters Yard (currently owned by National Grid) and the groundwater plume that extends south/southeast from the Brightwaters Yard into the LIRR ROW. Table 1c below summarizes OU-3 remedial activities.

Table 1c. Summary of OU-3 Remedial Activities

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 MGP-related contaminants in groundwater prior to discharge into O-Co-Nee Pond (Foster Wheeler Environmental Corporation [FW], 2000).
May 2001, September 2001 to October 2004	ISCO IRMs	In-Situ Oxidative Technologies, Inc. (ISOTEC) completed three rounds of ISCO at the Brightwaters Yard source area (FW, 2000).
May to July 2004	Excavation IRM	Approximately 1,500 tons of contaminated soil was excavated (PS&S, 2005).
2004	Groundwater Treatment IRM	The Brightwaters Yard oxygen injection system was installed to reduce 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 within OU-3 were rehabilitated, including the replacement of catch basins and 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).
Phase I completed February 2010, Phase II completed July 2010, Phase III completed September 2010	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 former Union Boulevard and Brightwaters Yard systems (GEI, 2010a). Line is supplied by the 60/66 North Clinton Avenue oxygen injection system located at OU-1.
July 2010	OU-3 Union Boulevard Oxygen Injection System Abandonment	The Union Boulevard system was abandoned to limit remedial equipment within the community and replaced with the Community Road oxygen injection line (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 ROW. (GEI, 2016)
July 2015	87 Community Road Oxygen Injection System Expansion	Additional injection wells within the LIRR sheeting cells added to the 87 Community Road oxygen injection system (GEI, 2016). Monitoring wells OU3MW-22I, OU3MW-22I2, OU3MW-23I, OU3MW-23I2, OU3MW-24I, and OU3MW-24I2 converted to injection wells. Additional injection wells (IP-16A, IP-16B, IP-18A, IP-18B, IP-20A, and IP-20B) installed to treat the upgradient/central portion of the three sheeting cells.

Date	OU-3 Remedial Activity	Comment
December 2019	ORC-Advanced Injection Program	ORC-A injection program conducted in downgradient property boundary of the Brightwaters Yard and within the northern LIRR ROW sheeting cells (National Grid 2020). Six temporary wells installed in northern sheeting cells and the southern Brightwaters Yard. Temporary wells TMW-01/I2 through TMW-03/I2 installed in the three westernmost northern cells to assess remaining impacts and impacts at OU3MW-09I. Temporary wells screened from 12 to 17 ft bgs and at the bottom of the sheets from 25 to 30 ft bgs.

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. Table 1d below summarizes OU-4 remedial activities.

Table 1d. Summary of OU-4 Remedial Activities

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 off-site (GEI, 2010c).
April to December 2009	S-ISCO IRM	S-ISCO was implemented, per the NYSDEC-approved OU-4 Cesspool Area S-ISCO Work Plan (VeruTEK, 2008) and associated addenda (GEI, 2013).
April to August 2011	Cesspool Area and Pond Area Excavation IRM	OU-4 Upgradient Excavation completed in Q1 2011, monitoring well abandonment and the Cesspool Area shallow excavation (approximately 10 feet bgs) completed in July 2011, and pond area excavation completed in August 2011 (GEI, 2013).

2. Remediation Systems

Multiple remediation systems currently operating at the Site include a DNAPL recovery system, an ozone injection system and associated subsurface barrier wall, and seven oxygen injection systems. A description of each system, monitoring activities, and operational data for this reporting period are summarized below. Locations of the treatment systems, subsurface barrier wall, and monitoring wells are provided on Figure 1, while a summary remedial system progress, including remedial systems that were shut down after achieving remedial goals, is provided on Figure 2.

2.1 NAPL Monitoring and Recovery

2.1.1 *Program Scope and Purpose*

DNAPL and LNAPL monitoring are currently completed on a quarterly basis. LNAPL thickness measurements are collected with an oil/water interface probe, while DNAPL thickness measurements are collected by measuring the “smear” of DNAPL on a dedicated weighted measuring tape.

The BBRW-02 DNAPL recovery system, which is currently operated on a monthly basis, consists of a Blackhawk Electric Anchor Piston Pump which pumps DNAPL from BBRW-02 and discharges it to a 55-gallon steel drum. The DNAPL recovery system is operated manually to maximize DNAPL recovery, while minimizing the generation of water. The recovery schedule is evaluated annually and is adjusted, as needed.

2.1.2 *NAPL Monitoring Data*

2.1.2.1 *DNAPL Monitoring*

DNAPL thicknesses identified during this and the previous reporting period are provided below in Table 2a. DNAPL has historically been observed in OU-1 wells. DNAPL was also detected during sampling of OU-4 monitoring well WCMW-05I during the previous reporting period. This well has been added to the DNAPL monitoring list below. It should be noted that several DNAPL gauging results are not available from the Q4 2021 gauging event, as results from the monitoring event were inadvertently left off the gauging list.

Table 2a. Summary of Measured DNAPL Thicknesses

Well ID	Screen Interval	Average DNAPL Thickness (feet)							
		Q3 2020	Q4 2020	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
BBRW-01R	30-60	0.62	0.7	0.68	0.65*	0.65	0.33	0.65	0.32
BBRW-02	58.2-78.2	7.76	6.8	6.83	5.98	6.12	4.04	5.77	5.55
BBRW-05I	-	-	-	-	0.20	NO	NG	NO	NO
BBRW-05D	64-74	NO	NO	NO	NO*	0.45	NG	trace	0.09
BBRW-06	25-55	1.54	1.65	1.59	1.7	1.53	0.85	1.68	1.76
BBRW-08	65-75	2.14	2.1	2.18	1.85*	1.85	2.05	2.13	2.45
BBRW-09	66-76	NO	NO	NO	NO	NO	NO	NO	NO
BBMW-22D	64-74	4.61	4.41	4.58	4.11*	4.11	NG	4.25	4.60
BBMW-34I2	40-45	1.28	1.21	1.32	1.33	1.23	NG	1.11	2.09
BBMW-38I	25-30	1.06	1.13	1.35	1.27	1.80	NG	0.37	0.76
BBMW-38I2	40-45	0.96	0.97	0.97	1.47	0.80	NG	0.68	1.02
OZMW-21S	20-30	NO	NO	NO	NO	NO	NG	NO	NO
OZMW-21I	20-30	1.94	1.96	1.98	2.05	1.91	1.69	1.80	1.70
OZMW-21D	55-60	2.8	2.84	2.87	2.97	2.90	2.76	3.48	2.95
TG-29I2	55-65	NO	NO	NO	NO	NO	NO	NO	NO
TG-32I2	40-50	4.51	4.4	4.53	4.43	4.48	4.10	3.95	4.70
TG-32D	65-75	1.48	1.61	1.50	1.69*	3.69	1.32	1.56	1.31
TG-44I2	55-60	2.97	3.07	2.98	3.52*	3.52	3.02	3.27	3.32

Notes:

DNAPL historically observed at abandoned well BBRW-01. Replacement well BBRW-01R installed adjacent to BBRW-01.

BBMW-22D is located within 15 feet of BBRW-02 and is influenced by pumping operations at BBRW-02.

DNAPL thickness measured pre-recovery at BBRW-02.

“: Measurement collected on 10/30/2022.

*: Value from Q3 2021.

NO: Not observed

NG: Not gauged

NA: Not available

DNAPL thicknesses have remained generally consistent over the past several years.

2.1.2.2 LNAPL Monitoring

LNAPL has historically not been observed in OU-1 area wells since approximately 2015, with the exception of historical sporadic sheens and minor thickness detections at well OZMW-21S prior to Q2 2022, as identified below in Table 2b. The LNAPL thickness measurement at well OZMW-21S (0.07 feet) was remeasured in Q4 2022 due to a probe malfunction during the Q2 2022 gauging round.

Table 2b. Summary of Measured LNAPL Thickness

Well ID	Screen Interval	Average LNAPL Thickness (feet)							
		Q3 2020	Q4 2020	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022
BBMW-34I	25-30	NO	NO	NO	NO	NO	NA	NO	NO
BBMW-38I	25-30	NO	NO	NO	NO	NO	NG	NO	NO
BBMW-38D	65-70	NO	NO	NO	NO	NO	NG	NO	NO
OZMW-21S	15-May	0.21	sheen	sheen	0.1*	0.10	NG	NO	0.07"
OZMW-25I	20-30	NO	NO	NO	NO	NO	NO	NO	NO

Notes:

*: Measurement collected on 10/30/2022 due to a probe malfunction during the initial gauging round.

NO: Not observed

NG: Not gauged

NA: Not available

2.1.3 DNAPL Recovery Data

2.1.3.1 DNAPL Recovery

Over 701 gallons of DNAPL have been recovered from BBRW-02 since the beginning of recovery operations, as summarized below in Table 2c.

Table 2c. Summary of DNAPL Removal at Recovery Well BBRW-02

Time Period		Approximate DNAPL Thickness (feet)		Approximate DNAPL Removed
		Initial	Final	(Gallons)
Q3 2021	07/12/2021	7.9	5.1	4.13
	07/20/2021	6.0	4.8	1.69
	08/06/2021	6.6	4.6	3.00
	09/16/2021	4.9	4.1	1.28
Q4 2021	11/19/2021	7.1	7.1	0.00
	12/13/2021	6.6	4.4	3.19
Q1 2022	01/21/2022	6.6	4.7	2.75
	02/18/2022	5.3	4.5	1.04
	03/17/2022	5.4	4.4	1.60
Q2 2022	04/20/2022	6.0	4.1	2.82
	05/31/2022	6.2	3.9	3.32
	06/15/2022	6.4	4.1	3.38
Totals	Q3 2021 – Q2 2022	-	-	28.18
	To Date (Since Q1 2006)	-	-	701.46

Notes:

Total volume and minimum volume removed is calculated by multiplying the thickness by the cross-sectional area of the well.

Historical DNAPL recovery trends, as well as initial and final DNAPL thicknesses (measured prior to and post-recovery, respectively), are shown on Figure 3.

DNAPL thicknesses prior to recovery ranged from approximately 4.9 and 7.9 feet during this reporting period. DNAPL thickness results have varied in recent monitoring events; however, an overall decreasing trend has been observed since recovery activities were initiated in Q1 2006.

Over 28 gallons of DNAPL were recovered during this reporting period, averaging over 7 gallons per quarter. The total NAPL volume recovered during this reporting period represents an increase over the previous reporting period volume of approximately 20 gallons.

Recovery of DNAPL from additional wells with measured thicknesses greater than 1 foot (see Table 2a above) began with submersible pumps in early Q4 2022. DNAPL recovery rates for these wells will be monitored and recovery schedules will be established, as appropriate. These details and recovery totals will be provided in the following Annual GM and OM&M Report.

2.2 OU-1 Ozone Groundwater Treatment System

2.2.1 Program Scope and Purpose

The OU-1 ozone injection system operating at the downgradient edge of OU-1 reduces concentrations of dissolved-phase contaminants through ISCO prior to passing through a perforated section of the subsurface barrier wall, located at the downgradient boundary of OU-1.

The barrier wall extends through the Upper Glacial aquifer to approximately 70 feet bgs. A 190-foot section of the wall located parallel to Union Boulevard is perforated from approximately 10 to 40 feet bgs. This perforated zone creates a “window” where groundwater treated via the ozone injection system is discharged from OU-1 to OU-2. The ozone treatment area consists of 63 injection wells screened at 2-foot intervals between 27 and 50 feet bgs, with 11 horizontal SVE laterals. The SVE system formerly operating in this area was shut down due to low contaminant concentrations with NYSDEC approval; however, the SVE system remains in operational condition should contaminant concentrations warrant re-start.

2.2.2 Routine Ozone Injection System OM&M Activities

Routine ozone injection system OM&M activities are summarized below in Table 2d. All monitoring events were completed as planned during this reporting period, excluding the SVE system monitoring, which was completed following the end of this reporting period.

Table 2d. Routine Ozone Injection System OM&M Activities

Activity	Task Description	Frequency	Location of Results
Ozone System Monitoring	Routine inspection and maintenance of system components, monitoring of operational parameters, and recording/adjusting injected ozone concentrations.	Weekly	Details are recorded on field logs (not provided herein)
SVE System Monitoring	Monitoring of SVE manifold to confirm no excess ozone in subsurface. Maintaining the SVE system in "ready" condition for re-start, if needed.	Annually	Details are recorded on field logs (not provided herein)
System Performance Monitoring	Monitoring downgradient BTEX and PAHs in groundwater at well clusters OZMW-23 and OZMW-24.	Quarterly	Figure 4, Section 4, Table 4-1, and Table 4-2

2.2.3 Ozone Injection System OM&M Data

2.2.3.1 Performance Monitoring and Contaminant Concentration Trends

Ozone injection system performance monitoring is completed via quarterly monitoring of BTEX and PAHs in wells located within the treatment zone and downgradient of the system at wells located upgradient and immediately downgradient of the subsurface barrier wall. As a result of the ozone injection system operation, total BTEX and PAH concentration trends have reduced significantly over time in the shallow and intermediate zones at these well clusters (Figure 4).

Total BTEX concentrations in wells in OZMW-24I2 and OZMW-24D were elevated but were within the lower end of their historical range during this reporting period and were lower than corresponding total PAH concentrations. Although, elevated total PAH concentrations remain in OZMW-24I2 and OZMW-24D, concentrations remained within their historical ranges during this reporting period. Groundwater passing through the perforated section of the subsurface barrier wall is further treated by the OU-1 Union Boulevard oxygen injection system, further discussed below in Section 2.3. Groundwater quality trends are discussed further in Section 4.

2.2.3.2 Ozone Injection System

The Train 2 portion of the ozone injection system remained down throughout this reporting period due to a booster pump failure and an extended COVID-related lead-time for a replacement pump. The booster pump was replaced, and the Train 2 portion of the ozone injection system was restarted in early Q3 2022, which is described below.

The ozone injection system (Train 1) was operational for 270 out of 365 days (74%) during this reporting period, as follows:

- **Q3 2021:** The Train 1 portion of the system was shut down from August 10 through September 9, 2021 (approximately 30 of 92 days) due to failure and repair of the desiccant dryer, replacement of the dew point sensor, and biannual maintenance.

- **Q4 2021:** The Train 1 portion of the system was operational for all 92 days. Although not requiring significant downtime, biannual maintenance was completed during Q4 2021.
- **Q1 and Q2 2022:** The Train 1 portion of the system was shut down from February 18 through April 23, 2022 (approximately 65 of 181 days) due to failure and repair of the booster pump seals. Timing of repairs were affected by Covid-related supply chain issues.

The ozone injection system was designed to inject an air-ozone mixture of approximately 1.5% ozone and 98.5% air. The ozone injection system injected ozone at a total average rate of 1.52% during this reporting period, with quarterly averages ranging from approximately 1.05% (Q1 2022) to approximately 1.80% (Q4 2021). The ozone injection system injected an average of approximately 11 pounds of ozone per day during operational periods.

2.2.3.3 SVE System Monitoring

Annual monitoring of the SVE manifold effluent port is typically conducted during Q4 of each year, concurrent with annual system maintenance activities, to monitor ozone concentrations within the vadose zone in the area of the SVE manifold.

The Q4 2022 ozone sampling event was inadvertently not completed during this reporting period. However, ozone monitoring was conducted following the completion of the current reporting period and ozone was non-detect in the SVE manifold effluent port at that time, consistent with historical results.

2.3 Oxygen Injection Systems

2.3.1 Program Scope and Purpose

The oxygen injection systems located throughout OU-1, OU-2, and OU-3 generate and inject oxygen into the subsurface to create an aerobic environment, thus facilitating biodegradation of dissolved-phase contaminants. Given the significant contaminant concentration reductions achieved since startup of the oxygen injection systems, multiple systems and/or portions thereof have been shut down, as summarized in Section 1. Most recently, the 9 North Clinton Avenue system was shut down in August 2021, and post shut-down monitoring has commenced.

A summary of the oxygen injection systems currently operating at the Site during this reporting period is presented below in Table 2e.

Table 2e. Current Operating Oxygen Injection Systems

Operable Unit	Oxygen Injection System Designation	Operation Start Date
OU-1	OU-1 Union Boulevard System	Feb. 2008
	60/66 N. Clinton Ave System	Jan. 27, 2010
	OU-1 Union Boulevard Extension	Jun. 16, 2011
	OU-1 North System	Oct. 28, 2013
OU-2	Montauk Highway Oxygen Injection System*	Dec. 28, 2005
	34 N. Clinton Ave Oxygen Injection System	Jan. 20, 2009
	33 N. Clinton Ave. Oxygen Injection System	Mar. 31, 2009
	Cooper Lane Oxygen Injection Line (Extension of 33 N. Clinton System)	Nov. 16, 2009
	33 N. Clinton Ave/Cooper Lane Oxygen Injection Line	Mar. 31, 2009/ Nov. 16, 2009
OU-3	Community Road Oxygen Injection Line	Apr. 6, 2010
	87 Community Road	Sep. 26, 2013

Notes:

*: Manatuck portion of the system was shut down on May 10, 2019.

2.3.2 Routine Oxygen Injection System OM&M Activities

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

Table 2f. Routine Oxygen Injection System OM&M Activities

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

2.3.3 Oxygen Injection System OM&M Data

2.3.3.1 System Operational Data

Overall, the oxygen injection systems were operational approximately 85% of the time during this reporting period. Downtime during this reporting period resulted from power outages, scheduled maintenance, and mechanical issues (primarily issues with a refrigerated dryer failure, compressor malfunctions, booster pump malfunctions), with the majority occurring at the OU-1 Union Boulevard and Extension and the 60/66 North Clinton Avenue and Community Road systems. Low oxygen percentages were also observed at the 33 North Clinton and the Garner Lane oxygen injection systems. These systems are operational, but at a reduced capacity.

The low O₂ percentage is likely due to improper valve operation on the oxygen generator or spent sieve material. GEI is currently troubleshooting these problems.

Approximately 358,533 lbs of oxygen were injected at OU-1, OU-2, and OU-3 during this reporting period. Calculated oxygen weights and system operational data are summarized below in Table 2g. It should be noted that the 9 North Clinton Ave, system was shut down with NYSDEC approval in August 2021 and, as it was operating normally up to that point, its operational time for this reporting period is calculated as 100% below.

Table 2g. Oxygen Injection System Operational Data

Operable Unit	Oxygen Injection System/Treatment Line	System % Operational Time (Q3 2021-Q2 2022)	Oxygen Injected (pounds)					Total Oxygen Injected Through Operational Period (Pounds)
			Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2021 - Q2 2022	
OU-1	OU-1 Union Boulevard and Extension	64.9%	3,397	10,314	10,410	14,823	38,944	797,966
	60/66 N. Clinton (O ₂ to OU-1)	67.1%	0	10,241	13,028	13,370	36,639	397,382
	OU-1 North	77.3%	10,527	6,156	7,680	5,833	30,196	332,163
OU-2	Garner Lane	100.0%	9,125	7,250	4,173	4,240	24,788	1,320,281
	9 North Clinton	100%	3,768	0	0	0	3,768	626,122
	34 N. Clinton	100.0%	21,969	12,626	11,457	12,519	58,570	881,888
	33 N. Clinton/Cooper Lane	94.8%	19,233	24,524	24,701	5,998	74,456	937,090
OU-3	Community Road (60/66 N. Clinton [O ₂ to OU-3])	67.1%	0	12,499	15,168	16,405	44,072	735,200
	87 Community Road	93.4%	9,423	12,542	12,143	12,993	47,101	436,969
Totals		85.0%	77,441	96,151	98,761	86,180	358,533	6,465,060

Calculated oxygen weights for the OU-1, OU-2, and OU-3 systems are provided in Appendices B, C, and D, respectively.

2.3.3.2 Performance Monitoring and Groundwater Parameters

As summarized below in Table 2h and Table 2i, operation of the oxygen injection systems has significantly increased both DO and ORP in groundwater in the OU-1, OU-2, and OU-3 areas.

Table 2h. Summary of DO Concentrations

Operable Unit	Groundwater Interval (feet)	DO Concentrations (mg/L)			Downgradient Monitoring Wells
		Baseline Average	Historical Average	Q3 2021 – Q2 2022 Average	
OU-1	Shallow Zone	12.5	20.8	12.4	OZMW-16, OZMW-17, OZMW-18, OU2MW-50, OU2MW-57
	Intermediate Zone	7.0	16.3	11.6	
	Deep Zone	0.1	6.4	5.4	
OU-2	Shallow Zone	5.4	23.8	9.9	OU2MW-02, OU2MW-19, OU2MW-30, OU2MW-39, OU2MW-47, OU2MW-55
	Intermediate Zone	3.0	24.6	15.6	
	Deep Zone	5.0	12.9	7.5	
OU-3	Shallow Zone	9.9	9.4	10.8	OU3MW-07, 19, 20, IO-10, MW-34, MW-46WR, MW-70/70S
	Intermediate Zone	2.4	13.5	10.5	

Notes:

mg/L – milligrams per liter

Table 2i. Summary of ORP Values

Operable Unit	Groundwater Interval (feet)	ORP Values (millivolts)			Downgradient Monitoring Wells
		Baseline Average	Historical Average	Q3 2021 – Q2 2022 Average	
OU-1	Shallow Zone	29	143	115	OZMW-16, OZMW-17, OZMW-18, OU2MW-50, OU2MW-57
	Intermediate Zone	63	177	179	
	Deep Zone	0	90	55	
OU-2	Shallow Zone	51	224	226	OU2MW-02, OU2MW-19, OU2MW-30, OU2MW-39, OU2MW-47, OU2MW-55
	Intermediate Zone	3	190	188	
	Deep Zone	50	139	134	
OU-3	Shallow Zone	-4	49	96	OU3MW-07, 19, 20, IO-10, MW-34, MW-46WR, MW-70/70S
	Intermediate Zone	20	170	186	

Specific trends in DO and OPR values are presented below:

- Although lower than the historical averages in select areas and intervals, likely due to system operation interruptions identified above, DO concentrations in shallow and intermediate groundwater (OU-1, OU-2, and OU-3) and deep groundwater (OU-1 and OU-2) have generally remained significantly above baseline values (prior to system startup), including during this reporting period.

- ORP values in all monitored areas and intervals have increased significantly above baseline values collected prior to system startup and have remained elevated during this reporting period.

Historical DO and ORP concentrations (and pH, conductivity, and temperature) for Site wells are provided in Appendix E.

2.3.3.3 Performance Monitoring and Contaminant Concentration Trends

Significant reductions in total BTEX and total PAH concentration trends have been observed since startup of the oxygen injection systems, as discussed in Section 4. Total BTEX and total PAH concentration trends compared to DO concentrations at monitoring wells located at and downgradient of OU-1, OU2, and OU-3 are depicted on Figures 4, 5 and 6, respectively.

3. Groundwater Level Monitoring and Well Condition Assessment Programs

This section presents a summary of the hydrogeologic setting of the Site, the groundwater level monitoring program, and the results of groundwater elevation and groundwater flow direction monitoring for the Site.

3.1 Hydrogeologic Setting

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; though, the Upper Glacial aquifer is not used as a source of potable water at or downgradient of the Site.

The Upper Glacial aquifer is a moderate to highly permeable glacial outwash deposit, consisting mainly of inter-bedded layers of permeable sand and gravel and less permeable layers of silty sand. The Upper Glacial aquifer is approximately 70 feet thick at the Site. The water table is present within the upper 10 feet of the aquifer at the Site, which becomes progressively more shallow downgradient of the Site. Lower permeability zones define the boundary between the Upper Glacial and Magothy aquifers in the vicinity of the Site.

3.2 Groundwater Level Monitoring

Groundwater level monitoring is conducted annually at the Site to determine groundwater elevations and resultant groundwater flow regimes. Review of groundwater elevations and flow directions aids in monitoring and evaluating the effectiveness of remedial activities and is also useful in future remedy planning. Well locations are depicted on Figure 1.

The network of wells at the Site includes 80, 137, 52, and 43 wells located at OU-1, OU-2, OU-3, and OU-4, respectively. In addition, five surface water gauging stations are located at the Site, as follows: BBSW-07 at Lawrence Lake and OU2SW-01 and BBSW-06 at Lawrence Creek (OU-2); BBSW-13 at O-Co-Nee Pond (OU-3); and BBSW-14 at Watchogue Creek (a.k.a., Crum's Brook) along Union Boulevard (OU-4). Primarily based on limited access to some wells and some wells not having been surveyed, depth to groundwater measurements were collected from a total of 257 wells and five surface water gauging stations throughout the Site in Q2 2022 (June 27 through June 30, 2022). Given the number of wells monitored and their vertical and areal distributions throughout the Site, it was determined that sufficient water level data was collected to effectively determine groundwater elevations and flow directions throughout the shallow and deep portions of the aquifer at the Site.

Depth to groundwater results and calculated groundwater elevations (based on the North American Vertical Datum (NAVD) 88 datum [November 2007 or subsequent surveys]) are provided in Tables 3-1 through 3-8.

3.3 Groundwater Elevations and Flow

As depicted on Figures 7 through 9, shallow and deep groundwater flow directions at and downgradient of the Site are generally toward the south/southeast, with generally similar shallow and deep groundwater elevations and flow directions.

Figure 10 provides hydrographs depicting historical groundwater elevations for select representative shallow, intermediate, and deep zone wells from Q2 2022. The hydrographs show typical historical seasonal variations in groundwater elevations throughout all aquifer zones. Q2 2022 values are generally lower than average historical values, but similar to the previous monitoring event (Q2 2021).

Minimum and maximum historical values used for the hydrograph are summarized below in Table 3a.

Table 3a. Summary of Historical Groundwater Elevations

Groundwater Depth Zone	Minimum Historical Water Level Elevation			Maximum Historical 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).

3.4 Monitoring Well Condition Assessment Program

Concurrent with the collection of groundwater level measurements, the condition of each well is assessed for damage or other indications which may affect the viability of the wells. All wells were observed to be accessible and in good condition during this reporting period; however, minor repair items, such as replacement of broken well covers, etc., were completed concurrently with site-wide groundwater sampling activities.

As summarized in a December 2021 Monitoring Well Abandonment letter, a total of 17 monitoring wells located in the OU-3 area were abandoned in October 2021, in accordance with the NYSDEC-approved work plan and NYSDEC's CP-43 monitoring well decommissioning policy document. A summary of the monitoring wells abandoned at OU-3 during this reporting period is provided below in Table 3b.

Table 3b. Summary of Abandoned Monitoring Wells at OU-3

Monitoring Well ID	Total Depth (ft bgs)	Screened Interval (ft bgs)
Monitoring Well Cluster BMW-09		
BMW-09S	15	5-15
BMW-09I	40	30-40
BMW-09D	72	62-72
83 Community Road Monitoring Wells		
MW-76	16	11-16
SV-03	72	2-12
87 Community Road Monitoring Wells		
MW-73	12	2-12
MW-73I	27	22-27
MW-75	12	2-12
MW-75I	27	22-27
MW-79	20	5-20
MW-81	20	5-20
MW-82	20	5-20
OU3MW-14S	12	2-12
OU3MW-15S	12	2-12
SV-02	12	2-12
SV-02I	27	22-27
SV-02I2	40	35-40

4. Groundwater Quality

A summary of total BTEX and total PAH groundwater impacts for the current reporting period is provided in the subsections below. Also provided below is a description of the lateral and areal extents of the current composite plume for each of the OUs, based on the sample results from the annual sample round completed in Q2 2022. As indicated above, the annual sampling round includes the largest number of wells and is, therefore, the most complete data set.

Given the reductions in plume size and contaminant concentrations achieved through implementation of remedial activities at the Site since Q1 2009 (as summarized in Section 1) and based on the 2012 NYSDEC-approved monitoring program modification/reduction criteria, a total of 157 wells were sampled during this reporting period (61 wells at OU-1, 52 wells at OU-2, 31 wells at OU-3, and 13 wells at OU-4). The groundwater well locations, as well as geographic boundaries and remedial components for all Site OUs, are depicted on Figure 1.

To facilitate an understanding of the scope and scale of remedial progress at and downgradient of all Site OUs, Figure 1 also provides representations of the areal extents of the composite total BTEX and total PAH plumes from the 2004 RI, the “baseline” pre-remedial Q1 2009 investigation (as further explained below), and the current Q2 2022 annual sampling round. Given the multiple remedial activities completed at the Site since Q1 2009 (summarized in Section 1), it would be expected that contaminant concentrations would have reduced significantly and that overall contaminant concentration trends would have been reduced over time at the Site. As described below, a comparison of current and historical contaminant concentrations and trends confirms such expectations.

The groundwater quality descriptions and comparisons below are generally organized by OU, then by OU feature (i.e., upgradient or downgradient of the OU-1 barrier wall, etc.), as appropriate, and then by aquifer zone, as follows:

- **Shallow Zone:** Includes wells with the top of the well screen located up to 10 feet bgs.
- **Intermediate Zone:** Includes wells with the top of the well screen located from 10 feet through up to 50 feet bgs.
- **Deep Zone:** Includes wells with the top of the well screen located at or deeper than 50 feet bgs.

The below subsections provide a description of iso-concentration maps developed to illustrate the current and historical distributions of total BTEX and total PAH concentrations at and

downgradient of the Site OUs (Figures 11 through 16); a discussion of current contaminant concentrations and applicable comparisons to historical data; and an analysis of sulfate concentrations within select OU-1 and OU-2 wells.

4.1 Current and Historical Plume and Iso-Concentration Maps

The distribution of total BTEX and total PAH concentrations within the Upper Glacial aquifer for the annual Q2 2022 sample round are depicted as iso-concentration lines for the three aquifer zones (shallow, intermediate, and deep) presented in Figures 11 through 16, respectively. As such, the iso-concentration lines depict the Q2 2022 data set only and will not include BTEX and PAH variations identified in other quarters during this reporting period. Iso-concentration figures associated with the quarterly sampling events completed during this reporting period (Q3 2021, Q4 2021, and Q1 2022) are also provided in Appendix F, for informational purposes.

It should be noted that data associated with temporary wells in OU-3 are excluded from the iso-concentration figures, given their differing construction materials and methods.

The iso-concentration lines depicting the Q1 2009 sample round on each figure represent historical pre-remedial or “baseline” groundwater conditions within the OU areas. As such the Q1 2009 data plume is referred to as the Baseline Q1 2009 Plume. However, it should be noted that, pre-S-ISCO injection data generated in April 2009 for several OU-4 wells (WCMW-11S, I, and D, WCMW-17S, I, and I2, and WCMW-18WT, S, I, and I2) was used in the development of the Baseline Q1 2009 iso-concentration maps.

The horizontal distribution of contaminants on each figure are depicted as lines of equal concentration (iso-concentration lines), which 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, considering 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 purposes of this report, the areal extent of groundwater impacts (total BTEX and total PAH plume outlines) for each aquifer zone is defined by the 100 µg/L contour. The iso-concentration lines also define the areal extents of the composite plumes represented on Figure 1.

Based on review of Figures 11 through 16, the overall OU1/OU2 groundwater plumes (concentrations of total BTEX and total PAH equal to or greater than 100 µg/L) have significantly reduced in size and concentration since remedial activities began in 2009. These significant reductions include the elimination of shallow and intermediate impacts above 100 µg/L in OU-2, excluding one shallow well (BBMW-23S) located near the OU-1/OU-2 boundary. Prior to implementation of remedial activities, intermediate zone OU-2 impacts were historically present from the OU-1 source area extending approximately 2,700 feet southeast from the Site.

As depicted on Figure 11, OU-3 shallow BTEX impacts in the Brightwaters Yard have been reduced by up to two orders of magnitude by implementation of the various remedial activities at the Site, and generally continue to decrease over time. Intermediate impacts identified in the area have also been reduced significantly (Figures 13 and 14). Similar decreases are also evident in the shallow and intermediate zones downgradient of the Brightwaters Yard, where impacts above 100 µg/L have been greatly reduced. Shallow impacts (primarily total BTEX) downgradient of the Brightwaters Yard historically extended south of Union Boulevard, prior to implementation of remedial activities (remedial excavations, treatment system installations and modifications, and ORC-A injections), as detailed in Section 1.

Review of Figures 11 through 14 indicates that OU-4 wells continue to exhibit decreasing concentration trends in shallow and intermediate zone wells. However, impacts above 100 µg/L are periodically detected in limited shallow and intermediate wells screened outside or below the vertical extent of the remedial excavation. No impacts have been present in the deep zone.

The lateral and areal extents of the current (annual Q2 2002 groundwater sampling event) and historical plume at the Site are discussed further and the iso-concentration figures referred to as appropriate in the following subsections to facilitate an understanding of the scope and scale of remedial progress over time at the Site.

4.2 Operable Unit 1/Operable Unit 2

The groundwater plume emanates from the source area (OU-1) and extends downgradient into the OU-2 area. Due to their dependent relationship, the two OUs are presented and evaluated together in this section.

Of the 61 groundwater samples collected throughout the OU-1 and OU-2 areas, a total of 42 wells exhibited exceedances of the AWQS for total BTEX and/or total PAHs during this reporting period; however, 26 of these wells that exhibited total BTEX and/or total PAHs concentrations above 100 µg/L are located within the capture zone of the barrier wall and the on-site OU-1 groundwater treatment area. As identified in Section 2.1.2, multiple wells in this area also exhibited measurable thicknesses of NAPL and were, therefore, not sampled.

4.2.1 Total BTEX and Total PAH Composite Plume Comparison

Based on review of Figure 1, the composite Q2 2022 plume is similar to recent events and is comprised of one main area, which has been significantly reduced in overall area from the single larger historical 2004 RI plume, with two smaller areas in the vicinity of the barrier wall. The main plume area begins in the upgradient portion of OU-1 and extends downgradient into OU-2, while the two smaller plume areas are located immediately to the east of the barrier wall within the OU-1 area and southwest of the main plume area, with small areas defined by impacts observed in only one well cluster each.

Overall, current shallow and intermediate impacts above 100 µg/L at OU-2 have been largely eliminated and are only present in one shallow well (BBMW-23S). In comparison to the Baseline Q1 2009 Plume, the current composite Q2 2022 plume has been significantly reduced in both length and width, with the majority of impacts limited to the upgradient portion of the mid-plume area. The current composite plume has been reduced by over 2,000 feet in length and 450 feet in width (at its widest point) in comparison to the Baseline Q1 2009 plume (Figure 1).

4.2.2 OU-1/2 Groundwater Quality

The groundwater quality discussion below is divided into two sections: upgradient of the barrier wall; and outside the capture zone at OU-1 and/or downgradient the barrier wall at OU2. Historical total BTEX and total PAH analytical results are presented in Tables 4-1 and 4-2 for OU-1 and Tables 4-4 through Table 4-9 for OU-2. Analytical results for this reporting period for OU-1 and OU-2 are presented in Table 4-3 and Table 4-10, respectively.

4.2.2.1 Upgradient of the Barrier Wall

Current contaminant concentrations upgradient of the barrier wall remain similar to recent results, with maximum concentrations well above 1,000 µg/L (total BTEX and total PAHs). It should be noted that wells exhibiting such concentrations are all located upgradient of the barrier wall. Downgradient of the wall and the oxygen injection system in the area, impacts have been greatly reduced, as discussed further below. In general, impacts upgradient of the barrier wall are most prevalent in the central and western portions of the area between the LIRR and the subsurface barrier wall in each of the three groundwater zones. The highest concentrations in the shallow portion of the aquifer are generally total BTEX, while total PAH concentrations are generally higher in the intermediate and deep zones. It should be noted that three intermediate wells located north of the LIRR (BBMW-34I2, BBMW-38I, and BBMW-38I2) have not been sampled in recent events due to the presence of DNAPL in the wells, as described in Section 2.1.2.

Impacts above 100 µg/L to the north of the LIRR are limited to the shallow and intermediate zones. Similar to previous monitoring events, monitoring well BBMW-41S, located north of the LIRR, exhibited the highest total BTEX (ranging up to 3,707 ug/L in Q4 2021) during this reporting period, though concentrations are historically variable. The highest total PAH concentrations (ranging up to 5,633 ug/L in Q2 2022) were detected in monitoring well OZMW-24I2, located downgradient of the ozone injection system and upgradient of the subsurface barrier wall. In addition, several shallow wells in the area north of the LIRR, particularly on the eastern portion of OU-1, have historically exhibited total BTEX and total PAH concentrations sporadically above 100 ug/L. These and other variable shallow zone detections are likely the result of fluctuations in groundwater elevations.

As shown below in Table 4a, shallow and intermediate contaminant concentrations upgradient of the barrier wall have been significantly reduced since implementation of remedial activities in Q1 2009 described in Section 1.

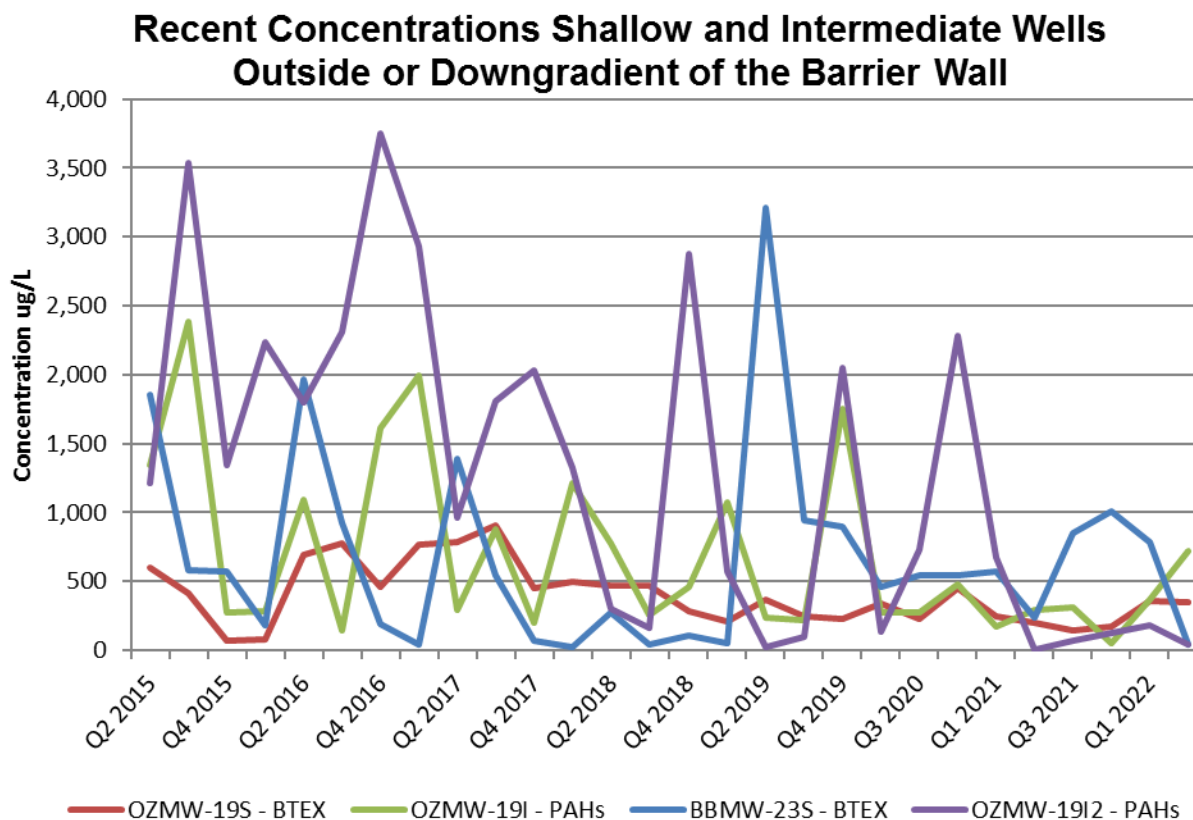
4.2.2.2 Outside and/or Downgradient of the Barrier Wall

Contaminant concentrations above 100 µg/L have been reduced significantly outside and/or downgradient of the barrier wall capture zone since implementation of remedial activities in Q1 2009. As such, several oxygen injection systems have been shut down with NYSDEC approval. Most recently, the 9 North Clinton Avenue system was shut down in August 2021, and post shut-down monitoring has commenced.

In recent sampling events, concentrations above 100 µg/L in the shallow or intermediate zones were generally present in only two areas: in the shallow zone immediately downgradient of the barrier wall at monitoring well BMW-23S and OZMW-18S; and in the shallow and intermediate zones at the OZMW-19 cluster (OZMW-19S, OZMW-19I, and OZMW-19I2), located immediately to the east of the barrier wall. Total BTEX concentrations above 100 µg/L were identified at shallow wells BMW-23S and OZMW-19S in the majority of sampling events during this reporting period, while BTEX concentrations in BMW-23S were at or near 1,000 µg/L, and have decreased significantly, as discussed further below. Total PAHs concentrations in intermediate wells OZMW-19I and OZMW-19I2 were sporadically above 100 µg/L throughout the reporting period, though were generally lower in the deeper intermediate zone (OZMW-19I2). BTEX concentrations were also sporadically above 100 µg/L in OZMW-19I2. Contaminant concentrations in each of the OZMW-19 wells have been variable, though generally decreasing, in recent events and are significantly below historical levels.

Shallow well BMW-23S, located immediately downgradient of the barrier wall, is the only shallow well in this area exhibiting remaining contaminant concentrations in exceedance of 100 µg/L. Overall, impacts at BMW-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 (Q1 2009). Total BTEX concentrations in BMW-23S continue to be variable, but have been generally decreasing in recent events, following a temporary significant increase during Q2 2019. The Q2 2022 total BTEX concentration (45 µg/L) was near the historical minimum. Total PAH concentrations in BMW-23S have trended lower over time, remaining below 100 µg/L during this reporting period. Historically, this well has exhibited temporary contaminant concentration increases in February and June, corresponding to periods of higher water table elevations. The shallow impacts still observed at BMW-23S are currently localized and are not observed downgradient of the Cooper Lane oxygen injection system.

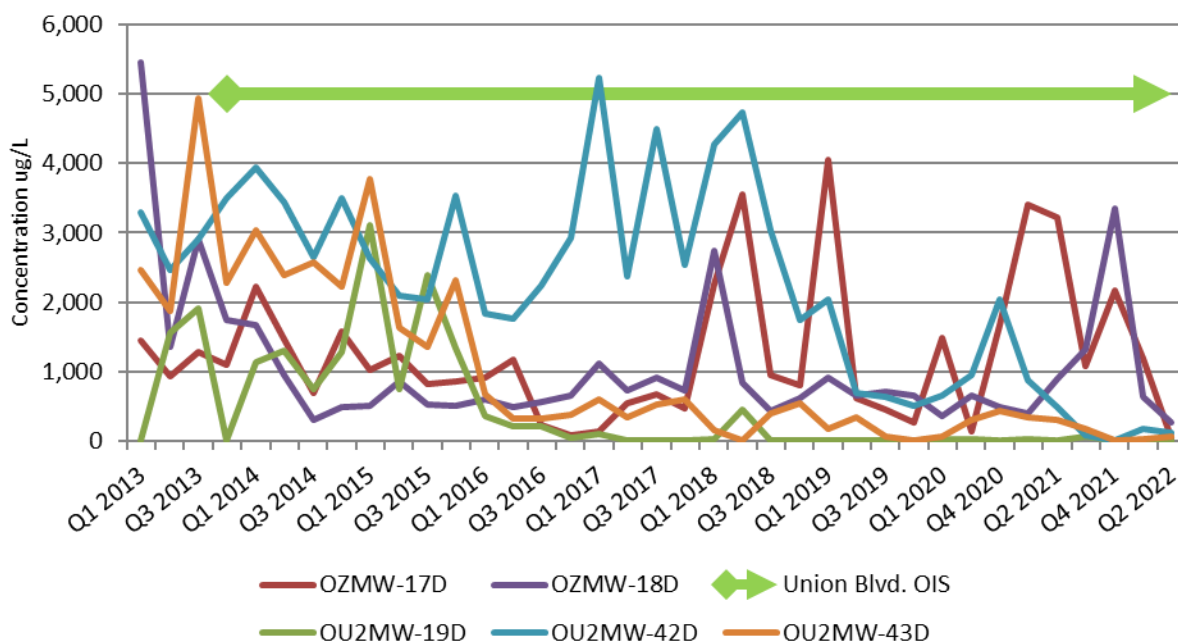
The recent shallow total BTEX and intermediate total PAHs concentrations in these wells are presented on the graph below.



In the deep zone, total BTEX and total PAH concentrations above 100 µg/L are currently observed in the area immediately downgradient of the barrier wall. Concentrations observed are similar to recent sampling events (Figures 15 and 16). Total PAH impacts are larger in area and are generally characterized by higher concentrations than corresponding total BTEX concentrations and are, therefore, the focus of the discussion below.

In general, total BTEX and total PAH detections in deep wells located immediately downgradient of the barrier wall (OZMW-17D and OZMW-18D) have remained elevated in recent sampling events. Current average deep concentrations at OZMW-17D and OZMW-18D have increased relative to the previous reporting period (see total PAH graph below). However, significant decreases were noted in these wells during Q2 2022, with only total PAHs in OZMW-18D remaining above 100 µg/L.

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



Further downgradient, BTEX was not detected at concentrations above 100 µg/L in any deep OU-2 well. Current deep total PAH impacts within the OU-2 area extended to Cooper Lane and the 33 North Clinton Avenue oxygen injection system. Although significant contaminant concentrations reductions have been achieved at wells OU2MW-42D and OU2MW-43D in this area relative to historical levels, concentrations of total PAHs in these wells have remained periodically elevated, at respective concentrations of up to approximately 172 µg/L and 166 µg/L during this reporting period. It should be noted that current total PAH concentrations in wells OU2MW-42D and OU2MW-43D, as well as OU2MW-19D, have decreased relative to the previous reporting period (see graph above). Additional remedial measures will be considered in the event that contaminant concentrations remain elevated in this area.

As described above, shallow and intermediate zone concentrations in the area downgradient of the barrier wall have decreased significantly since the start of remedial activities in Q1 2009; however, deep zone concentrations have remained elevated. Average contaminant concentrations at well clusters located immediately downgradient of the barrier wall (OZMW-16, OZMW-17, and OZMW-18), are provided in the below in Table 4b.

Table 4a. Average Contaminant Concentrations Downgradient of Barrier Wall

Compound Group	Depth Zone					
	Shallow		Intermediate		Deep	
	Q1 2009	Q2 2022	Q1 2009	Q2 2022	Q1 2009	Q2 2022
Total BTEX	294	6.2	580	4.8	60	29.8
Total PAH	53	ND	838	0.3	434	101

Notes:

Concentrations provided in µg/L.

ND: Not Detected.

Current contaminant exceedances of the AWQS downgradient of the barrier wall and the oxygen injection system at the downgradient edge of OU-1 were limited during the current reporting period. Excluding the monitoring wells discussed above, sporadic exceedances of the AWQS for toluene, ranging in concentration from 5.6 µg/L to 88 µg/L, were detected at cluster OU2MW-02 (intermediate wells OU2MW-02S and OU2MW-02I and deep well OU2MW-02I2). Toluene was not detected in any wells upgradient of the OU2MW-02 well cluster. Toluene concentrations will be closely monitored at this location during future sampling events. Aside from the above descriptions, no other BTEX compounds were detected above the AWQS in the OU-2 wells.

Time series plots for wells located downgradient of the oxygen injection systems are provided on Figures 4 and 5, which graphically depict the above analytical results and illustrate the significant contaminant concentration reductions achieved through implementation of remedial activities at the Site since Q1 2009 (as summarized in Section 1).

4.3 Operable Unit 3

Given the reductions in plume size and contaminant concentrations resulting from the implementation of remedial activities in OU-3 (as summarized in Section 1), a total of 31 monitoring wells are currently sampled quarterly at OU-3. A total of 16 wells exhibited exceedances of the AWQS for total BTEX and/or total PAHs during this reporting period; however, the exceedances were not consistently observed. Concentrations of total BTEX or total PAHs above 100 µg/L were detected in seven wells, but only total BTEX was consistently above 100 µg/L in each sampling event in OU3MW-08S during the reporting period.

As a result of historical remedial activities, significant reductions in groundwater impacts at and downgradient of OU-3 have been noted during recent sampling events, with no impacts above 100 µg/L detected downgradient of the LIRR sheeting cells. Downgradient detections above the AWQS were limited to only four wells during this reporting period, as discussed below.

4.3.1 Total BTEX and Total PAH Composite Plume Comparison

In comparison to the Q1 2009 OU-3 plume configuration, current (annual Q2 2002 groundwater sampling event) contaminant concentrations above 100 µg/L at OU-3 have been reduced

significantly and are limited to only one small area in the vicinity of Brightwaters Yard shallow well OU3MW-08S (up to 2,740 µg/L) and intermediate well OU3MW-09I (up to 169 µg/L). One shallow and one intermediate well located immediately south of the LIRR ROW (OU3MW-13S and MW-64, respectively) exhibited one detection above 100 µg/L during this reporting period. No contaminant concentrations above 100 µg/L were observed downgradient of Community Road during the current reporting period.

The current composite OU-3 plume is generally similar in size to the previous Q2 2021 plume depiction.

4.3.2 OU-3 Groundwater Quality

Typically, OU-3 wells exhibit significantly lower PAH concentrations than comparable BTEX concentrations. As such, BTEX is used as an indicator of site-related groundwater impacts and is the focus of the discussion below, which has been divided into three areas: upgradient (Brightwaters Yard); within the LIRR ROW sheeting cells; and downgradient of the LIRR ROW.

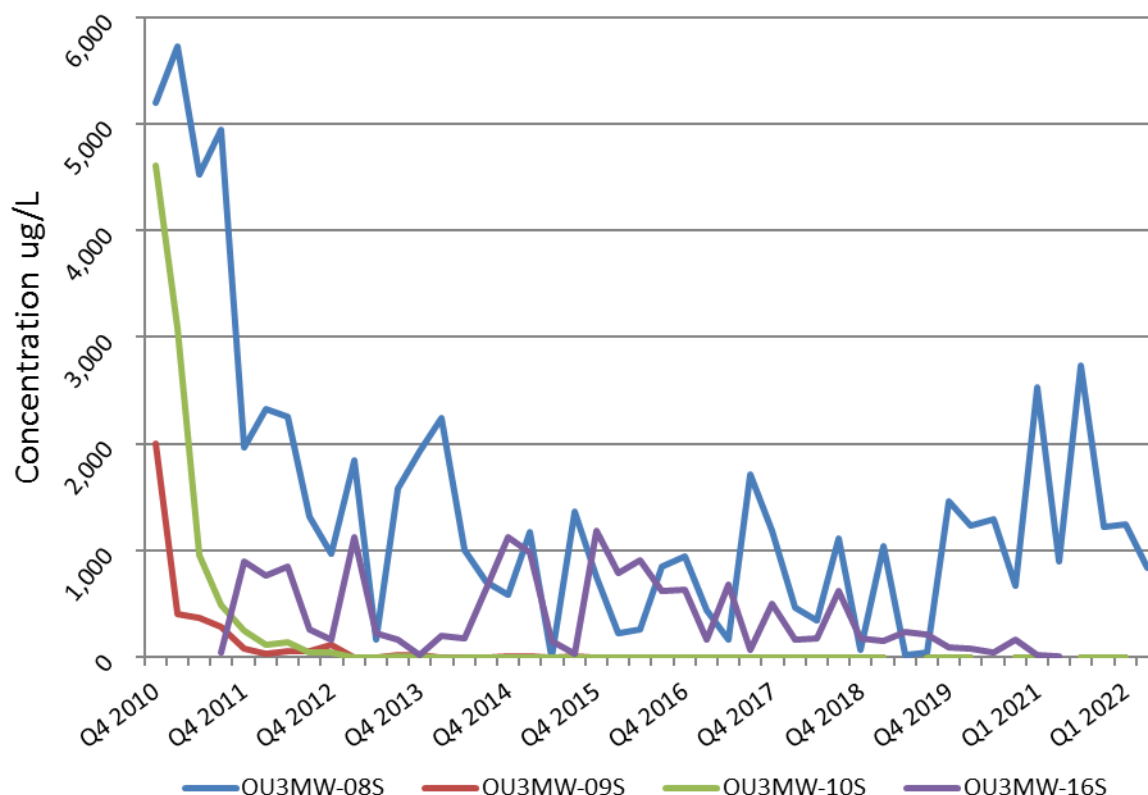
Historical OU-3 total BTEX and total PAH concentrations are presented in Table 4-11 and Table 4-12, respectively, while current analytical results for this reporting period are presented in Table 4-13. The area of total BTEX and total PAH impacts above 100 µg/L are provided on Figures 11 through 14.

4.3.2.1 Upgradient Area (Brightwaters Yard)

Shallow groundwater concentrations in the Brightwaters Yard have decreased significantly via the completion of several remedial actions in this area (Section 1), including the September 2019 ORC-A injection program. Historical ORC-A injection and OU-3 permanent and temporary monitoring well locations are shown in Figure 17.

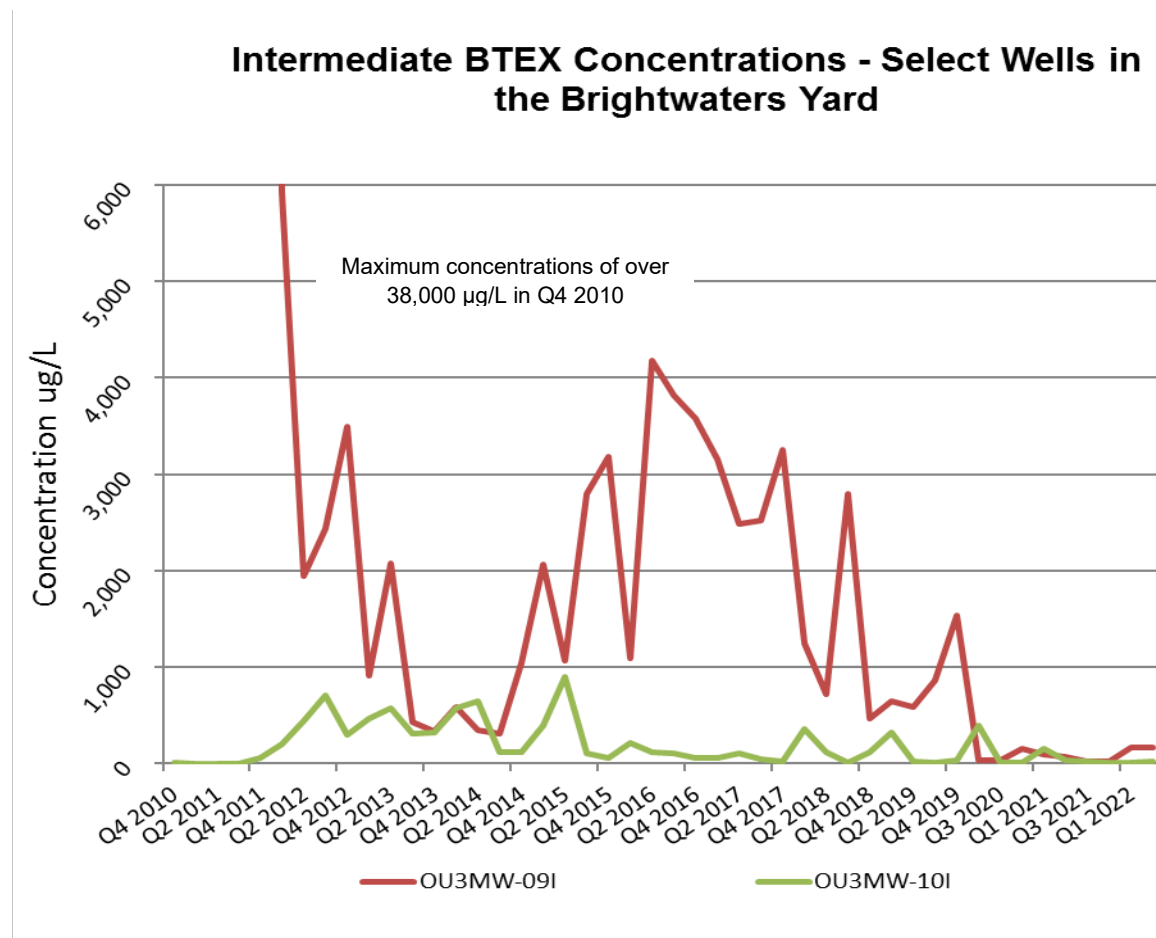
The greatest total BTEX concentrations in the area (ranging from 838 µg/L to 2,740 µg/L) were detected in shallow monitoring well OU3MW-08S, located in the southwest portion of the Brightwaters Yard, west of the historical main source excavation area. Total BTEX concentrations in OU3MW-08S were variable, though predominantly trending downward since Q3 2021, but were generally slightly higher than the previous reporting period (see graph below). It should be noted that, based on review of the OU3MW-08S boring log, a shallow peat unit exists in the vicinity of the well, potentially limiting ORC-A effectiveness around the well. However, possibly due to the ORC-A injections, contaminants in nearby well OU3MW-16S continue to exhibit near-historical low concentrations, with total BTEX ranging from 0.38 µg/L to 37 µg/L and total PAHs ranging from non-detect to only 6.9 µg/L during this reporting period.

Post Excavation Shallow BTEX Concentrations - Select Wells in the Brightwaters Yard



During the current reporting period, total BTEX concentrations above 100 $\mu\text{g/L}$ in intermediate wells were limited to OU3MW-09I (ranging from 24.27 $\mu\text{g/L}$ to 169 $\mu\text{g/L}$), located in the Brightwaters Yard immediately upgradient of the LIRR excavation area (see graph below). Similar to, though less pronounced than the historical reductions observed in shallow groundwater in this area, contaminant concentration reductions have been observed at intermediate well OU3MW-09I. Although still elevated, detections at intermediate well OU3MW-09I are approximately three orders-of-magnitude below initial concentrations detected immediately following source area excavation (up to 38,700 $\mu\text{g/L}$ in Q4 2010). These variations may be related to fluctuations in groundwater elevations. Total BTEX concentrations in intermediate monitoring well OU3MW-10I continue to vary slightly (ranging from 8.9 $\mu\text{g/L}$ to 22.1 $\mu\text{g/L}$ during this reporting period) and were well below the high from the previous reporting period of 154 $\mu\text{g/L}$. Concentrations of total PAHs in these wells are lower than the corresponding total BTEX concentrations but have followed similar trends.

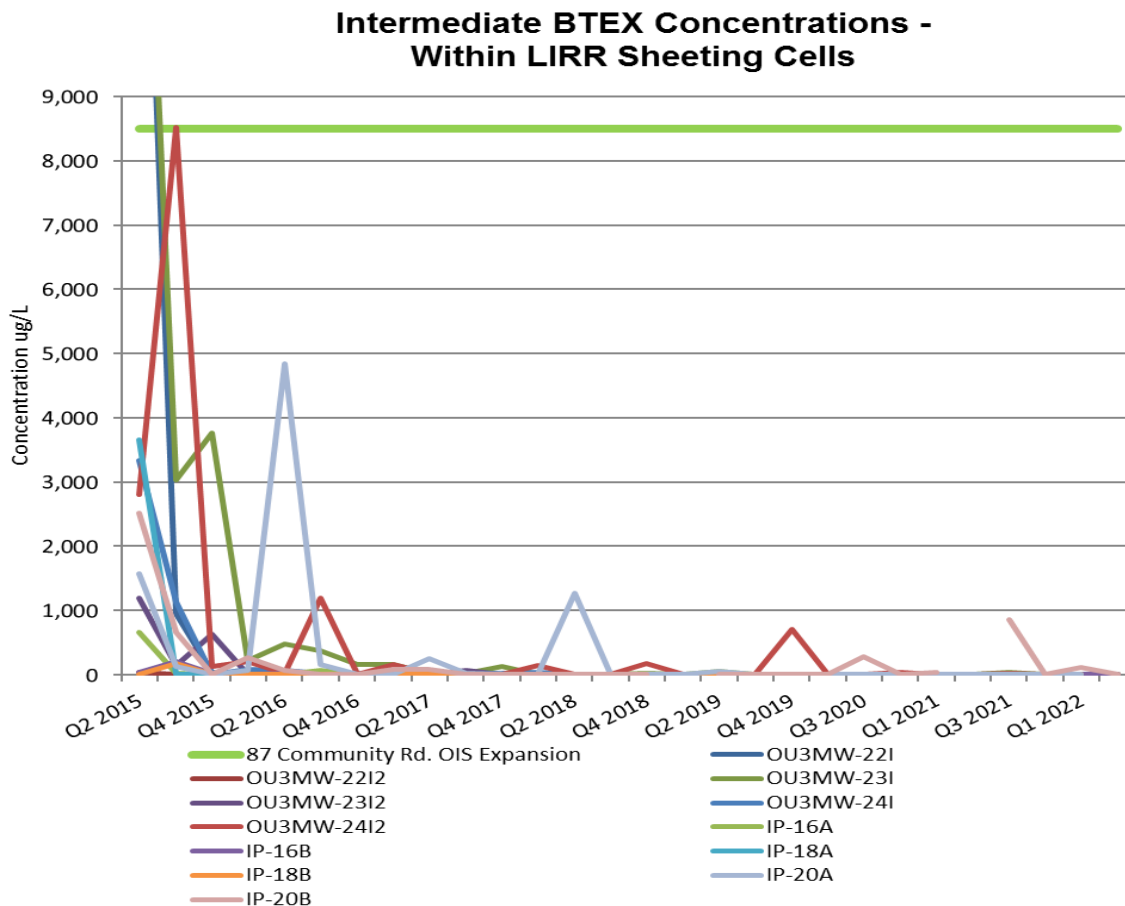
Given the above assessment, the September 2019 ORC-A injection program has resulted in significant contaminant concentration reductions at OU3MW-09I and OU3MW-16S but has been less effective in reducing contaminant concentrations at OU3MW-08S.



4.3.2.2 Sheeting Cell Areas (Southern Brightwaters Yard and LIRR ROW)

Consistent with historical trends, contaminant concentrations within the sheeting cells at the southern portion of the Brightwaters Yard varied widely, with highs generally near the upper end of historical concentration ranges. Total BTEX concentrations in temporary wells (TMW-01I, TMW-02I, and TMW-03I) ranged from 0.3 µg/L to 222 µg/L. Total BTEX concentrations in temporary wells (TMW-01I2, TMW-02I2, and TMW-03I2) ranged from 0.34 µg/L to 1,202 µg/L. The maximum concentration identified at both sets of wells were in the westernmost cell at temporary wells TMW-01I and TMW-01I2, respectively. Total BTEX concentrations in the deeper wells, where the more significant impacts were noted prior to ORC-A injections, have generally reduced, but have been highly variable. These remaining concentrations will be closely monitored and may indicate that additional remedial action may be warranted in these areas.

BTEX and PAH compound concentrations were either non-detect or marginally above the AWQS in all permanent and temporary monitoring wells within the intermediate zone in the LIRR ROW sheeting cell area during this reporting period (see graph below). However, well IP-20B exhibited a spike of 851 µg/L during Q3 2021, sharply above recent historical concentrations, which have ranged from non-detect to 278 µg/L over the last two years. Monitoring well, injection well, and sheeting cell location details are provided on Figure 17.



4.3.2.3 Downgradient of the LIRR ROW

Since remedial activities were implemented, contaminant concentrations above 100 µg/L have been significantly reduced in this area and were only observed in one sampling event (Q3 2021) during the reporting period in one shallow well (OU3MW-13S) and one intermediate well (MW-64). Monitoring well OU3MW-13S, located immediately south of the LIRR ROW at 87 Community Road, exhibited total BTEX at concentrations ranging from non-detect to 109 µg/L (Q3 2021), an increase over recent generally non-detect concentrations. Monitoring well MW-64, located immediately south of the LIRR ROW at 83 Community Road, exhibited total BTEX at concentrations ranging from non-detect to 144 µg/L (Q3 2021). Notably, monitoring well MW-65, located immediately south of the LIRR ROW at 87 Community Road,

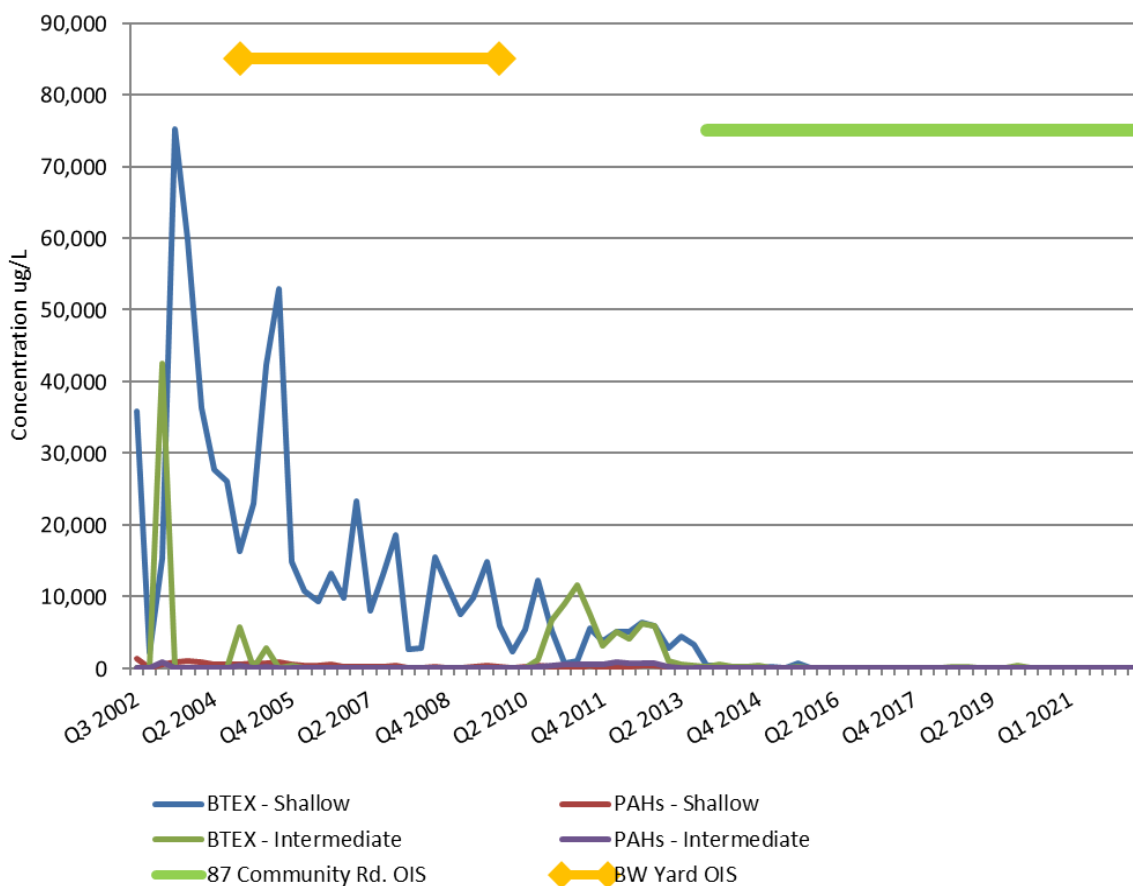
exhibited total BTEX at concentrations ranging from non-detect to only 13.6 µg/L (Q2 2022), below its high of 212.9 µg/L observed during the previous reporting period.

Farther downgradient of the LIRR ROW and immediately downgradient of the 87 Community Road oxygen injection system, monitoring well OU3MW-20I2 exhibited typically variable contaminant concentrations, with total BTEX ranging from non-detect to 62.71 µg/L and total PAHs ranging from non-detect to 94.7 µg/L (both highs detected during Q2 2022 sample round). Contaminant concentrations at nearby well cluster OU3MW-19, located immediately downgradient of the 87 Community Road residence were either non-detect or below the AWQS during all sample rounds.

The concentrations in all OU3MW-07 cluster wells located downgradient of Community Road oxygen injection system were non-detect for both BTEX and PAHs during all sample rounds. All other wells located downgradient of Community Road have been eliminated from the sampling program due to a lack of detections in accordance with the NYSDEC-approved reduction criteria.

Average total BTEX and total PAHs concentrations in the shallow and intermediate zone downgradient of the LIRR ROW have been non-detect or at/near detection levels since Q1 2014 (see graph below), closely aligning with start-up of the 87 Community Road system. Time series plots displaying OU-3 graphical analytical results for wells located within and downgradient of the oxygen injection systems, are also provided on Figure 6.

Average Shallow and Intermediate Concentrations - Downgradient of LIRR ROW



4.4 Operable Unit 4

Given the reductions in plume size and contaminant concentrations resulting from the implementation of remedial activities at the OU-4 area (as summarized in Section 1), a total of 13 monitoring wells are currently routinely sampled at OU-4. It should be noted that several monitoring well clusters located on private properties west of the OU-4 former cesspool area (WCMW-11, WCMW-26, and WCMW-29), which have not been accessible in recent events, were sampled during this reporting period (Q2 2022 only). However, the WCMW-04 cluster, located in the former cesspool area, was still not accessible during this reporting period. In addition, monitoring well WCMW-05I was not sampled during Q4 2021, as it was observed to contain a measurable thickness of DNAPL. During a follow-up well gauging event completed in Q4 2022, a DNAPL thickness of 0.1 feet was observed within WCMW-05I. Based on review of historical logs, a small amount of NAPL-impacted silt may exist at the bottom of WCMW-05I.

This well was redeveloped during Q4 2022, successfully removing the NAPL. The well will be monitored periodically to determine if additional NAPL accumulates.

4.4.1 Total BTEX and Total PAH Composite Plume

In comparison to the Q1 2009 OU-3 plume configuration, current (annual Q2 2002 groundwater sampling event) contaminant concentrations above 100 µg/L at OU-4 have been reduced and are limited to only two small areas in the vicinity of the former cesspool excavation area, as further detailed below. However, as identified above, well clusters WCMW-11, WCMW-26, and WCMW-29, and monitoring well WCMW-05I were not sampled during the previous annual sampling event.

The current (annual Q2 2022 groundwater sampling event) composite plume is slightly larger in size than the previous Q2 2021 plume depiction, when no accessible wells exhibited contaminant concentrations above 100 µg/L. This is primarily due to the sampling of previously inaccessible wells during the current annual sampling event (Q2 2022).

4.4.2 OU-4 Groundwater Quality

As identified above and on Figures 11 through 16, current total BTEX and total PAHs concentrations above 100 µg/L at OU-4 have been reduced and are limited to only two small areas in the vicinity of the former cesspool excavation area. Historical total BTEX and total PAH concentrations are presented in Table 4-14 and Table 4-15, while total BTEX and total PAH concentrations for this reporting period are presented in Table 4-16.

Contaminant concentrations have been significantly reduced since remedial activities were implemented at OU-4. A total of only three accessible wells sporadically exhibited exceedances of the AWQS for BTEX and/or PAH compounds during this reporting period; however, consistent with recent historical results, only total PAHs were identified at concentrations slightly to moderately above 100 µg/L during this reporting period. The greatest BTEX and PAH concentrations were detected in shallow wells WCMW-29S, located in the vicinity of the former cesspool excavation, as further detailed below.

Only PAHs were sporadically detected above 100 µg/L in three monitoring wells located in the former cesspool area during this reporting period, as follows: shallow well WCMW-29S (275.6 µg/L) and intermediate wells OU3MW-05I (ranging from 130.97 µg/L to 196.56 µg/L) and WCMW-30I (ranging from non-detect to 235 µg/L).

For comparison purposes, when last accessible for sampling in Q4 2015, monitoring well WCMW-26S exhibited total PAH concentrations of 1,597 µg/L, which have significantly decreased to 8.59 µg/L during the annual sampling event (Q2 2022). In addition, the highest historical total PAH concentrations in this area have historically been identified in WCMW-29S ranging from approximately 1,100 µg/L to 2,400 µg/L, have been reduced by more than an order

of magnitude. Both wells (WCMW-26S and WCMW-29S) were installed after the 2009 S-ISCO injection and are located outside the excavation area on the 22 Oak Street property.

Contaminant concentrations above the AWQS were not observed in former pond area monitoring well WCMW-14S during this reporting period.

4.5 Analysis of Sulfate Concentrations

At the request of the NYSDEC, National Grid currently monitors sulfate concentrations in monitoring wells located upgradient and downgradient of former OU-1 and OU-2 ISCO IRM areas, which was initially implemented to establish baseline sulfate concentrations in groundwater and identify potential trends associated with remedial activities.

Given the historical reductions in sulfate concentrations since sulfate sampling was initiated in 2007, a total of only 22 wells (seven at OU-1 and 15 at OU-2) are currently routinely sampled for sulfate. Historical and current sulfate concentrations for select wells are presented on graphs G-2 (OU-1) and G-3 (OU-2) in Appendix G.

Graphs G-2 and G-3 indicate that sulfate concentrations have been declining in OU-1 wells since 2011 and the majority of OU-2 wells since 2017. Although, sulfate is still present in limited areas in the lower intermediate and deep zones at OU-1 and OU-2, concentrations have been below the AWQS for several years, including throughout this reporting period.

5. Future Plans

As expected, given the multiple remedial activities completed at the Site since Q1 2009 (summarized in Section 1) and based on a comparison of current and historical contaminant trends (summarized in Section 4), overall contaminant concentrations at the Site have reduced significantly since Q1 2009 and have generally remained stable or have continued to reduce throughout this reporting period, with limited and minor exceptions. Based on the OM&M activities and analytical results discussed above, the following recommendations are presented below.

5.1 General Recommendations

- Based on the significant remedial progress achieved at the Site, the groundwater sampling rationale and system OM&M schedule are evaluated on a quarterly basis to ensure that these programs continue to operate in an effective and efficient manner.
- Continue to monitor Site-related impacts and associated remedial system effectiveness via quarterly and annual monitoring of the GM well network, including areas upgradient and downgradient of the on-site subsurface barrier wall and multiple treatment systems throughout the Site, in accordance with the 2012 NYSDEC-approved groundwater sampling criteria.
- Continue to evaluate the need for additional remedial measures based on contaminant concentrations within and/or downgradient of each OU and associated remedial system.
- Given that only one exceedance of the AWQS for sulfate has been detected over the past three years, sulfate monitoring at the Site should be discontinued, following NYSDEC approval.
- Continue well abandonment activities at targeted monitoring wells located throughout the Site, in accordance with the NYSDEC-approved work plan and NYSDEC's CP-43 monitoring well decommissioning policy document.
- Continue to complete minor well repair items, such as replacing broken well covers, etc., concurrent with site-wide groundwater sampling activities.

5.2 NAPL Gauging and Recovery

- Routine quarterly NAPL gauging should continue to be completed at targeted Site wells, as approved by the NYSDEC.

- Given that intermittent thicknesses of DNAPL have recently been periodically detected in OU-4 monitoring well WCMW-05I, this well has been added to the routine NAPL gauging list.
- Routine monthly DNAPL recovery via the BBRW-02 DNAPL recovery system should continue to be completed.
- DNAPL recovery from wells in the southern portion of OU-1 which exhibit DNAPL thicknesses of greater than one-foot. Recovery from wells with DNAPL thicknesses of greater than one foot began in early Q4 2022. An evaluation will be conducted to determine recovery schedules as warranted.

5.3 Treatment Systems

5.3.1 Ozone Groundwater Treatment System

- Continue routine operation and inspection of the ozone injection system, with routine maintenance completed per manufacturers' recommendations.
- Annual monitoring for ozone should continue at the SVE manifold to ensure that excess ozone is not present within the vadose zone.

5.3.2 Oxygen Injection Systems

- Continue routine operation and bi-weekly/monthly system inspection of the oxygen injection systems, with maintenance completed per manufacturers' recommendations.
- Continue to evaluate groundwater data in the vicinity of the remaining active injection systems to optimize or shut down systems, as warranted and with NYSDEC-approval.
- Evaluate whether to abandon 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, as this treatment line was replaced.

5.4 Operable Unit-Specific Recommendations

5.4.1 Operable Unit 2

- As approved by the NYSDEC, post shut-down GM in the vicinity of the Manatuck Lane portion of the Montauk Highway oxygen injection system was completed during this reporting period. A letter requesting approval to abandon the Manatuck Lane portion of the Montauk Highway oxygen injection system will be submitted to the NYSDEC in the near future.

- Continue post-shutdown GM of the 9 North Clinton Avenue oxygen injection system following its August 13, 2021, shut down during this reporting period, as approved by the NYSDEC.
- As toluene was sporadically detected above the AWQS at cluster OU2MW-02, and was non-detect upgradient of this area, toluene concentrations will be closely monitored at this location during future sampling events.

5.4.2 Operable Unit 3

- Total BTEX concentrations south of the LIRR ROW at 87 Community Road will be closely monitored during future sample events.
- The elevated total BTEX concentrations identified at intermediate temporary wells TMW-01I2, TMW-02I2, and TMW-03I2, along with persistent contaminant concentrations in shallow wells OU3MW-08S and OU3MW-16S, will be closely monitored during future sampling events and additional remedial options considered.

5.4.3 Operable Unit 4

- Potential excavation of MGP impacts beneath the 22 Oak Street property should be implemented concurrent with future potential property redevelopment activities, as warranted. As will be described in the following annual report, portions of a pre-design investigation for the excavation were completed following this reporting period to refine the initially proposed excavation limits.
- Given that the WCMW-04 well cluster, located on the LIRR ROW within the former cesspool area, has historically exhibited elevated contaminant concentrations, primarily PAHs in well WCMW-04I, further attempts to coordinate access with LIRR should be made to more consistently monitor contaminant concentrations in this area.
- Given that the trace measurements of DNAPL sporadically observed in monitoring well WCMW-05I are possibly attributable to a small amount of NAPL-impacted silt thought to exist at the bottom of the well, this material was removed from the well via redevelopment during Q4 2022. The well will be monitored periodically to determine if additional NAPL accumulates.

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Tables (compact disk only)

Tables also available at www.bayshoreworksmgp.com

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- Table 3-2.** OU-1 Historical Water Level Measurements and Calculated Groundwater Elevations
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Table 4-1. OU-1 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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		
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		
BBMW-05D	64.0 - 74.0	--	--	1,523	943	--	0	600	--	--	1,890	--	--	--	680	--	--	--	890	1,267	3,150	553
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	16	0	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	
	62.0 - 72.0	--	--	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	
BBMW-20I	35.0 - 45.0	--	--	--	40	--	193	170	--	--	110	--	142	--	--	--	104	--	--	165	125	
BBMW-20D	62.0 - 72.0	--	--	--	3,505	--	9,639	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
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	--	
BBMW-22I	30.0 - 40.0	--	--	--	36	--	25	22	--	28	13	--	--	--	16	--	--	--	16	--	--	
BBMW-22D	64.0 - 74.0	--	--	--	8,600	--	5,028	6,297	--	--	2,370	--	--	--	1,650	--	--	--	1,020	--	--	
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	
BBMW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	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	
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	
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
MW-03D	35.0 - 45.0	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
MW-05D	35.5 - 45.5	253	15	39	3	--	0	17	--	--	0	--	--	--	0	--	--	--	12	0	0	0

Table 4-1. OU-1 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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			
		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
MW-09S	4.0 - 14.0	0	--	29	--	0	0	0	--	--	0	--	--	0	--	--	--	--	0	--	--	--
MW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I/22IR	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-1. OU-1 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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																							
		2007				2008				2009				2010				2011				2012			
Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jul	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec		
BBMW-05D	64.0 - 74.0	1,597	613	21	399	717	727	790	1,414	482	880	1,016	1,029	933	893	850	884	1,211	1,041	14	4	99	929	839	866
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	--	0	--	--	--	7	--	--	--	--	0	0	0	14	0	0	5	0	0	--	
BBMW-13D	62.0 - 72.0	0	0	0	0	0	--	--	--	0	--	--	--	0	2	0	0	0	--	--	0	--	--	--	
BBMW-20S	4.0 - 14.0	173	4,144	2,677	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
BBMW-20I	35.0 - 45.0	105	0	29	13	8	5	6	8	8	3	5	10	12	10	3	1	27	114	6	10	6	10	8	0
BBMW-20D	62.0 - 72.0	1,540	1,800	1,359	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
BBMW-22S	5.0 - 10.0	10,850	10,420	14,810	7,150	5,816	7,340	9,140	10,770	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
BBMW-22I	30.0 - 40.0	0	43	37	32	31	32	38	42	43	111	199	170	164	257	218	251	270	231	256	279	171	340	223	124
BBMW-22D	64.0 - 74.0	1,558	1,580	2,807	3,126	2,356	3,126	4,810	2,835	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
BBMW-26S	6.0 - 16.0	0	0	0	0	0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--
BBMW-26I	30.0 - 40.0	0	0	0	--	0	--	--	--	8	--	--	--	0	--	--	--	0	--	--	--	0	--	--	--
BBMW-27S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	--
BBMW-27I	30.0 - 40.0	0	0	0	--	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
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
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	196	192	174	219	229	283	171	154	135	82	101	102	44	43
BBMW-34D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	8	0	0	0	0	0	0	14	0	0	3	5	0	0
BBMW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	--
BBMW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	--
BBMW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	--
BBMW-35D	63.0 - 68.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0	0	0	--
BBMW-36S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	--	7	8	24	7	6	6	0	6	0	7	6	3	--
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	--
BBMW-37S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	271	251	257	--	244
BBMW-37I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,082	1,208	1,657	--	991
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	412	341	352	--	216
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8	0	0	--	0
BBMW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	49	9	3	4	186	432	1	5	187	9	4	5	4	303
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	9	7	10	6	9	3	4	12	3	5	4	2	2	3
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	7	8	7	6	6	4	11	6	4	11	8	7	0	0
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	12	0	0	0	0
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
BBMW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	0	0	0	210	0	0	2	0	1	35	0	12	0	0
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	5	0	0	0	0
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	1	0	0	0	0	0	28	0	2	1	23	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
BBMW-40I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	5	12	26	12	0	1	11	2	67	7	1	23	1	0
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	0	0	3	0	0	0	0	15	0	622	2,478	2,302	2,425	0
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	37	19	4	0	1	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
BBMW-41I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	56	348	0	0	202	315	0
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	2	1	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	--
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	0	111	116	18	30	5	--	--	34	28	--	--	30	7	20	12								

Table 4-1. OU-1 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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																							
		2007				2008				2009				2010				2011				2012			
Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jul	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	0	0	0	0	0	--	
MW-09I	30.0 - 40.0	0	0	2	--	4	--	--	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	--	--	--	--	
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	--	--	--	--	--	--	--	--	8	6	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	--	
OU2MW-48I2	45.0 - 50.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	
OU2MW-48D	65.0 - 70.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	
OU2MW-49S	3.0 - 13.0	--	--	--	--	--	--	--	--	0	0	1	0	0	0	0	0	0	0	0	0	0	0	--	
OU2MW-49I	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	
OU2MW-49I2	45.0 - 50.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	
OU2MW-49D	63.0 - 68.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	
OU2MW-50S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	274	239	0	0	39	10	0	0	0	
OU2MW-50I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0	1	0	0	0	0	0	0	
OU2MW-50I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0	0	0	0	0	
OU2MW-50D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	
OU2MW-51S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7	6	7	9	6	2	2	4	4	
OU2MW-51I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	--	
OU2MW-51I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	0	0	0	0	0	0	0	--	
OU2MW-51D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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	
OU2MW-57I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	4,716	71	44	32	114	0	0	28	4	4	0	
OU2MW-57I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	
OZMW-16S	5.0 - 15.0	--	--	--	--	4,685	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OZMW-16I	20.0 - 30.0	--	--	--	--	512	105	136	189	441	775	585	37	0	0	0	44	8	1	18	0	1	157	4	3
OZMW-16I2	35.0 - 45.0	--	--	--	--	3	4	8	2	12	92	686	468	464	558	855	634	683	671	603	88	466	553	53	282
OZMW-16D	55.0 - 65.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
OZMW-17S	5.0 - 15.0	--	--	--	--	1,664	78	52	25	141	17	337	35	0	0	0	0	0	0	0	0	0	0	0	
OZMW-17I	20.0 - 30.0	--	--	--	--	1,316	82	23	40	74	42	67	9	0	0	0	0	0	0	0	0	0	0	2	
OZMW-17I2	35.0 - 45.0	--	--	--	--	0	0	0	0	0	36	8	14	35	0	0	5	0	0	0	0	0	0	0	
OZMW-17D	53.0 - 63.0	--	--	--	--	0	0	0	0	0	0	4	15	0	1	0	0	0	0	23	15	0	302	295	
OZMW-18S	5.0 - 15.0	--	--	--	--	3,160	54	212	24	244	0	5	1	0	0	0	0	0	0	0	0	0	0	2	
OZMW-18I	20.0 - 30.0	--	--	--	--	3,600	169	25	84	178	149	449	0	0	0	0	0	0	0	0	0	0	0	0	
OZMW-18I2	35.0 - 45.0	--	--	--	--	201	95	57	123	129	50	104	63	7	5	1	6	0	0	4	7	1	24	0	
OZMW-18D	55.0 - 65.0	--	--	--	--	77	31	79	147	216	94	389	612	384	424	186	222	273	158	218	204	274	201	434	203
OZMW-19S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	391	0	86	73	493	698	137	4	41	1,792	947	113	146
OZMW-19I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	1,143	992	973	914	689	664	670	606	413	647	535	297	451	
OZMW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	827	1,105	1,332	1,111	924	697	608	1,188	353	528	1,016	519	368	
OZMW-19D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	76	14	0	49	17	17	20	9	68	0	0	46	22	
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	
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	428	542	342	446	465	418	407	459	365	453	431	399	366	
OZMW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	145	134	115	177	153	175	112	190	175	102	105	380	145	
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	10	6	14	12	3	5	4	10	7	0	0	0	0	
OZMW-22S/22SR	5.0 - 15.0	--	--	--	--	7,077	7,480	7,381	6,074	11,947	5,605	6,942	4,305	--	3,477	4,121	1,075	1,251	435	614	405	469	263	417	42
OZMW-22I/22IR	20.0 - 30.0	--	--	--	--	0	0	0	0	607	43	17	8	--	564	214	24	15	0	23	216	191	68	28	72
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	0	2	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	3	0	0	0	0	0	0	0	0	0	0	0	0	
OZMW-23I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	8	0	0	0	0	0	0	0	0	1	0	0	0	
OZMW-23I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	11	1	0	0	0	2	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	
OZMW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	25	13	13	5	4	6	0	1	2	0	1	4	0	
OZMW-24I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	22	0	0	0	0	0	0	0	0	24	4	0	0	
OZMW-24I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	140	143	191	143	129	158	131	111	674	220	176	181	137	
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	
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	
OZMW-25I	20.0 - 30.0	--	--	--	--	--	--	--	--	198	248	257	310	291	355	340	285	409	370	416	477	441	265	299	
OZMW-25I2	35.0 - 45.0	--	--	--	--	--	--	--	--	91	177	158	141	196	306	149	100	152	239	37	41	104	90	24	
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	17	0	0	0	0	0	8	0	
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	44	18	5	24	11	5	0	0	0	0	0	9	--	
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	9	0	0	0	0	0	0	7	9	29	79	34	76	
OZMW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	393	159	48	100	200	155	26	47	89	35	5	47	27	
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	1	0	1	0	0	0	--	

Table 4-1. OU-1 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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																			
		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-05D	64.0 - 74.0	1,326	914	628	941	1059	1235	949	970	1271	1140	1143	1232	1999	1852	1475	2249.5	1657	814.8	734	1105
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35.0 - 45.0	5	2	19	0	0	91	187	2	7	3	217	2	0	0	3	0	0	1.03	1.62	3.4
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	5,962	6898	6864	7644	5506	7430	4501	5040	4069	5141	4960	4276	5907	7065	3974	4739.8	3672	2860.4	3231.3	3430.4
BBMW-22I	30.0 - 40.0	213	385	125	186	176	160	225	241	206	168	198	286	335	309	212	335.3	321	167.5	192	217.2
BBMW-22D	64.0 - 74.0	1,230	1271	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5.0 - 15.0	100	374	218	139	165	90	116	243	101	170	174	155	365	118.3	68	97.3	221.8	36.81	38.3	39
BBMW-34I	25.0 - 30.0	1,202	1081	1233	946	672	1247	884	908	960	1060	973	949	1277	998.9	916	1063.3	966.4	735.9	615.8	730.9
BBMW-34I2	40.0 - 45.0	39	44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65.0 - 70.0	0	0	--	--	--	0	--	0	0	0	3	9	--	0	0	0	0	0	--	--
BBMW-35S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35D	63.0 -68.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36S	5.0 - 15.0	--	8	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--	0	--	--
BBMW-36I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37S	5.0 - 10.0	202	75	16	137	7	4	26	89	6	2	17	18	4	11	44	18.1	3.2	1.6	15.9	21.01
BBMW-37I	20.0 - 30.0	709	773	702	3922	103	42	413	115	0	0	64	0	0	2	227	0	0	0	10.6	0
BBMW-37I2	35.0 - 45.0	267	189	249	272	96	6	32	38	6	0	3	8	2	0	0	0	0	0	--	--
BBMW-37D	55.0 - 65.0	0	0	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5.0 - 15.0	162	497	394	604	305	451	13	5	349	28	556	757	204	138.1	629	744.5	457.3	164	321.9	581.7
BBMW-38I	25.0 - 30.0	3	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40.0 - 45.0	6	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65.0 - 70.0	0	0	--	--	--	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5.0 - 15.0	6,120	3528	10110	954	623	580	0	316	0	0	194	269	86	129	146	199.2	102.5	526	147.69	159.57
BBMW-39I	25.0 - 30.0	0	199	356	0	0	0	0	0	--	421	--	0	0	0	0	0	0	1.99	--	--
BBMW-39I2	45.0 - 50.0	0	0	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65.0 - 70.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40S	5.0 - 15.0	2,016	3035	1815	816	572	0	42	2105	0	2	445	700	0	1296	0	1883.8	0	188.79	671.6	1052.6
BBMW-40I	25.0 - 30.0	6	2	0	0	1	4	0	0	4	0	0	0	14	0	0	0	5.1	0.23	--	--
BBMW-40I2	45.0 - 50.0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	0	--	--	--
BBMW-40D	70.0 - 75.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-41S	6.0 - 16.0	6,216	8730	9437	3009	4015	7622	4914	4413	9620	13425	5815	5913	3105	4310	5814	6003.1	7296.6	4808.2	4912.4	2600.5
BBMW-41I	25.0 - 30.0	0	0	25	0	0	0	136	0	0	0	0	0	--	124	--	0	0	9.8	0	0
BBMW-41I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65.0 - 70.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-42S	5.0 - 10.0	76	48	28	346	44	63	20	73	19	22	11	10	8	12	10	11.2	11.5	8.5	5.7	5.61
BBMW-42I	15.0-25.0	516	778	315	515	8	9	2	0	0	5	10	0	0	0	0	0	--	1.5	--	--
BBMW-42I2	35.0-45.0	407	332	334	606	269	103	78	17	49	23	7	6	0	9	3	0	--	0	--	--
BBMW-43S	5.0 - 10.0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-43I	15.0-25.0	446	40	284	184	22	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
BBMW-43I2	35.0-45.0	1	0	0	0	0	4	--	--	--	8	--	--	--	0	--	--	--	--	--	--
IP-51	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	225	--	--	--	--	--	--	--	--	--
IP-52	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	234	--	--	--	--	--	--	--	--	--
IP-53	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	2,297	--	--	--	--	--	--	--	--	--
IP-54	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--	--	--	--	--
IP-55	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	490	--	--	--	--	--	--	--	--	--
IP-56	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
IP-57	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--
IP-58	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	5	15	24	1	2	11	5	2	9.5	14	32	28	7	14	0	4.2	1.5	1.25	7.7	--
MW-03D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05S	4.0 - 14.0	4,014	4714	2078	3713	3610	3400	577	3814	2068	3510	3115	2917	3518	2420	2635	3903.3	3191.3	2092.6	1798.7	2003.9
MW-05D	35.5 - 45.5	8	260	13	8	10	13	19	21	16	4	18	24	31	16.6	24	42.3	24	13.7	25.06	32.15

Table 4-1. OU-1 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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																			
		2013				2014				2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
MW-09S	4.0 - 14.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU1PZ-101	4.0 - 14.0	--	--	--	--	1,242	3675	5713	2773	5507.5	4912	2961	5416	3273	4796	4966	3752.6	4497.2	2823.5	3865.48	2223.17
OU1PZ-102	4.0 - 14.0	--	--	--	--	15	25	195	15	130.9	270	168	147	8	85	92	161.2	50.6	30.06	49.2	57.85
OU1PZ-103	4.0 - 14.0	--	--	--	--	982	367	396	178	312	42	216	214	791	472	1420	245.7	857.8	40.9	69.4	595.9
OU1PZ-104	4.0 - 14.0	--	--	--	--	6	14	4	4	102	36	22	12	10	16	18	11.1	12.6	4.81	6.02	5
OU1PZ-105	4.0 - 14.0	--	--	--	--	950	1250	1750	1060	380	880	1740	1070	153	400	280	137.9	111.1	38	94	23.22
OU2MW-48S	3.0 - 13.0	--	0	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48D	65.0 - 70.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49S	3.0 - 13.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	63.0 - 68.0	--	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	0
OU2MW-50I	25.0 - 30.0	0	4	0	24	0	2	5	0	0	0	2	0	0	0	0	0	0	0	0	0
OU2MW-50I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-50D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-51S	5.0 - 15.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51D	61.0 - 66.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57S	5.0 - 15.0	20	26	21	77	16	18	63	17	16	21	28	38	13	16	7	20.7	5.3	2	3.3	18.2
OU2MW-57I	20.0 - 30.0	0	0	0	0	0	0	2	2	0	0	0	89	0	2	2	0	0	0	2.4	0
OU2MW-57I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.1	0	0	0	0
OZMW-16S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-16I	20.0 - 30.0	0	0	0	2	0	0	0	0	2	0	1	0	0	0	0	2.2	0	0	0	0
OZMW-16I2	35.0 - 45.0	18	166	3	286	10	5	81	31	2	3	7	69	7	27	16	4.7	0	3.01	1.02	6.6
OZMW-16D	55.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	5.5	3.75	0	0
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	0
OZMW-17I	20.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-17I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-17D	53.0 - 63.0	445	101	71	122	684	256	45	182	59.5	82	22	50	322	177	36	4.8	15.5	107.3	74.5	52.7
OZMW-18S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1.4	0	0	0
OZMW-18I	20.0 - 30.0	0	0	221	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
OZMW-18I2	35.0 - 45.0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46.7	1.21	0	0
OZMW-18D	55.0 - 65.0	351	126	0	136	291	138	158	219	174	159	119	114	102	105	147	132.3	219	148.3	109.44	109
OZMW-19S	5.0 - 15.0	228	618	321	188	291	43	10	52	27	595	411	70	77	694	773	461	762	781.73	901.29	451.24
OZMW-19I	20.0 - 30.0	501	441	460	240	329	333	225	212	281	331	181	117	116	204	179	280.2	230.7	145.3	122.22	83.57
OZMW-19I2	35.0 - 45.0	685	574	323	506	563	563	591	366	220	464	384	616	285	578	512	396.6	439.5	413.2	234.7	188
OZMW-19D	55.0 - 65.0	17	0	0	20	9	4	21	23	3	0	4	16	2	9	43	12.7	5.5	7.18	0.64	26.96
OZMW-21S	5.0 - 15.0	2,122	5471	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I	20.0 - 30.0	326	309	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I2	35.0 - 45.0	82	57	96	177	135	74	195	208	213	107	123	246	192	154.5	201	245.3	197.5	74.5	51.7	86.1
OZMW-21D	55.0 - 65.0	0	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S/22SR	5.0 - 15.0	225	167	73	16	76	25	0	17	24	49	3	10	30	48	6	0	11.1	14.63	4.06	0.42
OZMW-22I/22IR	20.0 - 30.0	34	23	2	0	0	5	10	--	--	0	--	--	--	1	--	--	--	--	--	--
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5.0 - 15.0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-23I	20.0 - 30.0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-23I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-23D	55.0 - 65.0	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	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.8	0	1.22	0.37	4.1
OZMW-24I	20.0 - 30.0	6	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.08
OZMW-24I2	35.0 - 45.0	249	194	106	82	139	172	265	233	139	276	203	151	162	100	77	62.9	110.8	127.6	74.1	152.54
OZMW-24D	55.0 - 65.0	946	930	583	642	743	611	809	1021	771	1133	542	895	891	893	681	710.3	874.9	498.93	619	846.6
OZMW-25S	5.0 - 15.0	0	1893	818	1317	663	1047	29	1679.7	375	658	651	652	823	751.9	1035	842	804.7	586.9	756.8	659.1
OZMW-25I	20.0 - 30.0	529	427	420	575	509	571	498	442.4	477	505	401	500	446	496	425	381.3	527	338.3	280	286.3
OZMW-25I2	35.0 - 45.0	26	91	232	118	26	55	275	75.3	15.3	16	102	97	11	3.4	15	37.6	2.7	43.5	86.76	7
OZMW-25D	55.0 - 65.0	11	0	9	1	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OZMW-26S	5.0 - 15.0	--	0	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I	20.0 - 30.0	1	7	0	0	4	7	--	--	--	6	--	--	--	0	--	--	--	--	--	--
OZMW-26I2	35.0 - 45.0	12	0	2	57	24	3	6	42	34.4	0	0	48	11	0	2	23	10.8	0	0	1.59
OZMW-26D	55.0 - 65.0	--	0	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-1. OU-1 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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																					
		2018				2019				2020			2021				2022						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-05D	64.0 - 74.0	893.9	1020.6	961	1132	1161	1058	981	842	1423	1063	1258	1075	1471	1105	--	1284	--	0	3,150	1,027	1,105	1,284
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	16	3	0	0
BBMW-13D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	173	19,133	8,973	0	0
BBMW-20I	35.0 - 45.0	0	0	44	3.35	1.3	0.98	0.44	0.81	0.71	1	0	0	1.49	1.2	0	0	0	0	217	32	0	1
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,359	9,639	3,569	0	0
BBMW-22S	5.0 - 10.0	3026.5	2396.2	2597.3	2192.6	2690.3	2385.6	2924.8	2393.6	2571.1	2095.8	1636.9	1799.3	1468.7	1263.9	1940.1	1675.7	1408.8	1,469	25,800	7,844	1,264	1,940
BBMW-22I	30.0 - 40.0	240.1	214.9	198.1	320.6	234.4	234.9	279	353.2	334.3	281.8	391.7	334.4	322.7	330.1	526	458.9	336.2	0	392	189	330	526
BBMW-22D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	2112.7	--	--	--	--	--	501	8,600	2,510	0	0
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8	1	0	0
BBMW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	1	0	0	0
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0	0	0
BBMW-34S	5.0 - 15.0	32.2	56.75	64.8	88.74	57	39.69	76.6	26.65	94.9	8.64	46.29	41.48	27.52	33.53	113.01	39.2	22	9	885	247	22	113
BBMW-34I	25.0 - 30.0	669.5	735.7	745.9	666.5	638.5	646.3	696.3	612.1	602.3	741	503.7	514.9	600.9	547.1	571.9	590.7	447.2	504	3,757	1,260	447	591
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	39	283	138	0	0
BBMW-34D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	14	2	0	0
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	0
BBMW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	24	2	0	0
BBMW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-37S	5.0 - 10.0	0.37	2.1	8.3	0	3.98	3.59	21.77	3.67	6.3	21.3	3.09	3.01	3.47	6.32	5.68	3.53	1.5	0	271	49	2	6
BBMW-37I	20.0 - 30.0	0	1.58	4.8	0	--	0	--	--	--	1.2	--	--	--	--	--	--	--	0	3,922	401	0	0
BBMW-37I2	35.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	412	108	0	0
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8	1	0	0
BBMW-38S	5.0 - 15.0	306.5	215	392.5	278.3	204.2	221.9	220.2	157.85	88.07	256.4	47.74	20.7	2.1	3.43	5.4	54.95	21	1	757	233	3	55
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	12	6	0	0
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	11	6	0	0
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	12	1	0	0
BBMW-39S	5.0 - 15.0	0	78	98.46	49.4	49.96	22.08	27.6	52.8	73.5	72.63	42.7	0	66.22	62.09	13.8	86.65	42.8	0	11,900	2,416	14	87
BBMW-39I	25.0 - 30.0	--	10.7	--	--	--	0	0	--	--	0	--	--	--	--	--	--	--	0	421	37	0	526
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	0	0	0
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	28	3	0	0
BBMW-40S	5.0 - 15.0	0	0.55	372.59	0	2.98	1.06	2386.9	15.4	436.4	397.65	5.3	0	0	0	5.8	--	--	0	6,390	967	0	6
BBMW-40I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	67	6	0	0
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,478	374	0	0
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	37	4	0	0
BBMW-41S	6.0 - 16.0	7011.5	4508.7	3308.4	7310	5607	4008.2	4908.4	2804.7	2174.8	3704.6	2113.4	2765.1	3506.2	3605	3706.6	3205.4	3505.8	1,856	13,425	5,167	3,205	3,707
BBMW-41I	25.0 - 30.0	35	0	0	0	74	0	0	0	0	0	--	--	0	144	--	1	0	0	348	31	0	144
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0
BBMW-41D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-42S	5.0 - 10.0	8	5.4	5.4	4.5	7.2	6.67	4.3	4.2	3.8	2.9	2.99	4	3.7	3.7	3.7	9.3	1.96	3	346	27	2	9
BBMW-42I	15.0-25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	778	120	0	0
BBMW-42I2	35.0-45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	606	125	0	0
BBMW-43S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-43I	15.0-25.0	--	--	0	--	--	4.7	--	--	--	--	--	--	--	--	--	--	--	0	446	82	0	0
BBMW-43I2	35.0-45.0	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	8	1	0	0
IP-51	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	225	225	225	0	0
IP-52	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	234	234	234	0	0
IP-53	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,297	2,297	2,297	0	0
IP-54	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	3	3	0	0
IP-55	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	490	490	490	0	0
IP-56	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	1	0	0
IP-57	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
IP-58	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-03S	3.0 - 13.0	0.95	3.93	2.3	0	0	0	0	--	--	0	--	--	0	--	--	--	--	0	361	29	0	0
MW-03D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
MW-05S	4.0 - 14.0	1962.5	1485.8	1742.3	1457.25	953.41	1248.2	1138.9	1223.84	804.1	991	767.67	615.9	766.8	618.4</								

Table 4-1. OU-1 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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																						
		2018				2019				2020			2021				2022							
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
MW-09S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	29	1	0	0	0	
MW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	4	1	0	0	0	
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	
OU1PZ-101	4.0 - 14.0	2613.3	3684.4	930	1752.4	1020	1872.2	2575.6	1833.2	920	1680	798	760	1350	--	1340	872	1340	760	5,713	2,903	872	1,340	1,340
OU1PZ-102	4.0 - 14.0	133.7	4.8	54.57	6.2	4.85	24.28	131.4	5.6	0	49.15	3	1.64	0	226.2	152.5	16.93	0	0	270	66	0	226	226
OU1PZ-103	4.0 - 14.0	230.7	489.84	256.7	311.81	1.3	227.4	505.61	123.95	215	1009.4	468.6	492.1	52.1	--	65.38	689.2	313.09	1	1,420	399	65	689	689
OU1PZ-104	4.0 - 14.0	0.93	9	2.23	0.98	0	0.49	0	0	--	13	--	--	0.48	13.55	--	0	0.38	0	102	12	0	14	14
OU1PZ-105	4.0 - 14.0	35.96	93.14	52	20.2	46	51	41.66	26	36	29	21.69	21.3	18.6	36	27.3	10.68	19.6	19	1,750	373	11	36	36
OU2MW-48S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8	1	0	0	0
OU2MW-48I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-48I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-48D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-49S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0	0
OU2MW-49I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-49I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-49D	63.0 - 68.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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	274	14	0	0	0
OU2MW-50I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	1	0	0	0
OU2MW-50I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0	3.29	0	0.72	0.46	0	0	3	0	0	1	1
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	0	0
OU2MW-51I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-51I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0	0
OU2MW-51D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
OU2MW-57S	5.0 - 15.0	2.8	3.1	4	3	5.3	4.9	8.4	7.7	10.1	6.7	6.1	0	0.39	1.93	3.2	0.57	0	0	2,082	99	0	3	3
OU2MW-57I	20.0 - 30.0	0	0.38	1.3	0	2.3	4.9	0.76	0	0	0	0	0	10	0	0.84	0	0	0	4,716	117	0	1	1
OU2MW-57I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
OZMW-16S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0.58	0	0	0	0	0	4,685	88	0	0	0
OZMW-16I	20.0 - 30.0	0	0	0	2.33	0	0	0	0	0	0	0	0	0.63	0	0	0	0	0	775	57	0	0	0
OZMW-16I2	35.0 - 45.0	2.6	4.5	2.7	0	0	0	0	0	0.66	1.1	1.1	0	0.47	0	0.94	16.71	0	0	855	150	0	17	17
OZMW-16D	55.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.68	0.43	0.93	0	0	6	0	0	1	1
OZMW-17S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,664	44	0	0	0
OZMW-17I	20.0 - 30.0	0	0	5.04	1.1	0	0	0	0	0	0	0	0	0	0	0	0	4.1	0	1,316	31	0	4	4
OZMW-17I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36	2	0	0	0
OZMW-17D	53.0 - 63.0	705	1526.63	70.1	137.3	808	97	27.1	72.7	595	28	403	900	375.4	76.5	306.1	204	33.9	0	1,527	176	34	306	306
OZMW-18S	5.0 - 15.0	0	0	12.9	3.5	0	0	0	0	0	0	0	0	0	0	0	0	18.7	0	3,160	70	0	19	19
OZMW-18I	20.0 - 30.0	0	0	3.79	0	0	0	0	0	0	0	0	0	0	0	0	0	24.44	0	3,600	92	0	24	24
OZMW-18I2	35.0 - 45.0	0	0	0	1.6	0	0	0	0	1.1	0	0	4	0	0.81	0	0	0	0	201	18	0	1	1
OZMW-18D	55.0 - 65.0	312.34	165.27	95.98	71.7	110	54.7	91.71	67.1	55.3	185.2	150.5	63.25	127.3	100.99	199.85	135.85	55.4	0	612	178	55	200	200
OZMW-19S	5.0 - 15.0	500.76	470.85	470.67	280.4	211.59	370.55	249	231.67	341.74	223	450.63	242.43	196.62	146.44	170.48	360	350.69	0	1,792	368	146	360	360
OZMW-19I	20.0 - 30.0	189.67	195.5	215.7	122.51	157.86	267.4	252.47	105.73	156.8	100.94	69.72	122.81	141.26	76.73	60.38	87.74	76.82	70	1,143	350	60	88	88
OZMW-19I2	35.0 - 45.0	379	313.8	190.8	226.3	320.1	72.63	408	181.07	203.8	202.1	174.64	247.08	226.1	155.89	95.67	171.3	80.1	73	1,332	492	80	171	171
OZMW-19D	55.0 - 65.0	12.66	0	0	12	0	0	0	0	0	0	--	--	--	--	--	--	0	0	76	14	0	0	0
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	3123	--	--	--	--	--	2,122	8,270	5,449	0	0	0
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	309	542	410	0	0	0
OZMW-21I2	35.0 - 45.0	96.5	72.69	56.98	131	84.96	69.84	116.3	165.5	109.68	62.53	131.74	107.49	37	42	21.7	95.47	50	37					

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

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																
		Sampling Date																
		1992	1999			2002			2003			2004			2005			
		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
MW-09S	4.0 - 14.0	0	--	0	--	0	74	0	--	--	0	--	--	0	--	--	--	--
MW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I/22IR	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-24D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2006				2007				2008				2009			
		Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-05D	64.0 - 74.0	2,924	352	4,492	2,386	2,371	1,233	40	930	981	1,203	1,555	1,165	786	2,767	186	1,704
BBMW-05D2/D2R	126.5 - 136.5	0	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--
BBMW-13D	62.0 - 72.0	0	--	--	--	0	0	0	0	0	--	--	--	0	--	--	--
BBMW-20S	4.0 - 14.0	--	--	1,365	2,179	1,819	1,343	860	--	--	--	--	--	0	--	--	--
BBMW-20I	35.0 - 45.0	--	--	7,722	5,749	7,160	2,189	2,033	452	75	48	348	165	1,150	137	657	78
BBMW-20D	62.0 - 72.0	--	--	--	--	2,289	4,688	5,460	--	--	--	--	--	0	--	--	--
BBMW-22S	5.0 - 10.0	4,131	2,214	--	--	1,634	2,931	3,629	3,189	24	25	1,961	1,972	1,664	986	2,329	3,239
BBMW-22I	30.0 - 40.0	7,114	--	--	--	4,696	4,283	4,879	5,212	5,536	4,290	4,686	4,680	4,949	6,539	4,155	5,071
BBMW-22D	64.0 - 74.0	6,288	--	--	--	2,725	3,310	5,374	8,516	4,257	4,894	6,442	5,681	5,140	8,539	5,411	3,812
BBMW-26S	6.0 - 16.0	0	--	--	--	0	0	0	24	0	--	--	--	0	--	--	--
BBMW-26I	30.0 - 40.0	0	--	--	--	0	0	1	--	0	--	--	--	0	--	--	--
BBMW-27S	5.0 - 15.0	0	--	--	--	0	0	0	0	0	0	2	0	0	0	0	0
BBMW-27I	30.0 - 40.0	0	--	--	--	0	0	0	--	0	--	--	--	0	0	--	--
BBMW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	969	524
BBMW-34I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,223	1,887
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,033	2,126
BBMW-34D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	478	256
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
BBMW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	13	14
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	131	1,075
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	706	931
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
BBMW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	914	488
BBMW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	45	1
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
BBMW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,322	73
BBMW-40I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	51	3
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
BBMW-41S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,264	623
BBMW-41I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4
BBMW-41D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4
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	25	11	0	0	0	0	9	0	0	0	--	--	0	0	--	--
MW-03D	35.0 - 45.0	0	--	--	--	0	0	0	2	0	--	--	--	0	0	--	--
MW-05S	4.0 - 14.0	2,220	1,647	2,493	1,652	1,647	1,294	1,630	1,431	1,699	144	1,306	7	1,052	1	226	1,879
MW-05D	35.5 - 45.5	2,456	435	1,984	3,122	1,113	142	55	741	2,644	390	1,988	107	232	9	138	711

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

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2006				2007				2008				2009			
		Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
MW-09S	4.0 - 14.0	0	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
MW-09I	30.0 - 40.0	0	--	--	--	0	0	2	--	4	--	--	--	0	--	--	--
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	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	--	--	--	--	--	--	--	--	--	--	--	--	--	3	4	0
OU2MW-48I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-48I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-48D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-49S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-49I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-49I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-49D	63.0 - 68.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-50S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50D	65.0-70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51D	61.0-66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	830	2	0	0	0	0	0	0
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	1,447	39	22	440	153	72	1,167	31
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	0	219	0	159	6	178	2,002	2,844
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	1	0	0	0	0	0	1	1
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	1,963	1	0	0	0	0	0	1
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	5,197	5	0	0	0	12	0	3
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	7	0	2	0	0	62	0	7
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	27	0	0	3	2	0	4	65
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	569	15	0	2	0	0	0	0
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	2,312	625	7	600	9	149	68	15
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	8,178	7,353	11,417	10,065	7,728	8,917	10,984	7,375
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	1,684	461	0	1,279	435	1,166	1,586	2,031
OZMW-19S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	409
OZMW-19I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,299
OZMW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,346
OZMW-19D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	471
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,403
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,402
OZMW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,012
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	952
OZMW-22S/22SR	5.0 - 15.0	--	--	--	--	--	--	--	--	2,191	2,555	1,449	1,684	1,850	971	2,406	1,108
OZMW-22I/22IR	20.0 - 30.0	--	--	--	--	--	--	--	--	0	0	1	0	95	0	3	7
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	0	0	0	49	0	0	0	0
OZMW-23S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25
OZMW-23I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OZMW-23I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6
OZMW-23D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38
OZMW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6
OZMW-24I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OZMW-24I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,805
OZMW-24D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,323
OZMW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	4,595	3,968	3,480
OZMW-25I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	3,276	849	4,046
OZMW-25I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	29	51	162
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	54
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OZMW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	60
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0

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, New York

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2010				2011				2012				2013			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-05D	64.0 - 74.0	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
BBMW-05D2/D2R	126.6 - 136.5	--	--	0	0	0	0	0	0	0	0	0	--	--	--	--	--
BBMW-13D	62.0 - 72.0	0	0	0	0	0	--	--	--	1	--	--	--	--	--	--	--
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35.0 - 45.0	157	37	471	15	516	47	1	497	633	706	489	354	688	371	388	93
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	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
BBMW-22I	30.0 - 40.0	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
BBMW-22D	64.0 - 74.0	4,425	4,301	5,276	4,413	4,434	7,346	5,996	4,744	5,388	6,319	4,598	4,350	6,103	4352	--	--
BBMW-26S	6.0 - 16.0	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--
BBMW-26I	30.0 - 40.0	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--
BBMW-27S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-27I	30.0 - 40.0	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--
BBMW-34S	5.0 - 15.0	612	440	468	409	556	435	195	370	540	111	128	100	121	95	109	117
BBMW-34I	25.0 - 30.0	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
BBMW-34I2	40.0 - 45.0	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	237	148	120	109	239	85	54	49	335	53	51	46	70	45	--	--
BBMW-35S	5.0-15.0	--	--	--	--	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-35I	25.0-30.0	--	--	--	--	0	0	0	0	0	0	0	--	--	2	--	--
BBMW-35I2	45.0-50.0	--	--	--	--	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-35D	63.0-68.0	--	--	--	--	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-36S	5.0 - 15.0	2	2	23	3	4	3	0	0	0	15	0	--	--	2	--	--
BBMW-36I	25.0 - 30.0	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
BBMW-37I	20.0 - 30.0	--	--	--	--	--	--	--	2,506	1,655	2,228	--	1,363	860	110	1697	8853
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	1,219	1,234	1,186	--	599	1,222	111	903	877
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	7	0	0	--	0	0	0	--	--
BBMW-38S	5.0 - 15.0	0	25	50	69	4	6	14	5	2	0	0	49	20	46	81	234
BBMW-38I	25.0 - 30.0	732	660	212	691	761	275	365	468	653	510	766	435	620	381	--	--
BBMW-38I2	40.0 - 45.0	211	574	116	202	402	603	759	167	983	998	773	297	1,155	983	718	--
BBMW-38D	65.0 - 70.0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	--	--
BBMW-39S	5.0 - 15.0	1,627	18	761	150	0	1,344	1,220	405	2,988	62	1,283	1,906	2,674	34	2088	137
BBMW-39I	25.0 - 30.0	0	231	2	0	78	4	29	14	39	29	46	17	33	0	433	4
BBMW-39I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	0	--
BBMW-39D	65.0 - 70.0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	--	--
BBMW-40S	5.0 - 15.0	0	0	4,533	899	0	8	3,314	0	0	0	30	1,548	2,421	2654	2548	1808
BBMW-40I	25.0 - 30.0	24	8	25	5	37	13	100	17	34	41	46	11	29	18	38	16
BBMW-40I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	2,264	1,950	0	0	0	0	0
BBMW-40D	70.0 - 75.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
BBMW-41S	6.0 - 16.0	1,532	5	764	0	421	2,372	3,693	782	1,449	1,167	1,006	617	2,213	1888	2473	1613
BBMW-41I	25.0 - 30.0	0	0	0	0	0	28	47	0	0	54	68	0	0	0	16	0
BBMW-41I2	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	2	--	--	0	--	--
BBMW-41D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	2	--	--	0	--	--
BBMW-42S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	608	286	403	720
BBMW-42I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	1,181	1107	666	1110
BBMW-42I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	2,504	1163	2090	1625
BBMW-43S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
BBMW-43I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	552	53	262	48
BBMW-43I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	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	1	0	3	0	0	2	0	2	2	0	7	0	0	0	2	1
MW-03D	35.0 - 45.0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--
MW-05S	4.0 - 14.0	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
MW-05D	35.5 - 45.5	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

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

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2010				2011				2012				2013			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
MW-09S	4.0 - 14.0	0	0	0	0	0	0	0	0	0	0	0	--	--	0	--	--
MW-09I	30.0 - 40.0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--
MW-09I2	45.0 - 50.0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--
MW-09D	65.0 - 70.0	0	0	0	--	0	--	--	--	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	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	--	--
OU2MW-48I2	45.0 - 50.0	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	--	--
OU2MW-49S	3.0 - 13.0	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	--	--
OU2MW-49I2	45.0 - 50.0	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	--	--
OU2MW-50S	5.0-15.0	--	--	--	--	120	95	0	0	9	5	0	0	0	0	0	0
OU2MW-50I	25.0-30.0	--	--	--	--	0	0	9	4	1	2	0	0	0	0	2	66
OU2MW-50I2	45.0-50.0	--	--	--	--	0	2	0	0	0	0	0	0	0	0	0	0
OU2MW-50D	65.0-70.0	--	--	--	--	0	0	0	0	0	3	0	0	0	0	0	0
OU2MW-51S	5.0-15.0	--	--	--	--	0	0	26	19	0	13	5	9	8	4	--	--
OU2MW-51I	25.0-30.0	--	--	--	--	0	0	0	0	0	5	0	--	--	0	--	--
OU2MW-51I2	45.0-50.0	--	--	--	--	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-51D	61.0-66.0	--	--	--	--	1	0	0	2	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
OU2MW-57I	20.0 - 30.0	--	72	0	0	0	16	72	0	13	15	13	21	27	13	18	0
OU2MW-57I2	35.0 - 45.0	--	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	2	0	1	6	0	0	0	0	2
OZMW-16I	20.0 - 30.0	0	0	0	0	3	0	8	5	0	18	13	0	0	0	0	0
OZMW-16I2	35.0 - 45.0	160	809	171	422	5,792	1,195	3,138	542	2,192	1,973	151	1,220	8	1330	1	97
OZMW-16D	55.0 - 65.0	0	0	0	0	11	2	24	68	18	3	0	1	0	0	0	0
OZMW-17S	5.0 - 15.0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
OZMW-17I	20.0 - 30.0	0	0	0	0	0	0	0	0	1	0	0	13	0	0	0	2
OZMW-17I2	35.0 - 45.0	6	0	0	0	9	0	0	9	2	0	18	0	0	0	13	0
OZMW-17D	53.0 - 63.0	391	12	5	5	8	8	10	725	345	33	1,821	1,750	1,451	937	1283	1089
OZMW-18S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	1	0	7	0	0	0	0
OZMW-18I	20.0 - 30.0	1	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0
OZMW-18I2	35.0 - 45.0	676	88	36	30	249	0	0	12	56	222	955	61	139	17	98	2
OZMW-18D	55.0 - 65.0	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
OZMW-19S	5.0 - 15.0	44	74	241	214	1,016	242	55	244	881	517	173	558	8	659	334	641
OZMW-19I	20.0 - 30.0	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
OZMW-19I2	35.0 - 45.0	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
OZMW-19D	55.0 - 65.0	485	0	245	398	557	178	661	75	36	25	294	41	55	8	28	193
OZMW-21S	5.0 - 15.0	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	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	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
OZMW-21D	55.0 - 65.0	933	707	684	494	332	409	453	195	157	162	183	89	56	147	--	--
OZMW-22S/22SR	5.0 - 15.0	--	1,347	1,588	6	6	110	61	1	122	8	122	0	3	11	5	1
OZMW-22I/22IR	20.0 - 30.0	--	220	4	0	1	0	20	1	89	28	16	39	11	8	0	0
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5.0 - 15.0	0	1	0	0	0	1	1	1	0	0	1	0	17	0	0	0
OZMW-23I	20.0 - 30.0	0	0	0	0	0	0	0	0	0	0	1	0	6	0	0	0
OZMW-23I2	35.0 - 45.0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0
OZMW-23D	55.0 - 65.0	51	26	3	3	0	1	0	0	3	0	1	0	0	1	0	0
OZMW-24S	5.0 - 15.0	0	160	0	0	5	47	9	8	17	12	11	7	32	2	3	4
OZMW-24I	20.0 - 30.0	0	0	0	0	0	0	0	0	208	14	0	0	47	0	0	0
OZMW-24I2	35.0 - 45.0	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
OZMW-24D	55.0 - 65.0	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
OZMW-25S	5.0 - 15.0	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
OZMW-25I	20.0 - 30.0	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
OZMW-25I2	35.0 - 45.0	482	730	162	881	588	585	1,040	149	322	696	402	324	328	492	1039	640
OZMW-25D	55.0 - 65.0	96	33	0	69	82	100	47	73	85	55	41	67	133	60	66	43
OZMW-26S	5.0 - 15.0	0	0	3	2	4	2	1	1	5	0	0	--	--	1	--	1
OZMW-26I	20.0 - 30.0	0	0	0	0	0	0	0	0	52	22	26	182	0	0	0	0
OZMW-26I2	35.0 - 45.0	23	0	0	176	61	0	41	163	54	17	96	38	27	0	2	65
OZMW-26D	55.0 - 65.0	7	0	0	0	0	5	1	4	0	2	0	--	--	0	--	0

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

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2014	2014			2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-05D	64.0 - 74.0	2382	2045	2154	1830	2834	2185	1561	2129	1895	1939	1846	3137.7	3038	1227.2	1555	1776
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35.0 - 45.0	350	258	674	220	219	428	364	140	209	204	257	260.5	184.1	287.52	13	184.6
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	3803	2180	3261	3376	4020	2711	3210	3306	1944	1404	2406	3638.1	3379.1	1177.5	2719	2232
BBMW-22I	30.0 - 40.0	4348	4319	4561	4708	7567	4596	3033	4090	5671	2704	3568	5002.5	4985.6	3034	3678	2662
BBMW-22D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5.0 - 15.0	430	96	117	158	112	100	103	97	195	207	177	177.7	697	105.5	92.2	122.9
BBMW-34I	25.0 - 30.0	2501	3039	1947	3005	2108	2069	2443	1360	1755	1372	1559	2610.5	2533.4	2174	2189.2	1566.1
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65.0 - 70.0	--	54	--	58	64	24	32	45	--	35	0	8.8	33.3	56.6	--	--
BBMW-35S	5.0-15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I	25.0-30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I2	45.0-50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35D	63.0-68.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	0	--	--	--	0	--	--
BBMW-36I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37S	5.0 - 10.0	4	16	7	115	5	8	2	22	2	6	20	28.8	0	0	3	27.6
BBMW-37I	20.0 - 30.0	846	204	247	68	6	1	5	0	0	0	15	0	0	0	3	0
BBMW-37I2	35.0 - 45.0	319	15	10	39	10	0	0	12	2	0	0	0	0	0	--	--
BBMW-37D	55.0 - 65.0	--	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5.0 - 15.0	162	142	6	2	84	4	90	157	59	35	204	241.1	262.4	137.3	116.61	232.47
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65.0 - 70.0	--	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5.0 - 15.0	142	154	0	152	2	0	114	160	83	141	5	32.6	48.3	166.08	8.96	6
BBMW-39I	25.0 - 30.0	2	0	2	0	--	63	--	0	0	0	0	0	0	13.3	--	--
BBMW-39I2	45.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40S	5.0 - 15.0	528	0	11	1901	0	3	531	352	0	256	0	685.6	0	256	759	668
BBMW-40I	25.0 - 30.0	30	25	20	13	29	20	8	11	26	8	7	12	12.2	19.9	--	--
BBMW-40I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	0	--	--	--
BBMW-40D	70.0 - 75.0	--	0	--	--	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-41S	6.0 - 16.0	1925	2112	2024	1992	2325	2101	1293	1896	1919	1487	1897	2364.2	2210.4	1600	1384	844.3
BBMW-41I	25.0 - 30.0	0	0	63	2	0	0	0	0	--	39	--	0	0	3.9	0	0
BBMW-41I2	45.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-42S	5.0 - 10.0	539	446	364	264	229	285	198	163	127	148	170	175.1	147.5	184.8	109	183.87
BBMW-42I	15.0-25.0	80	9	5	5	1	0	4	0	0	0	0	0	--	0	--	--
BBMW-42I2	35.0-45.0	496	104	244	315	122	97	9	4	2	107	25	0	--	0	--	--
BBMW-43S	5.0 - 10.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-43I	15.0-25.0	3	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
BBMW-43I2	35.0-45.0	0	7	--	--	--	0	--	--	--	0	--	--	--	--	--	--
IP-51	14.0 - 15.0	--	--	--	--	--	--	22	--	--	--	--	--	--	--	--	--
IP-52	24.0 -25.0	--	--	--	--	--	--	205	--	--	--	--	--	--	--	--	--
IP-53	14.0 - 15.0	--	--	--	--	--	--	290	--	--	--	--	--	--	--	--	--
IP-54	24.0 -25.0	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--
IP-55	14.0 - 15.0	--	--	--	--	--	--	130	--	--	--	--	--	--	--	--	--
IP-56	24.0 -25.0	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--
IP-57	14.0 - 15.0	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--
IP-58	24.0 -25.0	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	0	2	0	2	2	3	6	1	24	0	0	0	0	0	0	--
MW-03D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-05S	4.0 - 14.0	1789	1115	27	1508	1393	873	905	1242	1420	613	1471	1564.6	1740.3	755	10.44	1089.4
MW-05D	35.5 - 45.5	1775	1513	2330	1952	2620	1206	1184	1416	1671	1134	1912	2047.9	2231.9	1204.5	1603.2	1014.4

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

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)															
		Sampling Date															
		2014				2015				2016				2017			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
MW-09S	4.0 - 14.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU1PZ-101	4.0 - 14.0	365	814	1146	619	1374	707	1095	912	1286	1291	1199	1023.1	1845.2	738.1	1174.94	927.6
OU1PZ-102	4.0 - 14.0	0	0	7	0	14	17	41	12	0	6	17	24.5	3.6	1.1	5.6	14.2
OU1PZ-103	4.0 - 14.0	779	311	153	103	205	105	107	249	590	266	897	203.9	0	48	26.4	386.1
OU1PZ-104	4.0 - 14.0	0	2	1	2	23	23	14	14	2	2	6	5.1	5.3	2.9	0	2.2
OU1PZ-105	4.0 - 14.0	322	369	409	239	322	408	792	430	228	455	300	253.4	168.7	78	38.1	110.2
OU2MW-48S	3.0 - 13.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48D	65.0 - 70.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49S	3.0 - 13.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45.0 - 50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	63.0 - 68.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50S	5.0-15.0	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
OU2MW-50I	25.0-30.0	3	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-50I2	45.0-50.0	1	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
OU2MW-51S	5.0-15.0	--	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I	25.0-30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51I2	45.0-50.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-51D	61.0-66.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-57S	5.0 - 15.0	85	47	47	42	55	41	52	39	28	29	32	41.4	35.1	24.38	8.1	38.33
OU2MW-57I	20.0 - 30.0	26	44	67	49	38	0	14	102	14	41	0	38.4	38.7	3.3	51.4	0.97
OU2MW-57I2	35.0 - 45.0	0	0	0	0	0	43	0	0	0	0	88	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
OZMW-16I	20.0 - 30.0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
OZMW-16I2	35.0 - 45.0	26	1	56	30	2	4	5	27	8	24	8	13.9	0	3	0	4
OZMW-16D	55.0 - 65.0	11	1	44	8	7	0	0	514	41	7	17	44.2	45.1	9.3	0	0
OZMW-17S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-17I	20.0 - 30.0	3	0	0	0	0	0	0	0	2	0	2	0	0	0	0	1.4
OZMW-17I2	35.0 - 45.0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-17D	53.0 - 63.0	2218	1458	693	1571	1020	1224	817	857	922	1178	233	85.2	141.1	538.1	677.4	467.1
OZMW-18S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-18I	20.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-18I2	35.0 - 45.0	32	0	2	0	33	0	17	0	25	5	0	67	1340.7	16.9	0.96	0
OZMW-18D	55.0 - 65.0	1661	957	306	480	515	864	520	514	593	489	570	650.3	1114	734.9	919.2	730
OZMW-19S	5.0 - 15.0	536	182	5	262	201	526	364	188	63	623	270	926.1	954	357.47	696.9	110.4
OZMW-19I	20.0 - 30.0	3114	1631	508	621	2296	1338	2382	277	279	1096	140	1614.9	1989.6	291.95	878.5	195.67
OZMW-19I2	35.0 - 45.0	2470	2269	5046	3193	1229	1215	3537	1345	2233	1797	2312	3753.2	2929.6	962	1804.5	2031.2
OZMW-19D	55.0 - 65.0	326	275	658	427	123	7	137	128	251	289	406	505.1	304.1	51	25.7	245
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I2	35.0 - 45.0	4630	4476	5528	3935	4428	4854	4770	2564	3529	3181	2676	4375.3	4398	4475	3324	3862
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S/22SR	5.0 - 15.0	5	5	0	1	11	7	3	4	0	6	10	0	0	11.6	0.98	0
OZMW-22I/22IR	20.0 - 30.0	0	0	6	--	--	0	--	--	--	0	0	--	--	--	--	--
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5.0 - 15.0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0
OZMW-23I	20.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-23I2	35.0 - 45.0	0	0	1	0	0	0	0	0	281	0	0	0	0	0	0	0
OZMW-23D	55.0 - 65.0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-24S	5.0 - 15.0	1	0	0	0	3	1	5	4	0	0	0	5.2	25.2	0	0.73	17.67
OZMW-24I	20.0 - 30.0	2	0	0	0	0	0	0	0	0	0	0	0	0	1.1	0	1.8
OZMW-24I2	35.0 - 45.0	3549	3092	4424	4263	4200	3511	5046	2694	4152	2395	1968	2390.7	4230.6	3994	3824	4017
OZMW-24D	55.0 - 65.0	2594	2451	2783	3245	3205	1624	3199	2809	3078	2483	3305	2200.2	3408.8	3842	3746	3228
OZMW-25S	5.0 - 15.0	3058	2022	59	3223	3618	2459	1702	1419	2846	1185	934	2687	3030.9	438.6	669	1144.3
OZMW-25I	20.0 - 30.0	3167	2244	3842	2724	4305	3853	4073	3143	3660	1734	2212	2986.8	3160.9	2311.5	1168.7	1728.2
OZMW-25I2	35.0 - 45.0	285	229	1419	318	252	204	600	434	246	144	207	248.9	283.9	408	578.9	204.9
OZMW-25D	55.0 - 65.0	22	0	0	28	33	39	--	--	--	28	--	--	--	--	--	--
OZMW-26S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I	20.0 - 30.0	2	4	--	--	--	3	--	--	--	0	--	--	--	--	--	--
OZMW-26I2	35.0 - 45.0	53	0	15	64	60	0	0	59	45	0	7	37.5	31.2	0	0	1.4
OZMW-26D	55.0 - 65.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date																						
		2018				2019				2020			2021				2022							
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
BBMW-05D	64.0 - 74.0	1321	2412	1680	2131	1975	1549	1763	1639	2423	2405	4064	1353	2068.2	1226	--	959.6	--	0	4,492	1,933	960	1,226	
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	147	11	0	0	
BBMW-13D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	40	2	0	0	
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	15,000	2,962	0	0	
BBMW-20I	35.0 - 45.0	225.2	229.1	325.3	258.5	287.8	1.3	6.69	44.2	211.3	33.7	2.5	218	1.9	62.73	62.7	16.2	0	1	8,636	1,300	0	63	
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	14,594	5,722	0	0	
BBMW-22S	5.0 - 10.0	2259	1936	360.5	2888	1069.8	601	371.95	871	1945	56.6	1353.2	1492	837	45.5	122.3	1754.59	155.06	24	6,024	2,518	46	1,755	
BBMW-22I	30.0 - 40.0	3036	4326	2398.3	4646	2594.3	1351	3894	2622	4235	1409.8	4048	1436	3303.4	3454.8	2896	3703.1	850	1,351	8,810	4,617	850	3,703	
BBMW-22D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	5844	--	--	--	--	--	2,725	145,100	9,798	0	0	
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	24	2	0	0	
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0	
BBMW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	2	0	0	0	
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0	0	0	
BBMW-34S	5.0 - 15.0	187.1	65.4	113.7	104.2	117	51.96	86.7	72.3	136	55.5	77.6	101.5	29.36	48.14	70.2	61.5	44	29	969	223	44	70	
BBMW-34I	25.0 - 30.0	2464	1917.2	1977	2452	2312.4	2129.3	1470	2000.4	1835.2	580.4	2007	1499.7	599.8	1016	1950.4	341.1	234.4	580	3,307	2,096	234	1,950	
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,431	2,335	1,903	0	0	
BBMW-34D	65.0 - 70.0	--	36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	478	101	0	0	
BBMW-35S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
BBMW-35I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0	
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	23	3	0	0	
BBMW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
BBMW-37S	5.0 - 10.0	0	0	0	0	16.48	0	1.9	3.7	13.6	86.86	0	12.6	21	4.9	1.7	0	0	0	520	73	0	5	
BBMW-37I	20.0 - 30.0	0	0	0	0	--	0	--	--	--	13.1	--	--	--	--	--	--	--	0	8,853	689	0	0	
BBMW-37I2	35.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,234	337	0	0	
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	7	2	0	0	
BBMW-38S	5.0 - 15.0	154.4	88.5	159.26	114.31	122.25	0	105.98	2.5	61.2	61.45	0	0	0	0	0	46.7	26.9	0	262	73	0	47	
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	131	1,075	546	0	0	
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	116	1,155	600	0	0	
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	13	1	0	0	
BBMW-39S	5.0 - 15.0	0	7.96	70.3	37.9	25.8	12	5.6	16	31.9	0	1.6	0	0	5.37	2	0	0	0	2,988	415	0	5	
BBMW-39I	25.0 - 30.0	--	35.9	--	--	--	1.3	0	--	--	0	--	--	--	--	--	--	--	0	433	33	0	0	
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	16	1	0	0	
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0	
BBMW-40S	5.0 - 15.0	0	0	348	0	3.6	1.4	1882	39.9	362.6	396.3	0	0	0	0	0	--	0	0	4,533	641	0	0	
BBMW-40I	25.0 - 30.0	--	10.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	100	23	0	0	
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,264	201	0	0	
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
BBMW-41S	6.0 - 16.0	1564	1898	1400	2000	2410	114.85	1810	1478	655.8	1665	9.38	1018	1387	1786	922.3	1289.9	1087.6	0	3,693	1,546	922	1,786	
BBMW-41I	25.0 - 30.0	61	0	0	0	27.5	0	0	0	0	0	--	--	0	43	--	0	0	0	68	10	0	43	
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	0	
BBMW-41D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	0	
BBMW-42S	5.0 - 10.0	26.5	2.9	6.7	75.97	169.3	28.79	3.3	81.3	34	0.8	0	34.54	0.65	1	2.8	0.99	0.9	0	720	188	1	3	
BBMW-42I	15.0-25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,181	232	0	0	
BBMW-42I2	35.0-45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,504	495	0	0	
BBMW-43S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
BBMW-43I	15.0-25.0	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	552	77	0	0	
BBMW-43I2	35.0-45.0	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	7	1	0	0	
IP-51	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22	22	22	0	0	
IP-52	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	205	205	205	0	0	
IP-53	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	290	290	290	0	0	
IP-54	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
IP-55	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	130	130	130	0	0	
IP-56	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
IP-57	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
IP-58	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
MW-03S	3.0 - 13.0	0	0	0	0	0	0	0	--	--	0	--	--	0	--	--	--	--	0	1,425	38	0	0	
MW-03D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	184	10	0	0	
MW-05S	4.0 - 14.0	1446	1097.3	1097.1	662.1	66.2	247.5	36.6	86.4	584.9	133.9	0	446.9	451.7	268.6	106.3	674.4	43.78	0	5,514	1,223	44	674	
MW-05D	35.5 - 45.5	1129	1660	1288.5	1206	1484.7	983.5	1047.3	1488.5	1212.3	1564.1	129.83	1127	1950.2	1319.8	1370.7	942	1394.8	9	4,944	1,602	942	1,395	

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

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date																						
		2018				2019				2020			2021				2022							
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
MW-09S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	74	2	0	0		
MW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	4	1	0	0		
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	1003	1397.5	413.9	817.8	705.9	628.8	912.7	619.7	369.6	515.2	191	298.7	433.1	--	468.7	22.1	663.1	191	1,845	856	22	663	
OU1PZ-102	4.0 - 14.0	9.6	0	3.7	0	1.3	0	11.9	0	0	6.7	0	0	0	87.6	52.3	0	0	0	41	7	0	88	
OU1PZ-103	4.0 - 14.0	393.8	43.7	108.3	179.2	26.9	0	6.95	154.3	172.6	313.8	32.4	470.9	21.4	--	9.15	126.8	19.48	0	897	219	9	127	
OU1PZ-104	4.0 - 14.0	1.2	4.3	0	0	0	0	0	0	--	1.8	--	--	0	0	--	0	0	0	23	4	0	0	
OU1PZ-105	4.0 - 14.0	125.5	153.9	70.4	106.4	139.6	115.8	89.2	100.7	103.4	69.4	1.1	81.7	39.6	62.71	5.02	53.8	0	1	792	211	0	63	
OU2MW-48S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	0	
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	120	6	0	0	
OU2MW-50I	25.0-30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66	3	0	0	
OU2MW-50I2	45.0-50.0	0	0	0	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	
OU2MW-50D	65.0-70.0	0	0	0	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	
OU2MW-51S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	26	8	0	0	
OU2MW-51I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1	0	0	
OU2MW-51I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
OU2MW-51D	61.0-66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0	
OU2MW-57S	5.0 - 15.0	24	25.7	1.8	21.4	12.43	15.5	9.46	41.32	34.2	0	24.7	9.7	0	0	2.5	2.1	9.9	0	375	55	0	10	
OU2MW-57I	20.0 - 30.0	19	33.1	36.5	8	13.5	58.1	32.5	34.6	1.4	0	10	0	4	0	40.4	0	4	0	102	23	0	40	
OU2MW-57I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	3	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	830	16	0	0	
OZMW-16I	20.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.79	0	0	1,447	65	0	1	
OZMW-16I2	35.0 - 45.0	5	0	1.1	0	0	0	0	0	0	0	0	0	0	0	0	22.18	0	0	5,792	468	0	22	
OZMW-16D	55.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	514	17	0	0	
OZMW-17S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,963	37	0	0	
OZMW-17I	20.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,197	99	0	0	
OZMW-17I2	35.0 - 45.0	0.89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62	3	0	0	
OZMW-17D	53.0 - 63.0	2257	3560	950	801.1	4046	626	459.9	272.8	1487	138.94	1670	3398.3	3216.8	1078.3	2162.7	1195.3	37.5	0	4,046	886	38	2,163	
OZMW-18S	5.0 - 15.0	0	0	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	569	11	0	0	
OZMW-18I	20.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	0	0	1.7	0	2,312	72	0	2	
OZMW-18I2	35.0 - 45.0	6.34	6.4	1.5	22.2	40.4	4.8	0	1.4	1.7	0	0	23.2	0	7.1	18.12	0	0	0	11,417	1,440	0	18	
OZMW-18D	55.0 - 65.0	2747	838	441.1	626.1	920.1	657.2	706.2	660.8	364.8	649.7	495	391.4	898.6	1326	3351.3	635.4	266.4	0	5,445	1,184	266	3,351	
OZMW-19S	5.0 - 15.0	38	545	132.2	47.86	146.2	52.18	2.56	252.7	448.4	56.17	249.97	14.1	6.6	0	7.9	3.4	1.8	3	1,016	317	0	8	
OZMW-19I	20.0 - 30.0	1212.5	775.5	253.6	462.8	1068.5	237.1	221.5	1753	275.8	270.5	482.5	168.9	290.7	313.65	52.6	363.6	715.5	140	4,325	1,687	53	716	
OZMW-19I2	35.0 - 45.0	1320	298.8	164	2872	575.2	18.7	99.6	2053	137.2	729.4	2278	673	2.4	65.1	123.9	182.3	41.4	2	7,531	2,187	41	182	
OZMW-19D	55.0 - 65.0	135.2	0	4	58.1	5.99	0	0	2.5	0	0	--	--	--	--	--	--	6.7	0	661	189	7	7	
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	306.9	--	--	--	--	--	307	6,618	4,030	0	0	
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,458	7,522	4,877	0	0	
OZMW-21I2	35.0 - 45.0	4635	4675	4318	4876	3946	3094	3551	2693.2	3395	3916	4573	5582	4140	4734.5	3996	4097.87	4753.3	2,564	6,727	4,472	3,996	4,753	
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	56	952	397	0	0	
OZMW-22S/22SR	5.0 - 15.0	0	14.8	0	0	3.2	--	5.99	0	0	0	0	--	0	--	--	--	3.52	0	2,555	354	4	4	
OZMW-22I/22IR	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--								

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

Operable Unit Area				Upgradient of the Barrier Wall																
Aquifer Zone				Shallow																
Operable Unit				OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name				BBMW-22S	BBMW-22S	BBMW-22S	BBMW-22S	BBMW-27S	BBMW-34S	BBMW-34S	BBMW-34S	BBMW-34S	BBMW-37S	BBMW-37S	BBMW-37S	BBMW-37S	BBMW-38S	BBMW-38S	BBMW-38S	BBMW-39S
Start Depth				5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
End Depth				10	10	10	10	15	15	15	15	15	10	10	10	10	15	15	15	15
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				7/15/2021	11/8/2021	2/16/2022	6/8/2022	2/11/2022	8/11/2021	10/14/2021	2/7/2022	6/15/2022	8/18/2021	10/25/2021	2/9/2022	6/15/2022	8/12/2021	10/25/2021	2/1/2022	6/15/2022
Parent Sample Code																				
Analyte	Units	CAS no.	NYS AWQS																	
BTEX	µg/L																			
Benzene		71-43-2	1	12	17	13	16	1 U	33	110	32	22	1 U	1 U	1 U	1 U	3	5.4	5.3	4.3
Toluene		108-88-3	5	1.9 J	3.1 J	2.7 J	2.8 J	1 U	0.53 J	1.5	1	1 U	1 U	1 U	1 U	1 U	1 U	0.55 J	1 U	0.49 J
Ethylbenzene		100-41-4	5	800	1,300	1,100	970	1 U	1 U	0.41 J	3.2	1 U	0.82 J	0.78 J	0.43 J	1 U	0.43 J	1 U	42	14
o-Xylene		95-47-6	5	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m/p-Xylene		179601-23-1	5	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylene		1330-20-7	5	450	620	560	420	NA	2 U	1.1 J	3	2 U	5.5	4.9	3.1	1.5 J	2 U	2 U	7.1	2.7
Total BTEX (ND=0)		TBTEX_ND0	NE	1,263.90	1,940.10	1,675.70	1,408.80	ND	33.53	113.01	39.2	22	6.32	5.68	3.53	1.5	3.43	5.4	54.95	21
PAH17	µg/L																			
Acenaphthene		83-32-9	20*	23	72	120	89	10 U	28	40	38	33	10 U	1.7 J	10 U	10 U	10 U	10 U	10 U	3.1 J
Acenaphthylene		208-96-8	NE	1 J	8.4 J	2 J	1.9 J	10 U	0.94 J	1.4 J	1.7 J	1.2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	2.4 J	4 J	7.9 J	5.7 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	0.69 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
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
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
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
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
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
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
Fluoranthene		206-44-0	50*	1.9 J	2.5 J	2.5 J	1.6 J	10 U	1.5 J	1.8 J	1.7 J	1.4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	15	26	47	31	10 U	16	25	18	6.4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.3 J
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylinaphthalene		91-57-6	NE	10 U	2.4 J	530	0.76 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
Naphthalene		91-20-3	10*	2 U	2 U	1,000	2 U	2 U	2 U	2 U	2 U	2 U	4.9	2 U	2 U	2 U	2 U	43	25	0.97 J
Phenanthrene		85-01-8	50*	10 U	4.6 J	41	22	10 U	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*	2.2 J	2.4 J	3.5 J	3.1 J	10 U	1.7 J	2 J	2.1 J	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	45.5	122.3	1,754.59	155.06	ND	48.14	70.2	61.5	44	4.9	1.7	ND	ND	ND	ND	46.7	26.9
Other																				
Sulfate	ug/L	14808-79-8	250,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Operable Unit Area				Upgradient of the Barrier Wall															
Aquifer Zone				Shallow															
Operable Unit				OU1	OU1	OU1	OU1	OU2	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name				BBMW-39S	BBMW-39S	BBMW-39S	BBMW-40S	BBMW-40S	BBMW-40S	BBMW-41S	BBMW-41S	BBMW-41S	BBMW-41S	BBMW-42S	BBMW-42S	BBMW-42S	BBMW-42S	MW-05S	MW-05S
Start Depth				5	5	5	5	5	5	6	6	6	6	5	5	5	5	4	4
End Depth				15	15	15	15	15	15	16	16	16	16	10	10	10	10	14	14
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				10/14/2021	2/7/2022	4/7/2022	8/12/2021	11/1/2021	4/7/2022	8/11/2021	10/14/2021	2/1/2022	4/8/2022	8/9/2021	11/8/2021	2/9/2022	6/15/2022	7/14/2021	10/19/2021
Parent Sample Code																			
Analyte	Units	CAS no.	NYS AWQS																
BTEX	µg/L																		
Benzene		71-43-2	1	12	60	34	1 U	1 U	1 U	5 U	10 U	10 U	1.4 J	1 U	1 U	1 U	1 U	8.4	5.7
Toluene		108-88-3	5	1 U	0.45 J	1 U	1 U	1 U	1 U	5	6.6 J	5.4 J	4.4 J	1 U	1 U	1.6	1 U	2 U	2 U
Ethylbenzene		100-41-4	5	1.8	18	5.4	1 U	2.8	1 U	2,000	2,500	1,900	2,000	1.4	1.3	1.7	0.76 J	380	580
o-Xylene		95-47-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m/p-Xylene		179601-23-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylene		1330-20-7	5	2 U	8.2	3.4	2 U	3	2 U	1,600	1,200	1,300	1,500	2.3	2.4	6	1.2 J	230	360
Total BTEX (ND=0)		TBTEX_ND0	NE	13.8	86.65	42.8	ND	5.8	ND	3,605	3,706.60	3,205.40	3,505.80	3.7	3.7	9.3	1.96	618.4	945.7
PAH17	µg/L																		
Acenaphthene		83-32-9	20*	2 J	10 U	10 U	10 U	10 U	10 U	200 U	3.3 J	2.9 J	2.8 J	10 U	10 U	10 U	10 U	39	39
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	200 U	1.5 J	1.2 J	1.4 J	10 U	10 U	10 U	10 U	1.7 J	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.1 J	6.5 J
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	20 U	1 U	1 U	1 U	1 U	1 U	1 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	40 U	2 U	2 U	2 U	2 U	1.2 J	2 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	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	200 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	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	20 U	1 U	1 U	1 U	1	1.6	0.99 J	0.9 J	1 U	1 U
Chrysene		218-01-9	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	40 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	4 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 U	1 U	20 U	1 UJ	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	2 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.7 J	2.5 J
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	200 U	2.8 J	2.6 J	2.9 J	10 U	10 U	10 U	10 U	23	32
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	40 U	2 UJ	2 U	2 U	2 U	2 U	2 U	2 UJ	2 U	4 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	86 J	61 J	80	77	10 U	10 U	10 U	10 U	95	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	1,700	850	1,200	1,000	2 U	2 U	2 U	2 U	74	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	200 U	3.7 J	3.2 J	3.5 J	10 U	10 U	10 U	10 U	27	24
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2.1 J	2.3 J
Total PAH (17) (ND=0)		TPAH17_ND0	NE	2	ND	ND	ND	ND	ND	1,786	922.3	1,289.90	1,087.60	1	2.8	0.99	0.9	268.6	106.3
Other																			
Sulfate	ug/L	14808-79-8	250,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Operable Unit Area				Upgradient of the Barrier Wall																
Aquifer Zone				Shallow																
Operable Unit				OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name				MW-09S	OU1PZ-101	OU1PZ-101	OU1PZ-101	OU1PZ-103	OU1PZ-103	OU1PZ-103	OU1PZ-103	OZMW-23S	OZMW-23S	OZMW-23S	OZMW-23S	OZMW-24S	DUP-04	OZMW-24S	OZMW-24S	OZMW-24I
Start Depth				4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5
End Depth				14	14	14	14	14	14	14	14	15	15	15	15	15	15	15	15	15
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				2/11/2022	10/19/2021	1/26/2022	5/11/2022	10/18/2021	2/9/2022	6/8/2022	8/9/2021	10/11/2021	1/3/2022	4/4/2022	8/12/2021	10/20/2021	10/20/2021	1/11/2022	4/25/2022	10/20/2021
Parent Sample Code																	OZMW-24S			
Analyte	Units	CAS no.	NYS AWQS																	
BTEX	µg/L																			
Benzene		71-43-2	1	1 U	5 U	2 U	5 U	0.58 J	1.1 J	0.49 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	12
Toluene		108-88-3	5	1 U	5 U	2 U	5 U	1.8	8.1	2.6	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.6
Ethylbenzene		100-41-4	5	1 U	1200	780	1,200	46	570	260	1 U	1 U	1 U	1 U	0.36 J	0.48 J	0.51 J	0.48 J	1 U	440
o-Xylene		95-47-6	5	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m/p-Xylene		179601-23-1	5	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylene		1330-20-7	5	NA	140	92	140	17	110	50	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	270
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	1340	872	1,340	65.38	689.2	313.09	ND	ND	ND	ND	0.36	0.48	0.51	0.48	ND	724.6
PAH17	µg/L																			
Acenaphthene		83-32-9	20*	10 U	13	6.6 J	14	6.4 J	7.9 J	10	10 U	10 U	10 U	10 U	2.6 J	10 U	10 U	10 U	10 U	76
Acenaphthylene		208-96-8	NE	10 U	1.5 J	10 U	1.8 J	10 U	10 U	0.98 J	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	1.4 J	10 U	10 U	10 U	10 U	1.3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.4 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	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
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
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
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
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
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
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	1.6 J
Fluorene		86-73-7	50*	10 U	8.8 J	3.3 J	7.7 J	2 J	4.3 J	4.1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	34
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-Methylnaphthalene		91-57-6	NE	10 U	46	2.2 J	44	10 U	2.9 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	24
Naphthalene		91-20-3	10*	2 U	390	10	590	0.75 J	110	3.1	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	3
Phenanthrene		85-01-8	50*	10 U	8 J	10 U	5.6 J	10 U	1.7 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	40
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	2.5 J
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	468.7	22.1	663.1	9.15	126.8	19.48	ND	ND	ND	ND	2.6	ND	ND	ND	ND	187.9
Other																				
Sulfate	ug/L	14808-79-8	250,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Operable Unit Area				Upgradient of the Barrier Wall																
Aquifer Zone				Shallow			Intermediate													
Operable Unit				OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name				OZMW-25S	OZMW-25S	OZMW-25S	BBMW-20I	BBMW-20I	BBMW-20I	BBMW-20I	BBMW-22I	BBMW-22I	BBMW-22I	BBMW-22I	OZMW-21I2	OZMW-21I2	OZMW-21I2	OZMW-21I2	OZMW-24I	OZMW-24I
Start Depth				5	5	5	35	35	35	35	30	30	30	30	35	35	35	35	20	20
End Depth				15	15	15	45	45	45	45	40	40	40	40	45	45	45	45	30	30
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				11/1/2021	1/11/2022	4/8/2022	8/17/2021	12/21/2021	3/1/2022	6/15/2022	7/15/2021	11/8/2021	2/16/2022	6/9/2022	7/15/2021	11/8/2021	1/6/2022	6/8/2022	8/12/2021	10/20/2021
Parent Sample Code																				
Analyte	Units	CAS no.	NYS AWQS																	
BTEX	µg/L																			
Benzene		71-43-2	1	16	20	17	1 U	1 U	1 U	1 U	25	31	25	23	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	3.3	4.1	1.8 J	1 U	1 U	1 U	1 U	5.1	5	3.9	3.2	1 U	1 U	0.47 J	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	550	660	240	1 U	1 U	1 U	1 U	180	300	260	190	25	13	56	30	1 U	1 U
o-Xylene		95-47-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m/p-Xylene		179601-23-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylene		1330-20-7	5	510	650	150	1.2 J	2 U	2 U	2 U	120	190	170	120	17	8.7	39	20	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	1,079.30	1,334.10	408.8	1.2	ND	ND	ND	330.1	526	458.9	336.2	42	21.7	95.47	50	ND	ND
PAH17	µg/L																			
Acenaphthene		83-32-9	20*	42	69 J	97	3.2 J	2.2 J	1.9 J	10 U	130	150 J	190	160	160	140 J	220	230	10 U	10 U
Acenaphthylene		208-96-8	NE	1.5 J	10 U	1.8 J	27	18	5.2 J	10 U	2.1 J	500 U	2.1 J	1.8 J	27	500 U	20	23	10 U	10 U
Anthracene		120-12-7	50*	4.1 J	3.4 J	5.5 J	2.9 J	10 U	10 U	10 U	5.4 J	500 U	7.7 J	5.8 J	11	500 U	10	16	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	0.62 J	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	50 U	0.67 J	2.1	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	100 U	2 U	2 U	2 U	100 U	2 U	1 J	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	50 U	1 U	1 U	1 U	50 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	500 U	10 U	10 U	10 U	500 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	0.41 J	1 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	50 U	1 U	1.1	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	100 U	2 U	2 U	2 U	100 U	2 U	1.7 J	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	50 U	1 U	1 U	1 U	50 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	1.4 J	1.7 J	1.4 J	1.6 J	10 U	10 U	10 U	1.3 J	500 U	1.9 J	1.4 J	3.5 J	500 U	4.3 J	5.4 J	10 U	10 U
Fluorene		86-73-7	50*	24	49 J	46	12	6.8 J	5.6 J	10 U	41	46 J	52	46	67	56 J	72	79	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	100 U	2 U	2 U	2 U	100 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	320	10 U	19	10 U	10 U	840	1,200	1200	530	1,100	1,000	1100	1,300	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	920	2 U	9.9	2 U	2 U	2,400	1,500	2,200	70	3,300	2,800	2,600	3,000	2 U	2 U
Phenanthrene		85-01-8	50*	26	33 J	39	13	6.8 J	3.5 J	10 U	35	500 U	47	35	62	500 U	66	82	10 U	10 U
Pyrene		129-00-0	50*	10 U	2.1 J	10 U	2 J	10 U	10 U	10 U	10 U	500 U	2.4 J	10 U	4 J	500 U	4.9 J	12	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	99	158.2	1,430.70	62.73	62.7	16.2	ND	3,454.80	2,896	3,703.10	850	4,734.50	3,996	4,097.87	4,753.30	ND	ND
Other																				
Sulfate	ug/L	14808-79-8	250,000	NA	75,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Operable Unit Area				Upgradient of the Barrier Wall																
Aquifer Zone				Intermediate																
Operable Unit				OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name				OZMW-24I	OZMW-24I2	OZMW-24I2	OZMW-24I2	DUP-02	OZMW-24I2	BBMW-27I	BBMW-34I	BBMW-34I	BBMW-34I	BBMW-34I	BBMW-41I	BBMW-41I	DUP-05	BBMW-41I	MW-05D	MW-05D
Start Depth				20	35	35	35	35	35	30	25	25	25	25	25	25	25	25	35.5	35.5
End Depth				30	45	45	45	45	45	40	30	30	30	30	30	30	30	30	45.5	45.5
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				4/25/2022	8/12/2021	10/20/2021	1/11/2022	1/11/2022	4/25/2022	3/1/2022	8/11/2021	10/14/2021	2/7/2022	6/15/2022	8/11/2021	2/1/2022	2/1/2022	4/8/2022	7/14/2021	10/19/2021
Parent Sample Code								OZMW-24I2									BBMW-41I			1/13/2022
Analyte	Units	CAS no.	NYS AWQS																	
BTEX	µg/L																			
Benzene		71-43-2	1	13	1 U	1 U	1 U	1 U	1 U	1 U	34	39 J	18	25	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	0.82 J	0.68 J	0.52 J	0.53 J	0.51 J	1 U	1 U	3.1	2.9 J	2.7	2.2	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	130	15	16	15	15	13	1 U	320	330 J	350	260	81	1	1 U	1 U	33	17
o-Xylene		95-47-6	5	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m/p-Xylene		179601-23-1	5	NA	NA	NA	NA	NA	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylene		1330-20-7	5	150	130	140	120	120	90	NA	190	200 J	220	160	63	2 U	2 U	2 U	17	7.8
Total BTEX (ND=0)		TBTEX_ND0	NE	293.82	145.68	156.52	135.53	135.51	103	ND	547.1	571.9	590.7	447.2	144	1	ND	ND	50	24.8
PAH17	µg/L																			
Acenaphthene		83-32-9	20*	43	78 J	71	100	94	120 J	10 U	110	94	96	90	10 U	10 U	10 U	10 U	170	170
Acenaphthylene		208-96-8	NE	1.4 J	230	180	160	160	160 J	10 U	100 U	2 J	14	1.8 J	10 U	10 U	10 U	10 U	14	14
Anthracene		120-12-7	50*	10 U	200 U	10	12	12	500 U	10 U	100 U	8.6 J	11	8.6 J	10 U	10 U	10 U	10 U	6.8 J	6.7 J
Benzo(a)anthracene		56-55-3	0.002*	1 U	20 U	1 U	1 U	1 U	50 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	40 U	2 U	2 U	2 U	100 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	10 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	20 U	1 U	1 U	1 U	50 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	200 U	10 U	10 U	10 U	500 U	10 U	100 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	50 U
Benzo(a)pyrene		50-32-8	ND	1 U	20 U	1 U	1 U	1 U	50 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U
Chrysene		218-01-9	0.002*	2 U	40 U	2 U	2 U	2 U	100 U	2 U	20 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	10 U
Dibenz(a,h)anthracene		53-70-3	NE	1 U	20 U	1 U	1 U	1 U	50 U	1 U	10 U	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	5 U
Fluoranthene		206-44-0	50*	10 U	200 U	2.8 J	3.2 J	3 J	500 U	10 U	100 U	2.3 J	2.8 J	2.1 J	10 U	10 U	10 U	10 U	2.1 J	1.9 J
Fluorene		86-73-7	50*	7.3 J	57 J	60	66	63	63 J	10 U	46 J	43	58	48	10 U	10 U	10 U	10 U	45	47
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	40 U	2 U	2 UJ	2 UJ	100 U	2 U	20 U	2 U	2 U	2 UJ	2 U	2 U	2 U	2 U	2 U	10 U
2-Methylnaphthalene		91-57-6	NE	60	790	710	710	720	690	10 U	580	830 J	97	35	2 J	10 U	10 U	10 U	740	950
Naphthalene		91-20-3	10*	190	2,900	4,300	3,300	3,300	4,600	2 U	220	920	1.8 J	2 U	41	2 U	2 U	2 U	300	140
Phenanthrene		85-01-8	50*	10 U	65 J	54	61	60	500 U	10 U	60 J	48	57	46	10 U	10 U	10 U	10 U	39	39
Pyrene		129-00-0	50*	10 U	200 U	3.2 J	4.2 J	4.1 J	500 U	10 U	100 U	2.5 J	3.5 J	2.9 J	10 U	10 U	10 U	10 U	2.9 J	2.1 J
Total PAH (17) (ND=0)		TPAH17_ND0	NE	301.7	4,120	5,391	4,416.40	4,416.10	5,633	ND	1,016	1,950.40	341.1	234.4	43	ND	ND	ND	1,319.80	1,370.70
Other																				
Sulfate	ug/L	14808-79-8	250,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Operable Unit Area				Upgradient of the Barrier Wall															
Aquifer Zone				Intermediate															
Operable Unit				OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name				MW-05D	MW-09I	OZMW-23I	OZMW-23I	OZMW-23I	OZMW-23I2	OZMW-23I2	OZMW-23I2	OZMW-23I2	OZMW-25I	OZMW-25I	OZMW-25I	OZMW-25I	OZMW-25I2	DUP-07	OZMW-25I2
Start Depth				35.5	30	20	20	20	35	35	35	35	20	20	20	30	35	35	35
End Depth				45.5	40	30	30	30	45	45	45	45	30	30	30	30	45	45	45
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				6/8/2022	2/11/2022	8/9/2021	10/11/2021	1/3/2022	4/4/2022	8/9/2021	10/11/2021	1/3/2022	4/4/2022	8/11/2021	11/1/2021	1/11/2022	4/8/2022	8/17/2021	8/17/2021 OZMW-25I2
Parent Sample Code																			
Analyte	Units	CAS no.	NYS AWQS																
BTEX	µg/L																		
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	0.25 J	1 U	1 U	1 U	1 U	27	23	22	24	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	1.9	1.8	2	1.7	1 U	1 U
Ethylbenzene		100-41-4	5	12	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	200	200	220	210	0.44 J	0.46 J
o-Xylene		95-47-6	5	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m/p-Xylene		179601-23-1	5	NA	1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylene		1330-20-7	5	4.4	NA	2 U	2 U	2 U	1.6 J	2 U	2 U	2 U	1 U	120	120	130	130	0.92 J	0.95 J
Total BTEX (ND=0)		TBTEX_ND0	NE	16.4	ND	ND	ND	ND	1.85	ND	ND	ND	ND	348.9	344.8	374	365.7	1.36	1.41
PAH17	µg/L																		
Acenaphthene		83-32-9	20*	190	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	170 J	130	130	140	12	10
Acenaphthylene		208-96-8	NE	13	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	200 U	6.2 J	10 U	5.1 J	41	40
Anthracene		120-12-7	50*	6.2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	200 U	8.5 J	8.5 J	9.1 J	8.1 J	8 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	0.64 J	1 U	0.69 J	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	40 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	20 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	200 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	20 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	40 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	20 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	1.5 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	200 U	3.3 J	2.7 J	3.2 J	3.2 J	3.1 J
Fluorene		86-73-7	50*	43	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	57 J	45	52	55	32	30
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	40 U	2 U	2 UJ	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	860	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	750	550	33	720	7.8 J	5.3 J
Naphthalene		91-20-3	10*	240	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1,400	910	2 U	1,500	22	16
Phenanthrene		85-01-8	50*	38	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	64 J	50	50	55	53	52
Pyrene		129-00-0	50*	3.1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	200 U	3.6 J	3.4 J	4.1 J	3.9 J	3.6 J
Total PAH (17) (ND=0)		TPAH17_ND0	NE	1,394.80	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,441	1,707.24	279.6	2,492.19	183	168
Other																			
Sulfate	ug/L	14808-79-8	250,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Operable Unit Area				Upgradient of the Barrier Wall																		
Aquifer Zone				Intermediate					Deep												Deep	
Operable Unit				OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1		
Sample Name				OZMW-25I2	OZMW-26I2	OZMW-26I2	OZMW-26I2	OZMW-26I2	BBMW-05D	BBMW-05D	OZMW-23D	OZMW-23D	OZMW-23D	DUP-02	OZMW-23D	OZMW-24D	OZMW-24D	OZMW-24D	OZMW-24D	OZMW-24D		
Start Depth				35	35	35	35	35	64	64	55	55	55	55	55	55	55	55	55	55		
End Depth				45	45	45	45	45	74	74	65	65	65	65	65	65	65	65	65	65		
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft		
Sample Date				5/10/2022	8/9/2021	12/6/2021	1/6/2022	6/1/2022	7/15/2021	3/2/2022	8/9/2021	10/11/2021	1/3/2022	10/11/21 OZMW-23D	4/4/2022	8/12/2021	10/20/2021	11/3/2021	1/11/2022	4/25/2022		
Parent Sample Code																				10/11/2021 OZMW-23D		
Analyte	Units	CAS no.	NYS AWQS																			
BTEX	µg/L																					
Benzene		71-43-2	1	1 U	1 U	3.3	0.71 J	1 U	20	14	1 U	1 U	1 U	1 U	1 U	0.94 J	0.69 J	NA	1.2	1.9		
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	320	330	1 U	1 U	1 U	1 U	1 U	62	60	NA	75	110		
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	95	100	1 U	1 U	1 U	1 U	1 U	69	69	NA	65	65		
o-Xylene		95-47-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
m/p-Xylene		179601-23-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Total Xylene		1330-20-7	5	2 U	2 U	2.6	2 U	1 U	670	840	2 U	2 U	2 U	2 U	1 U	610	570	NA	570	550		
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	5.9	0.71	ND	1,105	1,284	ND	ND	ND	ND	ND	741.94	699.69	NA	711.2	726.9		
PAH17	µg/L																					
Acenaphthene		83-32-9	20*	10 U	10 U	8.4 J	10 U	10 U	3 J	4.5 J	10 U	10 U	10 U	10 U	10 U	17 J	14	NA	13	500 U		
Acenaphthylene		208-96-8	NE	10 U	10 U	1.8 J	10 U	10 U	57	62	10 U	10 U	10 U	10 U	10 U	290	230	NA	170	240 J		
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	1.3 J	3.8 J	10 U	10 U	10 U	10 U	10 U	100 U	9.3 J	NA	8 J	500 U		
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	4.4	1 U	1 U	1 U	1 U	1 U	10 U	1 U	NA	1 U	50 U		
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2.7	2 U	2 U	2 U	2 U	2 U	20 U	2 U	NA	2 U	100 U		
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1	1 U	1 U	1 U	1 U	1 U	10 U	1 U	NA	1 U	50 U		
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	1.4 J	10 U	10 U	10 U	10 U	10 U	100 U	10 U	NA	10 U	500 U		
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	4.1	1 U	1 U	1 U	1 U	1 U	10 U	1 U	NA	1 U	50 U		
Chrysene		218-01-9	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	4.4	2 U	2 U	2 U	2 U	2 U	20 U	2 U	NA	2 U	100 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	10 U	1 U	NA	1 U	50 U		
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	1.1 J	4.9 J	10 U	10 U	10 U	10 U	10 U	100 U	1.4 J	NA	1.2 J	500 U		
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	8.5 J	12	10 U	10 U	10 U	10 U	10 U	55 J	53	NA	47	53 J		
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	1.5 J	2 U	2 U	2 U	2 U	2 U	20 U	2 U	NA	2 UJ	100 U		
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	51	36	10 U	10 U	10 U	10 U	10 U	740	680	NA	530	650		
Naphthalene		91-20-3	10*	2 U	2 U	0.54 J	2 U	2 U	1,100	800	2 U	2 U	2 U	2 U	2 U	1,900	3,500	NA	2,200	3,200		
Phenanthrene		85-01-8	50*	10 U	10 U	8.1 J	10 U	10 U	4.1 J	9.2 J	10 U	10 U	10 U	10 U	10 U	60 J	50	NA	43	500 U		
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	7.7 J	10 U	10 U	10 U	10 U	10 U	100 U	1.7 J	NA	10 U	500 U		
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	18.84	ND	ND	1,226	959.6	ND	ND	ND	ND		3,062	4,539.40	NA	3,012.20	4,143		
Other																						
Sulfate	ug/L	14808-79-8	250,000	NA	NA	NA	NA	NA	NA	250,000	NA	NA	NA	NA	NA	82,200	NA	86,600	NA	54,300		

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

Operable Unit Area				Upgradient of the Barrier Wall												Outside and/or Downgradient of the Barrier Wall					
Aquifer Zone																Shallow					
Operable Unit				OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	
Sample Name				OU1PZ-102	OU1PZ-102	OU1PZ-102	OU1PZ-102	OU1PZ-104	OU1PZ-104	OU1PZ-104	OU1PZ-105	OU1PZ-105	DUP-03	OU1PZ-105	DUP-04	OU1PZ-105	OZMW-16S	OZMW-16S	OZMW-16S	OZMW-16S	OZMW-17S
Start Depth				4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5
End Depth				14	14	14	14	14	14	14	14	14	14	14	14	14	15	15	15	15	15
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				8/11/2021	10/18/2021	1/26/2022	5/11/2022	8/11/2021	2/9/2022	6/8/2022	8/11/2021	10/18/2021	10/18/2021	1/18/2022	1/18/2022	5/11/2022	7/30/2021	10/5/2021	1/3/2022	4/11/2022	8/2/2021
Parent Sample Code													OU1PZ-105		OU1PZ-105						
Analyte	Units	CAS no.	NYS AWQS																		
BTEX				µg/L																	
Benzene		71-43-2	1	4.5	2.7	0.33 J	1 U	1.4	1 U	0.38 J	2	1.3	1.3	0.38 J	0.41 J	1 U	1 U	1 U	1 U	1 U	
Toluene		108-88-3	5	2.7	2.8	1 U	1 U	0.85 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	
Ethylbenzene		100-41-4	5	130	94	12	1 U	5.9	1 U	1 U	18	14	12	5.7	5.7	9.6	1 U	1 U	1 U	1 U	
o-Xylene		95-47-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
m/p-Xylene		179601-23-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Xylene		1330-20-7	5	89	53	4.6	2 U	5.4	2 U	2 U	16	12	11	4.6	4	10	2 U	1 U	2 U	2 U	
Total BTEX (ND=0)		TBTEX_ND0	NE	226.2	152.5	16.93	ND	13.55	ND	0.38	36	27.3	24.3	10.68	10.11	19.6	ND	ND	ND	ND	
PAH17				µg/L																	
Acenaphthene		83-32-9	20*	11	14	10 U	10 U	10 U	10 U	10 U	8.1 J	4.4 J	4.9 J	2.7 J	2.3 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	0.91 J	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	
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	
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	
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	
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	
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	
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	
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	
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	
Fluorene		86-73-7	50*	2.6 J	3.6 J	10 U	10 U	10 U	10 U	10 U	3.5 J	10 U	0.93 J	1.6 J	1.3 J	10 U	10 U	10 U	10 U	10 U	
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 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	16	10 U	10 U	17	15	10 U	10 U	10 U	10 U	10 U	
Naphthalene		91-20-3	10*	74	33	2 U	2 U	2 U	2 U	2 U	32	0.62 J	9.6	31	27	2 U	2 U	2 U	2 U	2 U	
Phenanthrene		85-01-8	50*	10 U	1.7 J	10 U	10 U	10 U	10 U	10 U	2.2 J	10 U	10 U	1.5 J	1.3 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	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	87.6	52.3	ND	ND	ND	ND	ND	62.71	5.02	15.43	53.8	46.9	ND	ND	ND	ND	ND	
Other																					
Sulfate	ug/L	14808-79-8	250,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

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

Operable Unit Area				Outside and/or Downgradient of the Barrier Wall																
Aquifer Zone				Shallow																
Operable Unit				OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name				OZMW-17S	OZMW-17S	DUP-02	OZMW-17S	OZMW-18S	OZMW-18S	OZMW-18S	OZMW-18S	OZMW-19S	OZMW-19S	OZMW-19S	OZMW-22SR	OU2MW-50S	OU2MW-50S	OU2MW-50S	OU2MW-50S	OU2MW-57S
Start Depth				5	5	5	5	5	5	5	5	5	5	5	20	5	5	5	5	5
End Depth				15	15	15	15	15	15	15	15	15	15	15	30	15	15	15	15	15
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				10/7/2021	4/12/2022	4/12/2022	1/4/2022	8/4/2021	10/13/2021	1/27/2022	4/21/2022	7/15/2021	11/3/2021	1/19/2022	4/25/2022	5/31/2022	7/22/2021	10/7/2021	1/6/2022	4/11/2022
Parent Sample Code						OZMW-17S														
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	0.25 J	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	0.44 J	0.48 J	1 U	0.44 J	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	4.7	46	50	120	130	1 U	1 U	1 U	1 U	0.83 J
o-Xylene		95-47-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m/p-Xylene		179601-23-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	1 U	1 U	2 U	14	100	120	240	220	1.2 J	2 U	2 U	2 U	1.1 J
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	ND	18.7	146.44	170.48	360	350.69	1.2	ND	ND	ND	1.93
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	4.2 J	10 U	10 U	2.6 J	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3.7 J	3.4 J	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
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
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
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
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 UJ	10 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
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
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
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 UJ	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
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
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	0.92 J	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 UJ	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 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 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
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
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	1.8 J	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	7.9	3.4	1.8	3.52	ND	ND	ND	ND
Other																				
Sulfate	ug/L	14808-79-8	250,000	NA	NA	NA	NA	NA	NA	24,400	NA	NA	NA	3,430 J	NA	NA	NA	NA	NA	NA

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

Operable Unit Area				Outside and/or Downgradient of the Barrier Wall																
Aquifer Zone				Shallow			Intermediate													
Operable Unit				OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name				OU2MW-57S	OU2MW-57S	OU2MW-57S	OZMW-16I	OZMW-16I	OZMW-16I	OZMW-16I	OZMW-16I2	OZMW-16I2	OZMW-16I2	OZMW-16I2	OZMW-17I	OZMW-17I	OZMW-17I	OZMW-17I	OZMW-17I2	OZMW-17I2
Start Depth				5	5	5	20	20	20	20	35	35	35	35	20	20	20	20	35	35
End Depth				15	15	15	30	30	30	30	45	45	45	45	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
Sample Date				10/7/2021	2/7/2022	4/5/2022	7/27/2021	10/5/2021	1/3/2022	4/11/2022	7/30/2021	10/5/2021	1/3/2022	4/12/2022	8/2/2021	10/7/2021	1/4/2022	4/12/2022	8/2/2021	10/7/2021
Parent Sample Code																				
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	0.61 J	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
Ethylbenzene		100-41-4	5	1.5	0.57 J	1 U	1 U	1 U	1 U	1 U	1 U	0.94 J	1.1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene		95-47-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m/p-Xylene		179601-23-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylene		1330-20-7	5	1.7 J	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	15	2 U	2 U	2 U	2 U	3.1	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	3.2	0.57	ND	ND	ND	ND	ND	ND	0.94	16.71	ND	ND	ND	ND	4.1	ND	ND
PAH17	µg/L																			
Acenaphthene		83-32-9	20*	2.5 J	1.4 J	3.2 J	10 U	10 U	10 U	10 U	10 U	10 U	18	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	1.1 J	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
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
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
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
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ	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 UJ	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
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 UJ	1 U	1 U	1 U	1 UJ	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
Fluorene		86-73-7	50*	10 U	10 U	2.5 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*
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 UJ	2 UJ	2 U	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 UJ	2 U	2 U	2 U
2-Methylinaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.98 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	0.7 J	1.5 J	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
Phenanthrene		85-01-8	50*	10 U	10 U	2.7 J	10 U	10 U	10 U	10 U	10 U	10 U	2.1 J	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
Total PAH (17) (ND=0)		TPAH17_ND0	NE	2.5	2.1	9.9	ND	ND	0.79	ND	ND	ND	22.18	ND	ND	ND	ND	ND	ND	ND
Other																				
Sulfate	ug/L	14808-79-8	250,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Operable Unit Area				0																
Aquifer Zone				Intermediate																
Operable Unit				OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name				OZMW-17I2	OZMW-18I	OZMW-18I	OZMW-18I	OZMW-18I	OZMW-18I2	OZMW-18I2	OZMW-18I2	OZMW-19I	OZMW-19I	OZMW-19I	OZMW-19I	OZMW-19I2	OZMW-19I2	OZMW-19I2	OZMW-19I2	OZMW-19I2
Start Depth				35	20	20	20	20	35	35	35	20	20	20	20	35	35	35	35	25
End Depth				45	30	30	30	30	45	45	45	30	30	30	30	45	45	45	45	30
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				4/12/2022	8/4/2021	10/13/2021	1/27/2022	4/21/2022	8/4/2021	10/13/2021	1/27/2022	4/21/2022	7/15/2021	11/3/2021	1/19/2022	5/31/2022	7/15/2021	11/3/2021	1/19/2022	5/31/2022
Parent Sample Code																				
Analyte	Units	CAS no.	NYS AWQS																	
BTEX	µg/L																			
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1.6	1 U	1 U	1 U	1 U	3.2	7.7	17	7.2	12	11	5.5	1.1
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.53 J	0.68 J	0.74 J	0.62 J	0.89 J	0.67 J	0.8 J	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	0.84 J	0.34 J	1 U	1 U	1 U	46	34	43	45	95	49	110	56
o-Xylene		95-47-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m/p-Xylene		179601-23-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylene		1330-20-7	5	2 U	1 U	1 U	2 U	22	0.47 J	1 U	2 U	2 U	27	18	27	24	48	35	55	23
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	ND	ND	24.44	0.81	ND	ND	ND	76.73	60.38	87.74	76.82	155.89	95.67	171.3	80.1
PAH17	µg/L																			
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	1.7 J	2.5 J	2.2 J	10 U	10 U	150	29	170	130	50	50	81	14
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3.7 J	1.5 J	10 U	10 U	1.1 J	2.7 J	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	7.6 J	10 U	12	7.8 J	1.9 J	4.3 J	4.5 J	2.5 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	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
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
Benzo(g,h,i)perylene		191-24-2	NE	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	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
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
Dibenz(a,h)anthracene		53-70-3	NE	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
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4.1 J	3 J	4.4 J	2.8 J	2.4 J	2.8 J	2.5 J	1.6 J
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	0.92 J	10 U	10 U	69	15	75	53	6.4 J	19	6 J	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	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
2-Methylnaphthalene		91-57-6	NE	10 U	10 U*	10 UJ	10 U	10 U	10 U*	10 UJ	10 U	10 U	0.57 J	10 U	10 U	220	10 U	10 U	16	10 U
Naphthalene		91-20-3	10*	2 U	2 U*	2 U	2 U	2 U	4.6	15	2 U	2 U	0.58 J	2 U	2 U	240	2 U	2 U	2.6	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	73	10 U	96	58	10 U	41	53	15
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.1 J	4.1 J	6.2 J	3.9 J	3.3 J	4.1 J	3.7 J	2.3 J
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	1.7	7.1	18.12	ND	ND	313.65	52.6	363.6	715.5	65.1	123.9	182.3	41.4
Other																				
Sulfate	ug/L	14808-79-8	250,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

Operable Unit Area				Outside and/or Downgradient of the Barrier Wall																		
Aquifer Zone				Intermediate																Deep		
Operable Unit				OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	
Sample Name				OU2MW-501	OU2MW-501	OU2MW-501	OU2MW-5012	OU2MW-5012	DUP-01	OU2MW-5012	OU2MW-5012	OU2MW-571	OU2MW-571	OU2MW-571	OU2MW-571	OU2MW-5712	OU2MW-5712	OU2MW-5712	OU2MW-5712	OU2MW-5712	OZMW-16D	OZMW-16D
Start Depth				25	25	25	45	45	45	45	45	20	20	20	20	35	35	35	35	55	55	
End Depth				30	30	30	50	50	50	50	50	30	30	30	30	45	45	45	45	65	65	
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	
Sample Date				10/7/2021	1/6/2022	4/11/2022	7/22/2021	10/7/2021	10/7/2021	1/6/2022	4/11/2022	8/5/2021	10/7/2021	2/7/2022	4/5/2022	8/6/2021	10/8/2021	2/7/2022	4/5/2022	7/30/2021	10/5/2021	
Parent Sample Code									OU2MW-5012													
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	
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	0.72 J	0.73 J	0.46 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.68 J	0.43 J		
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		
o-Xylene		95-47-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
m/p-Xylene		179601-23-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.84 J	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	0.72	0.73	0.46	ND	ND	0.84	ND	ND	ND	ND	ND	0.68	0.43		
PAH17	µg/L																					
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3.4 J	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	22	10 U	2.8 J	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	1.7 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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		
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		
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 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U		
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 UJ	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		
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 UJ	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		
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	9.2 J	10 U	1.2 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 UJ	2 U	2 U	2 U	2 UJ	2 UJ	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		
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	4.1	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U		
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
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		
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	40.4	ND	4	ND	ND	ND	ND	ND	ND		
Other																						
Sulfate	ug/L	14808-79-8	250,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

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

Operable Unit Area				Outside and/or Downgradient of the Barrier Wall															
Aquifer Zone				Deep															
Operable Unit				OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Sample Name				OZMW-16D	OZMW-16D	OZMW-17D	OZMW-17D	OZMW-17D	OZMW-17D	OZMW-17D	OZMW-17D	OZMW-18D	OZMW-18D	OZMW-18D	OZMW-19D	OU2MW-50D	OU2MW-50D	OU2MW-50D	OU2MW-50D
Start Depth				55	55	53	53	53	53	53	53	55	55	55	55	65	65	65	65
End Depth				65	65	63	63	63	63	63	63	65	65	65	60	70	70	70	70
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				1/3/2022	4/12/2022	8/2/2021	10/8/2021	11/3/2021	1/4/2022	4/21/2022	8/4/2021	10/13/2021	1/27/2022	4/21/2022	5/31/2022	7/22/2021	10/7/2021	1/6/2022	4/11/2022
Parent Sample Code																			
Analyte	Units	CAS no.	NYS AWQS																
BTEX	µg/L																		
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	NA	1 U	1 U	0.99 J	0.45 J	0.85 J	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	0.93 J	1 U	1 U	7.1	NA	12	1 U	21	8.4	32	6.8	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	8.5	29	NA	22	3.9	13	21	18	9.6	1 U	1 U	1 U	1 U	1 U
o-Xylene		95-47-6	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
m/p-Xylene		179601-23-1	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylene		1330-20-7	5	2 U	2 U	68	270	NA	170	30	66	170	85	39	2 U	2 U	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	0.93	ND	76.5	306.1	NA	204	33.9	100.99	199.85	135.85	55.4	ND	ND	ND	ND	ND
PAH17	µg/L																		
Acenaphthene		83-32-9	20*	10 U	10 U	6.9 J	12	NA	7.9 J	3.6 J	200 U	32	5.8 J	2.4 J	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	83	170	NA	66	15	85 J	160	54	21	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	2.2 J	2.7 J	NA	2.4 J	10 U	200 U	2.4 J	2.1 J	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	NA	1 U	1 U	20 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	NA	2 U	2 U	40 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	NA	1 U	1 U	20 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 UJ	10 U	10 U	NA	10 U	10 U	200 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	NA	1 U	1 U	20 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	NA	2 U	2 U	40 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	NA	1 U	1 U	20 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	NA	10 U	10 U	200 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	9.2 J	20	NA	12 *	3.9 J	200 U	8.9 J	1.5 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 UJ	2 U	2 U	NA	2 U	2 U	40 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	150	240	NA	100	5.1 J	41 J	130 J	10	1.3 J	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	810	1,700	NA	990	6.9	1,200	3,000	550	240	6.7	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	17	18	NA	17	3 J	200 U	18	12	1.7 J	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	NA	10 U	10 U	200 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	1,078.30	2,162.70	NA	1,195.30	37.5	1,326	3,351.30	635.4	266.4	6.7	ND	ND	ND	ND
Other																			
Sulfate	ug/L	14808-79-8	250,000	NA	NA	30,800	NA	42,100	NA	30,200	47,500	58,500	NA	35,300	NA	NA	NA	NA	NA

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)																							
		Sample Date																							
		1999	2002				2003			2004				2005				2006				2007			
		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	
BBMW-01S	5.0 - 15.0	270	219	--	3,440	2,000	2,500	2,661	3,510	1,988	1,576	2,520	1,930	1,085	1,080	1,090	273	59	1,361	2,329	949	3,640	7,420	5,590	
BBMW-01I	32.0 - 42.0	3	222	--	230	710	460	350	190	170	170	93	220	230	120	120	43	94	110	110	77	156	375	274	
BBMW-01D	68.5 - 78.5	214	542	--	--	--	1,294	1,193	293	265	304	94	191	585	112	32	24	216	462	109	32	555	386	9	
BBMW-23S	5.0 - 15.0	--	--	32,850	43,650	22,100	34,485	20,162	20,573	21,133	20,954	6,284	6,047	29,430	3,300	1,725	7,450	4,070	6,558	120	12,332	18,185	19,818	14,940	
BBMW-23I	33.0 - 43.0	--	--	0	--	0	0	0	0	0	0	0	--	0	0	--	0	0	0	0	0	0	19	10	
BBMW-23D	49.5 - 59.5	--	--	10	17	15	53	45	0	12	136	71	234	446	210	--	729	467	509	579	519	96	1,324	660	
BBMW-23D2	63.0 - 73.0	--	--	28	--	0	97	80	0	--	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)																			
		Sample Date																			
		2008				2009				2010				2011				2012			
		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-01S	5.0 - 15.0	4,210	3,022	1,251	797	284	43	29	187	23	38	4	11	2	2	1	0	0	0	0	--
BBMW-01I	32.0 - 42.0	262	64	57	36	47	66	29	19	76	11	0	3	1	0	0	0	0	0	0	--
BBMW-01D	68.5 - 78.5	43	81	75	21	33	47	115	105	213	83	72	58	32	11	94	20	26	2	124	0
BBMW-23S	5.0 - 15.0	26,389	22,830	18,758	9,986	11,860	6,483	11,108	7,779	9,643	11,441	6,213	4,890	4,327	4,104	654	3,771	3509	3718	2569	2,477
BBMW-23I	33.0 - 43.0	0	3	0	0	0	0	0	115	0	6	0	3	0	17	0	0	0	41	0	0
BBMW-23D	49.5 - 59.5	493	23	12	14	7	10	6	3	2	1	0	1	0	0	0	50	44	0	0	2
BBMW-23D2	63.0 - 73.0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--
OU2MW-17S	5.0 - 10.0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--
OU2MW-17I	13.0 - 23.0	--	90	0	0	80	164	17	0	6	245	4	0	0	2	19	3	10	0	0	1
OU2MW-17I2	35.0 - 45.0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--
OU2MW-17D	60.0 - 75.0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	1,739	2,190	126	6	0	2	4
OU2MW-18I2	35.0 - 45.0	--	0	0	0	0	0	0	336	418	490	575	410	200	315	568	298	96	66	21	24
OU2MW-18D	60.0 - 70.0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	85	59	4	0	0	0	0	0	0	0	0	--
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	--
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	--
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	--
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	--
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	2	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)																			
		Sample 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-01S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32.0 - 42.0	--	3	--	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	--
BBMW-01D	68.5 - 78.5	9	7	5	6	4	10	125	2	6	7	117	5	5	2	36	2	8	2	6	9
BBMW-23S	5.0 - 15.0	1,667	5,214	1,156	1,787	1,418	1,866	1,317	1,730	2,205	1,854	582	573	183	1,962	922	192	42	1,385	542	68
BBMW-23I	33.0 - 43.0	0	100	49	0	0	0	0	0	--	6	--	0	--	0	0	0	0	1	0	0
BBMW-23D	49.5 - 59.5	0	0	--	0	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	--
BBMW-23D2	63.0 - 73.0	--	0	--	0	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	--
OU2MW-17S	5.0 - 10.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	7	3	0	3	0	0	0	0	2	0	--	--	--	0	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60.0 - 75.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	19	27	3	7	0	0	5	0	0	0	--	--	--	--	--	--	--	--	--	0
OU2MW-18D	60.0 - 70.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	20.0 - 25.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60.0 - 65.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58S	5.0-15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	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)																		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sample Date												Same Date										
		2018				2019				2020			2021				2022							
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
BBMW-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	7,420	1,335	0	0		
BBMW-01I	32.0 - 42.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	710	95	0	0		
BBMW-01D	68.5 - 78.5	6	0.54	3	1	6	1	4	--	2	1	1	3	3	6	3	0	1	0	1,294	119	0	6	
BBMW-23S	5.0 - 15.0	21	270.51	41	110	51	3,208	945	896	463	544	574	1,705	236	853	1,007	787	45	21	43,650	7,492	45	1,007	
BBMW-23I	33.0 - 43.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	115	6	0	0	
BBMW-23D	49.5 - 59.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,324	151	0	0	
BBMW-23D2	63.0 - 73.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	97	6	0	0	
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	245	22	0	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	
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	28,040	4,074	0	0	
OU2MW-18I2	35.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	575	121	0	0	
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	9	0	0	0	
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	85	11	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	0	0	0	0	
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0	

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				2006				2007			
		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	
BBMW-01S	5.0 - 15.0	2,055	3,420	--	2,823	600	1,102	1,730	2,077	1,394	869	1,565	2,067	1,333	1,034	2,425	1,043	0	956	2,158	659	4,347	3,927	3,929	
BBMW-01I	32.0 - 42.0	66	9,720	--	10,616	5,600	6,398	8,514	7,772	7,709	4,679	9,754	9,659	7,734	10,674	8,276	3,679	6,746	7,141	10,165	5,812	7,721	8,946	8,071	
BBMW-01D	68.5 - 78.5	1,605	4,566	--	--	--	4,871	4,543	1,460	1,800	1,359	429	821	2,832	50	251	349	863	2,250	425	195	2,090	1,248	50	
BBMW-23S	5.0 - 15.0	--	--	2,397	2,681	1,400	2,319	2,383	1,288	1,733	2,220	599	921	1,830	994	890	1,410	959	759	2,521	1,741	2,519	1,785	2,703	
BBMW-23I	33.0 - 43.0	--	--	0	--	178	0	61	0	0	0	0	--	13	33	--	146	88	65	59	199	2,207	2,559	31	
BBMW-23D	49.5 - 59.5	--	--	741	802	910	1,203	1,562	468	400	1,081	931	1,493	1,665	2,161	--	2,459	2,391	2,994	2,353	2,591	6,619	5,835	5,620	
BBMW-23D2	63.0 - 73.0	--	--	36	--	0	120	0	0	--	0	--	0	--	--	--	0	--	--	--	0	0	1	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																			
		2008				2009				2010				2011				2012			
		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-01S	5.0 - 15.0	1,432	1,640	1,991	142	359	119	0	126	46	63	44	42	36	3	50	21	2	1	0	--
BBMW-01I	32.0 - 42.0	10,403	6,532	8,764	5,806	3,303	10,202	5,703	5,737	5,463	904	431	1,714	508	0	0	0	0	0	0	--
BBMW-01D	68.5 - 78.5	55	183	274	13	68	92	141	220	273	248	135	134	103	0	423	73	88	58	418	11
BBMW-23S	5.0 - 15.0	2,569	2,169	1,838	1,340	1,673	2,456	3,162	2,697	1,571	2,292	948	976	71	427	224	389	519	437	436	429
BBMW-23I	33.0 - 43.0	16	14	23	0	12	2	0	237	2	1	0	0	0	0	2	0	0	6	0	0
BBMW-23D	49.5 - 59.5	3,118	188	95	0	0	31	1	27	5	14	15	12	0	0	0	0	17	9	6	7
BBMW-23D2	63.0 - 73.0	2	50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	--
OU2MW-17S	5.0 - 10.0	--	0	2	0	0	0	0	0	0	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	0	4	0	2	2	3	2
OU2MW-17I2	35.0 - 45.0	--	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--
OU2MW-17D	60.0 - 75.0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	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	1,337	1,164	57	141	78	23	14
OU2MW-18I2	35.0 - 45.0	--	0	0	0	0	0	0	0	490	0	30	757	0	0	521	0	46	12	4	2
OU2MW-18D	60.0 - 70.0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	13	3	0	0	0	0
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	41	10	0	0	0	0	0	0	0	0	0	--
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	--
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	--
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	--
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	2	0	0	0	--
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	3	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																			
		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-01S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32.0 - 42.0	--	623	--	0	0	4	0	0	0	0	0	0	0	0	0	0	--	--	--	--
BBMW-01D	68.5 - 78.5	30	30	33	16	6	11	364	9	11	13	169	5	5	3	61	0	12.6	2	15	18
BBMW-23S	5.0 - 15.0	460	525	380	725	243	187	96	281	229	166	131	204	28	243	136	14	12.7	225	140	15
BBMW-23I	33.0 - 43.0	0	10	12	0	0	0	0	0	--	0	--	0	--	0	0	0	0	3	0	1
BBMW-23D	49.5 - 59.5	7	5	--	4	--	4	--	--	--	--	--	3	--	--	--	--	--	--	--	--
BBMW-23D2	63.0 - 73.0	--	0	--	0	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	--
OU2MW-17S	5.0 - 10.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	3	2	2	2	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	0	--	--	--	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60.0 - 75.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	7	7	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	0
OU2MW-18D	60.0 - 70.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	20.0 - 25.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60.0 - 65.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58S	5.0-15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	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)																		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date																						
		2018				2019				2020			2021				2022							
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
BBMW-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,347	1,108	0	0	
BBMW-01I	32.0 - 42.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	10,674	4,210	0	0	
BBMW-01D	68.5 - 78.5	18	1.3	10	3	9	3	8	--	6	0	2	1,575	3	3	2	0	1	0	4,871	521	0	3	
BBMW-23S	5.0 - 15.0	0	0	1	2	0	148	42	10	16	53	2	124	0	81	75	4	2	0	3,162	912	2	81	
BBMW-23I	33.0 - 43.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	2,559	105	0	0	
BBMW-23D	49.5 - 59.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6,619	1,063	0	0	
BBMW-23D2	63.0 - 73.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	120	6	0	0	
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0	
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	25	3	0	0	
OU2MW-17I2	35.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	17	1	0	0	
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	0	
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,201	2,003	0	0	
OU2MW-18I2	35.0 - 45.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	757	58	0	0	
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	13	1	0	0	
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	41	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	2	0	0	0	
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0	

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)																									
		Sample Date																									
		1992	1999			2002			2003			2004				2005				2006				2007			
		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	Mar	May-Jul	Aug-Oct	Oct-Dec	
BBMW-02S	5.0 - 15.0	--	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0		
BBMW-02I	30.0 - 40.0	--	--	7	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0		
BBMW-02D	73.0 - 83.0	--	--	21	--	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		
BBMW-15I	23.0 - 28.0	--	--	473	--	2	0	0	--	--	0	--	--	0	--	--	--	--	--	0	--	0	0	0	0		
BBMW-15I2	35.0 - 45.0	--	--	47	--	0	--	0	--	--	0	--	--	0	--	--	--	--	--	0	--	0	0	0	0		
BBMW-15D	70.0 - 80.0	--	--	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	--	--	--	--	14	0	0	0	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	116	115	277	9	
BBMW-24D	59.5 - 69.5	--	--	--	--	1,102	--	1,005	837	1,389	1,420	590	194	183	666	799	658	--	--	367	--	647	662	0	7	4	
GM-03S	6.78 - 21.78	41	15	70	4	36	--	32	--	--	229	--	--	128	40	--	103	133	19	126	177	69	116	0	0	0	
GM-03I	30.03 - 45.03	7	0	26	7	135	--	0	--	--	879	--	--	--	0	--	137	--	196	0	0	0	0	78	190	129	
GM-03D	53.18 - 68.18	175	375	0	0	0	--	0	--	--	0	--	0	--	0	--	0	--	--	--	--	--	0	0	0	0	
MW-16AS	3.0 - 13.0	--	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	
OU2MW-08S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,210	--	617	1,456	1,641	829	378	279	305	332		
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	181	--	527	196	355	201	167	521	481	196		
OU2MW-08I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	112	--	172	272	590	582	249	105	120	545		
OU2MW-08D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

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

[illegible]

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)																			
		Sample Date																			
		2008				2009				2010				2011				2012			
		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	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	--
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	--
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	--
BBMW-15I	23.0 - 28.0	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	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	--
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	--
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	--
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	--
BBMW-24S	4.0 - 14.0	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	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	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	0	0	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-03I	30.03 - 45.03	245	161	257	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-03D	53.18 - 68.18	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--
OU2MW-08S	20.0 - 25.0	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	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	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	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	0	--
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	0	0	0	0	1	0	0	0	0	0	0	0	--
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	24	11	12	0	6	2	0	0	0	0	0	0	--
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	18	24	0	0	3	24	7	27	1	0	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

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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 BTEX Groundwater Concentrations (µg/L)																			
		Sample Date																			
		2008				2009				2010				2011				2012			
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
OU2MW-30I3	45.0 - 50.0	--	--	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
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	6	0	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	--
OU2MW-35I	25.0 - 30.0	--	--	--	--	678	9	12	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	--
OU2MW-35D	57.0 - 62.0	--	--	--	--	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	--
OU2MW-36I	25.0 - 30.0	--	--	--	--	288	55	42	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	--
OU2MW-36D	61.0 - 66.0	--	--	--	--	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	2	0	--
OU2MW-37I	25.0 - 30.0	--	--	--	--	87	373	411	2,623	3	267	11	338	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	2	0	--
OU2MW-37D	67.0 - 72.0	--	--	--	--	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	--
OU2MW-38I	25.0 - 30.0	--	--	--	--	4,001	122	204	240	29	1	0	6	1	0	0	0	0	0	0	--
OU2MW-38I2	46.0 - 51.0	--	--	--	--	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	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	1	0	0	0
OU2MW-39I	25.0 - 30.0	--	--	--	--	0	0	5	0	4	18	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	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	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
OU2MW-40I	18.0 - 23.0	--	--	--	--	192	61	270	168	0	0	0	0	0	0	0	0	0	0	0	--
OU2MW-41S	5.0 - 15.0	--	--	--	--	0	92	8	0	0	4	0	0	0	0	0	0	0	0	0	--
OU2MW-41I	18.0 - 23.0	--	--	--	--	1,500	1,625	1,433	585	526	358	5	2	4	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	--
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	4	86	18	13	33	0	0	0	0	0	0	0	0	--
OU2MW-42I2	45.0 - 50.0	--	--	--	--	--	--	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	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	--
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	205	0	2	5	0	0	0	0	0	0	0	--
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	81	5	13	12	32	50	1	7	6	2	4	11
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	--	--	58	14	4	2	17	1	77	124	6	66	47	321
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	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	--
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	--	--	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	--
OU2MW-45S	5.0 - 15.0	--	--	--	--	108	60	15	27	67	1	0	0	6	1	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	--
OU2MW-45I2	40.0 - 45.0	--	--	--	--	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	--
OU2MW-46S	5.0 - 15.0	--	--	--	--	421	422	21	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	--
OU2MW-46I2	40.0 - 45.0	--	--	--	--	2	375	185	0	0	0	5	2	0	0	0	0	0	0	0	--
OU2MW-47S	5.0 - 15.0	--	--	--	--	148	146	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	1	0
OU2MW-47I2	40.0 - 45.0	--	--	--	--	297	159	7	173	3	2	57	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	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)																			
		Sample 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

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)																			
		Sample 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-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
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/34IIR	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	--	--	--	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	0	2	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)																		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sample Date																						
		2018				2019				2020			2021				2022							
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
BBMW-02S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	11	1	0	0		
BBMW-02I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	7	0	0	0		
BBMW-02D	73.0 - 83.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	21	1	0	0		
BBMW-15S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
BBMW-15I	23.0 - 28.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	473	19	0	0		
BBMW-15I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	149	6	0	0		
BBMW-15D	70.0 - 80.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
BBMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
BBMW-16I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
BBMW-16D	68.0 - 78.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
BBMW-24S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	117	3	0	0		
BBMW-24I	32.0 - 42.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,408	289	0	0		
BBMW-24D	59.5 - 69.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,420	272	0	0		
GM-03S	6.78 - 21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	229	62	0	0		
GM-03I	30.03 - 45.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	879	122	0	0		
GM-03D	53.18 - 68.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	375	32	0	0		
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	0	0	0	0	0		
OU2MW-08S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	0	2,210	484	0	0		
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	0	527	126	0	0		
OU2MW-08I2	50.0 - 55.0	--	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	0	590	123	0	0		
OU2MW-08D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	0	16	1	0	0		
OU2MW-19I	13.0 - 23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4,617	174	0	1		
OU2MW-19I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	133	17	0	0		
OU2MW-19D	65.0 - 70.0	2	0.78	0	0	0	0	5	0	5	3	2	3	11	16	13	6	3	0	1,818	162	3	16	
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0		
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	819	123	0	0		
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	87	4	0	0		
OU2MW-20D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
OU2MW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	870	53	0	0		
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,930	443	0	0		
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	479	65	0	0		
OU2MW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
OU2MW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	298	37	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,108	751	0	0		
OU2MW-23I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	399	45	0	0		
OU2MW-23D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
OU2MW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	23	1	0	0		
OU2MW-24I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,862	293	0	0		
OU2MW-24I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	0	467	54	0	0		
OU2MW-24D	62.0 - 67.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
OU2MW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
OU2MW-25I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	0	732	53	0	0		
OU2MW-25I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
OU2MW-25D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	287	41	0	0		
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,559	123	0	0		
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	980	218	0	0		
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	2	0	0	0		
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	1	0	0	0		
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	24	4	0	0		
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	27	6	0	0		
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	0	--	--	0	0	0	0	0	0	0	0	0		
OU2MW-28I	28.0 - 33.0	--	0	--	--	--	0	--	--	--	0	--	--	0	0	0	0	0	400	33	0	0		
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	0	--	--	0	0	0	0	0	286	39	0	0		
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	0	--	--	0	0	0	0	0	1,715	186	0	0		
OU2MW-29I2	30.0 - 35.0	--	0	--	--	--	0	--	--	--	0	--	--	0	0	0	0	0	1,316	70	0	0		
OU2MW-29D	45.0 - 50.0	--	0	--	--	--	--	--	--	--	0	--	--	0	0	0	0	0	405	87	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	251	6	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	729	34	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	533	30	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)																		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sample Date																						
		2018				2019				2020			2021				2022							
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
OU2MW-30I3	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	254	20	0	0	
OU2MW-30D	50.0 - 55.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	301	36	0	0	
OU2MW-30D2	60.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	422	65	0	0	
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	856	131	0	0	
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	413	27	0	0	
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,013	1,016	0	0	
OU2MW-32I2	30.0 - 35.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	1,493	73	0	0	
OU2MW-32D	40.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	446	91	0	0	
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
OU2MW-33I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3,159	198	0	0	
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	154	14	0	0	
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	42	4	0	0	
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	336	0	0	
OU2MW-34I2/34I2R	45.0 - 50.0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	134	14	0	0	
OU2MW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	17	2	0	0	
OU2MW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	678	39	0	0	
OU2MW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
OU2MW-35D	57.0 - 62.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	30	2	0	0	
OU2MW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
OU2MW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	288	21	0	0	
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	0	
OU2MW-37I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,623	229	0	0	
OU2MW-37I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	0	
OU2MW-37D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
OU2MW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	23	1	0	0	
OU2MW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,001	256	0	0	
OU2MW-38I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	919	120	0	0	
OU2MW-38D	56.0 - 61.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	80	5	0	0	
OU2MW-39S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	
OU2MW-39I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	1	0	0	
OU2MW-39I2	45.0 - 50.0	0	0.15	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	502	50	0	0	
OU2MW-39D	70.0 - 75.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	2	0	0	3	
OU2MW-40S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	270	38	0	0	
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	92	5	0	0	
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	1,625	210	0	0	
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	22	2	0	0	
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	86	10	0	0	
OU2MW-42I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	15	1	0	0	
OU2MW-42D	60.0 - 65.0	919	918.53	559	357	557	323	281	321	158	311	392	153	154	87	62	77	45	0	2,290	622	45	87	
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	963	77	0	0	
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	205	15	0	0	
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	84	15	0	0	
OU2MW-43D	65.0 - 70.0	39	59	69	72	31	44	58	10	12	31	31	27	29	45	14	16	19	1	909	199	14	45	
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	0	
OU2MW-45I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	600	30	0	0	
OU2MW-45I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0	
OU2MW-45D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
OU2MW-46S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	422	48	0	0	
OU2MW-46I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,991	218	0	0	
OU2MW-46I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0					

Notes for groundwater

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

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																					
		Sampling Date																					
		1992	1999			2002			2003			2004				2005				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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

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

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

Table 4-7. 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	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	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

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
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
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				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	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	--	10	--	
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	0	0	0	
OU2MW-19I2	35.0 - 45.0	0	8	0	5	0	16	44	0	0	0	0	0	0	0	2	0	0	0	0	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	104	0	5	
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	--	--	--	0	
OU2MW-24D	62.0 - 67.0	0	3	0	--	--	20	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	--	--	--	--	0	
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	--	--	--	--	--	--	--	--	--	--	--	--	0	
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	--	--	--	--	--	--	--	--	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	--	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	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						

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				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	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
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	0	0	0	
OU2MW-30D	50.0 - 55.0	3	2	5	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	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	3	1	1	1	
OU2MW-31I	18.0 - 23.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-31I2	30.0 - 35.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-32S	5.0 - 15.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-32I	20.0 - 25.0	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	--	--	--	--	--	--	--	0	
OU2MW-34I2/34I2R	45.0 - 50.0	14	2	16	16	0	21	24	121	14	0	0	11	0	--	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	0	0	2	
OU2MW-39I	25.0 - 30.0	1	4	0	0	0	0	1	1	0	0	0	0	0	0	4	1	0	0	0	0	0	0	6	
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	32	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	0	2	3	
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	0	
OU2MW-40I	18.0 - 23.0	10	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-41S	5.0 - 15.0	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	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	5,230	2,370	4,487	
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	597	332	526	
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							

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)																		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date																						
		2018				2019				2020			2021				2022							
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
BBMW-02S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
BBMW-02I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
BBMW-02D	73.0 - 83.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
BBMW-15S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
BBMW-15I	23.0 - 28.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	48	2	0	0		
BBMW-15I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	77	3	0	0		
BBMW-15D	70.0 - 80.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
BBMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
BBMW-16I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
BBMW-16D	68.0 - 78.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	23	1	0	0		
BBMW-24S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	908	29	0	0		
BBMW-24I	32.0 - 42.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	11,246	2,275	0	0		
BBMW-24D	59.5 - 69.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8,110	1,397	0	0		
GM-03S	6.78 - 21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	510	101	0	0		
GM-03I	30.03 - 45.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,330	229	0	0		
GM-03D	53.18 - 68.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,238	117	0	0		
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	0	62	4	0	0		
OU2MW-08S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	0	13,563	3,652	0	0		
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	0	12,258	1,838	0	0		
OU2MW-08I2	50.0 - 55.0	--	1.7	--	--	--	--	--	--	--	0	--	--	--	--	--	--	0	3,501	983	0	0		
OU2MW-08D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	0	3,892	130	0	0		
OU2MW-19I	13.0 - 23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,459	65	0	0		
OU2MW-19I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7,648	848	0	0		
OU2MW-19D	65.0 - 70.0	18	448.6	6	0	2	0	8.2	0	31	36	2	31	13	61	5	5	0	3,718	662	0	61		
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	101	12	0	0		
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	0	0	0		
OU2MW-20D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
OU2MW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	424	44	0	0		
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,417	599	0	0		
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3,985	816	0	0		
OU2MW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0		
OU2MW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	181	16	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,009	129	0	0		
OU2MW-23I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	434	44	0	0		
OU2MW-23D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	0		
OU2MW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	258	15	0	0		
OU2MW-24I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6,015	748	0	0		
OU2MW-24I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	0	3,130	316	0	0		
OU2MW-24D	62.0 - 67.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	20	1	0	0		
OU2MW-25S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
OU2MW-25I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	0	149	23	0	0		
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	5	0	0	0		
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	277	38	0	0		
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3,990	383	0	0		
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,814	1,206	0	0		
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0		
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	10	1	0	0	
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	18	2	0	0	
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	1,150	86	0	0	
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0	0	0	0	4	0	0	0	
OU2MW-28I	28.0 - 33.0	--	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	283	25	0	0	
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0	0	0	0	4,443	443	0	0	
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0	0	0	0	1,083	130	0	0	
OU2MW-29I2	30.0 - 35.0	--	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	6,159	636	0	0	
OU2MW-29D	45.0 - 50.0	--	0	--	--	--	--	--	--	--	1	--	--	--	0	0	0	0	0	2,937	784	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	1,990	39	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	7,304	398	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	6,605	457	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)																		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date																						
		2018				2019				2020			2021				2022							
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
OU2MW-30I3	45.0 - 50.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,586	326	0	0	
OU2MW-30D	50.0 - 55.0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5,989	277	0	0	
OU2MW-30D2	60.0 - 65.0	1	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,735	442	0	0	
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	488	48	0	0	
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	841	47	0	0	
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	63	3	0	0	
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	7,796	1,509	0	0	
OU2MW-32I2	30.0 - 35.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	5,230	341	0	0	
OU2MW-32D	40.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,578	336	0	0	
OU2MW-33S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
OU2MW-33I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	565	55	0	0	
OU2MW-33I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	679	48	0	0	
OU2MW-33D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	16	2	0	0	
OU2MW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
OU2MW-34I/34IR	25.0 - 30.0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	333	60	0	0	
OU2MW-34I2/34I2R	45.0 - 50.0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	121	8	0	0	
OU2MW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0	
OU2MW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,270	140	0	0	
OU2MW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
OU2MW-35D	57.0 - 62.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	16	2	0	0	
OU2MW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0	
OU2MW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,302	122	0	0	
OU2MW-36I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0	
OU2MW-36D	61.0 - 66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0	
OU2MW-37S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	0	
OU2MW-37I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	216	22	0	0	
OU2MW-37I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	0	
OU2MW-37D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
OU2MW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0	
OU2MW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,992	304	0	0	
OU2MW-38I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,312	92	0	0	
OU2MW-38D	56.0 - 61.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	60	4	0	0	
OU2MW-39S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	1	0	0	
OU2MW-39I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	1	0	0	
OU2MW-39I2	45.0 - 50.0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3,780	320	0	0	
OU2MW-39D	70.0 - 75.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	
OU2MW-40S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	0	0	0	0	0	0	1,490	46	0	0	
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	167	31	0	0	
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	143	8	0	0	
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	4,276	480	0	0	
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	107	8	0	0	
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	106	8	0	0	
OU2MW-42I2	45.0 - 50.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	742	37	0	0	
OU2MW-42D	60.0 - 65.0	4,269	4736	3,034	1,753	2,037	692	642	498	646	948	2,031	880	482	90	13	172	121	4	5,230	1,763	13	172	
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	219	18	0	0	
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	197	15	0	0	
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,130	429	0	0	
OU2MW-43D	65.0 - 70.0	155	0	405	551	173	335	69.97	13	69	297	429	340	311	166	0	25	68	0	4,928	927	0	166	
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	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	45	2	0	0	
OU2MW-45I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	200	12	0	0	
OU2MW-45I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	39	2	0	0	
OU2MW-45D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	13	1	0	0	
OU2MW-46S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	31	2	0	0	
OU2MW-46I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,503	260	0	0	
OU2MW-46I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	56	3	0	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	56	1	0	0	
OU2MW-47I	20.0 - 25.0	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	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	
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

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
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

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
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	32	0	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	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	--	--	--	--	--	--

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
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)																									Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date																													
		2017				2018				2019				2020			2021				2022										
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun									
BBMW-03S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	0	393	11	0	0				
BBMW-03I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	0	2	0	0	0				
BBMW-03D	52.0 - 62.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	0	3	0	0	0				
BBMW-07S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	241	15	0	0				
BBMW-07I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0				
BBMW-07D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	25	1	0	0				
BBMW-25S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	58	1	0	0				
BBMW-25I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,995	416	0	0				
BBMW-25D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	110	19	0	0				
GM-05S	5.1 - 20.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	422	60	0	0				
GM-05I	35.05 - 48.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	13	0	0	0				
GM-05D	60.95 - 75.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	0				
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	0				
GMP-02	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,275	344	0	0				
GMP-04	15.5 - 20.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,483	157	0	0				
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	0				
OU2MW-01I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	885	128	0	0				
OU2MW-01I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	195	20	0	0				
OU2MW-01D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	72	2	0	0				
OU2MW-02S	20.0 - 25.0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0	80	82	0	0	0	0	573	34	0	82				
OU2MW-02I	35.0 - 40.0	0	0	0	0	0	1.5	0	0	0	0	26	69	20	0	0	0	40	78	88	6	0	0	645	130	0	88				
OU2MW-02I2	50.0 - 55.0	1.5	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	0	11	1	0	35				
OU2MW-02D	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	4	0	0	0				
OU2MW-03S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,108	103	0	0				
OU2MW-03I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,262	77	0	0				
OU2MW-03I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	38	3	0	0				
OU2MW-03D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0				
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	0	10	0	0	0				
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	0	3,130	403	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)																								Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date																												
		2017				2018				2019				2020			2021				2022									
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun								
OU2MW-04I	35.0 - 40.0	0	0	--	--	--	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	--	0	885	83	0	0			
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	0	189	11	0	0			
OU2MW-04D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	0	3	0	0	0			
OU2MW-05	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3,159	280	0	0			
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	--	--	0	0	--	--	0	0	0	0	0	0			
OU2MW-06	15.0 - 25.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	--	--	0	0	--	--	0	0	1,085	32	0	0			
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0			
OU2MW-07	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	59	8	0	0			
OU2MW-09	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	0	1	0	0	0			
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0			
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	906	93	0	0			
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	351	39	0	0			
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	--	--	0	0	--	--	--	0	3	0	0	0			
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	--	--	0	0	--	--	--	0	356	82	0	0			
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	--	--	0	0	--	--	--	0	329	34	0	0			
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	--	--	0	0	--	--	--	0	92	12	0	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	2	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	0	0	466	30	0	0			
OU2MW-12I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	5	0	0			
OU2MW-12D	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80	8	0	0			
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0			
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	29	5	0	0			
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	34	8	0	0			
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0			
OU2MW-14I	20.0 - 25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	261	19	0	0			
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0			
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0			
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	795	54	0	0			
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	599	48	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	79	5	0	0			
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	84	7	0	0			
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	149	7	0	0			
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0			
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	128	6	0	0			
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	0			

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

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

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																						
		Sampling Date																						
		1992	1999			2000	2002			2003			2004				2005				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	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	
BBMW-03S	3.0 - 13.0	--	--	0	--	0	0	--	--	--	--	--	0	0	--	--	0	--	0	0	0	0		
BBMW-03I	30.0 - 40.0	--	--	0	--	2	0	--	--	--	--	--	0	0	--	--	0	--	0	0	0	0		
BBMW-03D	52.0 - 62.0	--	--	0	--	0	0	--	--	--	--	--	--	186	--	--	0	--	0	0	0	0		
BBMW-07S	5.0 - 15.0	--	--	2	--	--	6	0	710	170	62	24	0	0	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	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	1,560	0			
BBMW-25D	62.0 - 72.0	--	--	--	--	--	1,553	--	280	1,550	298	135	144	101	588	223	--	390	--	308	179			
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	34	0			
GM-05I	35.05 - 48.05	0	4	14	0	0	0	0	0	--	--	--	--	51	0	--	--	--	--	0	--			
GM-05D	60.95 - 75.95	0	0	0	0	0	0	--	--	--	--	--	--	28	--	--	--	--	--	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	--	--	--	1,590	2,270	1,336	230	880	270	1,001	421	1,281	266	6,514	2,595	1,241	6,419	10,183	9,385	9,261			
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	0				
GMP-04	15.5 - 20.5	--	--	--	290	1,135	287	113	0	430	44	459	206	235	1,372	601	77	369	1,720	41				
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
OU2MW-01S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6,927	--	464	457	1,230			
OU2MW-01I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,507	--	8,222	3,717	879			
OU2MW-01I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	58	--	1,249	0	100			
OU2MW-01D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0			
OU2MW-02S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	162	--	311	209	164			
OU2MW-02I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,541	--	3,413	3,609	5,251			
OU2MW-02I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22	--	11	0	0			
OU2MW-02D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15	--	0	0	0			
OU2MW-03S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	401	--	339	353	181			
OU2MW-03I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	67	--	0	0	49			
OU2MW-03I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	36	16	0			
OU2MW-03D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0			
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,034	--	12,611	7,351	10,538			
OU2MW-04I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,444	--	6,438	3,795	1,107			
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	375	--	115	101	57			
OU2MW-04D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0			
OU2MW-05	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,711	--	8,049	5,125	4,314			
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
OU2MW-06	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9,241	--	19	0	0			
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
OU2MW-07	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	66	--	69	0	0			
OU2MW-09	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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	--	--	--	--	--	--	--	--	--	--	--	--											

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																							
		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-03S	3.0 - 13.0	283	0	0	0	0	0	1	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	0	0	--	
BBMW-03D	52.0 - 62.0	0	0	0	0	7	0	0	0	0	0	0	0	0	25	2	0	0	0	0	0	0	0	--	
BBMW-07S	5.0 - 15.0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	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	1	0	--	
BBMW-07D	55.0 - 65.0	873	0	--	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	--	
BBMW-25S	4.0 - 14.0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	--	
BBMW-25I	25.0 - 35.0	11	102	457	2	181	48	86	478	741	1,219	105	11	3	0	0	0	0	0	0	0	0	0	--	
BBMW-25D	62.0 - 72.0	0	0	3	1	0	0	59	0	0	0	0	0	0	8	0	0	0	0	7	54	20	31	10	
GM-05S	5.1 - 20.1	0	--	0	13	25	30	7	35	5	19	9	19	2	0	25	1	0	0	0	0	0	0	0	
GM-05I	35.05 - 48.05	0	0	7	0	0	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	0	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	4,019	--	159	4,428	3,967	2,020	778	275	719	1,049	651	175	1,916	1,228	921	276	720	65	70	15	16	5	12	3
GMP-02	18.0 - 23.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	
GMP-04	15.5 - 20.5	1,380	52	1,523	1,467	1	0	0	0	0	0	0	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	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	0	2	0	0	0	0	--	
OU2MW-01S	20.0 - 25.0	321	67	2,023	2,000	48	0	0	0	0	1,487	1,953	0	0	0	0	0	0	0	0	0	3	0	--	
OU2MW-01I	35.0 - 40.0	120	442	90	2,222	15	0	25	4	0	702	109	0	0	0	0	0	0	0	0	10	0	0	--	
OU2MW-01I2	50.0 - 55.0	0	488	7	4	0	0	0	0	0	0	0	0	0	364	0	0	0	0	0	0	2	2	--	
OU2MW-01D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135	0	0	0	1	0	0	0	--	
OU2MW-02S	20.0 - 25.0	0	154	155	27	57	96	46	8	33	146	44	0	0	6	0	0	0	1	0	0	48	57	0	
OU2MW-02I	35.0 - 40.0	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	733	76	1,764	1,097	1,161	698	926	561
OU2MW-02I2	50.0 - 55.0	0	16	0	11	30	1	12	0	6	0	0	0	0	0	0	0	0	0	0	8	2	3	3	
OU2MW-02D	65.0 - 70.0	0	0	17	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	15	0	0	0	0	
OU2MW-03S	20.0 - 25.0	0	317	201	49	87	61	79	85	80	157	118	142	71	20	16	1	3	5	0	3	0	1	0	--
OU2MW-03I	35.0 - 40.0	0	0	0	0	0	7	0	95	146	0	0	6	56	61	0	0	0	0	0	0	3	0	--	
OU2MW-03I2	50.0 - 55.0	0	144	4	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	--	
OU2MW-03D	65.0 - 70.0	0	0	0	6	3	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	
OU2MW-04S	20.0 - 25.0	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	40	51	17	22	34	10	8	2
OU2MW-04I	35.0 - 40.0	0	332	3,260	547	4,051	0	36	0	98	2	0	10	241	0	0	252	32	1,789	0	2,047	2,666	1,294	506	152
OU2MW-04I2	50.0 - 55.0	0	19	16	2	0	23	0	0	0	1,340	0	4	536	14	0	0	0	0	0	6	0	0	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	3	0	0	0	--	
OU2MW-05	25.0 - 35.0	1,980	2,164	247	3,412	491	516	50	456	353	376	735	19	288	484	335	957	86	33	75	92	30	34	7	2
OU2MW-06S	3.0 - 8.0	--	0	10	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	
OU2MW-06	15.0 - 25.0	0	0	0	3	6	0	0	0	0	0	0	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	0	0	0	0	0	0	--	
OU2MW-07	15.0 - 25.0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68	3	0	0	
OU2MW-09	30.0 - 40.0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	1	0	--	
OU2MW-10S	3.0 - 7.0	--	0	0	0	0	5	0	0	0	0	0	0	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	76	167	57	21	0	12	0	0
OU2MW-10D	35.0 - 40.0	--	0	0	0	0	413	32	727	0	1	49	5	0	0	23	22	0	0	0	0	0	0	--	
OU2MW-11S	3.0 - 8.0	--	0	0	0	2	0	0	4	0	0	0	0	0	0	0	--	0	0	0	0	1	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	38	16	19	0	0	1	0	0
OU2MW-11I2	30.0 - 35.0	--	426	2,412	52	0	0	275	264	1,011	131	9	193	6	0	1	27	11	2	55	126	89	18	83	0
OU2MW-11D	40.0 - 45.0	--	8																						

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																							
		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
BBMW-03S	3.0 - 13.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
BBMW-03I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
BBMW-03D	52.0 - 62.0	--	0	--	--	--	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
BBMW-07S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
BBMW-07I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
BBMW-07D	55.0 - 65.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
BBMW-25S	4.0 - 14.0	--	0	--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
BBMW-25I	25.0 - 35.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
BBMW-25D	62.0 - 72.0	19	1	3	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	
GM-05S	5.1 - 20.1	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
GM-05I	35.05 - 48.05	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
GM-05D	60.95 - 75.95	--	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	2	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	
GMP-02	18.0 - 23.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
GMP-04	15.5 - 20.5	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2IW-01S	3.0 - 8.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-01WT	3.0 - 8.0	--	0	--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-01S	20.0 - 25.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-01I	35.0 - 40.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-01I2	50.0 - 55.0	--	11	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-01D	65.0 - 70.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-02S	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2.2	0	0	
OU2MW-02I	35.0 - 40.0	119	38	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OU2MW-02I2	50.0 - 55.0	2	0	23	32	17	8	15	9	4	3	5	6	6	6	7	10.8	18	17	24	9	11	5.7	3	3
OU2MW-02D	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-03S	20.0 - 25.0	--	0	--	--	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-03I	35.0 - 40.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-03I2	50.0 - 55.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-03D	65.0 - 70.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-04WT	3.0 - 8.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-04S	20.0 - 25.0	1	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-04I	35.0 - 40.0	96	102	53	49	13	7	20	16	10	7	9	16	21	15	11	0	0	0	--	--	0	--	--	
OU2MW-04I2	50.0 - 55.0	3	0	3	--	--	2	--	--	--	4	--	--	--	6	--	--	--	--	--	--	--	--	--	
OU2MW-04D	65.0 - 70.0	--	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-05	25.0 - 35.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-06S	3.0 - 8.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-06	15.0 - 25.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-07S	3.0 - 8.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-07	15.0 - 25.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-09	30.0 - 40.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-10S	3.0 - 7.0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	
OU2MW-10I	20.0 - 25.0	10	10	2	2	1	0	--	--	--	7	--	--	--	17	--	--	--	--	--	--	--	--	--	
OU2MW-10D	35.0 - 40.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-11S	3.0 - 8.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-11I	20.0 - 25.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-11I2	30.0 - 35.0	0	0	0	49	--	1	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-11D	40.0 - 45.0	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	1	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	0	0	1	
OU2MW-12I2	30.0 - 35.0	7	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OU2MW-12D	40.0 - 45.0	6	14	2	0	2	0	12	23	17	30	5	1	5	3	0	0	0	0	2	0	0	0	1	
OU2MW-13S	3.0 - 8.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-13I	20.0 - 25.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-13D	35.0 - 40.0	7	0	0	2	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-14S	3.0 - 8.0	--	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)														Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date																		
		2019				2020			2021				2022							
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
BBMW-03S	3.0 - 13.0	--	--	--	--	--	0	--	--	--	--	--	--	0	283	8	0	0		
BBMW-03I	30.0 - 40.0	--	--	--	--	--	0	--	--	--	--	--	--	0	2	0	0	0		
BBMW-03D	52.0 - 62.0	--	--	--	--	--	0	--	--	--	--	--	--	0	186	7	0	0		
BBMW-07S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	0	710	24	0	0		
BBMW-07I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0		
BBMW-07D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	0	873	34	0	0		
BBMW-25S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--	0	22	1	0	0		
BBMW-25I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	0	10,185	1,779	0	0		
BBMW-25D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	0	--	--	0	1,553	145	0	0		
GM-05S	5.1 - 20.1	--	--	--	--	--	--	--	--	--	--	--	--	0	2,453	190	0	0		
GM-05I	35.05 - 48.05	--	--	--	--	--	--	--	--	--	--	--	--	0	51	2	0	0		
GM-05D	60.95 - 75.95	--	--	--	--	--	--	--	--	--	--	--	--	0	28	1	0	0		
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	0		
GMP-02	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	0	8,837	1,555	0	0		
GMP-04	15.5 - 20.5	--	--	--	--	--	--	--	--	--	--	--	--	0	1,720	287	0	0		
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	0	48	2	0	0		
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	0	70	3	0	0		
OU2MW-01S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	0	6,927	569	0	0		
OU2MW-01I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	0	8,222	752	0	0		
OU2MW-01I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	0	1,249	76	0	0		
OU2MW-01D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	0	135	5	0	0		
OU2MW-02S	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	424	35	0	0		
OU2MW-02I	35.0 - 40.0	1	0	0	0	1	0	0	0	1	0	0	0	0	5,251	891	0	0		
OU2MW-02I2	50.0 - 55.0	2	0	0	0	0	0	0	0	0	0	0	0	0	32	6	0	0		
OU2MW-02D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	1	0	0		
OU2MW-03S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	0	401	102	0	0		
OU2MW-03I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	0	146	16	0	0		
OU2MW-03I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	0	144	7	0	0		
OU2MW-03D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	0	6	0	0	0		
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	0	--	--	--	--	--	--	0	0	0	0	0		
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	0	--	--	--	--	--	--	0	12,611	2,488	0	0		
OU2MW-04I	35.0 - 40.0	--	--	--	--	--	0	--	--	--	--	--	--	0	6,438	705	0	0		
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	0	--	--	--	--	--	--	0	1,340	75	0	0		
OU2MW-04D	65.0 - 70.0	--	--	--	--	--	0	--	--	--	--	--	--	0	3	0	0	0		
OU2MW-05	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	0	8,049	1,164	0	0		
OU2MW-06S	3.0 - 8.0	--	0	0	0	0	0	--	0	0	--	--	0	0	10	1	0	0		
OU2MW-06	15.0 - 25.0	--	0	0	0	0	0	--	0	0	--	--	0	0	9,241	257	0	0		
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	0	7	0	0	0		
OU2MW-07	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	0	69	8	0	0		
OU2MW-09	30.0 - 40.0	--	--	--	--	--	0	--	--	--	--	--	--	0	11	0	0	0		
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	0	5	0	0	0		
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	0	597	58	0	0		
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	0	727	53	0	0		
OU2MW-11S	3.0 - 8.0	--	0	0	0	0	0	--	0	0	--	--	--	0	4	0	0	0		
OU2MW-11I	20.0 - 25.0	--	0	0	0	0	0	--	0	0	--	--	--	0	3,627	429	0	0		
OU2MW-11I2	30.0 - 35.0	--	0	0	0	0	0	--	0	0	--	--	--	0	2,412	150	0	0		
OU2MW-11D	40.0 - 45.0	--	1	0	0	0	0	--	0	0	--	--	--	0	1,018	65	0	0		
OU2MW-12S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0		
OU2MW-12I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,646	90	0	0		
OU2MW-12I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	720	22	0	0		
OU2MW-12D	40.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0	0	992	35	0	0		
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	0	41	9	0	0		
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	0	78	15	0	0		
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
OU2MW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	0	37	4	0	0		
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0		
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	0	261	26	0	0		
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	0	320	20	0	0		
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	0	22	2	0	0		
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	0	26	2	0	0		
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	0	102	6	0	0		
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0		
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	0	101	6	0	0		
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
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Aquifer Zone				Shallow																			
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-23S	BBMW-23S	BBMW-23S	BBMW-23S	OU2MW-06S	DUP-01	OU2MW-11S	OU2MW-12S	OU2MW-12S	OU2MW-12S	OU2MW-12S	OU2MW-27S	DUP-08	OU2MW-27S	OU2MW-27S	OU2MW-27S	OU2MW-28S	OU2MW-28S	OU2MW-28S	OU2MW-28S
Start Depth				5	5	5	5	3	3	3	3	3	3	3	5	5	5	5	5	5	5	5	5
End Depth				15	15	15	15	8	8	8	7	7	7	7	15	15	15	15	15	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
Sample Date				7/27/2021	12/6/2021	2/9/2022	6/14/2022	7/8/2021	7/8/2021	7/12/2021	7/8/2021	10/13/2021	1/6/2022	4/5/2022	9/29/2021	9/29/2021	12/21/2021	2/14/2022	6/1/2022	9/15/2021	12/20/2021	2/21/2022	2/21/2022
Parent Sample Code								OU2MW-06S								OU2MW-27S						OU2MW-28S	
Analyte	Units	CAS no.	NYS AWQS																				
BTEX	µg/L																						
Benzene		71-43-2	1	0.85 J	2.4	2.3	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
Toluene		108-88-3	5	2.2	4.5	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
Ethylbenzene		100-41-4	5	490	540	460	26	1 U	1 U	1 U	1 U	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	360	460	320	19	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	1 U	2 U	1 U	2 U	2 U	2 U	2 U
Total BTEX		TBTEX_ND0	NE	853.05	1,006.90	786.8	45	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 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	1.9 J	3.1 J	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	10 U
Naphthalene		91-20-3	10*	79 J	72	4.4	1.6 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
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)		TPAH17_ND0	NE	80.9	75.1	4.4	1.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other																							
Sulfate	ug/L	14808-79-8	250,000								9,730	11,500	9,800	5,890 J									

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

Aquifer Zone				Shallow														Shallow					
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-30S	OU2MW-30S	OU2MW-30S	OU2MW-30S	OU2MW-30S	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-40S	OU2MW-40S	OU2MW-40S	OU2MW-40S	OU2MW-41S	OU2MW-41S	OU2MW-41S	OU2MW-41S	OU2MW-47S	OU2MW-47S	OU2MW-47S
Start Depth				5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
End Depth				15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	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
Sample Date				7/28/2021	9/28/2021	12/27/2021	1/17/2022	4/19/2022	8/10/2021	11/2/2021	1/10/2022	6/3/2022	9/27/2021	12/28/2021	3/2/2022	4/18/2022	9/16/2021	12/30/2021	2/22/2022	4/20/2022	8/16/2021	12/7/2021	1/18/2022
Parent Sample Code																							
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		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*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
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)		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	ug/L	14808-79-8	250,000																				

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

Aquifer Zone				Intermediate												Interm									
Operable Unit				OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2		
Sample Name				DUP-01	OU2MW-02S	OU2MW-02S	OU2MW-02S	OU2MW-02S	OU2MW-06	OU2MW-11I	OU2MW-12I	OU2MW-12I	OU2MW-12I	OU2MW-12I	OU2MW-02I	OU2MW-02I	DUP-05	OU2MW-02I	OU2MW-02I	OU2MW-11I2	OU2MW-11D	OU2MW-12I2	OU2MW-12I2		
Start Depth				13	20	20	20	20	15	20	20	20	20	20	35	35	35	35	30	40	30	30	30		
End Depth				23	25	25	25	25	25	25	25	25	25	25	40	40	40	40	35	45	35	35	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				4/7/2022	8/18/2021	11/16/2021	1/10/2022	6/6/2022	7/8/2021	7/12/2021	7/8/2021	10/13/2021	1/6/2022	4/5/2022	8/17/2021	11/16/2021	11/16/2021	1/10/2022	6/6/2022	7/12/2021	7/12/2021	7/8/2021	10/13/2021	1/6/2022	
Parent Sample Code				OU2MW-19I													OU2MW-02I								
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	82	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	78	88	87	5.6	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	1 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	1 U	2 U		
Total BTEX		TBTEX_ND0	NE	ND	82	ND	ND	ND	ND	ND	ND	ND	ND	ND	78	88	87	5.6	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 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U		
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U		
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U		
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)		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	ug/L	14808-79-8	250,000								5,390	2,620	2,350	3,600 J	48,700	39,200	39,400	39,900	32,700			59,000	42,400		
																							20,800		

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

Aquifer Zone ediate												Intermediate												
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-12I2	OU2MW-12D	OU2MW-12D	OU2MW-12D	DUP-01	OU2MW-12D	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I2	DUP-02	OU2MW-19I2	OU2MW-19I2	OU2MW-19I2	OU2MW-27I	OU2MW-27I	OU2MW-27I	OU2MW-27I	OU2MW-27I2	OU2MW-27I2
Start Depth				30	40	40	40	40	40	13	13	13	13	35	35	35	35	35	25	25	25	25	45	45
End Depth				35	45	45	45	45	45	23	23	23	23	45	45	45	45	45	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				4/5/2022	7/8/2021	10/13/2021	1/6/2022	1/6/2022	4/5/2022	7/21/2021	10/14/2021	1/11/2022	4/7/2022	7/21/2021	7/21/2021	10/14/2021	1/11/2022	4/7/2022	9/29/2021	12/21/2021	2/14/2022	6/1/2022	9/29/2021	12/21/2021
Parent Sample Code								OU2MW-12D							OU2MW-19I2									
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	0.77 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
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	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	1 U	2 U	1 U
Total BTEX		TBTEX_ND0	NE	ND	ND	ND	ND	ND	ND	ND	0.77	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 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	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
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 UJ	1 U	1 U	1 U	1 U	1 UJ	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 UJ	2 U	2 U	2 U	2 U	2 UJ	2 U	2 UJ	2 UJ	2 U	2 U	2 U	2 UJ	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	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
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17)		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	ug/L	14808-79-8	250,000	7,450	5,530	4,340	58,600	60,600	11,800 J															

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

Aquifer Zone										Intermediate													
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-27I2	OU2MW-27I2	OU2MW-28I	OU2MW-28I	OU2MW-28I	OU2MW-28I	OU2MW-28I2	OU2MW-28I2	OU2MW-28I2	OU2MW-28I2	OU2MW-29I	OU2MW-29I	OU2MW-29I	OU2MW-29I	OU2MW-29I2	OU2MW-29I2	OU2MW-29I2	OU2MW-29I2	OU2MW-29D	OU2MW-29D
Start Depth				45	45	28	28	28	28	40	40	40	40	18	18	18	18	30	30	30	30	45	45
End Depth				50	50	33	33	33	33	45	45	45	45	23	23	23	23	35	35	35	35	50	50
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				2/16/2022	6/1/2022	9/15/2021	12/20/2021	2/21/2022	4/18/2022	9/17/2021	12/20/2021	2/21/2022	4/19/2022	9/13/2021	12/20/2021	2/21/2022	4/19/2022	9/13/2021	12/20/2021	2/22/2022	4/19/2022	9/13/2021	12/20/2021
Parent Sample Code																							OU2MW-29D
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	1 U	2 U	2 U	2 U	2 U	2 U	2 U	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		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*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
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)		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	ug/L	14808-79-8	250,000																				

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

Aquifer Zone				Intermediate																				
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-29D	OU2MW-29D	OU2MW-30I	OU2MW-30I	OU2MW-30I	OU2MW-30I	DUP-03	OU2MW-30I2	OU2MW-30I2	OU2MW-30I2	OU2MW-30I2	OU2MW-30I2	OU2MW-30I3	OU2MW-30I3	OU2MW-30I3	OU2MW-30I3	OU2MW-30I3	OU2MW-31I	OU2MW-31I	DUP-07	
Start Depth				45	45	25	25	25	25	25	30	30	30	30	30	45	45	45	45	45	18	18	18	
End Depth				50	50	30	30	30	30	30	35	35	35	35	35	50	50	50	50	50	23	23	23	
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	
Sample Date				2/22/2022	4/19/2022	7/28/2021	9/28/2021	12/27/2021	1/17/2022	4/19/2022	4/19/2022	7/28/2021	9/28/2021	12/27/2021	1/17/2022	4/19/2022	7/29/2021	9/29/2021	12/27/2021	1/17/2022	4/20/2022	9/17/2021	12/28/2021	12/28/2021
Parent Sample Code										OU2MW-30I													OU2MW-31I	
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		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*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
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)		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	ug/L	14808-79-8	250,000													9,820		11,800 J	9,560	11,600				

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

Aquifer Zone				Intermediate																					
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-31I	OU2MW-31I	OU2MW-31I2	OU2MW-31I2	OU2MW-31I2	OU2MW-31I2	OU2MW-39I	OU2MW-39I	OU2MW-39I	OU2MW-39I	OU2MW-40I	OU2MW-40I	OU2MW-40I	OU2MW-41I	OU2MW-41I	OU2MW-41I	OU2MW-41I	OU2MW-41I	OU2MW-47I	DUP-06	OU2MW-47I	OU2MW-47I
Start Depth				18	18	30	30	30	30	25	25	25	25	18	18	18	18	18	18	18	18	20	20	20	20
End Depth				23	23	35	35	35	35	30	30	30	30	23	23	23	23	23	23	23	25	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
Sample Date				3/4/2022	4/18/2022	9/28/2021	12/28/2021	3/4/2022	4/18/2022	8/10/2021	11/2/2021	1/10/2022	6/3/2022	9/27/2021	12/28/2021	4/18/2022	9/16/2021	12/30/2021	2/22/2022	4/20/2022	8/16/2021	8/16/2021	12/13/2021	1/18/2022	
Parent Sample Code																					OU2MW-47I				
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	1 U	2 U	2 U	1 U	
Total BTEX		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 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	
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 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	
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 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-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 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	
Total PAH (17)		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	ug/L	14808-79-8	250,000																						

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

Aquifer Zone				Intermediate					Deep																	
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-47I	OU2MW-47I2	OU2MW-47I2	OU2MW-47I2	OU2MW-47I2	BBMW-01D	BBMW-01D	BBMW-01D	BBMW-01D	BBMW-25D	BBMW-25D	BBMW-25D	BBMW-25D	OU2MW-02I2	OU2MW-02I2	OU2MW-02I2	OU2MW-02I2	OU2MW-02D	OU2MW-02D	OU2MW-02D	OU2MW-02D		
Start Depth				20	40	40	40	40	68.5	68.5	68.5	68.5	62	62	62	62	50	50	50	50	65	65	65	65		
End Depth				25	45	45	45	45	78.5	78.5	78.5	78.5	72	72	72	72	55	55	55	55	70	70	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				5/20/2022	8/16/2021	12/7/2021	1/18/2022	5/20/2022	7/12/2021	12/6/2021	2/9/2022	4/21/2022	9/7/2021	12/13/2021	1/10/2022	6/9/2022	9/7/2021	11/16/2021	1/10/2022	6/6/2022	9/7/2021	11/16/2021	1/10/2022	6/6/2022		
Parent Sample Code																										
Analyte	Units	CAS no.	NYS AWQS																							
BTEX	µg/L																									
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	0.96 J	0.47 J	0.45 J	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	0.48 J	1 U	1 U	1 U		1 U		1 U	1 U	1 U	35	1 U	1 U	1 U	1 U			
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	0.87 J	2.1	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	1 U	2 U	1 U	2 U	3.9	2 U	2 U	0.85 J		2 U		1 U	2 U	2 U	1 U	1 U	2 U	2 U	1 U			
Total BTEX		TBTEX_ND0	NE	ND	ND	ND	ND	ND	6.21	2.57	0.45	0.85		ND		ND	ND	ND	35	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			
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	1.3 J	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			
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			
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			
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			
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			
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			
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			
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			
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			
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			
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			
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-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			
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	1.6 J	1.1 J	2 U	0.98 J		2 U		2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U			
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U			
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			
Total PAH (17)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	2.9	2.2	ND	0.98		ND		ND	ND	ND	ND	ND	ND	ND	ND			
Other																										
Sulfate	ug/L	14808-79-8	250,000										10,600	13,400	13,100	12,800	113,000	47,300	58,200	42,600	6,000	5,150	8,440 J	4,290 J		

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

Aquifer Zone				Deep												De									
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-19D	OU2MW-19D	OU2MW-19D	OU2MW-19D	OU2MW-27D	OU2MW-27D	OU2MW-27D	OU2MW-27D	OU2MW-30D	OU2MW-30D	OU2MW-30D	OU2MW-30D	OU2MW-30D	OU2MW-30D2	OU2MW-30D2	OU2MW-30D2	OU2MW-30D2	OU2MW-30D2	OU2MW-30D2	OU2MW-39I2	OU2MW-39I2	OU2MW-39I2
Start Depth				65	65	65	65	65	65	65	65	50	50	50	50	50	60	60	60	60	60	60	45	45	45
End Depth				70	70	70	70	70	70	70	70	55	55	55	55	55	65	65	65	65	65	65	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	ft
Sample Date				7/21/2021	10/14/2021	1/11/2022	4/7/2022	9/29/2021	12/21/2021	2/16/2022	6/1/2022	7/28/2021	9/29/2021	12/27/2021	1/17/2022	4/20/2022	7/29/2021	9/29/2021	12/27/2021	1/17/2022	4/20/2022	8/10/2021	11/2/2021	1/10/2022	
Parent Sample Code																									
Analyte	Units	CAS no.	NYS AWQS																						
BTEX	µg/L																								
Benzene		71-43-2	1	2.8	0.69 J	0.75 J	0.27 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	
Toluene		108-88-3	5	1.1	1.2	0.42 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Ethylbenzene		100-41-4	5	0.36 J	0.32 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Total Xylene		1330-20-7	5	12	11	4.7	3.2	2 U	1 U	2 U	1 U	2 U	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		TBTEX_ND0	NE	16.26	13.21	5.87	3.47	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*	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	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Acenaphthylene		208-96-8	NE	19	3.7 J	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	
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	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 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	
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 UJ	2 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	2 U	2 U	
2-Methylnaphthalene		91-57-6	NE	2.1 J	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Naphthalene		91-20-3	10*	38	1.5 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	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)		TPAH17_ND0	NE	60.9	5.2	5.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Other																									
Sulfate	ug/L	14808-79-8	250,000	122,000	106,000	78,100	50,600					32,500		29,000 J	32,900	29,000	141,000		151,000	144,000	140,000				

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

Aquifer Zone ep												Deep											
Operable Unit				OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2		
Sample Name				OU2MW-39I2	OU2MW-39D	DUP-05	OU2MW-39D	OU2MW-39D	OU2MW-39D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-43D	OU2MW-43D	OU2MW-43D	OU2MW-43D	DUP-06	OU2MW-47D	OU2MW-47D	OU2MW-47D	OU2MW-47D	
Start Depth				45	70	70	70	70	70	60	60	60	60	65	65	65	65	65	60	60	60	60	
End Depth				50	75	75	75	75	75	65	65	65	65	70	70	70	70	70	65	65	65	65	
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	
Sample Date				6/3/2022	8/10/2021	8/10/2021	11/2/2021	1/10/2022	6/9/2022	8/10/2021	11/1/2021	1/10/2022	6/2/2022	7/12/2021	11/3/2021	3/2/2022	6/9/2022	6/9/2022	8/16/2021	12/13/2021	1/18/2022	5/20/2022	
Parent Sample Code						OU2MW-39D											OU2MW-43D						
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	1.6	0.88 J	1.2	0.78 J	4.4	3.3	7.8	4.4	4.2	1 U	1 U	1 U	1 U	
Toluene		108-88-3	5	1 U	1 U	1 U	2.7	1 U	1 U	6	4.8	4.2	2.2	2.3	0.54 J	1 U	0.54 J	0.52 J	1 U	1 U	1 U	1 U	
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	14	10	10	3.9	1.7	0.39 J	1 U	1.1	1.1	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	65	46	62	38	37	9.5	7.8 J	13	12	1 U	2 U	1 U	2 U	
Total BTEX		TBTEX_ND0	NE	ND	ND	ND	2.7	ND	ND	86.6	61.68	77.4	44.88	45.4	13.73	15.6	19.04	17.82	ND	ND	ND	ND	
PAH17	µg/L																						
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	1.8 J	1.2 J	1.5 J	2.3 J	3.5 J	10 U	3 J	2.7 J	4.5 J	10 U	10 U	10 U	10 U	
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	14	7.3 J	19	19	29	10 U	18	18	13	10 U	10 U	10 U	10 U	
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	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	
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	
Dibenz(a,h)anthracene		53-70-3	NE	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	1 U	1 U	
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.93 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 UJ	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U	2 U	2 U	2 U	2 U	
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 UJ	10 U	10 U	8.8 J	2.2 J	11	5.9 J	9.1 J	10 U	10 U	10 U	1.3 J	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	65 J	2.6	140	94	120	2 U	4.4	47 J	14 J	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	4.2 J	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 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Total PAH (17)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	89.6	13.3	171.5	121.2	165.8	ND	25.4	67.7	33.73	ND	ND	ND	ND	
Other																							
Sulfate	ug/L	14808-79-8	250,000							117,000	122,000	121,000	104,000		122,000	129,000	118,000	120,000	34,400	36,400	39,800	34,700	

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

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)																											
		Sampling Date																											
		1992			1997			1998			1999				2000				2001				2002						2003
1992 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			
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	85	--	--	--	--	--	--	--	--	--	--	2	--	3	5	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
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	
MW-02I/I-R	22.5 - 23.5	--	--	238,900	1,435	4,201	650	965	144	0	65	199	33	--	--	--	--	--	--	--	--	--	--	--	--	--	63		
MW-03	4.94 - 14.94	--	35	--	1	--	--	--	--	178	--	--	--	--	--	--	--	--	--	24	24	--	3	28	23	85	--		
MW-04	5.1 - 15.1	--	1	--	0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	2	--	28	9	0	69	--		
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	
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	
MW-16I	14.0 - 19.0	--	--	--	24	10	55	1	45	0	0	6	12	0	--	--	--	--	--	--	--	2	--	--	--	--	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	0	10	0	0	2	0	0	--	--	--	0	0	0	0	0	0	
MW-29D	14.0 - 19.0	--	--	--	0	--	0	0	0	0	0	0	0	8	--	--	--	--	--	--	--	0	--	--	--	--	--		

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

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)																										
		Sampling Date																										
		1992	1997			1998			1999				2000				2001				2002					2003		
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		
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	
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
MW-34I	18.5 - 19.5	--	--	25,600	--	0	3	0	0	0	6	10	3	0	--	--	--	--	--	--	--	3,690	--	--	--	--	--	
MW-34D	27.5 - 28.5	--	--	16,200	--	35	3	0	1	0	0	15	0	55	--	--	--	--	--	--	--	0	--	--	--	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
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	
MW-64	19.0 - 24.0	--	--	--	0	0	0	0	0	0	25	--	0	0	0	0	--	84	--	--	9	0	0	14	85,000	0	0	
MW-65	11.0 - 16.0	--	--	--	0	--	--	--	--	18	--	31	0	0	0	1	0	51	0	--	9	0	0	31	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
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
MW-73	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	29,500	8,990	7,140	9,400	26,600	5,220	--	64,000	89,000	
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	
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-76	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,702	230	37	252	4,560	21	0	109	136	
MW-78	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17,400	3,790	2,156	2,840	17,700	1,320	11,960	30,800	42,000	
MW-79	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,090	627	74,200	87,100	12,700	69,800	101,600	93,700	
MW-80	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	48,000	635	457	6,220	87,600	387	33,300	88,000	126,000	
MW-81	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,449	1,318	28,200	31,600	1,530	12,930	53,600	33,000	
MW-82	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,840	1,269	110	26,900	48,300	1,444	17,910	245,000	46,000	
MW-83	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	189	120	3	458	1,297	8	62	40	950	
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	
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	--	
MWBS-02D	24.5 - 25.5	--	--	62	0	--	2,450	23	25	0	17,530	0	0	0	--	--	--	--	--	--	--	3	--	--	0	--	--	
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	694	885	--	307	1,727	1,033	1,110	1,911	
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	661	1,340	--	335	599	1,160	2,400	1,854	
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	75	141	--	21	46	33	79	74	
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

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

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)																										
		Sampling Date																										
		1992	1997			1998			1999				2000				2001				2002						2003	
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		
OU3MW-07I2	20.0 - 25.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-07I3	25.0 - 30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-07I4	35.0 - 40.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-08S	2.0 - 12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-08I	25.0 - 30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-09S	2.0 - 12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-09I	25.0 - 30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-09I2	35.0 - 40.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-10S	2.0 - 12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-10I	25.0 - 30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-11S	2.0 - 12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-11I	25.0 - 30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-12S	2.0 - 12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-12I	25.0 - 30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-13S	2.0 - 12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-14S	2.0 - 12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-15S	2.0 - 12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-16S	2.0 - 12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-17S	2.0 - 12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-17I	15.0 - 20.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-17I2	25.0 - 30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-18I	15.0 - 20.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-18I2	25.0 - 30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-19S	2.0 - 12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-19I	20.0 - 25.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-19I2	30.0 - 35.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-20S	2.0 - 12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-20I	20.0 - 25.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-20I2	30.0 - 35.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-21S	2.0 - 12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-21I	15.0 - 20.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-21I2	25.0 - 30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-22I/IP-15A	10.0 - 15.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-22I2/IP-15B	25.0 - 30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-23I/IP-17B	10.0 - 15.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-23I2/IP-17A	25.0 - 30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-24I/IP-19A	10.0 - 15.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
OU3MW-24I2/IP-19B	25.0 - 30.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
PDMW-01	5.0 - 20.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	30,700	19,700	23,100	---	---	14,500	1,400	0	0	
PDMW-02	5.0 - 20.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	86,100	72,600	67,700	93,600	53,300	---	---	68,000	74,000	
PDMW-03	5.0 - 15.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SV-02	2.0 - 12.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	52	40	2	137	820	2	127	73,800	92,300	
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	
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	---	---	---	---	---	---	---	---	---	---	---	---	---	---													

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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			
		Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Aug-Sep	Oct-Dec
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
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	--	0	--	--	--	0	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	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
BBMW-28I	10.0 - 20.0	--	--	--	--	0	0	0	0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-29	2.0 - 9.0	--	--	--	--	0	0	0	4,368	974	134	0	0	0	0	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	0	0	--	--	--	0	--	--	0
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	2	--	--	0
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	3	--	--	0
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	3	--	--	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	0
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	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
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	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
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	7,580	5,380	83	10	21,100	290	3,627	45	0	0	0	101	2,300	0	0	83	0	73	0	0	0	0	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	--	--	--	460	--	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	--
MW-02S/S-R	2.0 - 12.0	149,000	172,400	22,000	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	14	--	--	--	62	--	--	--	0	--	--	--	0	0	0	0	0	0	3	0	0	0	--	--
MW-03	4.94 - 14.94	35	51	52	0	22	28	24	27	0	24	28	14	0	0	20	18	5	5	9	11	6	14	16	18
MW-04	5.1 - 15.1	0	0	0	0	0	0	0	0	12	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	0	0	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
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	2	0	0	0
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	354	1,320	41,800	317	66,800	65,500	34,600	45,820	42,100	15,000	17,900	18,600	12,250	6,050	15,870	20,770	36,270	11,710	5,840	14,280	3,275	4,192	--	--
MW-16I	14.0 - 19.0	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

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
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National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)																							
		Sampling Date																							
		2004				2005				2006				2007				2008				2009			
Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Aug-Sep	Oct-Dec		
MW-30W/W-R	2.0 - 9.0	--	--	--	--	0	0	10	0	0	106	130	0	0	0	0	0	1	0	0	0	0	0		
MW-32W/W-R	2.0 - 9.0	1,189	2,048	74,400	33,300	8,413	5,171	4,400	9,200	4,565	5,950	5,100	1,502	1,060	567	1,080	9,760	2,040	57	0	29	232	91	277	2
MW-34S	2.0 - 10.0	13,000	13,900	3,364	12,370	5,068	11,700	29,200	3,820	14,600	25,500	9,240	5,760	85	9,750	35,100	19,800	7,750	25,870	5,638	9,100	3,636	2,310	57	2
MW-34I	18.5 - 19.5	4,090	--	--	--	1,348	--	--	--	0	--	--	--	0	0	5	934	35	0	0	0	0	0	0	0
MW-34D	27.5 - 28.5	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	1,950	25,000	2,780	11,300	39,300	14,000	19,300	16,100	14,600	2,214	1,720	5,770	3,200	43,400	1,236	1,717	3,600	5,690	242	142	4,210	15,700	1,737	15
MW-46W/W-R	2.0 - 10.0	43,400	20,800	23,100	22,500	37,100	40,200	42,400	15,760	17,110	7,270	2,750	2,330	1,256	3,810	915	1,400	8,130	1,664	3,471	1,231	525	1,510	811	559
MW-64	19.0 - 24.0	0	0	24	7,650	0	5,651	0	750	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-65	11.0 - 16.0	0	0	0	3,852	0	0	0	0	0	0	0	0	0	0	0	4	0	0	7	0	0	0	0	0
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	1,114	6,150	39,400	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
MW-73	2.0 - 12.0	34,000	33,000	71,500	27,700	26,700	26,500	52,000	557	8,460	14,520	36,200	15,070	18,700	22,500	15,300	14,000	12,800	5,970	9,800	5,380	7,100	62,600	45,100	7,400
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-75	2.0 - 12.0	4,060	1,302	34,500	212	1,815	129,200	157,100	17,000	5,389	1,540	3,600	491	580	355	9,420	2,254	268	1,802	77,440	1,181	569	7,290	68,310	935
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	0	--	0	33	0	170	23	0	27	0	0	0	0	0	4	7	2	0	1	0	0	0	0	0
MW-78	5.0 - 20.0	11,800	18,200	13,400	8,400	15,700	21,800	8,700	3,090	5,900	4,710	18,100	4,080	2,320	3,050	2,480	2,270	54	167	449	312	2,590	2,140	3,370	599
MW-79	5.0 - 20.0	116,000	82,600	34,820	24,100	32,300	9,800	7,300	588	3,740	3,320	1,220	7,690	13,900	2,840	2,030	542	3,160	32	3,110	2,060	10,100	189	893	6,780
MW-80	5.0 - 20.0	118,000	96,000	81,400	66,900	132,000	197,000	301,000	38,300	44,000	38,700	6,170	41,100	148,000	26,100	41,000	106,000	3,220	18,700	52,300	90,400	55,200	34,500	8,750	20,100
MW-81	5.0 - 20.0	63,000	25,000	20,400	35,200	37,800	22,870	29,100	15,660	5,000	9,510	3,499	16,900	65,800	16,100	36,300	61,800	8,690	1,080	18,840	5,020	257	152	607	25,120
MW-82	5.0 - 20.0	20,280	9,160	30,300	10,400	5,340	25,300	140	58,900	44,200	30,000	43,400	21,800	7,144	14,460	4,338	17,989	1,164	2,254	6,942	19,071	6,151	403	1,822	4,140
MW-83	5.0 - 20.0	0	54	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
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	2,853	323	0	0	22	82	0	0	0	0	0	0	0	0	0	8	0	0	0	98	0	268	103	
MWBS-02I	14.5 - 15.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	3	30	14
MWBS-02D	24.5 - 25.5	0	--	--	--	87	--	--	--	191	--	--	--	0	0	0	0	17	0	0	0	0	0	0	0
MW-UST1	2.0 - 12.0	51	2,343	2,700	240	122	660	830	1,083	117	1,270	2,400	944	950	1,250	796	470	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	440	1,812	3,800	1,430	3,117	1,880	2,700	1,410	1,652	1,925	3,011	1,250	960	1,260	1,173	1,686	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	145	320	0	22	247	41	12	0	0	19	0	0	14	0	6	4	--	--	--	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	58	0
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	37	114
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	187	0
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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			
		Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Aug-Sep	Oct-Dec
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I/IP-15A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I/IP-17B	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I2/IP-17A	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I/IP-19A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I2/IP-19B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70,920	0	0	0	0	0	0	--	0
PDMW-02	5.0 - 20.0	115,900	117,600	82,000	83,000	90,000	60,300	37,300	100,000	19,500	85,100	67,500	98,000	62,700	79,700	68,020	84,400	70,570	65,260	51,400	73,810	59,210	46,350	--	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	45,561	27,913	14,511	27,515	--	--
SV-02	2.0 - 12.0	0	0	0	0	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
SV-02I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	33,200	11,600	615	4,400	936	5,509	249	2,702	570	257	831	116	65	207	185	341	105	477	60	56	29	10	5	8
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
Quarterly 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																													
		2010				2011				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	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-09S	5.0 - 15.0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09I	30.0 - 40.0	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09D	62.0 - 72.0	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	--	--	--	0	--	--
BBMW-28I	10.0 - 20.0	0	10	0	0	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
BBMW-29	2.0 - 9.0	0	0	0	0	0	1	0	0	0	0	15	0	1	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
BBMW-30S	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	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	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	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	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	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
BBMW-32S	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	0	0	0	0	0	0	0	0	0	0	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	0	0	2	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	--	--
BW-UST-10	5.0 - 10.0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-11	5.0 - 10.0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-28	5.0 - 10.0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-29	5.0 - 10.0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	0	0	1,275	82	17,660	11,855	13,120	9,050	4,578	5,794	0	0	0	0	0	3	0	0	0	0	0	0	0	--	--	--	0	--	--	
IP-16A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	664	29	0	0	0	72	0	0
IP-16B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	43	201	20	0	18	0	0	0
IP-18A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,660	0	0	0	0	0	0	0
IP-18B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	167	12	0	0	3	0	0
IP-20A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,580	126	10	62	4,846	159	0	0
IP-20B	24.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,511	654	0	271	69	0	0	0
MW-01S	4.0 -14.0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01D	35.0 - 45.0	0	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02S/S-R	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02I/I-R	22.5 - 23.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	14	14	12	3	3	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04	5.1 - 15.1	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	0	0	0	0	0	10	33	52	13	585	1,534	428	2	4	0	--	0	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-12W	2.0 - 10.0	0	0	0	0	0	0	0	0	4	488	18	0	15	80	0	2	0	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-13W	2.0 - 10.0	--	--	--	--	--	0	0	--	0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29D	14.0 - 19.0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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																											
		2010				2011				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	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec		
MW-30W/W-R	2.0 - 9.0	0	0	3	0	0	0	0	0	30	26	0	--	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	
MW-32W/W-R	2.0 - 9.0	120	0	0	0	0	62	1,548	795	8	25	10	156	2	3	1	0	0	0	0	0	0	--	--	--	0	--	--	
MW-34S	2.0 - 10.0	16	80	4,080	1,666	179	225	11,830	5,930	4,310	1,737	227	126	1	0	0	1	0	0	0	0	0	--	--	--	0	--	--	
MW-34I	18.5 - 19.5	0	0	222	0	1,240	4,970	6,421	7,177	11,070	4,165	80	58	38	18	13	4	510	0	0	0	0	0	--	--	--	0	--	--
MW-34D	27.5 - 28.5	0	0	0	0	0	0	1,773	2,357	236	1,747	203	1	2	13	1	14	0	0	0	0	0	--	--	--	0	--	--	
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	0	--	--	0	--	0	0	0	0	0	0	0	0	--	--	--	15	--	--	
MW-37W	2.0 - 10.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	21	0	0	0	0	0	0	--	--	--	0	--	--	
MW-39W	2.0 - 10.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	
MW-45W	2.0 - 10.0	323	1,075	1	0	14	0	0	0	36	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	
MW-46W/W-R	2.0 - 10.0	431	1,135	954	549	2,335	1,835	1,152	184	270	1,187	9	3	0	0	0	156	0	0	0	0	0	--	--	--	11	--	--	
MW-64	19.0 - 24.0	0	0	2,270	13,530	18,020	23,140	21,050	3,698	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
MW-65	11.0 - 16.0	0	0	0	5	0	0	0	5,639	2,324	564	557	328	309	4	151	94	58	12	67	21	9	0	89	8	141	22	--	--
MW-66S	1.5 - 11.5	0	0	0	0	0	0	0	0	0	0	0	--	0	0	--	0	0	0	0	--	0	--	--	--	0	--	--	
MW-66D	24.0 - 29.0	0	0	0	0	0	0	0	0	0	0	0	--	0	0	--	0	0	0	0	--	0	--	--	--	0	--	--	
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	0	--	--	--	--	0	--	0	0	0	0	0	0	--	--	--	0	--	--	
MW-67D	24 - 29	--	--	--	--	--	--	--	--	0	--	--	--	--	0	--	0	0	0	0	0	0	--	--	--	0	--	--	
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	--	--	--	--	0	--	--	
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	20	2	0	0	5	0	0	0	--	--	--	--	0	--	--	
MW-70/70S	2.0 - 12.0	169	353	754	1,546	1,107	9,700	7,580	4,096	5,120	1,908	1,735	38	4	0	3	9	0	0	0	0	--	--	--	--	0	--	--	
MW-73	2.0 - 12.0	8,970	12,000	612	258	863	3,560	1,225	2,276	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
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	8,350	1,760	1,200	1,590	1,325	1,098	1,147	719	945	4	13	10	0	75	0	0	0	--	--	
MW-75	2.0 - 12.0	1,375	608	50,410	4,707	5	7	12,710	468	32	72	6,990	3,420	24	173	1,471	7	0	0	0	0	--	--	--	--	0	--	--	
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	3,370	5,821	20,409	990	2,012	1,652	492	517	335	22	104	12	0	0	0	0	--	--	--	
MW-76	2.0 - 12.0	0	2	0	0	1	0	0	112	0	0	0	0	0	0	2	0	0	0	0	0	--	--	--	--	0	--	--	
MW-78	5.0 - 20.0	650	--	4,890	4,650	210	1,380	583	3,010	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
MW-79	5.0 - 20.0	1,020	4,290	274	23,000	1,200	1,310	9,750	2,280	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
MW-80	5.0 - 20.0	3,750	11,260	20,090	10,780	2,820	2,330	11,320	2,470	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
MW-81	5.0 - 20.0	6,120	7,730	24,400	5,700	1,187	2,298	3,050	3,240	2,225	7,390	7,852	7,158	251	1,023	1,096	8	6	0	0	0	0	--	--	--	0	--	--	
MW-82	5.0 - 20.0	4,260	18,100	1,890	5,410	655	55	1,743	508	1,487	1,196	259	1,609	523	461	564	12	0	0	0	0	0	--	--	--	0	--	--	
MW-83	5.0 - 20.0	0	4	10	2,387	11	16	155	2,339	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	939	56	115	3	0	11	4	120	177	28	12	1	0	0	0	0	0	0	0	0	--	--	--	--	0	--	--	
MWBS-02I	14.5 - 15.5	4	107	83	0	2	4	1	34	43	80	376	3	0	1	8	0	0	3	1	0	0	--	--	--	0	--	--	
MWBS-02D	24.5 - 25.5	1	0	0	0	1	0	0	0	0	2,971	414	71	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	43	0	0	8	0	0	0	0	0	0	0	0	--	--	--	--	0	--	--	
OU3MW-02S	3.0 - 13.0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	0	--	--	
OU3MW-02I	15.0 - 20.0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	0	--	--	
OU3MW-03S	1.0 - 11.0	0	15	0	0	542	224	698	8,690	665	530	81	89	48	2	1	5	2	0	0	0	--	--	--	--	0	--	--	
OU3MW-03I	20.0 - 25.0	4	132	0	0	2,463	1,480	5,630	769	138	285	1,621	21	0	2,472	76	627	108	0	0	0	--	--	--	--	0	--	--	
OU3MW-04S	1.0 - 11.0	0	0	7	0	21	2	0	18	0	4	0	0	0	0	0	0	0	7	0	0	--	--	--	--	0	--	--	
OU3MW-04I	16.0 - 21.0	0	336	208	0	0	108	541	115	0	0	0	0	0	0	0	0	6	0	0	0	--	--	--	--	0	--	--	
OU3MW-04D	26.0 - 31.0	0	0	0	0	0	0	152	15,384	2,837	939	3,001	1,665	7	7	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	--	--	
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	0	0	1	0	0	0	0	0	0	0	0	0	--	--	--	--	0	--	--	
OU3MW-05S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	--	--	--	--	0	--	--	
OU3MW-05I	15.0 - 20.0	0	0	0	0	246	75	0	0	0	0	72	39	115	364	60	0	0	0	2	2	0	--	--	--	--	0	--	--
OU3MW-06	3.0 - 13.0	0	0	7	0	0	11	0	0	32	0	0	0	0	0	16	0	0	0	0	0	--	--	--	--	0	--	--	
OU3MW-07S	3.0 - 13.0	3,461	39	8	251	179	108	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-07I	15.0 - 20.0	0	0	0	0	4,0																							

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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																											
		2010				2011				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	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec		
OU3MW-07I2	20.0 - 25.0	0	0	0	0	3,267	10,427	3,520	1,416	7,366	2,502	37	20	19	14	6	4	2	1	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	
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	--	0	0	0	0		
OU3MW-08S	2.0 - 12.0	--	--	--	5,200	5,730	4,530	4,940	1,970	2,330	2,260	1,321	966	1,850	165	1,580	1,930	2,240	1,003	710	585	1,176	0	1,368	752	224	261	850	950
OU3MW-08I	25.0 - 30.0	--	--	--	0	0	0	0	0	0	2	0	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	--	
OU3MW-09S	2.0 - 12.0	--	--	--	2,002	407	365	287	79	37	56	59	115	0	0	15	25	0	0	1	5	11	0	10	2	0	0	0	
OU3MW-09I	25.0 - 30.0	--	--	--	38,700	31,840	20,390	22,230	23,690	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
OU3MW-09I2	35.0 - 40.0	--	--	--	--	--	--	4	46	27	18	73	27	16	70	9	14	6	10	7	8	6	3	0	--	--	0	--	
OU3MW-10S	2.0 - 12.0	--	--	--	4,614	3,084	958	492	251	113	143	42	40	0	0	6	6	0	1	--	--	--	--	--	--	--	--	--	
OU3MW-10I	25.0 - 30.0	--	--	--	8	0	0	1	63	201	440	712	303	469	580	314	326	574	642	113	112	388	900	106	54	217	--	104	55
OU3MW-11S	2.0 - 12.0	--	--	--	0	0	0	0	0	8	0	0	--	--	0	--	--	--	1	--	--	--	--	--	--	--	--	--	
OU3MW-11I	25.0 - 30.0	--	--	--	1	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	
OU3MW-12S	2.0 - 12.0	--	--	--	0	0	0	0	0	5	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	
OU3MW-12I	25.0 - 30.0	--	--	--	0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	
OU3MW-13S	2.0 - 12.0	--	--	--	--	--	--	1,490	2,730	21,000	2,700	3,940	21,000	6,100	12,120	537	4	277	810	1	15	1,370	168	0	8	4	0	0	203
OU3MW-14S	2.0 - 12.0	--	--	--	--	--	--	34,200	31,100	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	--	--	--	--	--	--	2,598	1,444	204	412	1,847	2,254	51	184	881	21	0	0	0	0	0	--	--	--	0	--	--	
OU3MW-16S	2.0 - 12.0	--	--	--	--	--	--	43	898	769	846	259	164	1,128	219	161	18	200	180	648	1,129	980	158	36	1,187	789	910	619	631
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
OU3MW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	106	502	0	--	0	74	427	142	0	0	0	0	0	0
OU3MW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0	0	0	0	0	0	0	0	0
OU3MW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	85	82	3	0	0	20	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
OU3MW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	9	0	0	134	2	0	0	0	0	0	0	0	0
OU3MW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-21I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	--	--	--	0	--	--
OU3MW-21I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	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
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	480	--	--	--	--	43	13	0	0	0	0	0
OU3MW-23I/IP-17B	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16,900	16,000	--	--	--	--	15,600	3,040	3,768	226	473	379	152
OU3MW-23I2/IP-17A	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,210	1,960	--	--	--	--	1,200	144	635	0	0	32	0
OU3MW-24I/IP-19A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,530	2,145	--	--	--	--	3,340	1,139	3	85	68	24	28
OU3MW-24I2/IP-19B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,821	20,120	--	--	--	--	2,811	8,520	126	202	19	1,199	0
PDMW-01	5.0 - 20.0	0	0	0	0	0	18	0	0	2	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	0	212	32,000	27	0	0	17	20	114	0	767	1	0	0	0	7	0	0	0	0	0	0	--	--	--	--	--	--
SV-02I	22.0 - 27.0	--	--	--	--	--	--	12,120	1,562	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	
SV-02I2	35.0 - 40.0	--	--	--	--	--	--	0	0	2	62	47	1	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--
SV-03	2.0 - 12.0	0	0	5	144	3	7	10	3	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
Quarterly 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
		2017				2018				2019				2020			2021				2022									
Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	85	3	--	--	
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	15	2	--	--	
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	10	0	--	--	
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,368	128	--	--	
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	--	--	
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	--	--	
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	--	--	
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	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	2	0	--	--	
BBMW-33	7.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	--	--	
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	21,100	2,215	--	--	
IP-16A	14.0 - 15.0	0	0	0	0	--	0	--	--	--	50	--	0	0	0	0	0	0	0	0	--	--	14	0	664	39	7	7		
IP-16B	24.0 - 25.0	0	6	0	--	--	1.043	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	201	22	0	0	
IP-18A	14.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3,660	407	--	--	
IP-18B	24.0 - 25.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	167	19	--	--	
IP-20A	14.0 - 15.0	0	247	24	2	0	1272.7	0	0	0	59	--	0	0	0	0	0	0	0	--	--	--	--	0	4,846	350	0	0		
IP-20B	24.0 - 25.0	87	76	0	0	0	0.92	0	--	--	4	--	--	278	--	37	6	851	2	111	12			0	2,511	226	244	244		
MW-01S	4.0 -14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	460	17	--	--	
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
MW-02S/S-R	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--														

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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																									
		2017				2018				2019				2020			2021				2022		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
MW-30W/W-R	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	27,200	883	--	--
MW-32W/W-R	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	74,400	5,078	--	--
MW-34S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	49,500	8,730	--	--
MW-34I	18.5 - 19.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	25,600	1,463	--	--
MW-34D	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	16,200	444	--	--
MW-34DD	27.5 - 28.5	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	61	5	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	21	1	--	--
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--
MW-45W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	53,700	5,285	--	--
MW-46W/W-R	2.0 - 10.0	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	57,900	9,981	--	--
MW-64	19.0 - 24.0	54	21	0	0	4	1.96	4	966	0	0	0	1,602	3	10	246	4	0	39	1	32	0	0	85,000	2,716	18	18
MW-65	11.0 - 16.0	--	--	1	0	--	0	--	4	0	7	47	1	12	0	0	0	213	--	0	0	14	0	5,639	177	5	5
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--
MW-67D	24 - 29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	172	11	--	--
MW-70/70S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	57,000	5,192	--	--
MW-73	2.0 - 12.0	0	0	0	--	--	0	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	0	89,000	13,117	--	--
MW-73I	22.0 - 27.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8,350	868	--	--
MW-75	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	161,100	18,269	--	--
MW-75I	22.0 - 27.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	20,409	1,881	--	--
MW-76	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,560	153	--	--
MW-78	5.0 - 20.0	0	26	0	0	4	8.08	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	0	42,000	5,462	--	--
MW-79	5.0 - 20.0	29	4	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	0	116,000	13,163	--	--
MW-80	5.0 - 20.0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	301,000	33,853	--	--
MW-81	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	65,800	13,965	--	--
MW-82	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	245,000	14,582	--	--
MW-83	5.0 - 20.0	--	--	--	--	--	--	--	--	0	29	11	3	3	3	2	8	15	--	0	0	0	0	6,761	478	0	0
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	151	51	--	--
MWBS-02S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,510	177	--	--
MWBS-02I	14.5 - 15.5	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	9,998	255	--	--
MWBS-02D	24.5 - 25.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	17,530	477	--	--
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	51	2,700	1,039	--	--
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	335	3,800	1,646	--	--
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	320	56	--	--
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	43	2	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	0	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8,690	466	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5,630	633	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	114	8	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	541	60	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	15,384	960	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	770	80	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	364	41	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	32	3	--	--
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	3,461	83	0	0
OU3MW-07I	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4,040	133	0	0

Table 4-11. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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)																							Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date												2021				2022											
		2017				2018				2019				2020			2021				2022								
Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun									
OU3MW-07I2	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10,427	584	0	0		
OU3MW-07I3	25.0 - 30.0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	15	5	0	0	0	0	0	0	12,187	302	0	0		
OU3MW-07I4	35.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	15	0	0	0		
OU3MW-08S	2.0 - 12.0	446	169	1,710	1,180	460	340	1,109	65	1,038	21	42	1,460	1,229	1,289	667	2,530	901	2,740	1,221	1,248	838	0	5,730	1,426	1,512	1,512		
OU3MW-08I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	--	--		
OU3MW-09S	2.0 - 12.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,002	124	--	--		
OU3MW-09I	25.0 - 30.0	3,162	2,481	2,520	3,250	1,244	719.2	2,798	466	645	586	857	1,530	29	31	158	94	68	27	24	168	169	29	38,700	4,337	97	97		
OU3MW-09I2	35.0 - 40.0	--	9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	73	19	--	--		
OU3MW-10S	2.0 - 12.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,614	609	--	--		
OU3MW-10I	25.0 - 30.0	54	101	41	21	353	116.2	14	113	319	16	8	28	388	7	12	154	36	22	9	10	20	0	900	189	15	15		
OU3MW-11S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	8	1	--	--		
OU3MW-11I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	--	--		
OU3MW-12S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1	--	--		
OU3MW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--		
OU3MW-13S	2.0 - 12.0	0	0	0	3	1	0	2	0	3	0	--	--	--	0	--	--	0	109	--	0	5	0	21,000	2,016	38	38		
OU3MW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	34,200	12,895	--	--		
OU3MW-15S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,598	582	--	--		
OU3MW-16S	2.0 - 12.0	162	681	72	506	165	180.6	625	173	151	242	212	94	77	49	165	27	7	0	2	37	16	7	1,187	363	14	14		
OU3MW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--		
OU3MW-17I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	7	1	--	--		
OU3MW-17I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1	--	--		
OU3MW-18I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	55	7	--	--		
OU3MW-18I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1	--	--		
OU3MW-19S	2.0 - 12.0	34	29	9	0	0	5.5	10	8	7	0	12	5	5	4	2	2	3	4	3	2	1	0	6,350	588	2	2		
OU3MW-19I	20.0 - 25.0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	502	37	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	2	0	0	0	0	0	0	0	0		
OU3MW-20S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	85	6	1	1		
OU3MW-20I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	551	28	0	0		
OU3MW-20I2	30.0 - 35.0	0	0	4	0	0	0	774	0	0	0	0	531	8	0	0	0	46	5	0	1	--	0	774	45	2	2		
OU3MW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--		
OU3MW-21I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--		
OU3MW-21I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	11	1	--	--		
OU3MW-22I/IP-15A	10.0 - 15.0	16	1	--	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	32,200	6,108	--	--		
OU3MW-22I2/IP-15B	25.0 - 30.0	--	0	--	--	--	0.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	480	49	--	--		
OU3MW-23I/IP-17B	10.0 - 15.0	161	17	18	122	11	0	3	24	0	0	0	0	0	0	--	--	0	44	--	0	0	0	16,900	2,109	15	15		
OU3MW-23I2/IP-17A	25.0 - 30.0	0	0	68	0	0	0	5	0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	2,210	329	--	--		
OU3MW-24I/IP-19A	10.0 - 15.0	14	0	1	20	34	0.15	1	4	0	0	--	--	--	0	--	--	0	2	--	--	--	0	3,530	474	2	2		
OU3MW-24I2/IP-19B	25.0 - 30.0	152	26	0	0	144	0	0	176	0	0	0	711	1	9	35	0	1	28	10	7	0	0	20,120	1,337	11	11		
PDMW-01	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	70,920	3,729	--	--		
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19,500	117,600	73,549	--	--		
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14,511	45,561	28,875	--	--		
SV-02	2.0 - 12.0	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	92,300	6,556	--	--		
SV-02I	22.0 - 27.0	0	--	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	25,765	2,393	--	--		
SV-02I2	35.0 - 40.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	62	6	--	--		
SV-03	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	33,200	2,245	--	--		
TMW-1I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	350	2	5	0	0	1	4	65	148	2	222	0	350	73	109	109		
TMW-1I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	2,334	538	82	459	1	2	9	6	1	72	1,203	1	2,334	428	320	320		
TMW-2I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	3	5	3	0	0	--	0	1	3	--	0	0	5	2	1	1		
TMW-2I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	814	333	251	--	385	11	138	70	19	33	252	11	814	230	93	93		
TMW-3I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	5	42	26	--	18	94	167	44	3	13	36	5	167	45	24	24		
TMW-3I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	733	26	221	0	0	--	501	0	11	3	0	0	733	150	4	4		

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

Table 4-12. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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 Sep	1997 Jun Aug		1998 Mar/Apr Jun Dec			1999 Mar Jun Sep Oct/Nov				2000 Feb May Sep Nov/Dec				2001 Mar Jun Sep Dec				2002 Jan/Feb Mar Apr/May Jun/Jul Aug/Sep Nov/Dec					2003 Feb-Apr Jul/Aug Sep/Oct				
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	99	--	99	53	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
IP-16A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
IP-16B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
IP-18A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
IP-18B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
IP-20A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
IP-20B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-01S	4.0 -14.0	0	0	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-01D	35.0 - 45.0	0	--	--	1	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
MW-02S/S-R	2.0 - 12.0	4,300	1,941	6,181	9,700	21,640	21,257	1,694	2,238	1,919	1,618	1,530	1,787	1,681	1,620	--	--	--	--	1,595	1,583	1,367	10,830	6,440	2,542	1,800	1,300	1,500	
MW-02I/I-R	22.5 - 23.5	--	--	6,478	99	12	11	10	1	0	0	0	53	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	
MW-03	4.94 - 14.94	--	40	--	0	--	--	--	--	--	77	--	--	--	--	--	--	--	--	--	103	85	--	89	50	0	45	--	
MW-04	5.1 - 15.1	--	4	--	99	--	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	90	--	99	--	0	53	--	
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	
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	
MW-16I	14.0 - 19.0	--	--	--	18	0	0	3	0	0	7	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--							

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

[illegible]

Table 4-12. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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 Sep	1997 Jun Aug		1998 Mar/Apr Jun Dec			1999 Mar Jun Sep Oct/Nov				2000 Feb May Sep Nov/Dec				2001 Mar Jun Sep Dec				2002 Jan/Feb Mar Apr/May Jun/Jul Aug/Sep Nov/Dec					2003 Feb-Apr Jul/Aug Sep/Oct				
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-14S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I/IP-15A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,538	1,432	1,431	--	--	2,188	13,000	0	0	--
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,929	2,181	1,933	5,848	3,250	--	--	1,130	1,714	--
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	--
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,929	2,181	1,933	5,848	3,250	--	--	1,130	1,714	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	95	112	99	99	186	103	0	430	515	--
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	--
TMW-1I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-1I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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																											
		2004				2005				2006				2007				2008				2009				2010			
Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Aug-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec		
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	150	--	0	--	0	--	--	--	0	--	--	--	0	--	--	--	
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	0	--	0	--	0	--	--	--	0	--	--	--	0	--	--	--	
BBMW-28S	2.0 - 12.0	--	--	--	--	0	0	68	0	--	--	--	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0		
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		
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		
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	0	0	0		
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	--	--	--	0	--	--	3	0	0	0		
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	0	0	0		
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	0	0	0		
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	--	--	--	0	--	--	0	2	0	12		
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	0	0	0		
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	0	1	1	0	--	--	--	0	--	--	3	0	0	0		
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	0	0	0		
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	--	--	--	0	--	--	0	0	0	0		
BBMW-33	7.0 - 12.0	--	--	--	--	--	--	--	--	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			
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	0	0	0	68	0	2	1	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			
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	3	0	0	0	0	0	0	0			
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
IO-10	6.0 - 16.0	786	625	0	0	937	91	350	0	0	0	0	0	100	0	0	18	0	4	0	0	0	0	0	0	0			
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	1	0	0	0	0	0	0			
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	263	0	0	0	0	0	--	--	--	0	0	0	--	0	--			
MW-02S/S-R	2.0 - 12.0	2,400	2060	254	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	--			
MW-02II-R	22.5 - 23.5	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0	0	0	0	0	0	--	--	--	--	--			
MW-03	4.94 - 14.94	26	19	43	19	21	34	40	57	0	28	35	34	35	11	56	0	12	0	0	28	0	0	82	16	0			
MW-04	5.1 - 15.1	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			
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-11W	2.0 - 10.0	0	1729	0	110	0	10	0	27	15	18	0	19	0	0	5	1	2	0	0	0	0	1	0	0	0			
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	3	0	0	0	0	0	0			
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-16SR	2.0 - 10.0	0	0	1,022	2,068	3,500	3,900	3,611	1,280	2,183	1,870	1,056	676	842	232	280	579	922	355	552	104	28	143	--	--	--			
MW-16I	14.0 - 19.0	0	--	--	--	57	--	--	--	0	--	--	--	0	44	0	0	0	0	0	--	--	--	--	--	--			
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	0	0	0	0	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	--			

Table 4-12. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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																											
		2004				2005				2006				2007				2008				2009				2010			
		Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Aug-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
MW-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	
MW-32W/W-R	2.0 - 9.0	0	0	370	877	55	59	0	180	110	89	98	100	97	45	47	105	123	38	12	0	3	6	4	4	0	0	0	0
MW-34S	2.0 - 10.0	160	130	49	210	212	52	67	110	461	397	210	140	150	68	110	402	81	186	51	42	83	105	17	0	15	14	49	702
MW-34I	18.5 - 19.5	496	--	--	--	290	--	--	--	0	--	--	--	0	0	0	124	12	0	0	0	0	0	0	0	0	0	247	0
MW-34D	27.5 - 28.5	0	--	--	--	0	--	--	--	0	--	--	--	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	170	699	65	341	723	180	424	561	895	74	40	233	0	0	10	9	0	0	0	10	153	60	0	2	0	1	0	0
MW-46W/W-R	2.0 - 10.0	647	150	589	443	1,048	972	1,200	1,045	544	50	233	192	37	71	47	74	102	24	0	39	39	60	31	10	19	3	173	168
MW-64	19.0 - 24.0	0	0	0	120	0	318	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	3	0	0	0	0	284	806
MW-65	11.0 - 16.0	37	0	0	502	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	18	46	260	0	0	170	556	57	91	0	11	13	0	0	10	13	39	25	96	22	14	8	13	0	25	2	102	179
MW-73	2.0 - 12.0	843	1,470	1,500	1,030	956	829	1,290	1,800	575	669	1,100	545	497	345	495	1,189	444	105	1	0	97	1,308	1,295	480	588	1,169	234	19
MW-73I	22.0-27.0																												
MW-75	2.0 - 12.0	60	0	387	0	22	1,350	2,890	384	100	56	55	0	0	0	180	47	0	0	1,024	0	1	101	1,667	30	38	0	2,178	435
MW-75I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	0	0	0	0	47	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-78	5.0 - 20.0	585	707	85	22	463	1,160	493	0	445	493	616	0	0	46	40	31	0	0	0	0	0	191	0	0	0	--	0	36
MW-79	5.0 - 20.0	2,000	0	1,200	661	1,400	790	522	104	281	103	41	0	140	0	0	0	90	1	6	0	13	0	0	3	0	0	0	675
MW-80	5.0 - 20.0	2,500	1,600	1,390	1,370	2,400	2,200	2,300	1,080	1,200	694	258	1,480	831	601	884	1,173	277	509	790	701	522	568	79	467	11	321	841	677
MW-81	5.0 - 20.0	1,714	696	1,112	1,100	1,700	100	1,210	434	487	274	2,700	807	1,068	448	1,130	1,508	480	0	50	4	19	0	0	1,306	59	697	547	236
MW-82	5.0 - 20.0	733	276	19	995	233	358	488	1,571	1,140	837	1,137	150	234	286	127	306	0	1	0	448	0	0	2	72	0	48	33	209
MW-83	5.0 - 20.0	0	0	0	76	140	0	150	25	0	0	230	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	0
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	160	75	25	0	150	41	0	0	0	0	0	0	0	0	0	0	7	0	0	3	1	7	13	122	45	33	0	0
MWBS-02I	14.5 - 15.5	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MWBS-02D	24.5 - 25.5	64	--	--	--	0	--	--	--	16	--	--	--	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-UST1	2.0 - 12.0	0	221	520	52	55	260	392	373	140	520	541	260	358	363	239	140	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	0	297	500	353	621	373	361	208	265	457	227	120	155	59	450	550	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	33	0	0	16	26	0	0	0	0	12	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	0	0	0	0	0
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	6	0	0
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	19	21	0	0	0	8
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9	0	0	30	44	0
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--											

Table 4-12. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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																											
		2004				2005				2006				2007				2008				2009				2010			
		Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Aug-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	297
OU3MW-08I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-09S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	345
OU3MW-09I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,453
OU3MW-09I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-10S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	417
OU3MW-10I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-11S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-11I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-12S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-12I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-13S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-14S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-15S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-16S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-17I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-18I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-21I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I/IP-15A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I/IP-17B	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I2/IP-17A	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I/IP-19A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I2/IP-19B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	1,464	0	0	2	0	0	0	--	0	0	0	0	0
PDMW-02	5.0 - 20.0	2,300	2,463	1,918	2,316	2,616	2,312	2,716	2,416	2,013	2,420	2,119	3,022	2,716	2,520	1,241	1,976	3,025	2,226	1,934	1,950	2,797	3,206	--	--	--	--	--	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,721	1,619	2,100	2,108	--	--	--	--	--	--
SV-02	2.0 - 12.0	0	0	0	0	0	39	190	324	0	0	35	0	0	0	133	0	0	3	0	0	0	0	669	0	0	0	770	0
SV-02I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	536	272	150	130	80	33	0	0	96	57	0	0	17	0	31	72	17	0	0	0	0	0	1	0	0	0	0	1
TMW-1I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-1I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																											
		Sampling Date																											
		2011				2012				2013				2014				2015				2016				2017			
		Mar-Apr	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
BBMW-09S	5.0 - 15.0	1	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09I	30.0 - 40.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09D	62.0 - 72.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28S	2.0 - 12.0	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
BBMW-28I	10.0 - 20.0	0	7	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
BBMW-29	2.0 - 9.0	0	0	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
BBMW-30S	2.0 - 10.0	0	0	0	0	4	0	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	0	0	0	0	0	1	5	--	0	0	--	--	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	0	0	0	0	0	0	2	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	--	--	--	0	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	--	--	--	0	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	0	0	0	0	0	0	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	0	0	0	0	0	0	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	0	0	0	0	0	0	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-33	7.0 - 12.0	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
BW-UST-10	5.0 - 10.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-11	5.0 - 10.0	0	--	--	--	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-28	5.0 - 10.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-29	5.0 - 10.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	992	1,285	682	689	704	876	0	0	0	0	0	4	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
IP-16A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0	0	0	4	0	0	0	0	0
IP-16B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	43	2	0	16	0	0	0	5	0	--
IP-18A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	--	0	--	--
IP-18B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	12	0	0	0	--	--
IP-20A	14.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17	0	0	284	5	0	0	2	0	0
IP-20B	24.0 -25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	95	0	220	27	0	0	26	41	0	0
MW-01S	4.0 -14.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01D	35.0 - 45.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02S/S-R	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02I/I-R	22.5 - 23.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	3	--	--	--	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-04	5.1 - 15.1	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-08W	5.0 - 10.0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	0	0	0	1	2	8	37	38	3	0	0	--	2	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-12W	2.0 - 10.0	0	0	0	0	0	47	0	0	7	52	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-13W	2.0 - 10.0	--	0	0		0	--	--	--	--	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29D	14.0 - 19.0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																													
		Sampling Date																													
		2011				2012				2013				2014				2015				2016				2017					
Mar-Apr	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
MW-30W/W-R	2.0 - 9.0	0	0	0	0	0	1	0	--	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--
MW-32W/W-R	2.0 - 9.0	0	0	29	39	14	3	0	16	0	0	0	0	0	0	0	0	2	0	0	--	--	--	0	--	--	--	--	--	--	--
MW-34S	2.0 - 10.0	112	78	229	179	284	196	120	134	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-34I	18.5 - 19.5	150	234	832	598	869	696	8	23	0	7	1	0	26	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-34D	27.5 - 28.5	0	0	306	290	40	281	82	0	0	11	0	37	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-34DD	27.5 - 28.5	--	--	--	--	0	--	--	0	--	0	0	0	0	0	0	0	0	0	--	--	--	12	--	--	--	--	--	0	--	--
MW-37W	2.0 - 10.0	--	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-39W	2.0 - 10.0	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-46W/W-R	2.0 - 10.0	195	103	92	51	27	95	3	1	0	0	0	2	0	0	0	0	0	0	--	--	--	11	--	--	--	--	--	--	--	--
MW-64	19.0 - 24.0	1,067	995	1,183	516	500	2,199	2,168	1,134	648	370	267	0	598	193	22	563	39	4	312	0	0	4	0	0	15	6	1	0	0	
MW-65	11.0 - 16.0	0	0	0	1,415	1,268	299	208	201	76	3	20	57	24	22	23	20	27	1	10	0	14	8	--	--	--	--	0	0		
MW-66S	1.5 - 11.5	0	0	0	0	0	0	0	--	0	0	--	0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-66D	24.0 - 29.0	0	0	0	0	0	0	0	--	0	0	--	0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-67S	2.5 - 12.5	--	--	--	--	0	--	--	--	--	0	--	0	0	0	0	0	1	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	--	--	0	--	--	--	--	0	--	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	182	222	319	257	295	243	264	40	1	0	0	1	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-73	2.0 - 12.0	37	190	175	171	16	183	123	89	31	92	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--
MW-73I	22.0-27.0	--	--	698	131	96	134	120	130	80	95	124	0	0	0	0	2	0	0	0	0	0	0	--	--	--	0	--	--	--	--
MW-75	2.0 - 12.0	0	0	765	10	0	0	395	114	1	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-75I	22.0-27.0	--	--	656	656	3,289	469	670	837	230	105	176	8	10	3	0	0	0	0	0	--	--	0	--	--	--	--	0	--	--	--
MW-76	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-78	5.0 - 20.0	58	0	37	155	264	1	527	476	176	744	743	4	0	0	3	0	0	0	0	0	0	0	0	0	0	0	2	0	0	
MW-79	5.0 - 20.0	32	0	623	6	443	5	1,206	838	246	894	474	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MW-80	5.0 - 20.0	215	0	640	14	79	487	229	275	223	121	188	0	11	0	24	0	0	6	56	0	0	0	0	0	0	0	0	0	0	
MW-81	5.0 - 20.0	86	0	463	5	126	563	850	784	27	107	205	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-82	5.0 - 20.0	50	0	326	182	522	319	0	341	74	74	180	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-83	5.0 - 20.0	11	7	23	0	242	249	5	78	0	6	0	0	7	3	7	24	0	0	2	5	0	8	--	--	--	--	--	--	--	--
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	0	0	0	0	88	31	2	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MWBS-02I	14.5 - 15.5	0	0	0	0	5	5	14	14	0	0	0	8	0	0	0	0	0	15	--	--	--	0	--	--	--	--	--	--	--	--
MWBS-02D	24.5 - 25.5	0	0	0	0	0	174	160	3	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	34	160	17	100	110	35	28	12	19	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	40	57	368	33	13	28	252	21	0	611	5	209	1	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	69	25	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	0	2	24	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	0	0	32	690	297	134	804	402	0	26	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	0	6	195	126	0	1	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	--	--	--	0	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	6	12	0	0	0	0	3	7	10	156	29	0	0	0	0	0	0	0	--	--	--	0	--	--	--					

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

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)																											
		Sampling Date																											
		2011				2012				2013				2014				2015				2016				2017			
		Mar-Apr	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
OU3MW-07I2	20.0 - 25.0	91	654	695	257	1,020	517	6	5	1	1	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-07I3	25.0 - 30.0	--	--	--	--	1,800	0	3	0	0	3	0	0	0	0	0	0	3	0	0	0	0	0	0	0	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	2
OU3MW-08S	2.0-12.0	449	0	855	0	376	360	206	153	397	28	285	468	383	247	217	155	227	0	194	195	61	71	323	123	121	82	237	47
OU3MW-08I	25.0-30.0	0	0	0	0	0	2	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2.0-12.0	0	0	61	3	0	0	4	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	
OU3MW-09I	25.0-30.0	1,528	1,207	1,765	1,973	1,263	331	259	525	267	283	184	121	123	55	101	154	308	60	121	184	57	256	135	150	132	214	143	242
OU3MW-09I2	35.0-40.0	--	--	0	2	3	2	4	2	2	9	2	2	1	1	0	1	2	1	0	--	--	0	--	--	--	2	--	--
OU3MW-10S	2.0-12.0	240	225	123	0	42	51	16	3	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	0	--	--	
OU3MW-10I	25.0-30.0	0	0	0	30	116	28	85	79	0	120	121	105	97	132	44	48	102	62	29	12	56	--	14	3	9	22	4	4
OU3MW-11S	2.0-12.0	0	0	0	0	2	0	0	--	--	0	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-11I	25.0-30.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12S	2.0-12.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-12I	25.0-30.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-13S	2.0-12.0	--	--	117	55	1,244	13	268	720	600	662	262	0	0	89	0	0	77	5	0	0	0	0	0	22	0	0	0	3
OU3MW-14S	2.0-12.0	--	--	785	579	641	660	612	661	413	380	778	3	2	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-15S	2.0-12.0	--	--	377	113	19	0	277	260	4	12	282	3	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-16S	2.0-12.0	--	--	9	110	140	220	191	120	263	161	0	8	61	94	334	486	204	45	8	211	142	261	122	55	72	121	0	34
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
OU3MW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	17	61	0	--	0	4	17	2	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
OU3MW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	23	11	1	2	4	11	0	0	6	0	0	0	1	0	0	1	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
OU3MW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	0	6	0	0	102	2	0	0	0	0	0	0	0	0	0	0	4	0
OU3MW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-21I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-21I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	0	14	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
OU3MW-22I/IP-15A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	379	22	0	0	0	0	0	0	0	--	--
OU3MW-22I2/IP-15B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	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
OU3MW-23I2/IP-17A	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	132	21	12	0	--	0	0	0	0	2	0
OU3MW-24I/IP-19A	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	165	1	1	3	2	1	0	0	0	0	3
OU3MW-24I2/IP-19B	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	300	255	0	16	0	18	0	0	0	0	0
PDMW-01	5.0 - 20.0	0	4	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	0	0	6	1	1	0	9	0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
SV-02I	22.0-27.0	--	--	1,075	133	104	618	626	1,688	386	68	51	3	0	0	109	23	0	0	6	1	0	0	0	0	0	--	--	0
SV-02I2	35.0-40.0	--	--	0	0	0	5	5	0	0	0	0	0	0	0	0	0	0	6	--	--	--	0	--	--	--	0	--	--
SV-03	2.0 - 12.0	0	0	0	6	11	17	39	8	6	1	6	5	0	0	1	3	0	0	--	--	--	0	--	--	--	--	--	--
TMW-1I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-1I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-2I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I	12.0 - 17.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TMW-3I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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																						
		2018				2019				2020				2021				2022						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	99	7	--	--		
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	150	17	--	--		
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--		
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	68	2	--	--		
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	7	0	--	--		
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	252	14	--	--		
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	--	--		
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1	--	--		
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	--	--		
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	--	--		
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	12	1	--	--		
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	--	--		
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	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	--	--		
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	69	4	--	--		
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	68	5	--	--		
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--		
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,285	175	--	--		
IP-16A	14.0 - 15.0	--	0	--	--	--	0	--	0	0	0	0	0	0	0	--	1	0	4	0	1	1		
IP-16B	24.0 -25.0	--	6.3	--	--	--	0	--	0	--	--	--	--	--	--	--	--	0	43	6	--	--		
IP-18A	14.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--		
IP-18B	24.0 -25.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	12	1	--	--		
IP-20A	14.0 - 15.0	0	64	0	0	0	0	--	0	0	0	0	0	0	0	--	0	0	284	15	0	0		
IP-20B	24.0 -25.0	0	2.6	0	--	--	0	--	--	--	93	--	1	0	130	0	6	0	220	31	34	34		
MW-01S	4.0 -14.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	--	--		
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	263	16	--	--		
MW-02S/S-R	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	21,640	2,517	--	--		
MW-02I/I-R	22.5 - 23.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6,478	278	--	--		
MW-03	4.94 - 14.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	103	30	--	--		
MW-04	5.1 - 15.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	99	9	--	--		
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--		
MW-11W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	861	75	--	--		
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	52	3	--	--		
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--		
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	3	3	--	--		
MW-16SR	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	38,045	2,885	--	--		
MW-16I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	57	5	--	--		
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11	11	11	--	--		
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	--	--		
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	1	--	--		
MW-29S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	516	12	--	--		
MW-29D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	--	--		

Table 4-12. OU-3 Summary of Historical Total BTEX Groundwater Analytical Results
Quarterly 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																						
		2018				2019				2020				2021				2022						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
MW-30W/W-R	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,300	52	--	--		
MW-32W/W-R	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,435	117	--	--		
MW-34S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,604	217	--	--		
MW-34I	18.5 - 19.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	869	101	--	--		
MW-34D	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	306	23	--	--		
MW-34DD	27.5 - 28.5	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	12	1	--	--		
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	--	--		
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--		
MW-45W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,676	119	--	--		
MW-46W/W-R	2.0 - 10.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4,156	312	--	--		
MW-64	19.0 - 24.0	8	0	11	172	0	0	0	147	0	7	103	0	0	12	0	4	0	2,199	177	4	4		
MW-65	11.0 - 16.0	--	11	--	0	0	0	4	0	2	0	0	0	3	--	0	0	12	1,415	58	4	4		
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	--	--		
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	--	--		
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	--	--		
MW-67D	24 - 29 ft	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--		
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--		
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	--	--		
MW-70/70S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,720	94	--	--		
MW-73	2.0 - 12.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	0	1,800	442	--	--		
MW-73I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	698	77	--	--		
MW-75	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,890	375	--	--		
MW-75I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3,289	374	--	--		
MW-76	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	142	15	--	--		
MW-78	5.0 - 20.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	0	1,439	201	--	--		
MW-79	5.0 - 20.0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--	0	6,015	386	--	--		
MW-80	5.0 - 20.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	0	2,500	594	--	--		
MW-81	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,700	576	--	--		
MW-82	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3,090	356	--	--		
MW-83	5.0 - 20.0	--	--	--	--	0	0	0	0	0	0	0	0	0	--	0	0	1	0	249	30	0	0	
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	64	22	--	--		
MWBS-02S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	274	40	--	--		
MWBS-02I	14.5 - 15.5	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	696	53	--	--		
MWBS-02D	24.5 - 25.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	254	20	--	--		
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	979	289	--	--		
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	621	281	--	--		
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	134	21	--	--		
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	--	--		
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--		
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--		
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	160	21	--	--		
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	611	66	--	--		
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	69	6	--	--		
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	44	5	--	--		
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	804	95	--	--		
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	195	22	--	--		
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--		
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	--	--		
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	156	9	--	--		
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	10	1	--	--		
OU3MW-07S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	527	12	0	0		
OU3MW-07I	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	5	0	0		

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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																						
		2018				2019				2020				2021				2022						
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
OU3MW-07I2	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,020	68	0	0
OU3MW-07I3	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1,800	44	0	0
OU3MW-07I4	35.0 - 40.0	2	0	0	0	0	2	0	0	0	9	0	10	0	0	0	2	0	0	0	10	1	0	0
OU3MW-08S	2.0-12.0	10	0	0	10	144	0	0	115	7	499	25	10	52	222	81	173	155	0	855	175	158	158	
OU3MW-08I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	--	--	
OU3MW-09S	2.0-12.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	345	15	--	--	
OU3MW-09I	25.0-30.0	204	84.3	224	82	109	88	101	174	71	15	14	0	1	3	4	3	4	0	1,973	321	4	4	
OU3MW-09I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	9	2	--	--	
OU3MW-10S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	417	70	--	--	
OU3MW-10I	25.0-30.0	88	14	0	24	73	2	0	2	30	0	0	17	0	2	2	1	4	0	132	35	2	2	
OU3MW-11S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	1	--	--	
OU3MW-11I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
OU3MW-12S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
OU3MW-12I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
OU3MW-13S	2.0-12.0	0	0	0	0	0	0	--	--	--	0	--	--	0	0	--	0	0	0	1,244	112	0	0	
OU3MW-14S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	785	324	--	--	
OU3MW-15S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	377	79	--	--	
OU3MW-16S	2.0-12.0	11	34	0	98	18	64	35	66	7	51	0	6	0	0	1	7	3	0	486	90	3	3	
OU3MW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
OU3MW-17I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
OU3MW-17I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
OU3MW-18I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	52	6	--	--	
OU3MW-18I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	--	--	
OU3MW-19S	2.0 - 12.0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1,004	88	0	0	
OU3MW-19I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61	3	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	0	
OU3MW-20S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	2	0	0	
OU3MW-20I	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	421	21	0	0	
OU3MW-20I2	30.0 - 35.0	0	0	468	0	0	0	0	167	9	0	0	0	68	0	0	0	95	0	468	26	24	24	
OU3MW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
OU3MW-21I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	
OU3MW-21I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	14	2	--	--	
OU3MW-22I/IP-15A	10.0 - 15.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	0	379	36	--	--	
OU3MW-22I2/IP-15B	25.0 - 30.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	--	--	
OU3MW-23I/IP-17B	10.0 - 15.0	0	0	2	1	0	0	0	0	0	0	--	--	0	1	--	0	0	0	388	32	0	0	
OU3MW-23I2/IP-17A	25.0 - 30.0	0	0	0	0	--	0	--	--	--	0	--	--	--	--	--	--	--	0	132	10	--	--	
OU3MW-24I/IP-19A	10.0 - 15.0	0	0	0	0	0	0	--	--	--	0	--	--	0	0	--	--	--	0	165	9	0	0	
OU3MW-24I2/IP-19B	25.0 - 30.0	2	0	0	0	0	0	0	66	0	0	0	0	0	0	0	0	0	0	300	23	0	0	
PDMW-01	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	13,000	491	--	--	
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,130	5,848	2,421	--	--	
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,619	2,108	1,887	--	--	
SV-02	2.0 - 12.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	770	68	--	--	
SV-02I	22.0-27.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,688	196	--	--	
SV-02I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6	1	--	--	
SV-03	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	548	67	--	--	
TMW-1I	12.0 - 17.0	--	--	--	--	--	--	34	0	0	0	0	0	0	0	0	0	13	0	34	4	3	3	
TMW-1I2	25.0 - 30.0	--	--	--	--	--	--	318	11	0	0	0	0	5	2	0	9	37	0	318	35	12	12	
TMW-2I	12.0 - 17.0	--	--	--	--	--	--	0	0	0	0	0	--	0	0	0	--	0	0	0	0	0	0	
TMW-2I2	25.0 - 30.0	--	--	--	--	--	--	157	64	25	--	101	10	17	55	1	0	38	0	157	47	24	24	
TMW-3I	12.0 - 17.0	--	--	--	--	--	--	0	18	0	--	0	77	14	5	0	9	10	0	77	13	6	6	
TMW-3I2	25.0 - 30.0	--	--	--	--	--	--	56	0	21	0	0	--	0	0	0	1	0	0	56	8	0	0	

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
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Operable Unit Area				Upgradient Area (Brightwaters Yard)											
Aquifer Zone				Shallow								Intermediate			
Operable Unit				OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name				OU3MW-08S	OU3MW-08S	OU3MW-08S	OU3MW-08S	OU3MW-16S	OU3MW-16S	OU3MW-16S	OU3MW-16S	OU3MW-09I	OU3MW-09I	OU3MW-09I	OU3MW-10I
Start Depth				2	2	2	2	2	2	2	2	25	25	25	25
End Depth				12	12	12	12	12	12	12	12	30	30	30	30
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				8/5/2021	10/4/2021	2/3/2022	6/2/2022	8/5/2021	10/4/2021	2/3/2022	6/2/2022	8/5/2021	10/5/2021	2/8/2022	6/14/2022
Parent Sample Code															
Analyte	Units	CAS no.	NYS AWQS												
BTEX	µg/L														
Benzene		71-43-2	1	290	160	150	120	0.38 J	0.47 J	4.1	0.97 J	0.85 J	0.47 J	2.1	1.7
Toluene		108-88-3	5	160	31	78	38	1 U	1 U	1.3	1 U	10	9.3	74	71
Ethylbenzene		100-41-4	5	1,300	640	540	420	1 U	0.43 J	23	11	3.9	2.5	21	19
Total Xylene		1330-20-7	5	990	390	480	260	2 U	0.92 J	8.6	4.1	12	12	71	77
Total BTEX (ND=0)		TBTEX_ND0	NE	2,740	1,221	1,248	838	0.38	1.82	37	16.07	26.75	24.27	168.1	168.7
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	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U*	1 U
Chrysene		218-01-9	0.002*	2 U	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
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 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	2 J	1.4 J	2.8 J	4.7 J	10 U	10 U	10 U	10 U	0.63 J	0.85 J	0.57 J	10 U
Naphthalene		91-20-3	10*	220	80	170	150	2 U	1.3 J	6.9	2.9	2.6	3.3	2.9	4.1
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	222	81.4	172.8	154.7	ND	1.3	6.9	2.9	3.23	4.15	3.47	4.1

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

Operable Unit Area				Upgradient Area (Brightwaters Yard)			Sheeting Cell Areas (Southern Brightwaters Yard and LIRR ROW)										
Aquifer Zone				Intermediate													
Operable Unit				OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3		
Sample Name				OU3MW-10I	OU3MW-10I	OU3MW-10I	IP-16A	IP-16A	IP-20A	IP-20A	IP-20B	IP-20B	IP-20B	IP-20B	IP-20B		
Start Depth				25	25	25	14	14	14	14	24	24	24	24	24		
End Depth				30	30	30	15	15	15	15	25	25	25	25	25		
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft		
Sample Date				10/4/2021	2/8/2022	6/14/2022	8/10/2021	5/10/2022	5/10/2022	8/10/2021	8/5/2021	11/1/2021	2/7/2022	5/10/2022	8/10/2021	2/7/2022	
Parent Sample Code																	
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	2.4	1 U	1 U	1 U	16		
Toluene		108-88-3	5	1 U	1 U	2.6	1 U	0.75 J	1 U	1 U	69	1 U	2.6	3.7	8.8		
Ethylbenzene		100-41-4	5	4.1	5.3	11	1 U	7.2	1 U	1 U	300	0.39 J	39	5	2 J		
Total Xylene		1330-20-7	5	4.8	4.2	6.3	2 U	6	2 U	2 U	480	1.6 J	69	3.4	17		
Total BTEX (ND=0)		TBTEX_ND0	NE	8.9	9.5	19.9	ND	13.95	ND	ND	851.4	1.99	110.6	12.1	43.8		
PAH17	µg/L																
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4.1 J	10 U	3.6 J	10 U	10 U		
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U		
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Benzo(a)pyrene		50-32-8	ND	1 U	1 U*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U		
Chrysene		218-01-9	0.002*	2 U	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		
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.2 J	10 U	0.97 J	10 U	10 U		
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U		
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	15	10 U	1.1 J	10 U	10 U		
Naphthalene		91-20-3	10*	1.9 J	0.8 J	4	2 U	1.3 J	2 U	2 U	110	2 U	0.78 J	2 U	0.55 J		
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U		
Total PAH (17) (ND=0)		TPAH17_ND0	NE	1.9	0.8	4	ND	1.3	ND	ND	130.3	ND	6.45	ND	0.55		

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

Operable Unit Area				Sheeting Cell Areas (Southern Brightwaters Yard and LIRR ROW)											
Aquifer Zone								Intermediate							
Operable Unit				OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name				OU3MW-23I/IP-17B	DUP-04	OU3MW-24I/IP-19A	OU3MW-24I2/IP-19B	OU3MW-24I2/IP-19B	OU3MW-24I2/IP-19B	OU3MW-24I2/IP-19B	TMW-1I	TMW-1I	TMW-1I	TMW-1I	TMW-1I2
Start Depth				10	10	10	25	25	25	25	12		12	12	25
End Depth				15	15	15	30	30	30	30	17		17	17	30
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft		ft	ft	ft
Sample Date				5/10/2022	5/10/2022	8/10/2021	8/5/2021	11/1/2021	2/7/2022	5/10/2022	8/5/2021	10/5/2021	2/8/2022	6/1/2022	8/5/2021
Parent Sample Code					OU3MW-23I/IP-17B										
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	0.86 J	2.4	0.22 J	1.5	0.68 J
Toluene		108-88-3	5	1 U	1 U	1 U	0.39 J	0.46 J	0.68 J	1 U	0.79 J	2.3	1 U	18	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	17	3.4	3.8	1 U	32	58	1.7	82	0.56 J
Total Xylene		1330-20-7	5	2 U	2 U	2.3	11	6.1	2.5	2 U	31	85	1 U	120	4.6
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	ND	2.3	28.39	9.96	6.98	ND	64.65	147.7	1.92	221.5	5.84
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	2.3 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
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U*	1 U	1 U
Chrysene		218-01-9	0.002*	2 U	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
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 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
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	13	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	13	2.3

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

Operable Unit Area				Sheeting Cell Areas (Southern Brightwaters Yard and LIRR ROW)											
Aquifer Zone				Intermediate											
Operable Unit				OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name				TMW-112	TMW-112	TMW-2I	TMW-2I	TMW-2I	TMW-2I2	TMW-2I2	TMW-2I2	DUP-08	TMW-2I2	TMW-3I	TMW-3I
Start Depth				25	25	12	12	12	25	25	25	25	25	12	12
End Depth				30	30	17	17	17	30	30	30	30	30	17	17
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				2/8/2022	6/1/2022	6/1/2022	8/9/2021	10/5/2021	8/9/2021	10/5/2021	3/3/2022	3/3/2022	6/1/2022	8/6/2021	10/5/2021
Parent Sample Code												TMW-2I2			2/8/2022
Analyte	Units	CAS no.	NYS AWQS												
BTEX	µg/L														
Benzene		71-43-2	1	1.1	2.9	1 U	1 U	0.48 J	2.8	0.91 J	1.7	1.7	1.5	1 U	0.42 J
Toluene		108-88-3	5	12	250	1 U	1 U	0.53 J	0.54 J	0.7 J	2.2	2.1	20	1.4	1
Ethylbenzene		100-41-4	5	16	360	0.33 J	0.55 J	1.8	33	13	19	18	110	22	1
Total Xylene		1330-20-7	5	43	590	2 U	2 U	1 U	34	4.6	10 J	8.7 J	120	21	0.7 J
Total BTEX (ND=0)		TBTEX_ND0	NE	72.1	1,202.90	0.33	0.55	2.81	70.34	19.21	32.9	30.5	251.5	44.4	3.12
PAH17	µg/L														
Acenaphthene		83-32-9	20*	3.4 J	6.6 J	10 U	10 U	10 U	3.1 J	1.4 J	10 U	10 U	1.7 J	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U*
Chrysene		218-01-9	0.002*	2 U	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
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	1.5 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 UJ	2 UJ	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	1.2 J	10 U	10 UJ	10 U	2.2 J	10 U	10 U
Naphthalene		91-20-3	10*	5.3	30	2 U	2 U	2 U	49	2 U	2 UJ	2 U	34	5	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	8.7	36.6	ND	ND	ND	54.8	1.4	ND	ND	37.9	5	ND

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

Operable Unit Area				Sheeting Cell Areas (Southern Brightwaters Yard and LIRR ROW)						Downgradient of the LIRR ROW					
Aquifer Zone				Intermediate						Shallow					
Operable Unit				OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name				TMW-3I	TMW-3I2	DUP-04	TMW-3I2	TMW-3I2	TMW-3I2	MW-83	MW-83	MW-83	OU3MW-07S	OU3MW-07S	OU3MW-07S
Start Depth				12	25	25	25	25	25	5	5	5	3	3	3
End Depth				17	30	30	30	30	30	20	20	20	13	13	13
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				6/1/2022	8/6/2021	8/6/2021	10/5/2021	2/8/2022	6/1/2022	12/21/2021	1/26/2022	6/30/2022	7/13/2021	10/6/2021	2/2/2022
Parent Sample Code				TMW-3I2											
Analyte	Units	CAS no.	NYS AWQS												
BTEX	µg/L														
Benzene		71-43-2	1	0.5 J	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	0.67 J	1 U	1 U	0.91 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	42	0.34 J	0.36 J	5.9	1.8	0.4 J	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	20	2 U	2 U	3.7	1.1	1 U	2 U	2 U	2 U	2 U	1 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	63.17	0.34	0.36	10.51	2.9	0.4	ND	ND	ND	ND	ND	ND
PAH17	µg/L														
Acenaphthene		83-32-9	20*	1.5 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U*	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	2 U	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
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 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
Naphthalene		91-20-3	10*	8.4	2 U	2 U	2 U	0.83 J	2 U	2 U	2 U	0.73 J	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	9.9	ND	ND	ND	0.83	ND	ND	ND	0.73	ND	ND	ND

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

Operable Unit Area				Downgradient of the LIRR ROW												
Aquifer Zone				Shallow											Intermediate	
Operable Unit				OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name				OU3MW-13S	OU3MW-13S	OU3MW-13S	OU3MW-19S	OU3MW-19S	OU3MW-19S	OU3MW-19S	OU3MW-20S	OU3MW-20S	OU3MW-20S	OU3MW-20S	OU3MW-07I	OU3MW-07I
Start Depth				2	2	2	2	2	2	2	2	2	2	2	15	15
End Depth				12	12	12	12	12	12	12	12	12	12	12	20	20
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				8/10/2021	2/7/2022	6/14/2022	8/2/2021	10/19/2021	1/13/2022	5/9/2022	8/2/2021	10/19/2021	1/19/2022	5/9/2022	7/13/2021	10/6/2021
Parent Sample Code																
Analyte	Units	CAS no.	NYS AWQS													
BTEX	µg/L															
Benzene		71-43-2	1	5.9	1 U	1.5	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	1.5	1.4	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	37	1 U	1.5	4	3.1	1.7	1.1	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	66	2 U	2.2	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U
Total BTEX (ND=0)		TBTEX_ND0	NE	108.9	ND	5.2	4	3.1	1.7	1.1	1.5	1.4	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
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	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	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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

Operable Unit Area				Downgradient of the LIRR ROW												
Aquifer Zone				Intermediate												
Operable Unit				OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name				OU3MW-071	DUP-06	OU3MW-071	OU3MW-0712	OU3MW-0712	OU3MW-0712	OU3MW-0712	OU3MW-0713	OU3MW-0713	OU3MW-0713	OU3MW-0714	OU3MW-0714	OU3MW-0714
Start Depth				15	15	15	20	20	20	20	25	25	25	35	35	35
End Depth				20	20	20	25	25	25	25	30	30	30	40	40	40
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				2/2/2022	2/2/2022	4/7/2022	7/13/2021	10/6/2021	2/2/2022	4/7/2022	7/13/2021	2/2/2022	4/7/2022	7/13/2021	10/6/2021	2/2/2022
Parent Sample Code					OU3MW-071											
Analyte	Units	CAS no.	NYS AWQS													
BTEX	µg/L															
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	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	1 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	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
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	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 UJ	1 UJ	1 U	1 U	1 U	1 UJ	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
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	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1.9 J
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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9

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

Operable Unit Area				Downgradient of the LIRR ROW											
Aquifer Zone				Intermediate											
Operable Unit				OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name				OU3MW-0714	MW-64	MW-64	MW-64	MW-64	MW-64	MW-65	MW-65	MW-65	OU3MW-19I	OU3MW-19I	OU3MW-19I
Start Depth				35	19	19	19	19	19	11	11	11	20	20	20
End Depth				40	24	24	24	24	24	16	16	16	25	25	25
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				4/7/2022	7/13/2021	7/30/2021	12/21/2021	2/7/2022	6/9/2022	12/21/2021	1/25/2022	6/14/2022	8/2/2021	10/19/2021	1/13/2022
Parent Sample Code															
Analyte	Units	CAS no.	NYS AWQS												
BTEX	µg/L														
Benzene		71-43-2	1	1 U	0.77 J	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	8.3	1 U	1 U	0.61 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	87	14 J	1 U	13	1 U	1 U	1 U	5.9	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	48	25 J	1.3 J	18	2 U	2 U	2 U	7.7	2 U	2 U	2 U
Total BTEX (ND=0)		TBTEX_ND0	NE	ND	144.07	39	1.3	31.61	ND	ND	ND	13.6	ND	ND	ND
PAH17	µg/L														
Acenaphthene		83-32-9	20*	10 U	1.3 J	1.8 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene		120-12-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 UJ	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
Dibenz(a,h)anthracene		53-70-3	NE	1 U	1 U	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 UJ	2 U	2 U	2 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	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	15	9.7	2 U	1.5 J	2 U	2 U	2 U	12	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	16.3	11.5	ND	3.5	ND	ND	ND	12	ND	ND	ND

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

Operable Unit Area				Downgradient of the LIRR ROW											
Aquifer Zone				Intermediate											
Operable Unit				OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Sample Name				OU3MW-19I2	OU3MW-19I2	OU3MW-19I2	DUP-03	OU3MW-19I2	OU3MW-20I	OU3MW-20I	OU3MW-20I	OU3MW-20I	OU3MW-20I2	OU3MW-20I2	OU3MW-20I2
Start Depth				30	30	30	30	30	20	20	20	20	30	30	30
End Depth				35	35	35	35	35	25	25	25	25	35	35	35
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				8/2/2021	10/19/2021	1/13/2022	1/13/2022	5/9/2022	8/5/2021	10/19/2021	1/19/2022	5/9/2022	8/5/2021	10/20/2021	1/19/2022
Parent Sample Code							OU3MW-19I2								
Analyte	Units	CAS no.	NYS AWQS												
BTEX	µg/L														
Benzene		71-43-2	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene		108-88-3	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	0.41 J
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	5.3
Total Xylene		1330-20-7	5	1.5 J	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	5.3	2 U	0.88 J
Total BTEX (ND=0)		TBTEX_ND0	NE	1.5	ND	ND	ND	ND	ND	ND	ND	ND	5.3	ND	0.88
PAH17	µg/L														
Acenaphthene		83-32-9	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3.7 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
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(k)fluoranthene		207-08-9	0.002*	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(g,h,i)perylene		191-24-2	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chrysene		218-01-9	0.002*	2 U	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
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 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
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	91
Phenanthrene		85-01-8	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene		129-00-0	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	94.7

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

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)																					
		Sampling Date																					
		2002		2003			2004				2005				2006				2007				
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			
WCMW-01S	2.0 - 12.0	5	1	0	0	0	0	0	11	0	0	0	10	0	0	0	23	0	0	0	13	9	
WCMW-01I	35.0 - 45.0	0	0	0	0	0	--	0	0	--	0	--	--	--	0	--	--	--	0	--	0	1	
WCMW-01D	64.0 - 74.0	0	0	--	0	--	--	0	0	--	--	--	--	0	--	--	--	0	--	0	2		
WCMW-02S	3.0 - 13.0	6	0	0	0	0	0	0	0	--	0	--	--	--	0	0	0	0	0	0	4	6	
WCMW-02I	34.5 - 44.5	µg/L	0	0	0	0	--	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	--	10	12	25	0	10	25	14	0	42	14	23	10	--	0	22	20	0	12	32	0	
WCMW-03I	19.4 - 24.4	--	0	0	0	0	0	0	0	0	0	--	--	0	--	0	--	--	--	0	0		
WCMW-03I2	28.55 - 33.55	--	0	0	0	0	0	0	0	0	0	--	--	0	--	0	--	--	--	0	0		
WCMW-04S	1.6 - 11.6	--	33	0	15	16	12	0	10	40	0	16	0	0	11	10	31	16	0	12	23	25	
WCMW-04I	19.0 - 24.0	--	0	0	0	0	0	0	0	--	0	--	--	0	--	--	--	0	--	--	0	0	
WCMW-04I2	29.85 - 34.85	--	0	--	0	0	--	0	0	0	0	--	--	0	--	--	--	0	0	--	0	0	
WCMW-05S	1.15 - 11.15	--	0	0	0	0	0	0	0	0	0	--	--	0	--	0	--	--	0	0	0	0	
WCMW-05I	19.61 - 24.61	--	0	0	0	0	0	0	0	--	0	--	--	0	--	0	--	--	--	--	0	0	
WCMW-05I2	29.46 - 34.46	--	0	0	0	0	--	0	0	0	0	--	--	0	--	0	--	--	--	--	0	0	
WCMW-06S	2.0 - 12.0	--	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		
WCMW-06I2	29.83 - 34.83	--	0	--	0	0	--	0	0	--	--	--	--	--	--	--	--	--	--	--	0	0	
WCMW-07S	2.76 - 12.76	--	0	0	0	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--		
WCMW-07I	18.9 - 23.9	--	0	--	0	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--		
WCMW-07I2	28.95 - 33.95	--	0	--	0	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--		
WCMW-08S	4.2 - 9.2	--	0	0	0	0	--	0	0	--	--	--	--	--	0	--	--	--	--	--	0	0	
WCMW-08I	19.2 - 24.2	--	0	--	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	0	0	
WCMW-08I2	26.9 - 31.9	--	0	--	0	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	0	0		
WCMW-10D	40.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	--	1	0	
WCMW-11S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	80	--	148	--	--	--	--		
WCMW-11I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	--	--	--	--		
WCMW-11D	50.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	--	--	--	--		
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		

Table 4-14. OU-4 Summary of Expanded Groundwater Analytical Results
Quarterly 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				2006				2007			
		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
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-14. OU-4 Summary of Expanded Groundwater Analytical Results
Quarterly 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				2012			
		Jan-Mar	Apr-Jun	Jul-Sep	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	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
WCMW-01S	2.0 - 12.0	2	0	12	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	0	0	0	--	--	--	--	--	--	--
WCMW-01D	64.0 - 74.0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--
WCMW-02S	3.0 - 13.0	0	0	2	0	0	0	0	5	0	0	0	3	9	0	0	19	6	0	0	0
WCMW-02I	34.5 - 44.5	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0
WCMW-03S	4.83 - 9.83	20	21	25	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	0	0	0	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	0	0	0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--
WCMW-04S	1.6 - 11.6	6	22	24	26	21	34	10	2	6	12	32	25	30	11	2	3	0	0	0	0
WCMW-04I	19.0 - 24.0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	14	9	4	13	24	17
WCMW-04I2	29.85 - 34.85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	4	2
WCMW-05S	1.15 - 11.15	0	0	0	0	1	0	0	1	2	3	0	0	3	2	2	0	3	1	0	0
WCMW-05I	19.61 - 24.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	9	10	8	8
WCMW-05I2	29.46 - 34.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
WCMW-06S	2.0 - 12.0	0	0	0	0	0	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	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	0	0	0	0	0	0	--
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--
WCMW-08S	4.2 - 9.2	0	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--
WCMW-08I	19.2 - 24.2	0	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--
WCMW-08I2	26.9 - 31.9	0	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--
WCMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
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	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	0
WCMW-11S	5.0 - 15.0	--	53	--	--	--	53	36	2	23	--	12	16	27	30	75	--	37	17	10	--
WCMW-11I	25.0 - 35.0	--	0	--	--	--	0	0	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	0	--	0	0	0	--
WCMW-12S	3.0 - 13.0	0	0	0	0	0	0	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	0	0	0	0	0	0	0	--
WCMW-12D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	--
WCMW-13S	3.0 - 13.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	17	3	10	12
WCMW-13I	25.0 - 30.0	0	0	0	0	0	0	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	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	0	0	0	0	1	0	0	0
WCMW-14I	20.0 - 25.0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	2.5
WCMW-14I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--

Table 4-14. OU-4 Summary of Expanded Groundwater Analytical Results
Quarterly 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				2012			
		Jan-Mar	Apr-Jun	Jul-Sep	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	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
WCMW-14D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--
WCMW-16S	2.0 - 12.0	0	0	0	0	0	2	0	9	0	0	0	0	0	--	--	--	--	--	--	--
WCMW-16I	20.0 - 25.0	0	0	0	0	0	1	0	0	0	0	0	0	0	--	--	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	0	0	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	0	0	0	0	--
WCMW-19I	20.0 - 25.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	--
WCMW-19I2	30.0 - 35.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	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	--	--	--	--	--	--	--	0	--	--	--
WCMW-22I	25.0 - 30.0	--	--	--	--	--	--	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	0	0	0	0	--
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	--
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	44	78	--	35	114	21	19	47	--	45	60	67	--
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	0	0	--	0	0	0	0	0	--	0	2	0	--
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	0	0	--	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	--	152	62	54	--
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	--	0	0	0	--
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	13	26	30
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	1	0	2
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0

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

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)																			
		Sampling Date																			
		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
WCMW-01S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02D	62.0 - 72.0	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	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19.0 - 24.0	17	16	12	9	8	13	8	8	8	7	7	11	4	0	4	10	1	6	5	3
WCMW-04I2	29.85 - 34.85	0	3	6	2	1	0	0	0	0	0	--	--	--	0	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	2	0	0	0	0	0	0	--	--	--	--	--	--	0	--	--	--	--	--	--
WCMW-05I	19.61 - 24.61	5	8	9	4	4	4	4	4	0	1	1	0	0	0	0	0	0	0	3	2
WCMW-05I2	29.46 - 34.46	0	0	0	0	0	0	0	0	0	0	--	0	0	0	0	0	--	0	--	2
WCMW-06S	2.0 - 12.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08I	19.2 - 24.2	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	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	6	2	4	2	8	15	9	3	1	20	0	0	--	--	--	--	--	--	--	--
WCMW-11I	25.0 - 35.0	0	0	7	8	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--
WCMW-11D	50.0 - 60.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12S	3.0 - 13.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12D	67.0 - 72.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3.0 - 13.0	0	0	0	0	9	1	1	6	0	0	1	0	0	0	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	0	0	0	0	0	0	0	3	0	0	0	--	0	0	0	0	0	0	1	0
WCMW-14I	20.0 - 25.0	1	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	0
WCMW-14I2	30.0 - 35.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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

Well ID	Screen Interval (feet bgs)	Total BTEX Groundwater Concentration (µg/L)																			
		Sampling Date																			
		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
WCMW-14D	67.0 - 72.0	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WLT	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20.0 - 25.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30.0 - 35.0	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55.0 - 60.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26S	2.0 - 12.0	7	4	68	205	64	31	29	0	15	87	261	256	--	--	--	--	--	--	--	--
WCMW-26I	20.0 - 25.0	0	0	0	0	1	0	0	169	0	0	0	0	--	--	--	--	--	--	--	--
WCMW-26I2	30.0 - 35.0	--	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	154	182	22	19	77	58	68	28	185	88	38	18	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	--	0	--	0	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	14	21	18	13	17	10	13	21	4	15	14	16	3	9	8	7	0	2	6	3
WCMW-30I2	30.0 - 35.0	0	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	4	0	0	0	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--	0

Table 4-14. OU-4 Summary of Expanded Groundwater Analytical Results
Quarterly 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)																		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date																						
		2018				2019				2020			2021				2022							
Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun								
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0			
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	9	1	0	0			
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0			
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0			
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	6	3	0	0			
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0			
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0			
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0			
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	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	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	0			
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	0			
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0			
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7	0	261	71	7	7			
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	169	8	0	0			
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0			
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	31	20	0	0			
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	96	18	185	79	96	96			
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0			
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0			
WCMW-30I	20.0 - 25.0	0	0	2	0	0	0	0	4	0	7	0	0.32	0	8	0	6	0	8	0	8			
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0			
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	1	0	0			
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0			
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0			
WCMW-32S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	--	0	0	--	0	0	0	0	0			

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

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Quarterly 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				2006				2007			
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		
WCMW-01S	2.0 - 12.0	33	756	24	10	117	0	19	228	240	0	51	298	14	0	10	340	130	78	291	203	345
WCMW-01I	35.0 - 45.0	2	2	0	0	0	--	0	0	--	0	--	--	--	0	--	--	--	0	--	0	0
WCMW-01D	64.0 - 74.0	45	35	--	0	--	--	0	0	--	--	--	--	--	0	--	--	--	0	--	0	0
WCMW-02S	3.0 - 13.0	79	125	0	0	62	0	0	44	--	15	--	--	--	0	0	30	0	0	0	77	101
WCMW-02I	34.5 - 44.5	µg/L	4	0	0	0	--	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	--	74	393	419	481	34	293	458	350	235	171	800	376	--	242	339	233	198	240	305	44
WCMW-03I	19.4 - 24.4	--	268	1,120	1,100	1,004	1,243	1,261	1,395	1,182	1,532	--	--	1,423	--	1,770	--	--	--	--	255	315
WCMW-03I2	28.55 - 33.55	--	327	340	402	348	49	133	191	127	94	--	--	109	--	83	--	--	--	--	5	37
WCMW-04S	1.6 - 11.6	--	1,080	141	69	270	50	0	219	836	17	136	204	153	116	57	264	445	95	214	194	326
WCMW-04I	19.0 - 24.0	--	221	174	142	99	0	62	90	--	81	--	--	155	--	--	--	144	--	--	142	94
WCMW-04I2	29.85 - 34.85	--	0	--	0	0	--	0	17	95	0	--	--	0	--	--	--	0	--	--	0	0
WCMW-05S	1.15 - 11.15	--	0	31	0	0	0	10	0	14	12	--	--	0	--	0	--	--	0	0	3	3
WCMW-05I	19.61 - 24.61	--	156	329	243	215	298	227	245	--	276	--	--	338	--	286	--	--	--	--	242	287
WCMW-05I2	29.46 - 34.46	--	0	0	15	0	--	0	0	214	0	--	--	0	--	0	--	--	--	--	7	31
WCMW-06S	2.0 - 12.0	--	39	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	0	0	1	0
WCMW-06I	19.55 - 24.55	--	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	52	0
WCMW-06I2	29.83 - 34.83	--	0	--	0	0	--	0	0	--	--	--	--	--	--	--	--	--	--	--	0	11
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	--	--	--	--	--	0	--	--	--	--	--	0	0
WCMW-08I	19.2 - 24.2	--	0	--	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-08I2	26.9 - 31.9	--	0	--	0	0	--	0	0	--	--	--	--	0	--	--	--	--	--	--	0	0
WCMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	--	0	0
WCMW-10S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	21	0	0	0	0	0
WCMW-10D	40.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	--	--	0	0
WCMW-11S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	1,037	--	590	--	--	--	--	--
WCMW-11I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	--	--	--	--	--
WCMW-11D	50.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	--	--	--	--	--
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Quarterly 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				2006				2007			
		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
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-21I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Quarterly 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				2012			
		Jan-Mar	Apr-Jun	Jul-Sep	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	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
WCMW-01S	2.0 - 12.0	47	9	353	77	0	16	26	3	4	14	115	49	18	--	--	--	--	--	--	--
WCMW-01I	35.0 - 45.0	0	0	2	0	0	0	46	0	1	0	0	0	0	--	--	--	--	--	--	--
WCMW-01D	64.0 - 74.0	0	0	0	0	0	0	2	0	0	0	0	0	0	--	--	--	--	--	--	--
WCMW-02S	3.0 - 13.0	0	4	51	27	0	5	0	12	3	0	2	56	38	9	15	69	94	87	58	--
WCMW-02I	34.5 - 44.5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	--
WCMW-02D	62.0 - 72.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	1	0
WCMW-03S	4.83 - 9.83	122	12	102	239	243	358	419	237	501	6	327	363	1,532	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	939	134	290	1,107	142	1,146	994	1,743	1,127	1,332	1,213	1,101	6	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	6	0	25	24	0	2	5	15	0	535	0	9	8	--	--	--	--	--	--	--
WCMW-04S	1.6 - 11.6	186	72	337	332	43	16	272	197	204	227	251	390	369	262	315	132	98	60	22	20
WCMW-04I	19.0 - 24.0	70	66	96	100	33	108	101	46	15	30	97	130	95	44	174	432	411	251	198	199
WCMW-04I2	29.85 - 34.85	0	0	0	0	0	0	0	2	0	0	0	1	0	0	285	79	73	126	73	102
WCMW-05S	1.15 - 11.15	5	3	4	2	5	7	6	8	8	7	38	34	284	8	42	0	94	74	76	49
WCMW-05I	19.61 - 24.61	162	153	121	150	170	241	411	432	270	83	43	217	28	136	407	173	225	147	177	147
WCMW-05I2	29.46 - 34.46	0	0	39	63	0	48	5	0	0	0	19	30	0	0	778	264	306	266	112	199
WCMW-06S	2.0 - 12.0	0	4	0	0	0	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	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	0	0	0	0	0	0	--
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	--	--	--
WCMW-08S	4.2 - 9.2	0	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--
WCMW-08I	19.2 - 24.2	0	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--
WCMW-08I2	26.9 - 31.9	0	--	0	--	--	--	--	--	0	--	--	--	--	--	--	--	0	--	--	--
WCMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	0	0	0	0	0	0	0	5	0	0	--	--	--	--	--	--	--	--	--	0
WCMW-10D	40.0 - 50.0	0	0	0	0	0	0	0	3	0	0	--	--	--	--	--	--	--	--	--	0
WCMW-11S	5.0 - 15.0	--	705	--	--	--	624	637	238	159	--	496	1,350	386	1,286	1,258	--	375	392	266	--
WCMW-11I	25.0 - 35.0	--	0	--	--	--	0	10	1	20	--	0	62	36	5	182	--	61	188	318	--
WCMW-11D	50.0 - 60.0	--	0	--	--	--	0	0	0	2	--	0	0	0	0	0	--	0	0	0	--
WCMW-12S	3.0 - 13.0	2	5	4	1	4	13	0	3	0	2	0	0	0	2	2	0	0	3	5	--
WCMW-12I	25.0 - 30.0	0	0	0	0	0	5	5	16	0	0	0	0	0	0	30	4	1	0	0	--
WCMW-12D	67.0 - 72.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	--
WCMW-13S	3.0 - 13.0	0	0	1	53	0	0	0	0	1	0	0	0	0	0	2	75	229	219	156	141
WCMW-13I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	--
WCMW-13D	65.0 - 70.0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	--
WCMW-14S	2.0 - 12.0	0	0	0	0	0	6	0	4	20	23	26	0	3	0	29	263	143	56	90	81
WCMW-14I	20.0 - 25.0	16	77	0	2	2	50	64	81	149	214	149	65	24	25	376	125	125	258	231	165
WCMW-14I2	30.0 - 35.0	0	0	70	10	1	11	0	18	57	25	95	201	160	9	71	0	0	0	6	--

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Quarterly 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				2012			
		Jan-Mar	Apr-Jun	Jul-Sep	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	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
WCMW-14D	67.0 - 72.0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	--
WCMW-16S	2.0 - 12.0	4	28	57	0	24	22	0	1,971	2,259	337	43	56	51	--	--	--	--	--	--	--
WCMW-16I	20.0 - 25.0	0	0	0	0	0	18	0	2	13	6	14	14	6	--	--	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	0	0	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	--	--	--	--	--	--	--
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	0	0	0	--
WCMW-19I	20.0 - 25.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0	--
WCMW-19I2	30.0 - 35.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	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	--	--	--	--	--	--	--	59	--	--	--
WCMW-22I	25.0 - 30.0	--	--	--	--	--	--	5	1	0	--	--	--	--	--	--	--	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	0	7	0	--
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	--
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	350	232	--	394	146	204	331	243	--	352	436	290	--
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	47	24	--	87	28	0	26	56	--	7	25	12	--
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	3	24	--	11	10	7	5	0	--	1	9	3	--
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	--	--	2,374	1,420	1,986	--
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	43	29	10	17	--	--	5	10	24	--
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14	49	18	8
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	169	486	654	585
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	12	1	108
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	427	353	53	35
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	31	18	9	0
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	69	4	0	0
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	304	286	189	4

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

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)																			
		Sampling Date																			
		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
WCMW-01S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3.0 - 13.0	67.5	84	62	77	86	45	78	43	27	25	--	--	--	48	--	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-02D	62.0 - 72.0	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	35	12	--	--	--	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19.0 - 24.0	299	306	149	232	221	212	352	303	162	280	187	246	265	304	245	254	1	238	305	349
WCMW-04I2	29.85 - 34.85	41	95	14	116	28	13	24	18	7	2	--	--	--	27	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	97	49	2	39	94	48	24	--	--	--	--	--	--	2	--	--	--	--	--	--
WCMW-05I	19.61 - 24.61	162	229	100	230	137	220	324	319	164	190	176	201	180	152	138	186	0	183	237	211
WCMW-05I2	29.46 - 34.46	173	350	55	237	138	56	100	51	13	100	--	123	76	155	168	121	--	71	--	78
WCMW-06S	2.0 - 12.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08I	19.2 - 24.2	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	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	129	56	32	77	244	102	77	58	61	127	41	47	--	--	--	--	--	--	--	--
WCMW-11I	25.0 - 35.0	73	25	392	380	136	25	46	249	25	18	192	54	--	--	--	--	--	--	--	--
WCMW-11D	50.0 - 60.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12S	3.0 - 13.0	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12I	25.0 - 30.0	--	89	--	--	--	40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12D	67.0 - 72.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3.0 - 13.0	2	0	134	176	185	9	157	59	0	0	43	51	3	0	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	58	81	15	53	64	41	36	31	42	39	66	--	37	28	72	78	0	42	74	85
WCMW-14I	20.0 - 25.0	149	167	243	256	96	86	234	106	5	2	58	180	7	17	188	156	0	11	193	173
WCMW-14I2	30.0 - 35.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Quarterly 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																			
		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
WCMW-14D	67.0 - 72.0	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20.0 - 25.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30.0 - 35.0	--	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	--	37	--	--	--	--	--	--	--	27	--	--	--	--	--	--	--	--	--	--
WCMW-22I	25.0 - 30.0	--	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	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55.0 - 60.0	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-26S	2.0 - 12.0	217	190	406	2,081	748	335	357	557	257	404	973	1,597	--	--	--	--	--	--	--	--
WCMW-26I	20.0 - 25.0	86	111	5	60	55	10	42	19	74	3	27	69	--	--	--	--	--	--	--	--
WCMW-26I2	30.0 - 35.0	--	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	2,123	1,615	1,746	2,172	1,756	1,952	1,889	1,466	2,390	1,424	1,175	1,191	--	--	--	--	--	--	--	--
WCMW-29I	20.0 - 25.0	--	60	--	208	87	36	41	93	8	22	107	140	--	--	--	--	--	--	--	--
WCMW-30S	2.0 - 12.0	7	16	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20.0 - 25.0	373	602	663	606	295	307	458	478	102	339	267	352	178	285	313	309	0	255	404	288
WCMW-30I2	30.0 - 35.0	46	0	20	118	0	0	0	--	--	0	--	--	--	0	--	--	--	--	--	--
WCMW-31S	2.0 - 12.0	241	199	35	22	68	45	18	--	--	36	--	--	--	48	--	--	--	--	--	--
WCMW-31I	20.0 - 25.0	7	10	--	--	--	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-31I2	30.0 - 35.0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-32S	2.0 - 12.0	247	269	97	25	184	167	63	256	280	12	20	13	141	23	--	0	0	116	--	2

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Quarterly 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																		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021				2022							
		Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
WCMW-01S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	756	115	0	0		
WCMW-01I	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	46	2	0	0		
WCMW-01D	64.0 - 74.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	45	4	0	0		
WCMW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	125	36	0	0		
WCMW-02I	34.5 - 44.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	4	0	0	0		
WCMW-02D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	0	0	0		
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	1,532	317	0	0		
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	1,770	967	0	0		
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	535	111	0	0		
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1,080	203	0	0		
WCMW-04I	19.0 - 24.0	99	108.6	--	--	--	--	--	--	58	226	--	--	--	--	--	--	0	432	170	0	0		
WCMW-04I2	29.85 - 34.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	285	29	0	0		
WCMW-05S	1.15 - 11.15	--	14.6	31	--	--	--	--	--	--	--	--	--	--	--	--	--	0	284	27	0	0		
WCMW-05I	19.61 - 24.61	335	313.6	173	320	121	310	255	305	195	12	247	153	--	185	--	197	131	0	432	211	131	197	
WCMW-05I2	29.46 - 34.46	1	5.3	148	7	--	0	--	--	--	161	--	0	0	49	28	0	0	0	778	84	0	49	
WCMW-06S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	39	1	0	0		
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	52	2	0	0		
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	11	0	0	0		
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	56	8	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	21	1	0	0		
WCMW-10D	40.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0		
WCMW-11S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	30	32	1,350	402	30	30		
WCMW-11I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	392	93	0	0		
WCMW-11D	50.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	2	0	0	0		
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	13	2	0	0		
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	89	9	0	0		
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
WCMW-13S	3.0 - 13.0	--	3.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	229	49	0	0		
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0		
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	1	0	0	0		
WCMW-14S	2.0 - 12.0	15	91.5	123	1	100	0	19	41	35	1	3	0	0	--	--	--	0	263	41	0	0		
WCMW-14I	20.0 - 25.0	1	0.69	12	2	0	0	--	--	--	17	--	--	0	--	--	--	0	376	95	0	0		
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	201	35	0	0		

Table 4-15. OU-4 Summary Historical Total PAH Groundwater Analytical Results
Quarterly 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																Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2018				2019				2020			2021				2022					
Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun						
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0	
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2,259	373	0	0	
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	18	6	0	0	
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	55	8	0	0	
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	141	431	297	0	0	
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	38	394	271	0	0	
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	31	11	0	0	
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
WCMW-19S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
WCMW-19I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
WCMW-19I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	3	0	0	0	
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	27	61	49	0	0	
WCMW-22I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	5	1	0	0	
WCMW-23S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	34	16	0	0	
WCMW-23I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	158	336	231	0	0	
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	98	49	0	0	
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
WCMW-25I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	54	6	0	0	
WCMW-25D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
WCMW-26S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9	146	2,081	505	9	9	
WCMW-26I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	0	111	40	4	4	
WCMW-26I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	24	6	0	0	
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	708	304	0	0	
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	36	396	202	0	0	
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	2	0	0	0	
WCMW-29S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	276	1,092	2,391	1,785	276	276	
WCMW-29I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	5	208	55	3	3	
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	49	16	0	0	
WCMW-30I	20.0 - 25.0	143	39.77	130	119	56	13	139	106	101	28	0	119	90	108	124	235	0	663	266	0	235
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	118	24	0	0	
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18	427	122	0	0	
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	31	12	0	0	
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	69	10	0	0	
WCMW-32S	2.0 - 12.0	35	70.2	8	31	116	144	8	2	0	2	0	--	0	0	--	0	304	92	0	0	

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

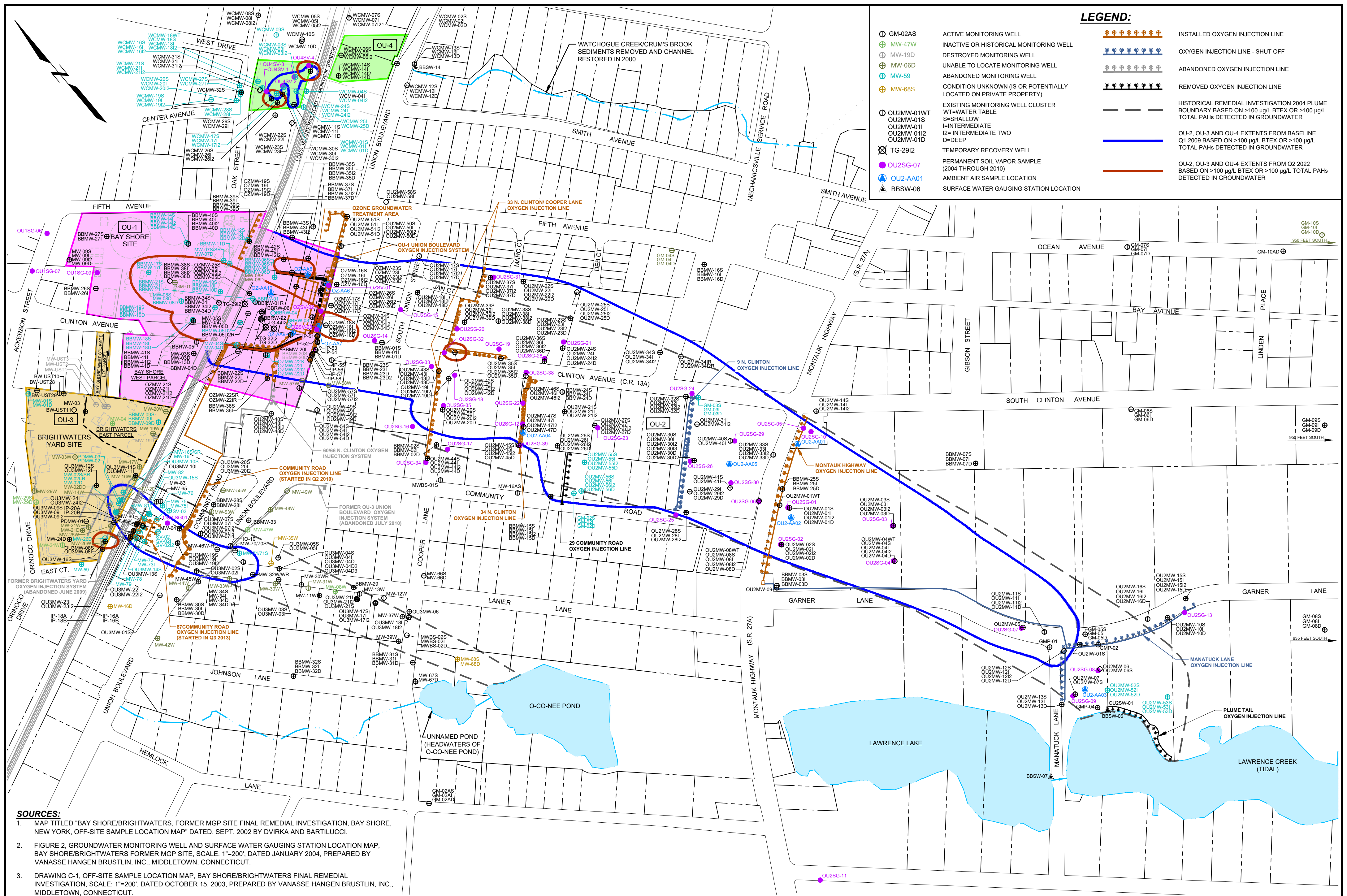
Table 4-16. OU-4. Summary of Expanded Groundwater Analytical Results
Quarterly Groundwater Monitoring and Operations, Maintenance & Monitoring Report
National Grid Bay Shore/Brightwaters Former MGP Site
Bay Shore, NY

Operable Unit Area				Former Cesspool Area										
Aquifer Zone				Shallow				Intermediate						
Operable Unit				OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name				WCMW-11S	WCMW-26S	WCMW-29S	WCMW-32S	WCMW-05I	WCMW-05I	WCMW-05I	WCMW-05I2	DUP-03	WCMW-05I2	WCMW-05I2
Start Depth				5	2	2	2	19.61	19.61	19.61	29.46	29.46	29.46	29.46
End Depth				15	12	12	12	24.61	24.61	24.61	34.46	34.46	34.46	34.46
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				5/13/2022	5/13/2022	5/13/2022	7/27/2021	9/16/2021	3/1/2022	4/25/2022	7/27/2021	7/27/2021 WCMW-05I2	12/22/2021	3/1/2022
Analyte	Units	CAS no.	NYS AWQS											
BTEX	µg/L													
Benzene		71-43-2	1	1 U	1 U	0.27 J	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	0.38 J	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene		100-41-4	5	1 U	4.4	62	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	2.3	33	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Total BTEX		TBTEX_ND0	NE	ND	6.7	95.65	ND	ND	ND	ND	ND	ND	ND	ND
PAH17	µg/L													
Acenaphthene		83-32-9	20*	18	5.6 J	160	10 U	40	66	44	3.2 J	2.7 J	2.1 J	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	2.6 J	10 U	7.8 J	7.7 J	4.8 J	13	11	11	10 U
Anthracene		120-12-7	50*	10 U	10 U	10	10 U	9.8 J	7.4 J	6.8 J	2.6 J	2.5 J	10 U	10 U
Benzo(a)anthracene		56-55-3	0.002*	1 U	1 U	1 U	1 U	2.3	0.66 J	0.87 J	1 U	1 U	1 U	1 U
Benzo(b)fluoranthene		205-99-2	0.002*	2 U	2 U	2 U	2 U	0.95 J	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
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
Benzo(a)pyrene		50-32-8	ND	1 U	1 U	1 U	1 U	1.4	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	2.3	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
Fluoranthene		206-44-0	50*	10 U	0.99 J	10 U	10 U	5.2 J	2.6 J	2.9 J	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	5.7 J	10 U	56	10 U	34	38	25	9.6 J	9.8 J	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-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	12	32	15	5.5 J	1.1 J	5.9 J	10 U
Naphthalene		91-20-3	10*	2.8	2 U	2 U	2 U	18	16	7.3	2 U	2 U	4.6	2 U
Phenanthrene		85-01-8	50*	3.4 J	10 U	47	10 U	45	22	21	15	13	4.4 J	10 U
Pyrene		129-00-0	50*	10 U	2 J	10 U	10 U	5.9 J	4.2 J	3.3 J	10 U	10 U	10 U	10 U
Total PAH (17)		TPAH17_ND0	NE	29.9	8.59	275.6	ND	184.65	196.56	130.97	48.9	40.1	28	ND

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

Operable Unit Area				Former Cesspool Area					Former Cesspool Area				Former Pond Area	
Aquifer Zone				Intermediate					Intermediate				Deep	Shallow
Operable Unit				OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Sample Name				WCMW-05I2	WCMW-11I	WCMW-26I	WCMW-26I2	WCMW-29I	WCMW-30I	WCMW-30I	WCMW-30I	WCMW-30I	WCMW-11D	WCMW-14S
Start Depth				29.46	25	20	30	20	20	20	20	20	50	2
End Depth				34.46	35	25	35	25	25	25	25	25	60	12
Depth Unit				ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
Sample Date				4/25/2022	5/13/2022	5/13/2022	5/13/2022	5/13/2022	7/27/2021	10/18/2021	3/3/2022	5/31/2022	5/13/2022	6/9/2022
														6/9/2022
														WCMW-14S
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
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
Ethylbenzene		100-41-4	5	1 U	1 U	1 U	1 U	1 U	1 U	0.36 J	1.5 J	1 U	1 U	1 U
Total Xylene		1330-20-7	5	2 U	2 U	2 U	2 U	2 U	7.6 J	2 U	4.1 J	2 U	2 U	2 U
Total BTEX		TBTEX_ND0	NE	ND	ND	ND	ND	ND	7.6	0.36	5.6	ND	ND	ND
PAH17	µg/L													
Acenaphthene		83-32-9	20*	10 U	10 U	1.5 J	10 U	3.4 J	34	47	55	10 U	10 U	10 U
Acenaphthylene		208-96-8	NE	10 U	10 U	10 U	10 U	10 U	3.7 J	6.1 J	4.4 J	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
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
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
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
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
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
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
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
Fluoranthene		206-44-0	50*	10 U	10 U	10 U	10 U	10 U	1.1 J	1.2 J	10 U	10 U	10 U	10 U
Fluorene		86-73-7	50*	10 U	10 U	0.98 J	10 U	10 U	23	25	24	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 UJ	2 U	2 U	2 U
2-Methylnaphthalene		91-57-6	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.6 J	10 U	10 U	10 U
Naphthalene		91-20-3	10*	2 U	2 U	2 U	2 U	2 U	15	1.2 J	120	2 U	2 U	2 U
Phenanthrene		85-01-8	50*	10 U	10 U	1.9 J	10 U	10 U	31	43	30	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
Total PAH (17)		TPAH17_ND0	NE	ND	ND	4.38	ND	3.4	107.8	123.5	235	ND	ND	ND

Figures



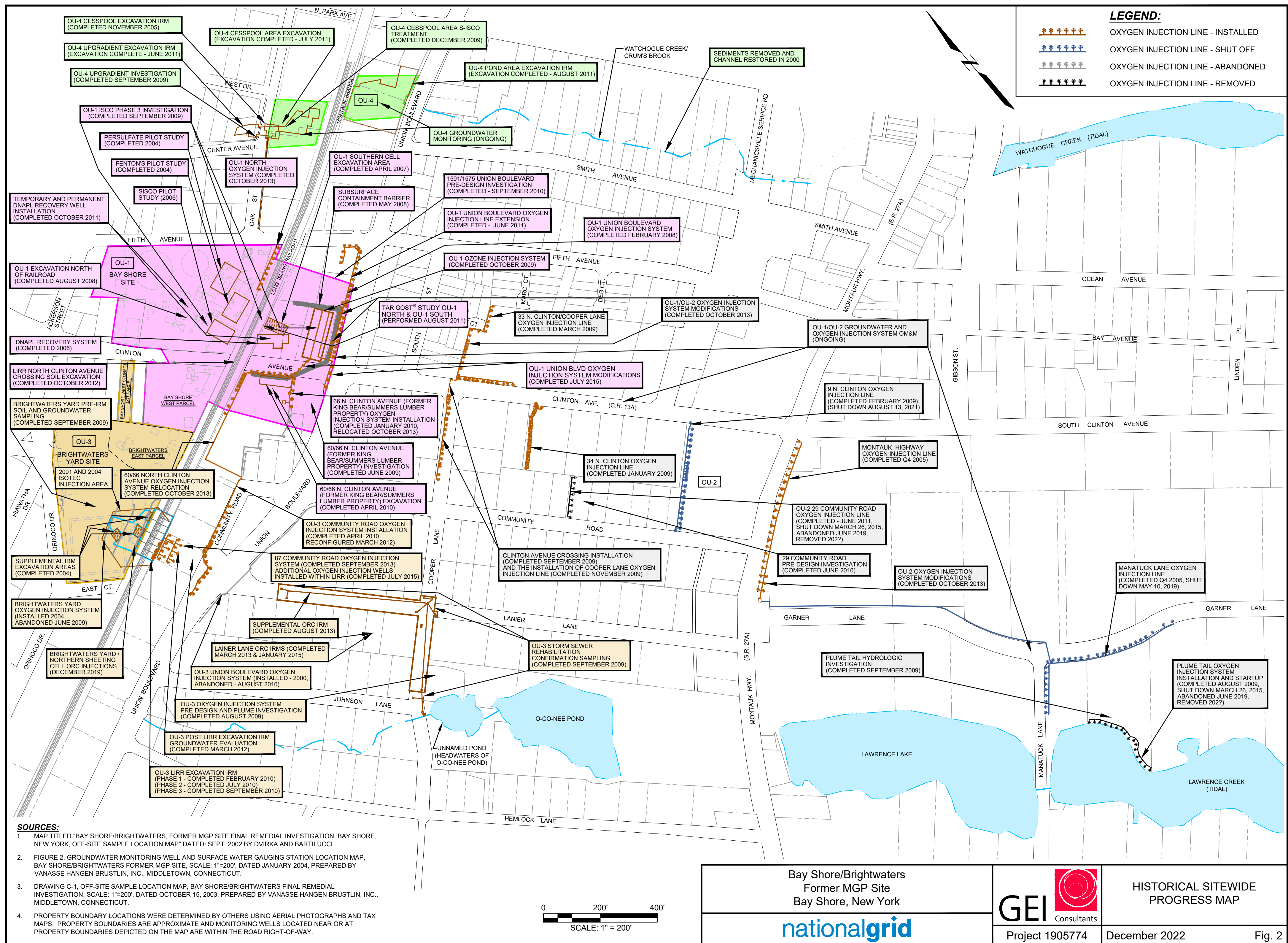
Bay Shore/Brightwaters
Former MGP Site
Bay Shore, New York

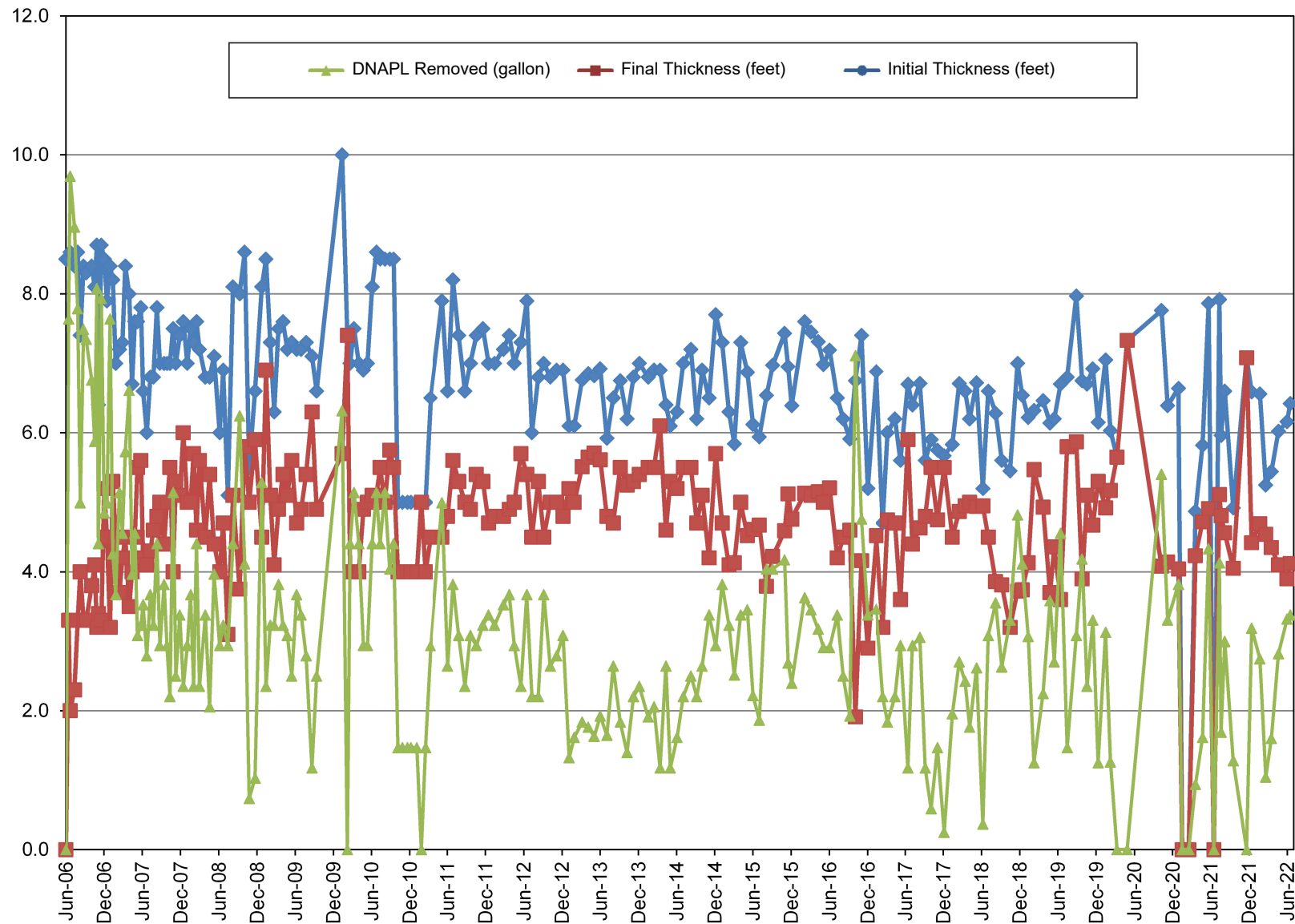
Project 1905774

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

December 2022

Fig. 1





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

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

nationalgrid

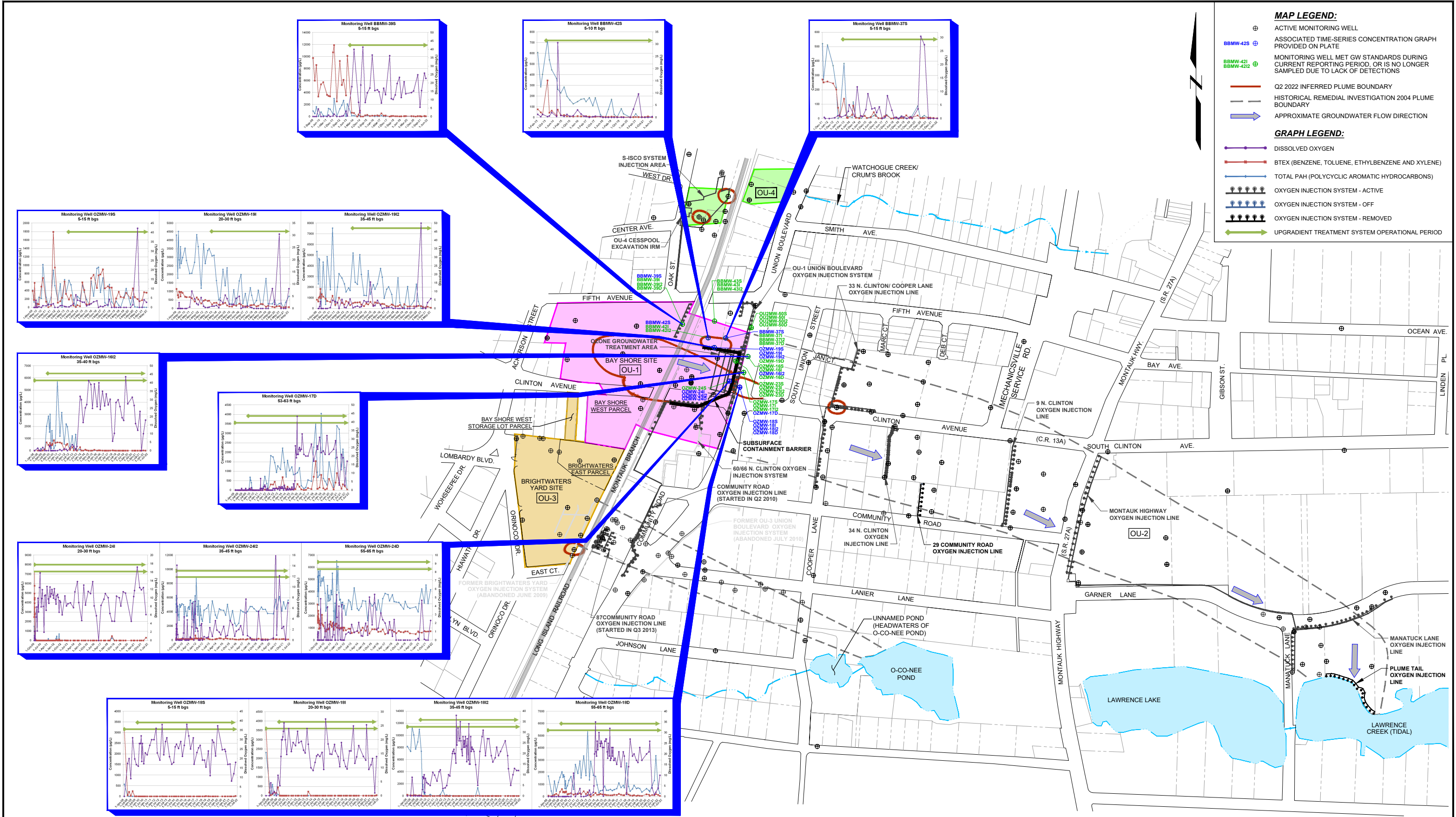


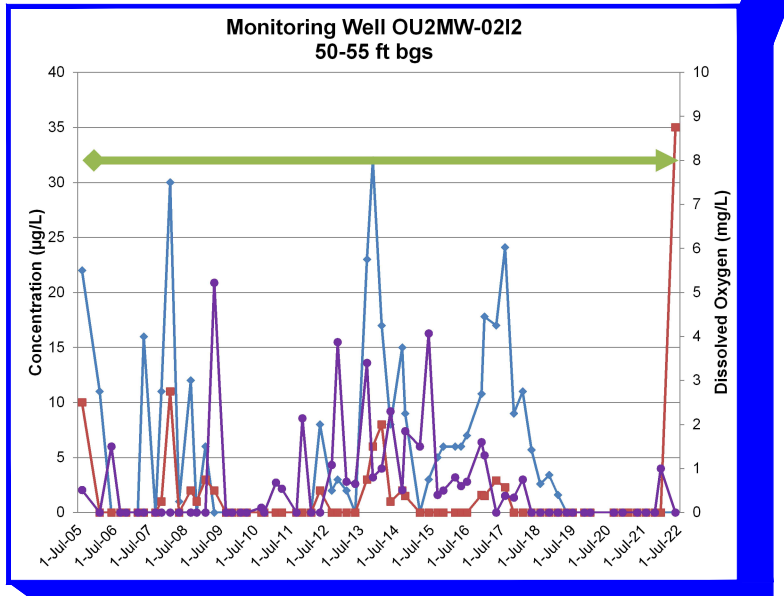
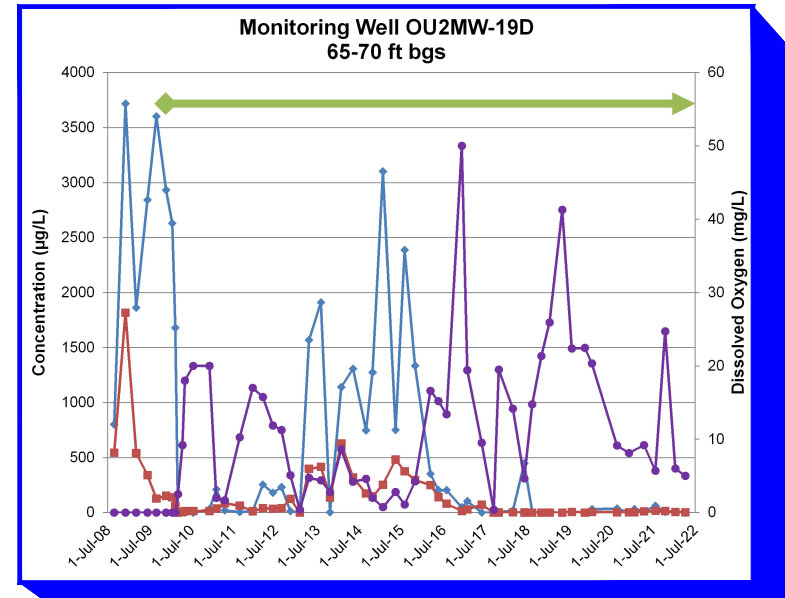
Project 1905774

DNAPL RECOVERY DATA
BBRW-02

December 2022

Fig. 3





SOURCES:

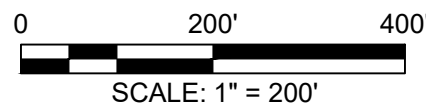
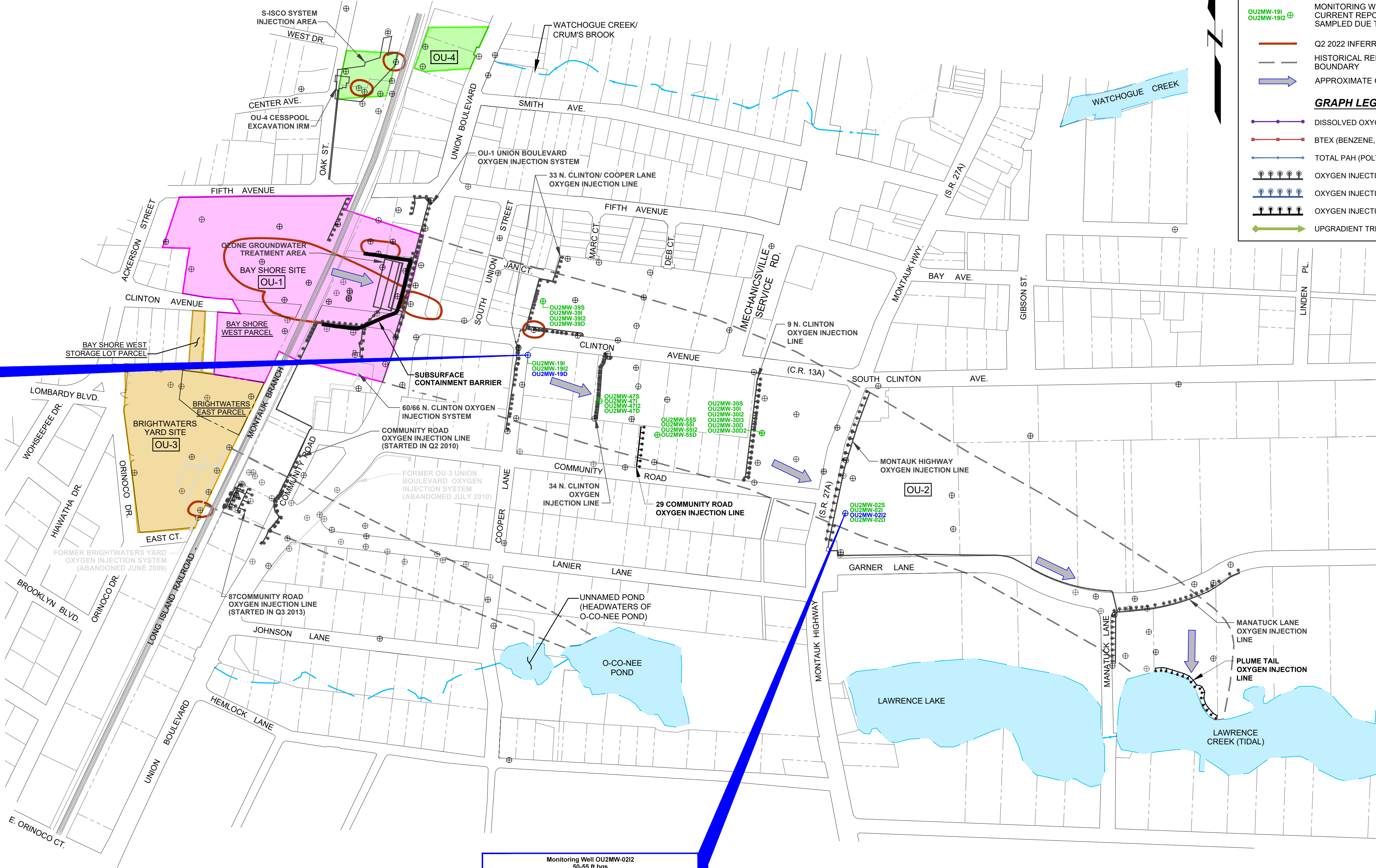
1. MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
2. FIGURE 2. GROUNDWATER MONITORING WELL AND SURFACE WATER GAUGING STATION LOCATION MAP, BAY SHORE/BRIGHTWATERS FORMER MGP 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.

MAP LEGEND:

- ⊕ ACTIVE MONITORING WELL
- OU2MW-19D ⊕ ASSOCIATED TIME-SERIES CONCENTRATION GRAPH PROVIDED ON PLATE
- OU2MW-191 ⊕
OU2MW-1912 ⊕ MONITORING WELL MET GW STANDARDS DURING CURRENT REPORTING PERIOD, OR IS NO LONGER SAMPLED DUE TO LACK OF DETECTIONS
- Q2 2022 INFERRED PLUME BOUNDARY
- - - HISTORICAL REMEDIAL INVESTIGATION 2004 PLUME BOUNDARY
- ➡ APPROXIMATE GROUNDWATER FLOW DIRECTION

GRAPH LEGEND:

- DISSOLVED OXYGEN
- BTX (BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE)
- TOTAL PAH (POLYCYCLIC AROMATIC HYDROCARBONS)
- ⊕ OXYGEN INJECTION SYSTEM - ACTIVE
- ⊕ OXYGEN INJECTION SYSTEM - OFF
- ⊕ OXYGEN INJECTION SYSTEM - REMOVED
- ➡ UPGRADE TREATMENT SYSTEM OPERATIONAL PERIOD



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

nationalgrid

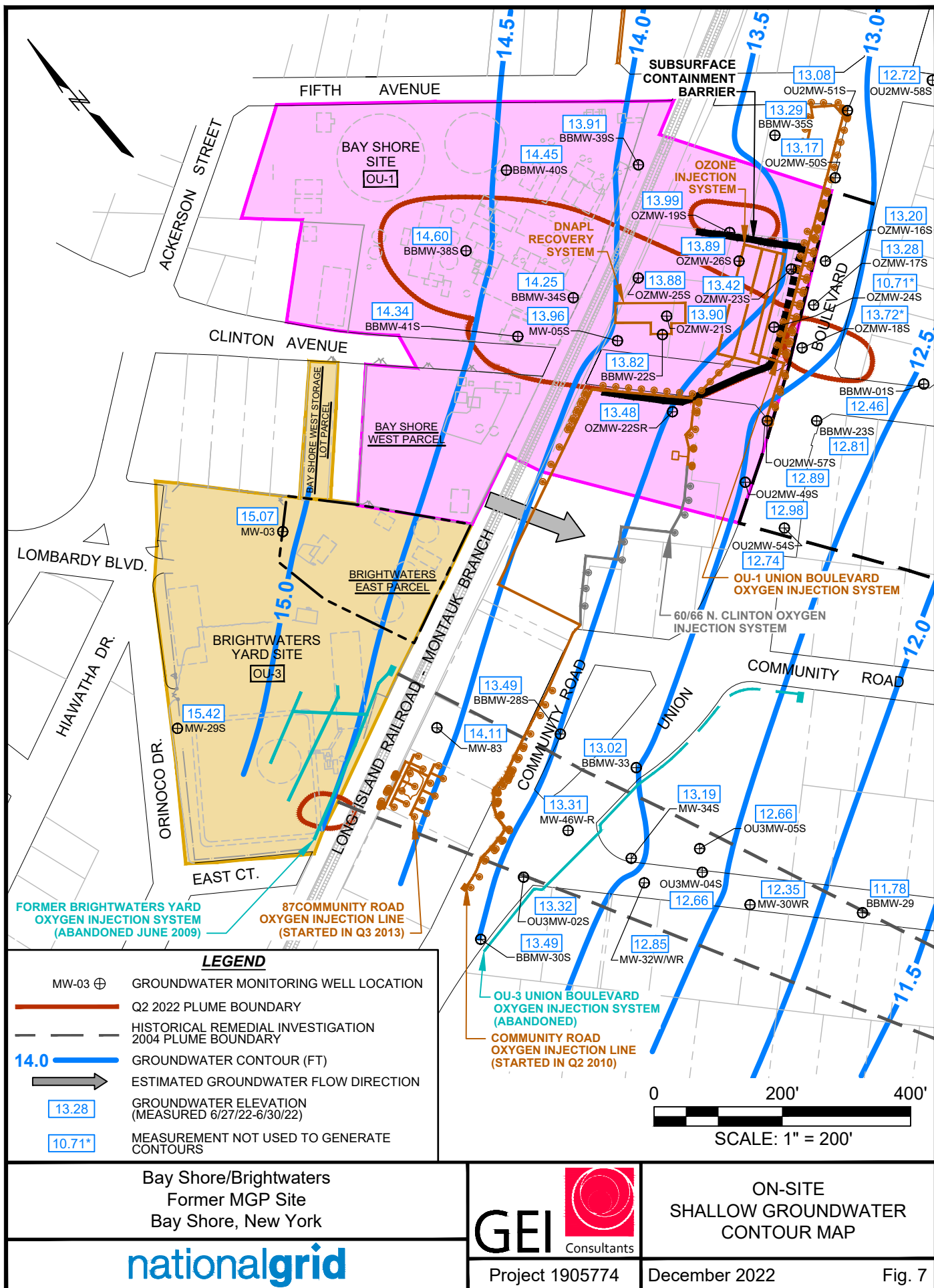


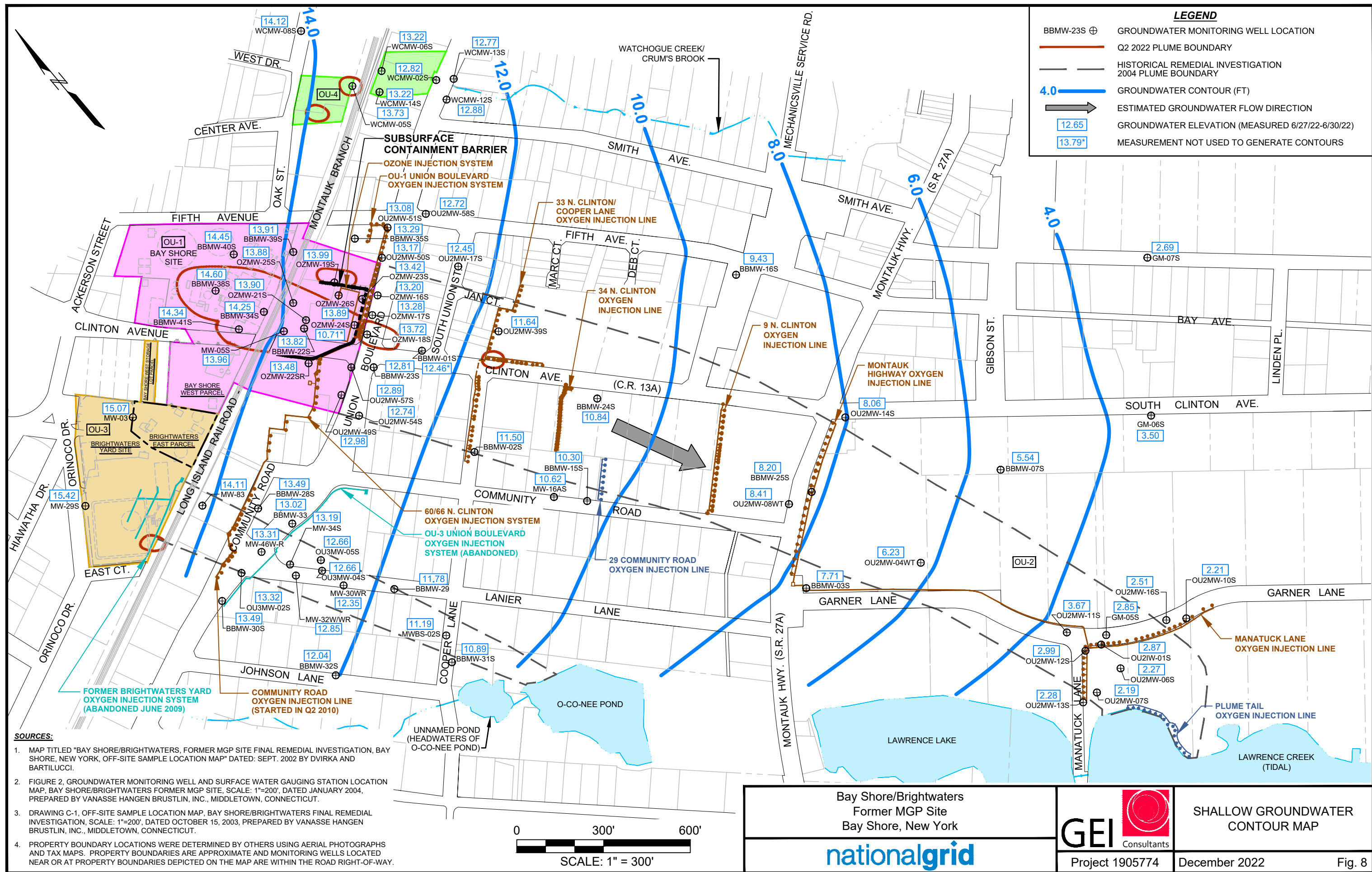
OXYGEN INJECTION LINE
GROUNDWATER DATA
(OU-2)

Project 1905774

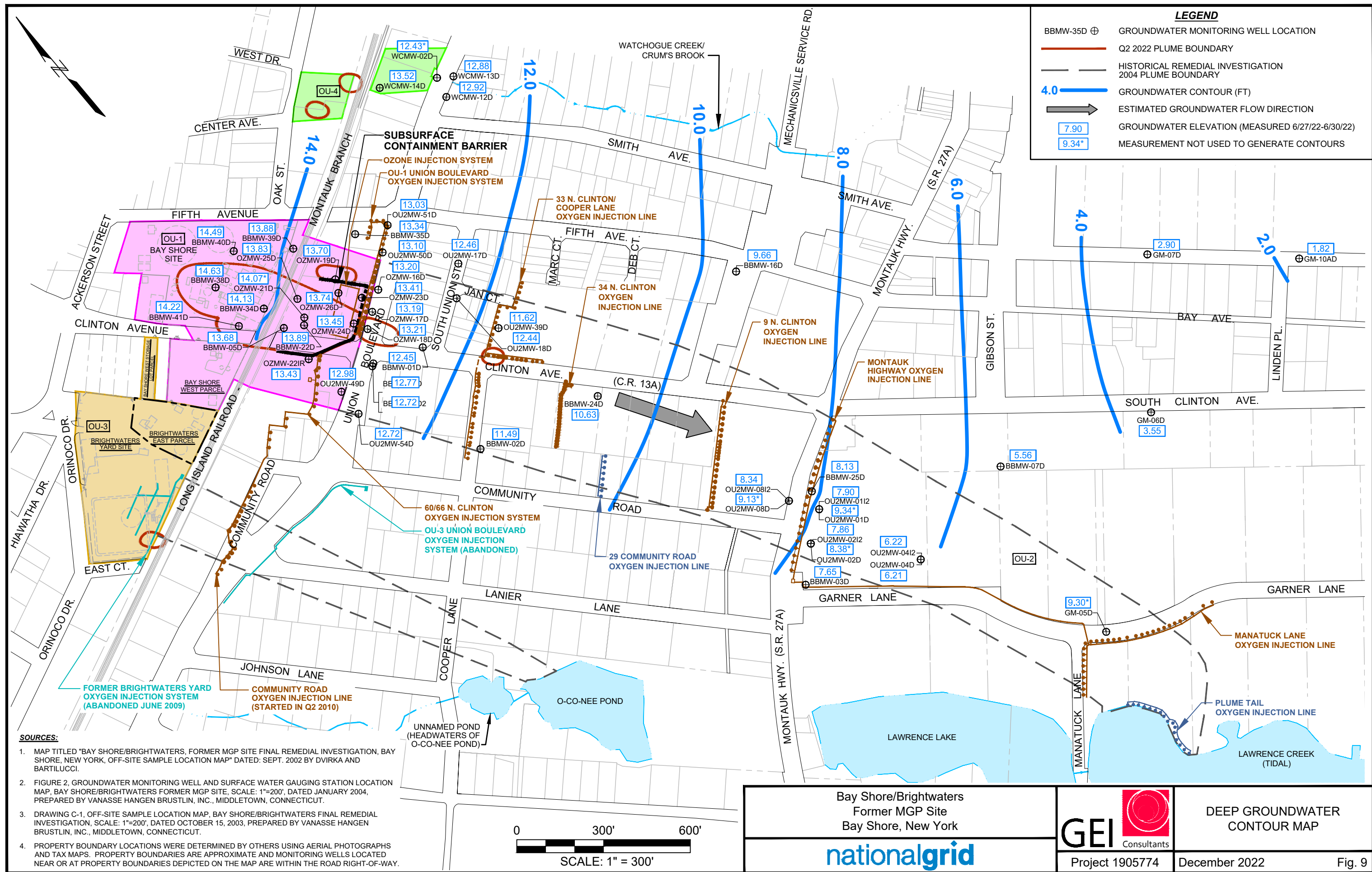
December 2022

Fig. 5



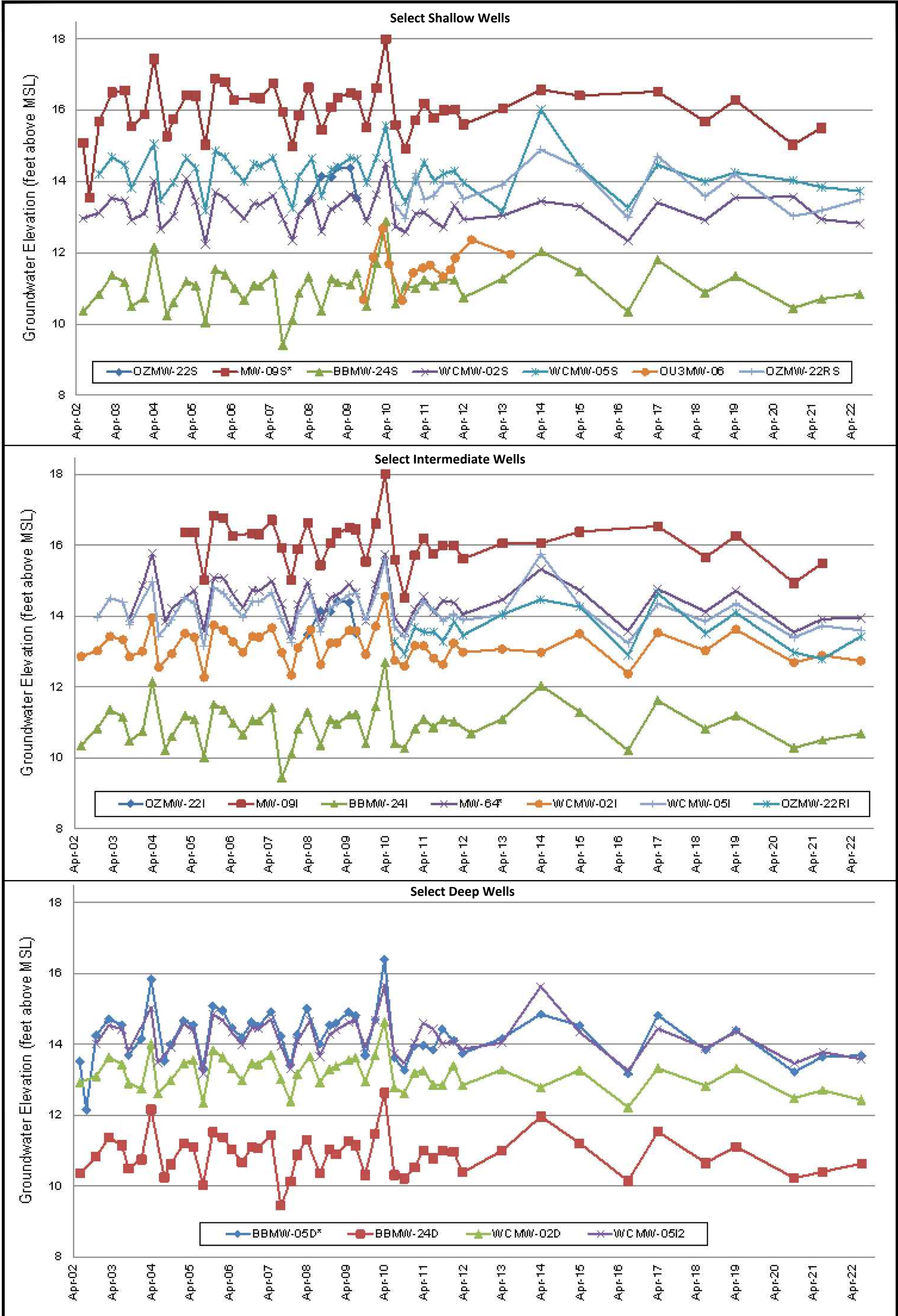


- SOURCES:**
1. MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
 2. FIGURE 2, GROUNDWATER MONITORING WELL AND SURFACE WATER GAUGING STATION LOCATION MAP, BAY SHORE/BRIGHTWATERS 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.



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

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

nationalgrid



Project 1905774

HYDROGRAPHS OF SELECT
WELLS

December 2022

Fig. 10

[illegible]

Q1 2019 Groundwater Monitoring Data				Q1 2019 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	5-12	ND	
BBMW-03S	3-13	ND		BBMW-29	2-9	ND	
BBMW-07S	5-15	ND		BBMW-30S	2-10	ND	
BBMW-16S	5-15	ND		BBMW-31S	2-10	2	
BBMW-16S	5-15	ND		BBMW-32S	2-10	ND	
BBMW-22S	5-10	10.780		BBMW-33	3-12	7-12	ND
BBMW-23S	5-15	11.383		BW-UST-10	4.65-9.50	ND	
BBMW-36S	4-14	ND		BW-UST-11	4.4-11	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-13	6-16	ND	
MW-05S	4-14	9.600		MW-02SR	8-12	612	
OUIZM-1	3-8	ND		OUIZM-4	4.94-14.94	8	
OUIZM-01WT	3-8	ND		MW-54	5.1-15.1	ND	
OUIZM-04WT	3-8	ND		OU-09S	4-14	ND	
OUIZM-06S	3-8	ND		MW-11W	2-12	ND	
OUIZM-07S	3-8	ND		MW-12W	2-12	2	
OUIZM-08WT	3-8	ND		MW-16SR	2-12	3,275	
OUIZM-10S	3-7	ND		MW-29S	2-10	ND	
OUIZM-11S	3-8	ND		MW-30WR	2-10	ND	
OUIZM-12S	3-7	ND		MW-32WR	2-9	232	
OUIZM-13S	3-8	ND		MW-34S	2-10	3,636	
OUIZM-14S	3-8	ND		MW-45W	2-10	4,210	
OUIZM-36S	3-8	ND		MW-49WR	2-10	326	
OUIZM-16S	3-8	ND		MW-68S	1.5-11.5	ND	
OUIZM-17S	5-10	ND		MW-7070S	2-12	1,124	
OUIZM-20S	4-9	ND		MW-73	2-12	7,100	
OUIZM-21S	5-15	870		MW-75	2-12	569	
OUIZM-22S	5-15	2		MW-76	2-12	ND	
OUIZM-23S	5-15	ND		MW-78	5-20	2,590	
OUIZM-24S	5-15	23		MW-79	5-20	10,100	
OUIZM-25S	5-15	ND		MW-80	5-20	35,200	
OUIZM-26S	6-11	ND		MW-81	5-20	257	
OUIZM-28S	5-15	ND		MW-82	5-20	6,151	
OUIZM-30S	5-15	3		MW-83	5-20	ND	
OUIZM-32S	5-15	ND		MW-SS-02S	5-15	98	
OUIZM-33S	5-15	ND		PDMM-01	5-20	ND	
OUIZM-34S	5-15	ND		PDMM-02	5-20	59,210	
OUIZM-36S	5-15	9		PDMM-03	5-15	14,511	
OUIZM-37S	5-15	ND		SV-02	2-12	26	
OUIZM-37S	5-15	ND		SV-03	2-12	29	
OUIZM-38S	5-15	23		OU-4			
OUIZM-39S	5-15	ND		WCWM-01S	5-12	3	
OUIZM-40S	5-15	ND		WCWM-02S	5-13	ND	
OUIZM-41S	5-15	8		WCWM-03S	4.99-8.83	33	
OUIZM-44S	5-15	80		WCWM-04S	1.6-11.6	21	
OUIZM-46S	5-15	422		WCWM-05S	1.4-11.4	ND	
OUIZM-47S	5-15	446		WCWM-06	2-12	ND	
OUIZM-16S	5-15	ND		WCWM-09S	5-15	ND	
OUIZM-17S	5-15	141		WCWM-12S	3-13	ND	
OUIZM-18S	5-15	244		WCWM-13S	3-13	ND	
OUIZM-24S	5-15	11,947		WCWM-14S	3-13	ND	
				WCWM-16S	2-12	ND	

Q2 2022

Q2 2022 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	1408.8
BBMW-23S	5-15	45
BBMW-34S	5-15	22
BBMW-37S	5-10	1.5
BBMW-38S	5-15	21
BBMW-39S	5-15	42.8
BBMW-40S	5-15	ND
BBMW-41S	6-16	3505.8
BBMW-42S	5-10	1.96
MW-05S	4-14	493.6
OUIPZ-101	4-14	1340
OUIPZ-102	4-14	ND
OUIPZ-103	4-14	313.09
OUIPZ-104	4-14	0.38
OUIPZ-105	4-14	19.6
OZ2MW-12S	3-7	ND
OZ2MW-27S	5-15	ND
OZ2MW-28S	5-15	ND
OZ2MW-30S	5-15	ND
OZ2MW-38S	5-15	ND
OZ2MW-40S	5-15	ND
OZ2MW-41S	5-15	ND
OZ2MW-47S	5-15	ND
OZ2MW-50S	5-15	ND
OZ3MW-57S	5-15	ND
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	18.7
OZMW-19S	5-15	350.69
OZMW-22SR	5-15	1.2
OZMW-23S	5-15	ND
OZMW-24S	5-15	ND
OZMW-25S	5-15	408.8
OU-3		
MW-83	5-20	ND
OZ3MW-07S	3-13	ND
OZ3MW-08S	2-12	838
OZ3MW-13S	2-12	5.2
OZ3MW-16S	2-12	16.07
OZ3MW-19S	2-12	1.1
OZ3MW-20S	2-12	ND
OU-4		
WCMW-11S	5-15	ND
WCMW-14S	2-12	ND
WCMW-26S	2-12	6.7
WCMW-29S	2-12	95.65

Q2 2022 Groundwater Monitoring Data			
Monitoring Well	Screen Interval (ft bgs)	Total BTEX (µg/L)	
OU-1 and OU-2			
BBMW-22S	-5:15	1408.8	
BBMW-23S	-5:15	45	
BBMW-34S	-5:15	22	
BBMW-37S	-5:10	1.1	
BBMW-38S	-5:15	1.9	
BBMW-39S	-5:15	42.8	
BBMW-40S	-5:15	ND	
BBMW-41S	-5:15	3505.8	
BBMW-42S	-5:10	1.96	
MW-65S	-4:14	493.6	
OU1P-101	-4:14	1340	
OU1P-102	-4:14	ND	
OU1P-103	-4:14	313.09	
OU1P-104	-4:14	0.38	
OU1P-106	-4:14	19.6	
OU1P-121S	-3:7	ND	
OU2MM-27S	-5:15	ND	
OU2MM-28S	-5:15	ND	
OU2MM-30S	-5:15	ND	
OU2MM-39S	-5:15	ND	
OU2MM-40S	-5:15	ND	
OU2MM-41S	-5:15	ND	
OU2MM-47S	-5:15	ND	
OU2MM-50S	-5:15	ND	
OU2MM-57S	-5:15	ND	
OZMM-16S	-5:15	ND	
OZMM-17S	-5:15	ND	
OZMM-18S	-5:15	18.7	
OZMM-19S	-5:15	350.09	
OZMM-22S	-5:15	1.2	
OZMM-23S	-5:15	ND	
OZMM-24S	-5:15	ND	
OZMM-25S	-5:15	408.8	
OU-3			
MW-83	-5:20	ND	
OU3MM-07S	-3:13	ND	
OU3MM-08S	-2:12	836	
OU3MM-13S	-2:12	5.2	
OU3MM-16S	-2:12	16.07	
OU3MM-19S	-2:12	1.1	
OU3MM-20S	-2:12	ND	
OU-4			
WCMM-11S	-5:15	ND	
WCMM-14S	-2:12	ND	
WCMM-15S	-2:12	ND	
WCMM-29S	-2:12	95.65	

OXYGEN INJECTION LINE - INSTALLED
 OXYGEN INJECTION LINE - SHUT OFF
 OXYGEN INJECTION LINE - ABANDONED
 ISO-CONCENTRATION LINE ($\mu\text{g/L}$)

Fig. 11

Q1 2009 Groundwater Monitoring Data

Monitoring Well ID	Screened Interval (feet bgs)	Total PAHs (µg/L)
WCMW-01S	5-15	359
WCMW-02S	5-15	ND
WCMW-03S	3-13	ND
WCMW-07S	5-15	ND
WCMW-15S	5-15	ND
WCMW-16S	5-15	ND
WCMW-22S	5-10	1,664
WCMW-23S	5-15	1,673
WCMW-24S	4-14	ND
WCMW-25S	4-14	ND
WCMW-03S	3-13	ND
WCMW-05S	5-120	5
WCMW-06S	4-14	1,052
WCMW-09S	4-14	ND
WCMW-11S	3-8	ND
WCMW-13S	3-8	ND
WCMW-14S	3-8	ND
WCMW-17S	3-8	ND
WCMW-18S	3-8	ND
WCMW-19S	3-8	ND
WCMW-20S	3-8	ND
WCMW-21S	3-8	ND
WCMW-22S	3-8	ND
WCMW-23S	3-8	ND
WCMW-24S	3-8	ND
WCMW-25S	3-8	ND
WCMW-26S	3-8	ND
WCMW-27S	3-8	ND
WCMW-28S	3-8	ND
WCMW-29S	3-8	ND
WCMW-30S	3-8	ND
WCMW-31S	3-8	ND
WCMW-32S	3-8	ND
WCMW-33S	3-8	ND
WCMW-34S	3-8	ND
WCMW-35S	3-8	ND
WCMW-36S	3-8	ND
WCMW-37S	3-8	ND
WCMW-38S	3-8	ND
WCMW-39S	3-8	ND
WCMW-40S	3-8	ND
WCMW-41S	3-8	ND
WCMW-42S	3-8	ND
WCMW-43S	3-8	ND
WCMW-44S	3-8	ND
WCMW-45S	3-8	ND
WCMW-46S	3-8	ND
WCMW-47S	3-8	ND
WCMW-48S	3-8	ND
WCMW-49S	3-8	ND
WCMW-50S	3-8	ND
WCMW-51S	3-8	ND
WCMW-52S	3-8	ND
WCMW-53S	3-8	ND
WCMW-54S	3-8	ND
WCMW-55S	3-8	ND
WCMW-56S	3-8	ND
WCMW-57S	3-8	ND
WCMW-58S	3-8	ND
WCMW-59S	3-8	ND
WCMW-60S	3-8	ND
WCMW-61S	3-8	ND
WCMW-62S	3-8	ND
WCMW-63S	3-8	ND
WCMW-64S	3-8	ND
WCMW-65S	3-8	ND
WCMW-66S	3-8	ND
WCMW-67S	3-8	ND
WCMW-68S	3-8	ND
WCMW-69S	3-8	ND
WCMW-70S	3-8	ND
WCMW-71S	3-8	ND
WCMW-72S	3-8	ND
WCMW-73S	3-8	ND
WCMW-74S	3-8	ND
WCMW-75S	3-8	ND
WCMW-76S	3-8	ND
WCMW-77S	3-8	ND
WCMW-78S	3-8	ND
WCMW-79S	3-8	ND
WCMW-80S	3-8	ND
WCMW-81S	3-8	ND
WCMW-82S	3-8	ND
WCMW-83S	3-8	ND
WCMW-84S	3-8	ND
WCMW-85S	3-8	ND
WCMW-86S	3-8	ND
WCMW-87S	3-8	ND
WCMW-88S	3-8	ND
WCMW-89S	3-8	ND
WCMW-90S	3-8	ND
WCMW-91S	3-8	ND
WCMW-92S	3-8	ND
WCMW-93S	3-8	ND
WCMW-94S	3-8	ND
WCMW-95S	3-8	ND
WCMW-96S	3-8	ND
WCMW-97S	3-8	ND
WCMW-98S	3-8	ND
WCMW-99S	3-8	ND
WCMW-100S	3-8	ND

Q1 2009 Groundwater Monitoring Data			Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet)	Total PAHs (µg/L)	Monitoring Well ID	Screened Interval (feet)	Total PAHs (µg/L)
OU-1 and OU-2			OU-3		
BMW-01S	5-15	359	BMW-09S	5-15	ND
BMW-02S	5-15	ND	BMW-28S	2-12	ND
BMW-03S	3-13	ND	BMW-29	2-9	ND
BMW-07S	5-15	ND	BMW-30S	2-10	ND
BMW-15S	5-15	ND	BMW-31S	2-10	ND
BMW-16S	5-15	ND	BMW-32S	2-10	ND
BMW-22S	5-10	1,694	BMW-33	7-12	ND
BMW-23S	5-15	1,673	BW-UST-ID	4,654-6,619	ND
BMW-24S	4-14	ND	BW-UST-11	4.4-9.4	ND
BMW-25S	4-14	ND	BW-UST-28	5-10	ND
MW-03S	3-13	ND	BW-UST-39	5-10	ND
QM-03S	5-120.1	5	ID-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
OUZWN-01	3-8	ND	MW-04	5.1-15.1	ND
OUZMN-1WT	3-8	ND	MW-11W	2-10	ND
OUZMN-DW4T	3-8	ND	MW-12W	2-12	ND
OUZMN-06S	3-8	ND	MW-16SR	2-12	28
OUZMN-07S	3-8	ND	MW-20S	2-10	ND
OUZMN-DW6T	3-8	ND	MW-30WR	2-9	ND
OUZMN-10S	3-7	ND	MW-32WR	2-9	3
OUZMN-11S	3-8	ND	MW-34S	2-10	83
OUZMN-12S	3-7	ND	MW-45W	2-10	10
OUZMN-13S	3-8	ND	MW-46WR	2-10	30
OUZMN-14S	3-8	ND	MW-66S	1.5-11.5	ND
OUZMN-15S	3-8	ND	MW-707S	2-12	14
OUZMN-16S	3-8	ND	MW-73	9-12	97
OUZMN-17S	5-10	ND	MW-75	2-12	1
OUZMN-20S	4-9	ND	MW-76	2-12	ND
OUZMN-21S	5-15	341	MW-78	5-20	ND
OUZMN-22S	5-15	ND	MW-79	1-13	ND
OUZMN-23S	5-15	ND	MW-80	5-20	522
OUZMN-24S	5-15	ND	MW-81	5-20	13
OUZMN-25S	5-15	ND	MW-82	5-20	ND
OUZMN-26S	5-11	ND	MW-83	5-20	ND
OUZMN-28S	5-15	ND	MW-B5-02S	5-15	3
OUZMN-30S	5-15	10	PDMM-01	5-20	ND
OUZMN-32S	5-15	83	PDMM-02	5-20	2,797
OUZMN-33S	5-15	ND	PDMM-03	5-20	2,109
OUZMN-34S	5-15	ND	SV-02	2-12	ND
OUZMN-35S	5-15	ND	SV-03	5-15	ND
OUZMN-36S	5-15	ND	OU-4		
OUZMN-37S	5-15	ND	WCMM-01S	2-12	ND
OUZMN-38S	5-15	ND	WCMM-02S	3-13	ND
OUZMN-39S	5-15	ND	WCMM-03S	4.93-9.83	243
OUZMN-40S	5-15	ND	WCMM-04S	18-11.8	43
OUZMN-41S	5-15	ND	WCMM-05S	1.4-11.4	ND
OUZMN-45S	5-15	9	WCMM-06S	2-12	ND
OUZMN-46S	5-15	31	WCMM-09S	5-15	ND
OUZMN-47S	5-15	ND	WCMM-11S	5-15	624
OUZMN-16S	5-15	ND	WCMM-12S	3-13	ND
OUZMN-17S	5-15	ND	WCMM-13S	3-13	ND
OUZMN-18S	5-15	ND	WCMM-14S	2-12	ND
OUZMN-22S	5-15	1,890	WCMM-16S	2-12	24
			WCMM-17S	2-12	245

Q2 2022 Groundwater Monitoring Data			
Monitoring Well ID	Screen Interval (ft-bgs)	Total PAH (µg/L)	
OU-1 and OU-2			
BBMW-22S	5-10	155.06	
BBMW-23S	5-15	1.6	
BBMW-34S	5-10	4.4	
BBMW-37S	5-10	ND	
BBMW-38S	5-15	26.9	
BBMW-39S	5-15	ND	
BBMW-40S	5-15	ND	
BBMW-41S	6-16	1087.6	
BBMW-42S	5-10	0.9	
MW-55S	4-14	43.78	
OU1PZ-101	4-14	663.1	
OU1PZ-102	4-14	ND	
OU1PZ-103	4-14	19.48	
OU1PZ-104	4-14	ND	
OU1PZ-105	4-14	ND	
OU2MW-27S	3-7	ND	
OU2MW-28S	5-15	ND	
OU2MW-30S	5-15	ND	
OU2MW-30S	5-15	ND	
OU2MW-40S	5-15	ND	
OU2MW-40S	5-15	ND	
OU2MW-41S	5-15	ND	
OU2MW-47S	5-15	ND	
OU2MW-50S	5-15	ND	
OU2MW-50S	5-15	9.9	
OZMW-16S	5-15	ND	
OZMW-17S	5-15	ND	
OZMW-18S	5-15	1.8	
OZMW-22SR	5-15	3.52	
OZMW-23S	5-15	ND	
OZMW-24S	5-15	ND	
OZMW-25S	5-15	1430.7	
OU-3			
MW-83	5-20	0.73	
OU3MW-07S	3-13	ND	
OU3MW-10S	2-12	154.7	
OU3MW-13S	2-12	ND	
OU3MW-16S	2-12	2.9	
OU3MW-19S	2-12	ND	
OU3MW-20S	2-12	ND	
OU-4			
WCWM-11S	5-15	29.9	
WCWM-14S	2-12	ND	
WCWM-15S	2-12	8.59	
WCWM-29S	2-12	275.6	

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

nationalgrid



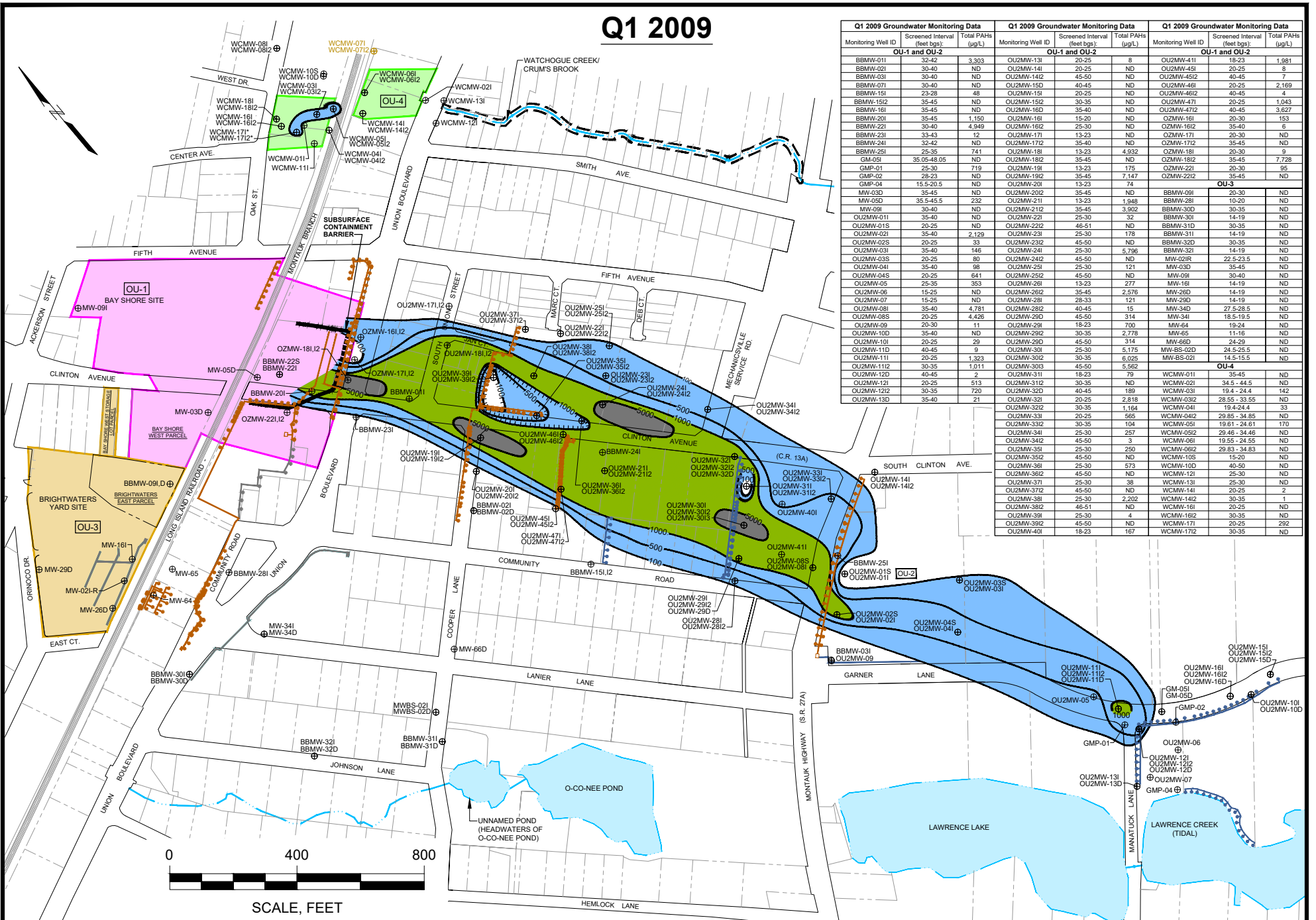
WATER TABLE GROUNDWATER
TOTAL PAH
ISO-CONCENTRATION MAPS
(0-10 FEET BGS)

Project 1905774

December 2022

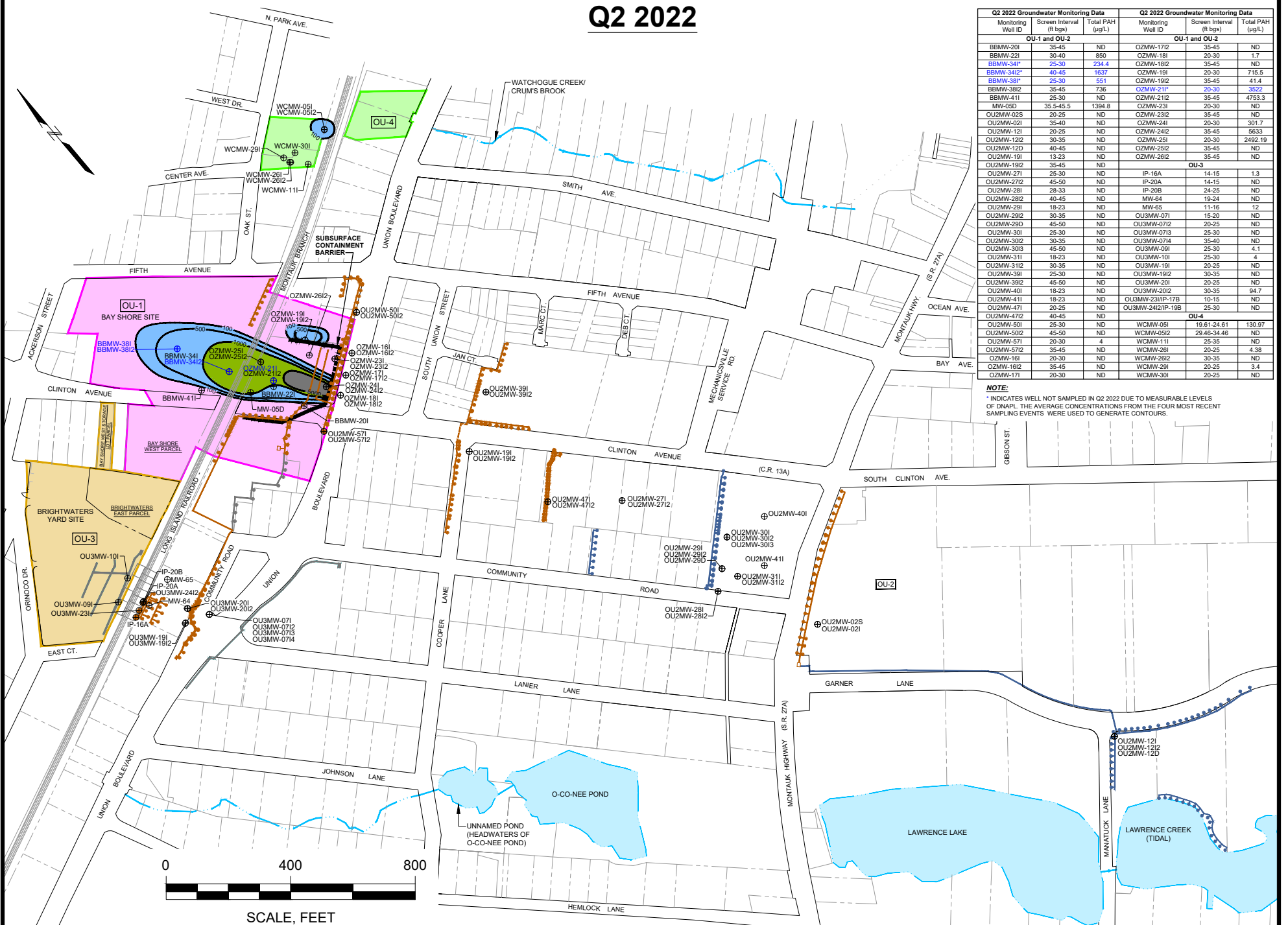
Fig. 12

Q1 2009



Q1 2009 Groundwater Monitoring Data				Q1 2009 Groundwater Monitoring Data				Q1 2009 Groundwater Monitoring Data			
Monitoring Well ID	Screened Interval (feet)	Total PAHs (pg/L)		Monitoring Well ID	Screened Interval (feet)	Total PAHs (pg/L)		Monitoring Well ID	Screened Interval (feet)	Total PAHs (pg/L)	
OU-1 and OU-2				OU-1 and OU-2				OU-1 and OU-2			
BBMW-011	32-42	3,303		OU2MW-13	20-25	8		OU2MW-411	18-23	1,981	
BBMW-021	30-40	ND		OU2MW-141	20-25	ND		OU2MW-451	20-25	8	
BBMW-031	30-40	ND		OU2MW-142	45-50	ND		OU2MW-452	40-45	8	
BBMW-071	30-40	ND		OU2MW-151	20-25	ND		OU2MW-461	20-25	2,169	
BBMW-151	23-28	48		OU2MW-151	20-25	ND		OU2MW-462	40-45	4	
BBMW-152	35-45	ND		OU2MW-152	30-35	ND		OU2MW-471	20-25	1,043	
BBMW-181	35-45	ND		OU2MW-161	30-35	ND		OU2MW-472	40-45	3,627	
BBMW-201	35-45	1,150		OU2MW-161	15-20	ND		OZMW-161	20-30	153	
BBMW-221	30-40	4,940		OU2MW-162	25-30	ND		OZMW-162	35-40	ND	
BBMW-231	33-43	12		OU2MW-171	13-23	ND		OZMW-171	20-30	ND	
BBMW-241	32-42	ND		OU2MW-172	35-40	ND		OZMW-172	35-45	ND	
BBMW-251	25-35	741		OU2MW-181	13-23	4,832		OZMW-181	20-30	ND	
GM-151	35-45	ND		OU2MW-182	35-45	ND		OZMW-182	35-45	7,728	
GMP-01	25-30	719		OU2MW-181	13-23	75		OZMW-221	20-30	95	
GMP-02	28-23	ND		OU2MW-192	35-45	7,147		OZMW-222	35-45	ND	
GMP-04	15-50.5	ND		OU2MW-201	13-23	74					
MW-03D	35-45	ND		OU2MW-202	35-45	ND					
MW-05D	35-45.5	232		OU2MW-211	13-23	1,948					
MW-091	30-40	ND		OU2MW-212	35-45	3,902					
OU2MW-011	35-40	ND		OU2MW-221	25-30	32					
OU2MW-015	ND	ND		OU2MW-231	45-51	ND					
OU2MW-021	35-40	2,129		OU2MW-231	25-30	178					
OU2MW-025	20-25	33		OU2MW-232	45-50	ND					
OU2MW-031	35-40	146		OU2MW-241	25-30	5,736					
OU2MW-035	20-25	88		OU2MW-242	45-50	15					
OU2MW-041	20-25	91		OU2MW-251	25-30	121					
OU2MW-045	20-25	641		OU2MW-252	45-50	ND					
OU2MW-051	25-35	353		OU2MW-261	35-43	277					
OU2MW-06	15-25	ND		OU2MW-262	35-45	2,576					
OU2MW-07	ND	ND		OU2MW-261	25-33	121					
OU2MW-081	35-40	4,781		OU2MW-282	40-45	15					
OU2MW-085	20-25	4,426		OU2MW-290	45-50	314					
OU2MW-091	20-25	11		OU2MW-290	18-23	70					
OU2MW-101	35-40	ND		OU2MW-292	25-35	2,778					
OU2MW-111	20-25	9		OU2MW-298	45-50	314					
OU2MW-111	40-45	9		OU2MW-301	25-30	5,175					
OU2MW-111	20-25	1,323		OU2MW-302	30-35	6,025					
OU2MW-112	30-35	1,011		OU2MW-302	45-50	5,562					
OU2MW-120	40-45	30		OU2MW-311	18-23	79					
OU2MW-121	20-25	513		OU2MW-312	30-35	ND					
OU2MW-121	30-35	720		OU2MW-320	40-45	ND					
OU2MW-132	30-			OU2MW-321	28-38	2,818					
				OU2MW-322	30-35	1,184					
				OU2MW-331	20-25	565					
				OU2MW-332	30-35	104					
				OU2MW-341	25-30	257					
				OU2MW-342	45-50	3					
				OU2MW-351	25-30	250					
				OU2MW-352	45-50	ND					
				OU2MW-361	25-30	573					
				OU2MW-362	ND	ND					
				OU2MW-371	25-30	38					
				OU2MW-372	45-50	ND					
				OU2MW-381	25-30	2,202					
				OU2MW-382	ND	ND					
				OU2MW-391	25-30	4					
				OU2MW-392	45-50	ND					
				OU2MW-401	18-23	167					

Q2 2022



Q2 2022 Groundwater Monitoring Data			Q2 2022 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft/bgs)	Total PAH (µg/L)	Monitoring Well ID	Screen Interval (ft/bgs)	Total PAH (µg/L)
OU-1 and OU-2			OU-1 and OU-2		
BBMW-001	25-30	ND	OU2MW-1172	35-45	ND
BBMW-221	30-40	850	OU2MW-1181	20-30	1.7
BBMW-341*	25-30	234.4	OU2MW-182	35-45	ND
BBMW-342*	40-45	1637	OU2MW-191	20-30	715.5
BBMW-381*	25-30	551	OU2MW-1912	35-45	41.4
BBMW-382	35-45	736	OU2MW-211	20-30	3623
BBMW-411	25-30	ND	OU2MW-212	35-45	4753.3
MW-052	35-45	1394.8	OU2MW-231	20-30	ND
OU2MW-025	20-25	ND	OU2MW-232	35-45	ND
OU2MW-021	35-45	ND	OU2MW-241	20-30	301.7
OU2MW-121	20-25	ND	OU2MW-242	35-45	5633
OU2MW-122	30-35	ND	OU2MW-251	20-30	2492.19
OU2MW-123	40-45	ND	OU2MW-252	35-45	ND
OU2MW-191	13-23	ND	OU2MW-282	35-45	ND
OU2MW-192	35-45	ND	OU-3		
OU2MW-271	25-30	ND	IP-16A	14-15	1.3
OU2MW-272	40-45	ND	IP-20A	14-15	ND
OU2MW-281	28-33	ND	IP-20B	24-25	ND
OU2MW-282	40-45	ND	MW-64	19-24	ND
OU2MW-291	18-23	ND	MW-65	11-16	12
OU2MW-292	30-35	ND	OU3MW-071	15-20	ND
OU2MW-293	40-45	ND	OU3MW-072	20-25	ND
OU2MW-301	25-30	ND	OU3MW-073	25-30	ND
OU2MW-302	30-35	ND	OU3MW-074	35-40	ND
OU2MW-303	45-50	ND	OU3MW-091	25-30	4.1
OU2MW-311	18-23	ND	OU3MW-101	25-30	4
OU2MW-312	30-35	ND	OU3MW-119	20-25	ND
OU2MW-391	25-30	ND	OU3MW-192	30-35	ND
OU2MW-392	45-50	ND	OU3MW-201	20-25	ND
OU2MW-401	18-23	ND	OU3MW-202	30-35	94.7
OU2MW-411	18-23	ND	OU3MW-231P-17B	10-15	ND
OU2MW-471	20-25	ND	OU3MW-242IP-15B	25-30	ND
OU2MW-472	40-45	ND	OU-4		
OU2MW-501	25-30	ND	WCMM-051	19.61-24.61	130.97
OU2MW-502	45-50	ND	WCMM-052	29.46-34.46	ND
OU2MW-571	20-30	4	WCMM-111	25-25	ND
OU2MW-572	35-45	ND	WCMM-261	20-25	4.38
OU2MW-161	20-25	ND	WCMM-282	30-35	ND
OU2MW-182	35-45	ND	WCMM-291	20-25	3.4
OU2MW-171	30-30	ND	OU3MW-301	20-25	ND

NOTE:
* INDICATES WELL NOT SAMPLED IN Q2 2022 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.

⊕BBMW-33	EXISTING MONITORING WELL CLUSTER LOCATION
⊕BBMW-38f	WELL NOT SAMPLED IN Q2 2022 DUE TO MEASURABLE LEVELS OF DNAPL
μg/L	MICROGRAMS PER LITER

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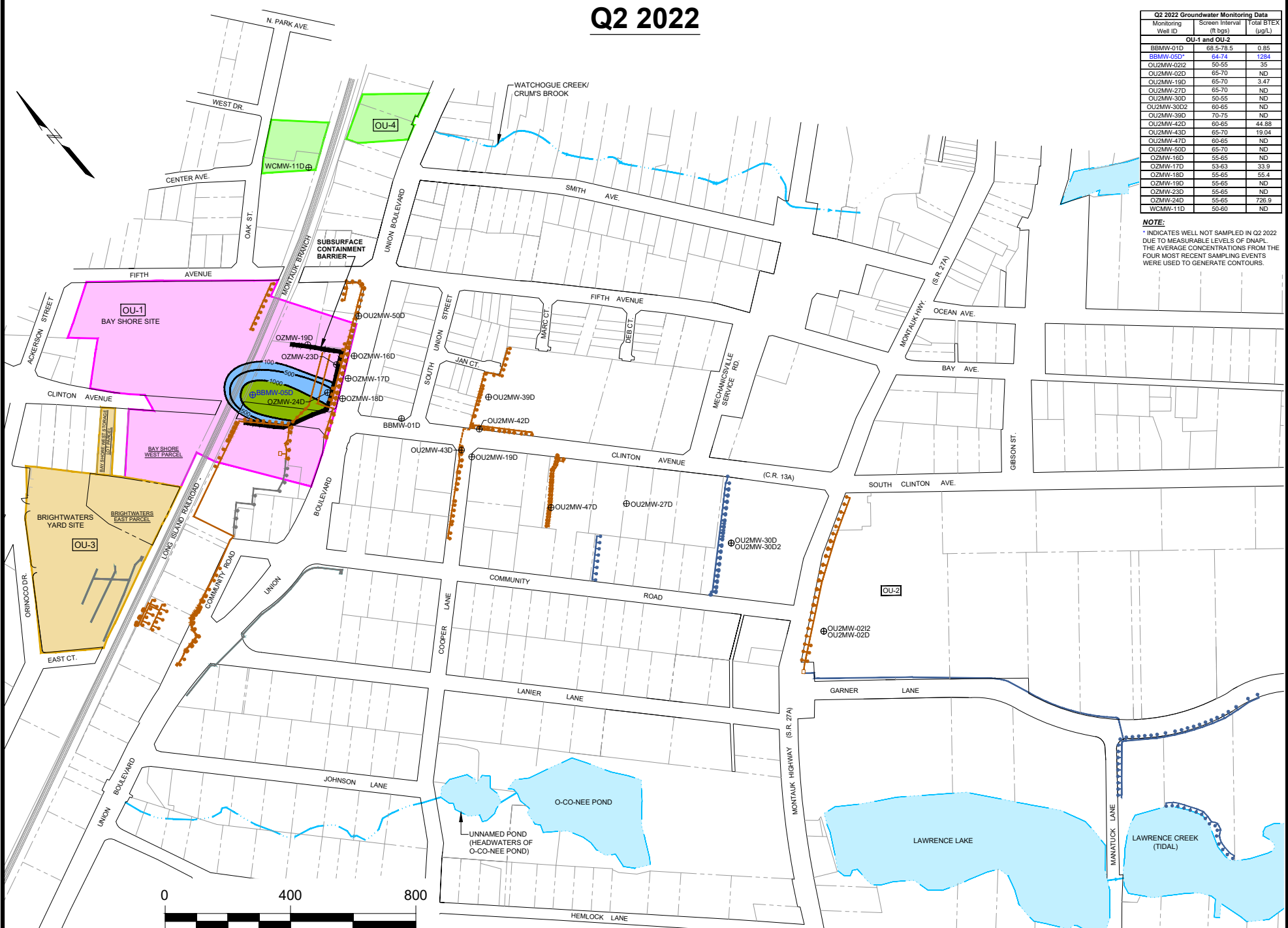
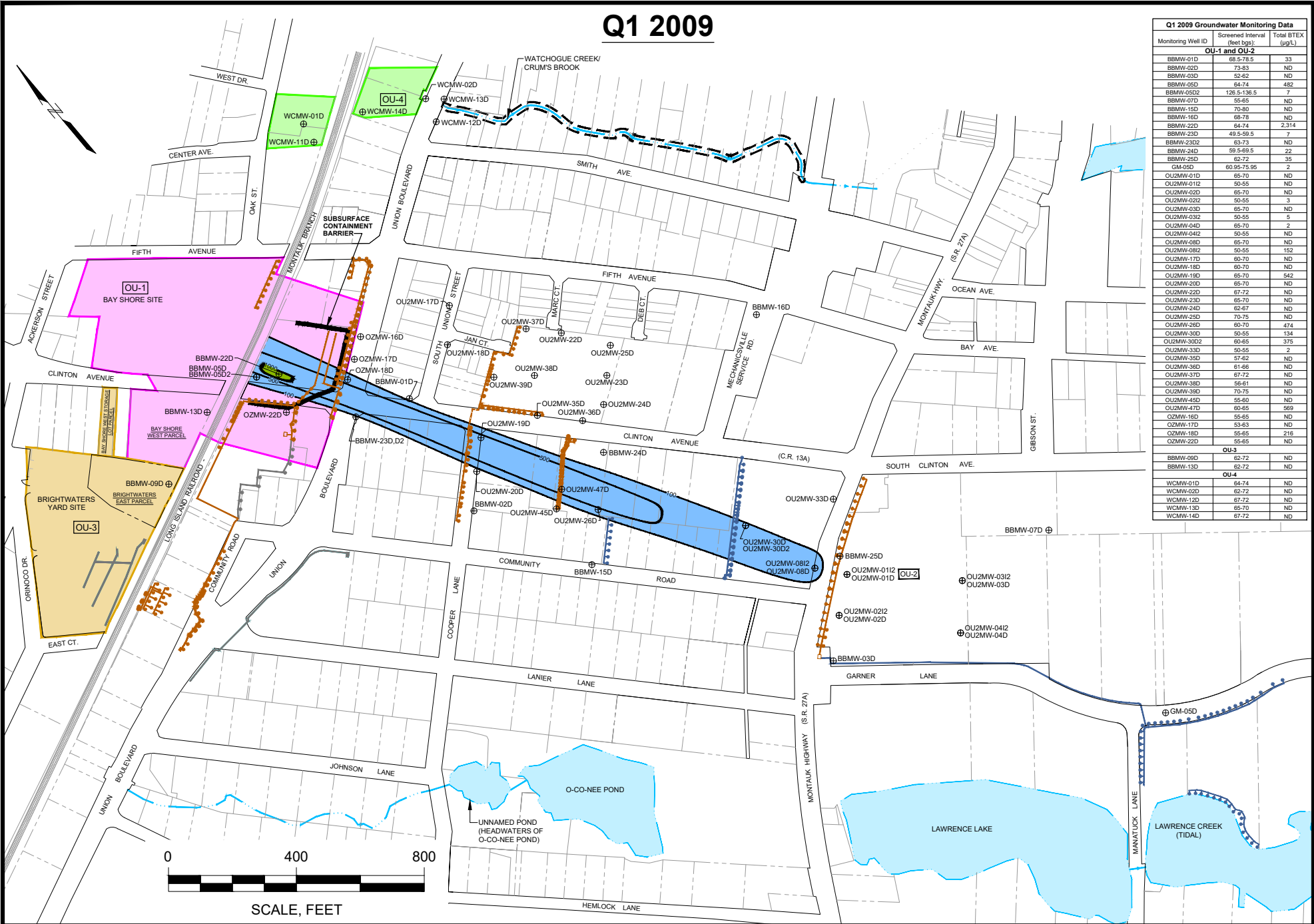
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INTERMEDIATE GROUNDWATER
TOTAL PAH
ISO-CONCENTRATION MAPS
(10-50 FEET BGS)

December 2022

Fig. 14



LEGEND:

⊕BBMW-33 EXISTING MONITORING WELL CLUSTER LOCATION

⊕BBMW-05D WELL NOT SAMPLED IN Q2 2022 DUE TO MEASURABLE LEVELS OF DNAPL

µg/L MICROGRAMS PER LITER

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)

BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE

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

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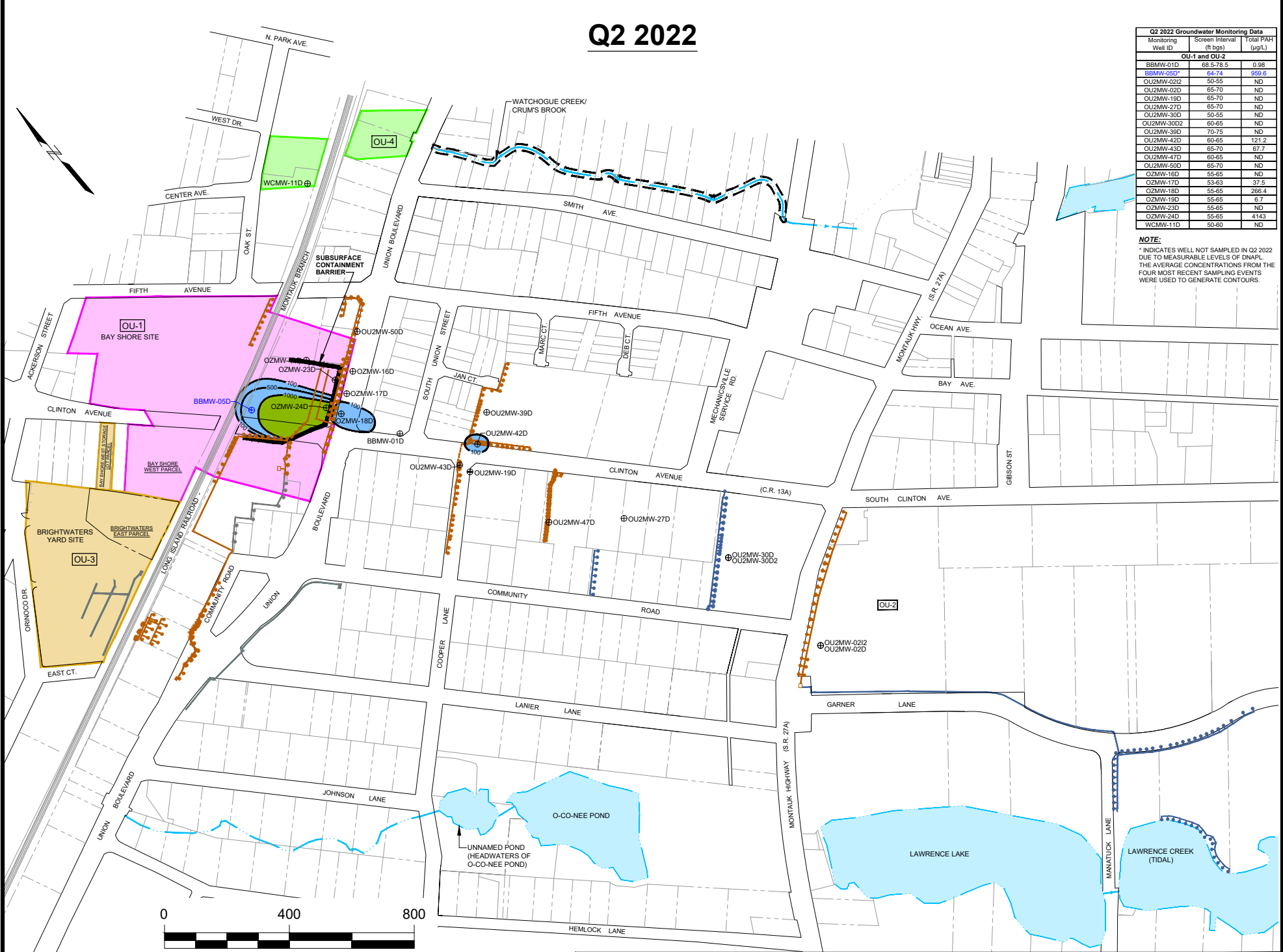
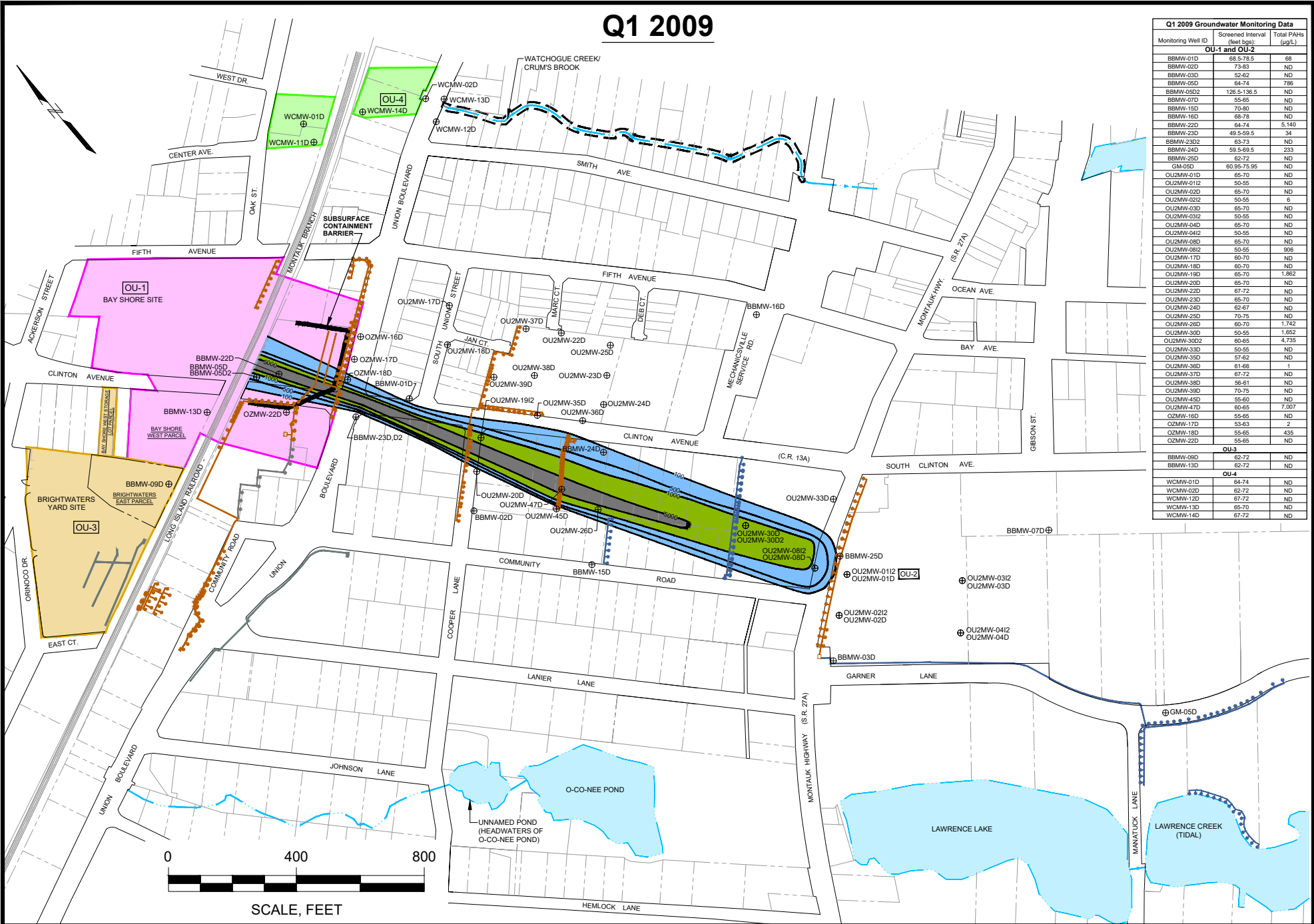
GEI Consultants

Project 1905774

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

December 2022

Fig. 15



⊕BBMW-33

EXISTING MONITORING WELL CLUSTER LOCATION

⊕BBMW-05D

WELL NOT SAMPLED IN Q2 2022 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

PAH

POLYCYCLIC AROMATIC HYDROCARBONS

○

OXYGEN INJECTION LINE - INSTALLED

○

OXYGEN INJECTION LINE - SHUT OFF

○

OXYGEN INJECTION LINE - ABANDONED

ISO-CONCENTRATION LINE (µg/L)

POLYCYCLIC AROMATIC HYDROCARBONS

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

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

December 2022

Fig. 16

Appendix A

Groundwater Monitoring Program Tracking Summary

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 2021	Q4 2021	Q1 2022	Q2 2022
OU-1 Monitoring Wells						
BBMW-05D	74	64-74	X	X	X	X
BBMW-20I	45	35-45	X	X	X	X
BBMW-22S	10	5-10	X	X	X	X
BBMW-22I	10	30-40	X	X	X	X
BBMW-22D	10	64-74	.*	.*	.*	.*
BBMW-34S	10	5-15	X	X	X	X
BBMW-34I	10	25-30	X	X	X	X
BBMW-34I2	10	40-45	.*	.*	.*	.*
BBMW-37S	10	5-15	X	X	X	X
BBMW-38S	10	5-15	X	X	X	X
BBMW-38I	10	25-30	.*	.*	.*	.*
BBMW-38I2	10	40-45	.*	.*	.*	.*
BBMW-38D	10	65-70	-	-	-	-
BBMW-39S	10	5-15	X	X	X	X
BBMW-39I	10	25-30	-	-	-	-
BBMW-39I2	10	45-50	-	-	-	-
BBMW-39D	10	65-70	-	-	-	-
BBMW-40S	10	5-15	X	X	-	X
BBMW-40I	10	25-30	-	-	-	-
BBMW-40I2	10	45-50	-	-	-	-
BBMW-40D	10	70-75	-	-	-	-
BBMW-41S	10	6-16	X	X	X	X
BBMW-41I	10	25-30	-	-	X	X
BBMW-41I2	10	45-50	-	-	-	-
BBMW-41D	10	65-70	-	-	-	-
BBMW-42S	10	5-10	X	X	X	X

Appendix A. Groundwater Monitoring Program Tracking Summary
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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
BBMW-42I	10	15-25	-	-	-	-
BBMW-42I2	10	35-45	-	-	-	-
BBMW-43S	10	5-10	-	-	-	-
BBMW-43I	10	15-25	-	-	-	-
BBMW-43I2	10	35-45	-	-	-	-
MW-03S	10	3-13	-	-	-	-
MW-03D	10	35-45	-	-	-	-
MW-05S	10	4-14	X	X	X	X
MW-05D	10	35.5-45.5	X	X	X	X
MW-09S	10	4-14	-	-	-	-
MW-09I	10	30-40	-	-	-	-
MW-09I2	10	45-50	-	-	-	-
MW-09D	10	65-70	-	-	-	-
OU2MW-48S	10	3-13	-	-	-	-
OU2MW-48I	10	25-30	-	-	-	-
OU2MW-48I2	10	45-50	-	-	-	-
OU2MW-48D	10	65-70	-	-	-	-
OU2MW-49S	10	3-13	-	-	-	-

Appendix A. Groundwater Monitoring Program Tracking Summary
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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
OU2MW-49I	10	25-30	-	-	-	-
OU2MW-49I2	10	45-50	-	-	-	-
OU2MW-49D	10	63-68	-	-	-	-
OU2MW-50S	10	5-15	X	X	X	X
OU2MW-50I	10	25-30	X	X	X	X
OU2MW-50I2	10	45-50	X	X	X	X
OU2MW-50D	10	65-70	X	X	X	X
OU2MW-51S	10	5-15	-	-	-	-
OU2MW-51I	10	25-30	-	-	-	-
OU2MW-51I2	10	45-50	-	-	-	-
OU2MW-51D	10	61-66	-	-	-	-
OU2MW-57S	10	5-15	X	X	X	X
OU2MW-57I	10	20-30	X	X	X	X
OU2MW-57I2	10	35-45	X	X	X	X
OZMW-16S	10	5-15	X	X	X	X
OZMW-16I	10	20-25	X	X	X	X
OZMW-16I2	10	35-40	X	X	X	X
OZMW-16D	10	55-60	X	X	X	X
OZMW-17S	10	5-15	X	X	X	X
OZMW-17I	10	20-25	X	X	X	X
OZMW-17I2	10	35-40	X	X	X	X
OZMW-17D	10	53-63	X	X	X	X
OZMW-18S	10	5-15	X	X	X	X
OZMW-18I	10	20-25	X	X	X	X
OZMW-18I2	10	35-40	X	X	X	X
OZMW-18D	10	55-60	X	X	X	X
OZMW-19S	10	5-15	X	X	X	X

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

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
OZMW-19I	10	20-25	X	X	X	X
OZMW-19I2	10	35-40	X	X	X	X
OZMW-19D	10	55-60	-	-	-	X
OZMW-21S	10	5-15	_*	_*	_*	_*
OZMW-21I	10	20-25	_*	_*	_*	_*
OZMW-21I2	10	35-40	X	X	X	X
OZMW-21D	10	55-60	_*	_*	_*	_*
OZMW-22SR	10	5-15	-	-	-	X
OZMW-22IR	10	20-30	-	-	-	-
OZMW-23S	10	5-15	X	X	X	X
OZMW-23I	10	20-25	X	X	X	X
OZMW-23I2	10	35-40	X	X	X	X
OZMW-23D	10	55-65	X	X	X	X
OZMW-24S	10	5-15	X	X	X	X
OZMW-24I	10	20-25	X	X	X	X
OZMW-24I2	10	35-40	X	X	X	X
OZMW-24D	10	55-65	X	X	X	X
OZMW-25S	10	5-15	X	X	X	X
OZMW-25I	10	20-25	X	X	X	X

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
OZMW-25I2	10	35-40	X	X	X	X
OZMW-25D	10	55-65	-	-	-	-
OZMW-26S	10	5-15	-	-	-	-
OZMW-26I	10	20-25	-	-	-	-
OZMW-26I2	10	35-40	X	X	X	X
OZMW-26D	10	55-65	-	-	-	-
OU1PZ-101	10	4-14	X	X	X	X
OU1PZ-102	10	4-14	X	X	X	X
OU1PZ-103	10	4-14	X	X	X	X
OU1PZ-104	10	4-14	-	-	X	X
OU1PZ-105	10	4-14	X	X	X	X
			53	53	54	57
OU-2 Monitoring Wells						
BBMW-01S	1-15	5-15	-	-	-	-
BBMW-01I	42	32-42	-	-	-	-
BBMW-01D	78.5	68.5-78.5	X	X	X	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	-	-	-	-

Appendix A. Groundwater Monitoring Program Tracking Summary
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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
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	-	-	-	-

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 2021	Q4 2021	Q1 2022	Q2 2022
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	-	-	-	-
OU2MW-01D	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 2021	Q4 2021	Q1 2022	Q2 2022
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	-	-	-	-
OU2MW-06S	8	3-8	-	-	-	-
OU2MW-07	25	15-25	-	-	-	-
OU2MW-07S	8	3-8	-	-	-	-
OU2MW-08WT	8	3-8	-	-	-	-

Appendix A. Groundwater Monitoring Program Tracking Summary
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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
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	-	-	-	-
OU2MW-11I	25	20-25	-	-	-	-
OU2MW-11I2	35	30-35	-	-	-	-
OU2MW-11D	45	40-45	-	-	-	-
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	-	-	-	-

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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 2021	Q4 2021	Q1 2022	Q2 2022
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
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	-	-	-	-

Appendix A. Groundwater Monitoring Program Tracking Summary
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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
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	X	X	X	X
OU2MW-27I	30	25-30	X	X	X	X
OU2MW-27I2	50	45-50	X	X	X	X
OU2MW-27D	70	65-70	X	X	X	X
OU2MW-28S	15	5-15	X	X	X	X
OU2MW-28I	33	28-33	X	X	X	X

Appendix A. Groundwater Monitoring Program Tracking Summary
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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
OU2MW-28I2	45	40-45	X	X	X	X
OU2MW-29I	23	18-23	X	X	X	X
OU2MW-29I2	35	30-35	X	X	X	X
OU2MW-29D	45	40-45	X	X	X	X
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	X	X	X	X
OU2MW-31I2	35	30-35	X	X	X	X
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	-	-	-	-

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
OU2MW-33D	55	50-55	-	-	-	-
OU2MW-34S	15	5-15	-	-	-	-
OU2MW-34IR	30	25-30	-	-	-	-
OU2MW-34I2R	50	45-50	-	-	-	-
OU2MW-35S	15	5-15	-	-	-	-
OU2MW-35I	30	25-30	-	-	-	-
OU2MW-35I2	50	45-50	-	-	-	-
OU2MW-35D	62	57-62	-	-	-	-
OU2MW-36S	15	5-15	-	-	-	-
OU2MW-36I	30	25-30	-	-	-	-
OU2MW-36I2	50	45-50	-	-	-	-
OU2MW-36D	66	61-66	-	-	-	-
OU2MW-37S	15	5-15	-	-	-	-
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	X	X	X	X
OU2MW-40I	23	18-23	X	X	X	X
OU2MW-41S	15	5-15	X	X	X	X

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OU2MW-41I	23	18-23	X	X	X	X
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	-	-	-	-

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
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	-	-	-	-
OU2MW-56D	70	65-70	-	-	-	-
OU2MW-58S	17	5-15	-	-	-	-
OU2MW-58I	32	25-30	-	-	-	-
			46	46	46	46

OU-3 Monitoring Wells

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
TMW-1I	17	12-17	-	X	X	X
TMW-1I2	30	25-30	X	X	X	X
TMW-2I	17	12-17	-	-	-	X
TMW-2I2	30	25-30	X	X	X	X
TMW-3I	17	12-17	X	X	X	X
TMW-3I2	30	25-30	X	X	X	X
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	-	-	-	-

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
BBMW-32I	19	14-19	-	-	-	-
BBMW-32D	35	30-35	-	-	-	-
BBMW-33	12	7-12	-	-	-	-
BW-UST-10	9.95	4.65-9.95	-	-	-	-
BW-UST-11	9.4	4.4-9.4	-	-	-	-
BW-UST-28	10	5-10	-	-	-	-
BW-UST-29	10	5-10	-	-	-	-
GM-02AS		unknown	-	-	-	-
GM-02AI		unknown	-	-	-	-
GM-02AD		unknown	-	-	-	-
IO-10	16	6-16	-	-	-	-
MW-01S	14	4-14	-	-	-	-
MW-01D	45	35-45	-	-	-	-
MW-03	14.94	4.94-14.94	-	-	-	-
MW-04	15.1	4.1-15.1	-	-	-	-
MW-11W	10	2-10	-	-	-	-
MW-12W	10	25-30	-	-	-	-
MW-13W	10	2-10	-	-	-	-
MW-29S	10	5-10	-	-	-	-
MW-29D	19	14-19	-	-	-	-
MW-30W-R	9	2-9	-	-	-	-
MW-32WR	9	2-9	-	-	-	-
MW-33W			-	-	-	-
MW-34S	10	2-10	-	-	-	-
MW-34I	19.5	18.5-19.5	-	-	-	-
MW-34D	28.5	27.5-28.5	-	-	-	-
MW-34DD	40	unknown	-	-	-	-

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
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	-	-	-	-
MW-75	12	2-12	-	-	-	-
MW-75I	27	22-27	-	-	-	-
MW-76	12	2-12	-	-	-	-
MW-78	20	5-20	-	-	-	-

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
MW-79	20	5-20	-	-	-	-
MW-80	20	5-20	-	-	-	-
MW-81	20	5-20	-	-	-	-
MW-82	20	5-20	-	-	-	-
MW-83	20	5-20	X	X	X	X
MW-BS-01S	unknown		-	-	-	-
MW-BS-02S	15	5-15	-	-	-	-
MW-BS-02I	15.5	14.5-15.5	-	-	-	-
MW-BS-02D	25.5	24.5-25.5	-	-	-	-
OU3MW-01S	13	3-13	-	-	-	-
OU3MW-02S	13	3-13	-	-	-	-
OU3MW-02I	20	15-20	-	-	-	-
OU3MW-03S	11	1-11	-	-	-	-
OU3MW-03I	25	20-25	-	-	-	-
OU3MW-04S	11	1-11	-	-	-	-
OU3MW-04I	21	16-21	-	-	-	-
OU3MW-04D	31	26-31	-	-	-	-
OU3MW-04D2	36	31-36	-	-	-	-
OU3MW-04D3	46	41-46	-	-	-	-
OU3MW-05S	12	2-12	-	-	-	-
OU3MW-05I	20	15-20	-	-	-	-
OU3MW-06	13	3-13	-	-	-	-
OU3MW-07S	13	3-13	X	X	X	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

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
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	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	-	-	-	-

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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	-	-	-	-
OU3MW-22I/IP-15A	15	10-15	-	-	-	-
OU3MW-22I2/IP-15B	30	25-30	-	-	-	-
OU3MW-23I/IP-17B	15	10-15	-	-	X	X
OU3MW-23I2/IP-17A	30	25-30	-	-	-	-
OU3MW-24I/IP-19A	15	10-15	-	-	-	-
OU3MW-24I2/IP-19B	30	25-30	X	X	X	X
IP-16A	15	14-15	-	-	-	X
IP-16B	30	29-30	-	-	-	-
IP-18A	15	14-15	-	-	-	-
IP-18B	30	29-30	-	-	-	-
IP-20A	15	14-15	-	-	-	X
IP-20B	30	29-30	X	X	X	X
PDMW-01	20	5-20	-	-	-	-
SV-02	12	2-12	-	-	-	-
SV-02I	27	22-27	-	-	-	-
SV-02I2	40	35-40	-	-	-	-
SV-03	12	2-12	-	-	-	-

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Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2021	Q4 2021	Q1 2022	Q2 2022
			20	20	22	24
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	-	-	-	-
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	X	X	X
WCMW-06S	12	2-12	-	-	-	-
WCMW-06I	24.55	19.55-24.55	-	-	-	-
WCMW-06I2	34.83	29.83-34.83	-	-	-	-
WCMW-07S	12.76	2.76-12.76	-	-	-	-
WCMW-07I	23.9	18.9-23.9	-	-	-	-
WCMW-07I2	33.95	28.95-33.95	-	-	-	-
WCMW-08S	19.2	4.2-19.2	-	-	-	-
WCMW-08I	24.2	19.2-24.2	-	-	-	-

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WCMW-08I2	31.9	26.9-31.9	-	-	-	-
WCMW-10S	20	15-20	-	-	-	-
WCMW-10D	50	40-50	-	-	-	-
WCMW-11S	15	5-15	-	-	-	X
WCMW-11I	35	25-35	-	-	-	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
WCMW-14I	25	20-25	-	-	-	-
WCMW-14I2	35	30-35	-	-	-	-
WCMW-14D	72	67-72	-	-	-	-
WCMW-19S	12	2-12	-	-	-	-
WCMW-19I	25	20-25	-	-	-	-
WCMW-19I2	35	30-35	-	-	-	-
WCMW-22S	12	2-12	-	-	-	-
WCMW-22I	30	25-30	-	-	-	-
WCMW-23S	12	2-12	-	-	-	-
WCMW-23I	30	25-30	-	-	-	-
WCMW-25I	35	30-35	-	-	-	-
WCMW-25D	60	55-60	-	-	-	-
WCMW-26S	12	2-12	-	-	-	X
WCMW-26I	25	20-25	-	-	-	X

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WCMW-26I2	35	30-35	-	-	-	-
WCMW-29S	25	2-12	-	-	-	X
WCMW-29I	25	20-25	-	-	-	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
TOTALS			4	3	3	11
			127	127	130	144

Notes:

*: Monitoring well not sampled if NAPL is present

NAPL= Non-aqueous Phase Liquid

Appendix B

OU-1 Oxygen Injection System Operational Data

Weight of Oxygen Injected through Q2 2021 759,023 lbs

Oxygen to OU-1 Union Boulevard

Operational Days				Oxygen Injected Per Month (lbs)	
Month 1	Jul-21	22		3,397	
Month 2	Aug-21	0		0	
Month 3	Sep-21	0		0	
Total Operational Days in Q3 2021				22	
Total Oxygen in Q3 2021 (lbs)				3,397.29	
Running Total for Oxygen to OU-1 Union Boulevard after Reconfiguration Through Q3 2021 (lbs)				762,420.29	

Notes:

SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CFID (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSia (P) = Pressure converted to atmospheric pressure
n = FV/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 1213PM
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)

System Downtime

7/8/21 - Power outage
1310-1400
7/22/21 - Refrigerator dryer failed
70 days, 8 hours

		7/22/2021										8/18/2021										9/19/2021									
		80.6										91.3										91.0									
		10.73										10.73										10.73									
		661										643										618									
		Temp R (T)																													
Injection Bank 1	Depth	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2												
	Point 51	15	27	26.508	17.230	1	15.7	0.031	21	21.264	13.822	2.0	16.7	0.031	30	29.453	19.145	1.0	15.7	0.041											
	Point 52	25	30	36.188	23.522	9	23.7	0.063	20	24.125	15.681	9.0	23.7	0.049	30	36.188	23.522	9.0	23.7	0.077											
	Point 53	15	27	26.508	17.230	1	15.7	0.031	19	19.239	12.505	2.0	16.7	0.028	29	28.472	18.507	1.0	15.7	0.040											
	Point 54	25	30	35.416	23.020	8	22.7	0.059	22	26.538	17.249	9.0	23.7	0.054	30	35.416	23.020	8.0	22.7	0.072											
	Point 55	15	25	26.427	17.177	3.5	18.2	0.036	19	20.359	13.233	4.0	18.7	0.033	29	31.073	20.197	4.0	18.7	0.052											
	Point 56	25	29	35.712	23.213	10	24.7	0.065	25	30.156	19.602	9.0	23.7	0.061	35	42.219	27.442	9.0	23.7	0.089											
	Point 57	15	23	22.581	14.678	1	15.7	0.026	11	11.786	7.661	4.0	18.7	0.019	29	28.472	18.507	1.0	15.7	0.040											
	Point 58	25	27	32.569	21.170	9	23.7	0.057	21	25.597	16.638	9.5	24.2	0.053	29	34.981	22.738	9.0	23.7	0.074											
	Total Oxygen Injected Per Day (lb)		11.779										10.493										15.496								
Injection Bank 2	Depth	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2												
	Point 47	52	31	44.590	28.984	19.0	33.7	0.111	22	31.645	20.569	19.0	33.7	0.092	36	51.008	33.155	18.0	32.7	0.149											
	Point 45	52	30	43.152	28.049	19.0	33.7	0.107	25	35.960	23.374	19.0	33.7	0.104	36	51.782	33.659	19.0	33.7	0.156											
	Point 48	52	32	44.642	29.017	17.0	31.7	0.105	27	37.667	24.483	17.0	31.7	0.103	36	50.222	32.645	17.0	31.7	0.142											
	Point 44	52	33	46.798	30.392	18.0	32.7	0.113	27	38.256	24.867	18.0	32.7	0.108	32	45.341	29.471	18.0	32.7	0.132											
	Point 46	52	30	43.471	28.256	19.5	34.2	0.110	27	38.124	25.431	19.5	34.2	0.115	34	48.906	31.789	19.0	33.7	0.147											
	Point 14A	62	31	47.784	31.060	24.0	38.7	0.137	20	30.629	20.038	24.0	38.7	0.103	45	69.364	45.086	24.0	38.7	0.239											
	Point 12A	62	37	56.663	36.831	23.5	38.2	0.160	25	38.034	24.722	23.0	37.7	0.123	41	62.376	40.545	23.0	37.7	0.210											
	Point 16A	62	31	47.784	31.060	24.0	38.7	0.137	21	32.370	21.040	24.0	38.7	0.108	45	69.364	45.086	24.0	38.7	0.239											
	Total Oxygen Injected Per Day (lb)		31.321										27.362										45.260								
Injection Bank 3	Depth	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2												
	Point 1	41	30	40.168	26.109	14.5	29.2	0.087	26	34.513	22.433	14.0	28.7	0.085	40	53.557	34.812	14.5	29.2	0.139											
	Point 4	26	31	34.093	22.160	5.0	19.7	0.050	21	23.674	15.388	6.0	20.7	0.042	45	49.489	32.168	5.0	19.7	0.087											
	Point 5	41	30	38.622	25.885	14.0	28.7	0.084	21	27.386	17.801	13.0	27.7	0.065	45	58.884	38.144	13.0	27.7	0.145											
	Point 8	26	27	31.521	20.489	7.5	22.2	0.052	22	25.393	16.506	7.0	21.7	0.047	38	43.861	28.510	7.0	21.7	0.085											
	Point 9	41	29	37.818	24.582	13.0	27.7	0.077	23	30.530	19.845	14.0	28.7	0.075	42	54.771	35.601	13.0	27.7	0.138											
	Point 12	26	27	30.438	19.785	6.0	20.7	0.042	21	24.239	15.755	7.0	21.7	0.045	37	41.711	27.122	6.0	20.7	0.077											
	Point 13	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
	Point 16	25	30	35.416	23.020	8.0	22.7	0.059	29	34.235	22.253	8.0	22.7	0.067	39	46.041	29.526	8.0	22.7	0.093											
	Total Oxygen Injected Per Day (lb)		14.581										13.679										24.382								
Injection Bank 4	Depth	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2												
	Point 2	26	30	34.627	22.508	7.0	21.7	0.056	29	33.473	21.757	7.0	21.7	0.062	35	40.398	26.259	7.0	21.7	0.078											
	Point 3	41	42	53.774	34.963	12.0	26.7	0.106	27	35.210	22.887	13.0	27.7	0.084	50	64.016	41.611	12.0	26.7	0.152											
	Point 6	26	50	64.016	41.611	12.0	26.7	0.126	31	40.427	26.277	13.0	27.7	0.096	50	64.016	41.611	12.0	26.7	0.152											
	Point 7	41	40	47.221	30.694	8.0	22.7	0.078	29	36.094	19.951	8.0	22.7	0.060	48	56.666	36.833	8.0	22.7	0.115											
	Point 10	26	46	54.899	35.685	8.5	23.2	0.094	25	29.513	19.184	8.0	22.7	0.058	40	47.221	30.694	8.0	22.7	0.096											
	Point 11	41	32	42.846	27.850	14.5	29.2	0.092	30	40.168	26.109	14.5	29.2	0.101	40	54.014	35.109	15.0	29.7	0.143											
	Point 14	26	40	47.221	30.694	8.0	22.7	0.079	30	35.416	23.020	8.0	22.7	0.069	40	46.169	30.610	7.0	21.7	0.089											
	Point 15	41	37	50.861	32.748	15.5	30.2	0.112	30	41.187	26.771	16.0	30.7	0.109	44	59.415	38.620	15.0	29.7	0.157											
	Total Oxygen Injected Per Day (lb)		23.842										20.449										31.467								
Injection Bank 5	Depth	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2												
	Point 17	62	40	60.855	39.556	23.0	37.7	0.189	30	45.641	29.667	23.0	37.7	0.148	40	60.855	39.556	23.0	37.7	0.205											
	Point 18	41	31	39.317	25.556	11.5	26.2	0.076	29	37.129	24.134	12.0	26.7	0.085	35	43.964	28.577	11.0	25.7	0.101											
	Point 19	26	35	40.398	26.259	7.0	21.7	0.065	29	33.473	21.757	7.0	21.7	0.062	33	38.958	25.322	8.0	22.7	0.079											
	Point 22	22	36	40.584	26.379	6.0	20.7	0.062	27	31.521	20.489	7.5	22.2	0.060	36	40.584	26.379	6.0	20.7	0.075											
	Point 24	37	45	56.525	36.742	11.0	25.7	0.107	25	32.008	20.805	12.0	26.7	0.074	45	56.525	36.742	11.0	25.7	0.130											
	Point 25	22	40	44.545	28.964	5.5	20.2	0.066	22	24.801	16.121	6.0	20.7	0.044	42	46.190	30.023	5.0	19.7	0.081											
	Point 59	15	41	44.514	28.934	4.5	19.2	0.063	27	29.314	19.054	4.5	19.2	0.048	42	45.002	29.252	4.0	18.7	0.075											
	Point 49	62	40	59.219	38.492	21.0	35.7	0.156	31	46.533	30.246	22.0	36.7	0.147	40	59.219	38.492	21.0	35.7	0.189											
	Total Oxygen Injected Per Day (lb)		24.494										21.405										29.877								
Injection Bank 6	Depth	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2												
	Point 20	61	31	46.849	30.452	22.5	37.2	0.129	25	39.519	25.697	26.0	40.7	0.138	37	56.291	36.589	23.0	37.7	0.189											
	Point 26	57	32	46.707	30.359	20.0	34.7	0.120	29	42.632	27.711	20.5	39.2	0.129	34	46.626	32.357	20.0	34.7	0.154											
	Point 27	37	31	38.940	25.311	11.0	25.7	0.074	25	31.603	20.412	11.0	25.7	0.069	31	38.940	25.311	11.0	25.7	0.089											
	Point 28	22	32	36.074	23.448	6.0	20.7	0.055	29	32.692	21.250	6.0	20.7	0.058	36	39.591	25.734	5.0	19.7	0.070											
	Point 30	22	30	33.820	21.983	6.0	20.7	0.052	29	32.692	21.250	6.0	20.7	0.058	33	37.202	24.181	6.0	20.7	0.069											
	Point 32	22	40	43.990	28.994	5.0	19.7	0.064	29	32.295	20.992	5.5	20.2	0.056	36	38.573	25.073	4.0	18.7	0.064											
	Point 60	15	31	32.769	21.300	3.5	18.2	0.044	27	28.146	18.295	3.0	17.7	0.043	32	33.358	21.683	3.0	17.7	0.053											
	Point 50	62	37	56.663	36.831	23.5	38.2	0.160	31	47.163	30.656	23.0	37.7	0.153	37	56.291	36.589	23.0	37.7	0.189											
	Total Oxygen Injected Per Day (lb)		22.310										22.565										28.056								
Injection Bank 7	Depth	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=FV/RT lbs O2												
	Point 21	37	39	49.933	32.456	12.0	26.7	0.098	21	26.887	17.476	12.0	26.7	0.062	41	52.493	34.121	12.0	26.7	0.125											
	Point 31	22	37	40.691	26.449	5.0	19.7	0.059	20	22.547	14.655	6.0	20.7	0.040	41	45.090	29.309	5.0	19.7	0.079											
	Point 33	22	29	32.692	21.250	6.0	20.7	0.059	20	23.095	15.005	7.0	21.7	0.043	40	45.093	29.311	6.0	20.7	0.083											
	Point 34	22	35	39.456	26.047	6.0	20.7	0.067	20	22.547	14.661	6.0	20.7	0.040	40	45.093	29.311	6.0	20.7	0.084											
	Point 35	22	37	40.691	26.449	5.0	19.7	0.059	20	23.095	15.005	7.0	21.7	0.043	34	38.329	24.914	6.0	20.7	0.071											
	Point 36	22	30	33.409	21.716	5.5	20.2	0.050	19	21.419	13.922	6.0	20.7	0.038	36	40.584	26.379	6.0	20.7	0.075											
	Point 36A	62	35	53.950	35.067	24.0	38.7	0.154	12	18.497	12.023	24.0	38.7	0.062	46	70.905	46.088	24.0	38.7	0.245											
	Point 36B	41	31	41.861	2																										

GEI Consultants, Inc., P.C.

System Downtime	Days/Hours
1/2/22 - Power Outage 1750 - 1820	0/0.5
1/5/22 - Compressor low on oil 0334 - 1300	0/9.5
1/21/22 - 2/15/22 - Compressor low on oil 1000 - 1400	25/6

November 2022

Weight of Oxygen Injected through Q1 2022 783,144 lbs

Oxygen to OU-1 Union Boulevard			
Operational Days		Oxygen Injected Per Month (lbs)	
Month 1	April 22	30	3,935
Month 2	May 22	31	5,891
Month 3	Jun 22	30	5,096
Total Operational Days in Q2 2022		91	
Total Oxygen in Q2 2022 (lbs)		14,922.53	
Running Total for Oxygen to OU-1 Union Boulevard after Reconfiguration Through Q2 2022 (lbs)		797,956.36	

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 1213PM
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)

System Downtime Days/Hours

		5/5/2022												5/20/2022												6/16/2022											
		88.3												87.2												88.3											
		10.73												10.73												10.73											
		611												611												682											
		Temp R (T)																																			
Injection Bank 1	Point 51	15	30	28.981	18.837	0.5	15.2	0.036	28	27.490	17.868	1.0	15.7	0.042	32	31.417	20.421	1.0	15.7	0.040	32	31.417	20.421	1.0	15.7	0.040											
	Point 52	25	37	32.223	20.945	8.5	23.2	0.062	28	33.775	21.954	9.0	23.7	0.077	35	42.219	27.442	9.0	23.7	0.082	35	42.219	27.442	9.0	23.7	0.082											
	Point 53	15	31	29.450	19.143	0	14.7	0.036	28	27.490	17.868	1.0	15.7	0.042	39	37.675	24.489	0.5	15.2	0.047	39	37.675	24.489	0.5	15.2	0.047											
	Point 54	25	30	35.416	23.020	8	22.7	0.067	28	33.775	21.954	9.0	23.7	0.077	33	38.968	25.322	8.0	22.7	0.073	33	38.968	25.322	8.0	22.7	0.073											
	Point 55	15	32	32.884	21.374	2.5	17.2	0.047	28	30.002	19.901	4.0	18.7	0.054	34	34.939	22.710	2.5	17.2	0.049	34	34.939	22.710	2.5	17.2	0.049											
	Point 56	25	28	33.775	21.954	8	23.7	0.068	28	34.130	22.184	8.5	24.2	0.080	31	37.786	24.561	9.5	24.2	0.075	31	37.786	24.561	9.5	24.2	0.075											
	Point 57	15	29	29.354	19.087	2	16.7	0.041	26	27.859	18.108	4.0	18.7	0.050	32	32.884	21.374	2.5	17.2	0.046	32	32.884	21.374	2.5	17.2	0.046											
	Point 58	25	30	36.188	23.522	9	23.7	0.071	30	36.567	23.769	9.5	24.2	0.085	32	38.600	25.090	9.0	23.7	0.075	32	38.600	25.090	9.0	23.7	0.075											
	Total Oxygen Injected Per Day (lb)		12.625												16.212												15.612										
Injection Bank 2	Point 47	52	30	42.507	27.630	18.0	22.7	0.115	28	40.275	26.179	19.0	32.7	0.131	31	44.258	28.768	18.5	32.2	0.121	31	44.258	28.768	18.5	32.2	0.121											
	Point 48	52	29	41.402	26.812	18.5	22.2	0.114	27	39.837	25.244	19.0	32.7	0.126	34	42.175	27.932	19.0	32.7	0.129	34	42.175	27.932	19.0	32.7	0.129											
	Point 49	52	30	42.181	27.417	17.5	22.2	0.113	28	39.673	25.788	18.0	32.7	0.125	32	44.642	29.037	17.0	21.7	0.116	32	44.642	29.037	17.0	21.7	0.116											
	Point 44	52	30	42.507	27.630	18.0	22.7	0.115	28	40.275	26.179	19.0	32.7	0.131	28	39.673	25.788	18.0	32.7	0.106	28	39.673	25.788	18.0	32.7	0.106											
	Point 46	52	30	43.471	28.256	19.5	34.2	0.123	30	43.788	28.462	20.0	34.7	0.146	30	43.152	28.049	19.0	33.7	0.119	30	43.152	28.049	19.0	33.7	0.119											
	Point 14A	62	32	49.006	31.854	23.5	38.2	0.155	32	49.325	32.061	24.0	38.7	0.184	34	52.069	33.845	23.5	38.2	0.163	34	52.069	33.845	23.5	38.2	0.163											
	Point 12A	62	33	50.205	32.633	23.0	37.7	0.157	32	48.484	31.645	23.0	37.7	0.177	35	52.894	34.381	22.5	37.2	0.161	35	52.894	34.381	22.5	37.2	0.161											
	Point 16A	62	29	44.701	29.056	24.0	38.7	0.143	32	50.272	32.677	25.5	40.2	0.195	36	55.491	36.069	24.0	38.7	0.176	36	55.491	36.069	24.0	38.7	0.176											
	Total Oxygen Injected Per Day (lb)		31.125												38.872												34.957										
Injection Bank 3	Point 1	41	26	34.513	22.433	14.0	28.7	0.080	30	40.188	26.109	14.5 <td>29.2</td> <td>0.113</td> <td>40</td> <td>53.096</td> <td>34.513</td> <td>14.0</td> <td>28.7</td> <td>0.125</td> <td>40</td> <td>53.096</td> <td>34.513</td> <td>14.0</td> <td>28.7</td> <td>0.125</td>	29.2	0.113	40	53.096	34.513	14.0	28.7	0.125	40	53.096	34.513	14.0	28.7	0.125											
	Point 4	26	24	27.056	17.586	6.0	20.7	0.046	30	32.993	21.445	5.0	19.7	0.063	38	42.838	27.845	6.0	20.7	0.073	38	42.838	27.845	6.0	20.7	0.073											
	Point 5	41	24	31.298	20.344	13.0	27.7	0.072	30	36.122	25.430	13.0	27.7	0.104	36	46.947	30.516	13.0	27.7	0.130	36	46.947	30.516	13.0	27.7	0.130											
	Point 8	26	22	25.393	16.506	7.0	21.7	0.046	28	32.319	21.007	7.0	21.7	0.068	32	36.508	23.730	6.5	21.2	0.063	32	36.508	23.730	6.5	21.2	0.063											
	Point 9	41	23	27.049	17.842	8.5	23.2	0.053	29	38.495	25.022	14.0	28.7	0.106	33	43.421	28.224	13.5	28.2	0.130	33	43.421	28.224	13.5	28.2	0.130											
	Point 12	26	22	24.801	16.121	6.0	20.7	0.043	29	33.473	21.757	7.0	21.7	0.070	32	36.074	23.448	6.0	20.7	0.061	32	36.074	23.448	6.0	20.7	0.061											
	Point 13	41	26	34.513	22.433	14.0	28.7	0.080 <td>30</td> <td>40.188</td> <td>26.109</td> <td>14.5</td> <td>29.2</td> <td>0.113</td> <td>40</td> <td>53.096</td> <td>34.513</td> <td>14.0</td> <td>28.7</td> <td>0.125</td> <td>40</td> <td>53.096</td> <td>34.513</td> <td>14.0</td> <td>28.7</td> <td>0.125</td>	30	40.188	26.109	14.5	29.2	0.113	40	53.096	34.513	14.0	28.7	0.125	40	53.096	34.513	14.0	28.7	0.125											
	Point 16	25	27	31.874	20.718	8.0	22.7	0.060	24	28.643	18.618	8.5	23.2	0.064	28	33.055	21.496	8.0	22.7	0.062	28	33.055	21.496	8.0	22.7	0.062											
	Total Oxygen Injected Per Day (lb)		12.838												18.822												18.919										
Injection Bank 4	Point 2	26	23	26.547	17.256	7.0	21.7	0.048	26	29.311	19.052	6.0	20.7	0.058	29	33.085	21.505	6.5	21.2	0.058	29	33.085	21.505	6.5	21.2	0.058											
	Point 3	41	31	40.060	26.039	12.0	27.2	0.090	30	39.122	25.430	13.0	27.7	0.104	38	48.852	31.824	12.0	26.7	0.097	38	48.852	31.824	12.0	26.7	0.097											
	Point 6	24	31	39.290	24.330	13.0	27.7	0.078	34	37.818	24.562	13.0	27.7	0.101	34	44.319	28.830	13.0	27.7	0.130	34	44.319	28.830	13.0	27.7	0.130											
	Point 7	41	24	28.333	18.438	8.0	22.7	0.075	28	33.055	21.486	8.0	22.7	0.072	35	41.319	26.897	8.0	22.7	0.077	35	41.319	26.897	8.0	22.7	0.077											
	Point 10	26	16	18.889	12.278	8.0	22.7	0.036	30	35.804	23.273	8.5	23.2	0.080	39	46.041	29.926	8.0	22.7	0.086	39	46.041	29.926	8.0	22.7	0.086											
	Point 11	41	26	34.812	22.628	14.5	29.2	0.084	28	37.810	24.576	15.0	29.7	0.108	33	44.561	28.965	15.0	29.7	0.109	33	44.561	28.965	15.0	29.7	0.109											
	Point 14	26	29	34.235	22.253	8.0	22.7	0.064	28	33.055	21.486	8.0	22.7	0.072	32	37.359	24.263	7.5	22.2	0.068	32	37.359	24.263	7.5	22.2	0.068											
	Point 15	41	28	37.490	24.368	14.5	29.2	0.091	28	37.810	24.576	15.0	29.7	0.108	30	40.188	26.109	14.5	29.2	0.096	30	40.188	26.109	14.5	29.2	0.096											
	Total Oxygen Injected Per Day (lb)		17.214												22.559												22.413										
Injection Bank 5	Point 17	62	23	33.691	21.899	23.5	38.2	0.107	38	58.574	38.073	24.0	38.7	0.218	40	60.895	39.555	23.0	37.7	0.188	40	60.895	39.555	23.0	37.7	0.188											
	Point 18	41	26	33.288	21.638	12.0	26.7	0.074	28	35.849	23.302	12.0	26.7	0.092	30	38.410	24.966	12.0	26.7	0.086	30	38.410	24.966	12.0	26.7	0.086											
	Point 19	26	25	28.856	18.756	7.0	21.7	0.052	26	30.010	19.507	7.0	21.7	0.063	28	32.319	21.007	7.0	21.7	0.058	28	32.319	21.007	7.0	21.7	0.058											
	Point 22	23	23	26.240	17.095	6.5	20.6	0.046	28	31.365	20.517	6.0	20.7	0.053	31	37.202	24.481	6.0	20.7	0.063	31	37.202	24.481	6.0	20.7	0.063											
	Point 24	37	20	25.366	16.488	11.5	25.2	0.055	30	38.410	24.966	12.0	26.7	0.099	37	42.732	30.792	12.0	26.7	0.104	37	42.732	30.792	12.0	26.7	0.104											
	Point 25	22	23	26.240	17.096	6.5	21.2	0.046	26	29.311	19.052	6.0	20.7	0.058	31	34.947	22.716	6.0	20.7	0.059	31	34.947	22.716	6.0	20.7	0.059											
	Point 59	15	21	22.800	14.820	4.5	19.2	0.036	30	32.571	21.171	4.5	19.2	0.066	34	36.430	23.680	4.0	18.7	0.056	34	36.430	23.680	4.0	18.7	0.056											
	Point 49	62	20	30.021	19.514	22.0	36.7	0.091	35	52.537	34.149	22.0	36.7	0.186	39	58.941	38.052	22.0	36.7	0.176	39	58.941	38.052	22.0	36.7	0.176											
	Total Oxygen Injected Per Day (lb)		16.222												26.873												25.227										
Injection Bank 6	Point 20	61	32	48.684	31.645	23.0	37.7	0.132	35	46.841	29.667	23.0	37.7	0.156	35	46.338	29.469	22.5	37.2	0.138	35	46.338	29.469	22.5	37.2	0.138											
	Point 26	57	31	45.572	29.622	20.5	35.2	0.133	35	52.537	34.149	22.0	36.7	0.186	34	49.982	32.488	20.5	35.2	0.144	34	49.982	32.488	20.5	35.2	0.144											
	Point 27	37	34	43.122	28.029	11.5	26.2	0.094	32	40.196	26.127	11.0	25.7	0.100	33	41.853	27.205	11.5	26.2	0.090	33	41.853	27.205	11.5	26.2	0.090											
	Point 28	22	22	24.801	16.121	6.0	20.7	0.043	30	36.020	21.983	6.0	20.7	0.067	32	36.074	23.448	6.0	20.7	0.061	32	36.074	23.448	6.0	20.7	0.061											
	Point 30	22	20	22.547	14.655	6.0	20.7	0.039	28	31.565	20.517	6.0	20.7	0.063	34	38.329	24.914	6.0	20.7	0.065	34	38.329	24.914	6.0	20.7	0.065											
	Point 32	23	20	22.273	14.477	5.5	20.2	0.037	30	32.993	21.445	5.5	19.7	0.063	38	42.838	27.845	6.0	20.7	0.073	38	42.838	27.845	6.0	20.7	0.073											
	Point 60	15	19	19.525	12.693	2.5	17.2	0.028	30	32.145	20.984	4.0	18.7	0.058	33	33.911	22.042	2.5	17.2	0.048	33	33.911	22.042	2.5	17.2	0.048											
	Point 50	62	30	46.943	29.883	23.5	38.2	0.105	35	53.950	35.067	24.0	38.7	0.201	37	57.400	37.310	24.5	39.2	0.185																	

Total Weight of Oxygen Injected through Q2 2021 1,051,871 lbs
Weight of Oxygen Injected through Q2 2021 (OU-1) 360,744 lbs
Weight of Oxygen Injected through Q2 2021 (OU-3) 691,127 lbs

Oxygen to OU-1 (60/66 N. Clinton)		
Operational Days		
Oxygen Injected Per Month (lbs)		
Month 1	0	#DIV/0!
Month 2	0	#DIV/0!
Month 3	0	#DIV/0!
Total Operational Days In Q3 2021		0
Total Oxygen in OU-1 in Q3 2021 (lbs)		#DIV/0!
Running Total for Oxygen to OU-1 Through Q3 2021 (lbs)		360,744.00

Oxygen to OU-3 (Community Road)		
Operational Days		
Oxygen Injected Per Month (lbs)		
Month 1	0	#DIV/0!
Month 2	0	#DIV/0!
Month 3	0	#DIV/0!
Total Operational Days In Q3 2021		0
Total Oxygen in OU-3 in Q3 2021 (lbs)		#DIV/0!
Running Total for Oxygen to OU-3 Through Q3 2021 (lbs)		691,127.00

Running Total for Oxygen System (OU-1 and OU-3) Through Q3 2021 (lbs)		1,051,871.00
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Notes:

SCFH (M) = Measured flow rate

SCFH (C) = Flow rate converted for oxygen (Flow meters are calibrated for air)

CFID (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 NYSDDEC. 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

notes: in injection bank 6, Point 10, 13, and 9 were

changed to Point 12, 15, and 16 respectively for the June check.

System Downtime

5/22/21-7/27/21 - Cooling fan broke on compressor

0328 - 1030

07/27/21 - (date missing) - Sensor failed on compressor

2155 - (time missing)

65 days, 2 hours

			System Down												System Down												System Down												
O ₂ %																																							
Temp R (T)			10.73												10.73												10.73												
Injection Bank 1		Depth	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	
	Point 1A*	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!		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 1B*	35		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		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 2A*	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!		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 2B*	35		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		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 3A*	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!		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 3B*	35		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		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 4A*	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!		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 4B*	35		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		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 5A*	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!		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 5B*	35		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!		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!												
Injection Bank 2		Depth	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	
	Point 1A	15		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	28	31.382	39.912	5.5	20.2	#DIV/0!	28	31.382	39.912	5.5	20.2	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!
	Point 1B	25		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!
	Point 2A	15		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	28	31.382	39.912	5.5	20.2	#DIV/0!	28	31.382	39.912	5.5	20.2	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!
	Point 2B	25		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!
	Point 3A	15		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!
	Point 3B	25		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!
Point 4A	15		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	28	31.382	39.912	5.5	20.2	#DIV/0!	28	31.382	39.912	5.5	20.2	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	
Total Oxygen Injected Per Day (lb)			#DIV/0!												#DIV/0!												#DIV/0!												
Injection Bank 6		Depth	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	
	Point 4B	25		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	27	33.249	53.198	10.0	24.7	#DIV/0!	27	33.249	53.198	10.0	24.7	#DIV/0!	30	36.963	56.811	11.5	26.2	#DIV/0!	30	36.963	56.811	11.5	26.2	#DIV/0!
	Point 5A	15		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	28	30.793	49.269	5.0	19.7	#DIV/0!	28	30.793	49.269	5.0	19.7	#DIV/0!	30	32.963	42.231	5.0	19.7	#DIV/0!	30	32.963	42.231	5.0	19.7	#DIV/0!
	Point 5B	25		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	28	30.793	49.269	5.0	19.7	#DIV/0!	28	30.793	49.269	5.0	19.7	#DIV/0!	30	32.963	42.231	5.0	19.7	#DIV/0!	30	32.963	42.231	5.0	19.7	#DIV/0!
	Point 6	25		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	24	29.254	46.806	5.5	24.2	#DIV/0!	24	29.254	46.806	5.5	24.2	#DIV/0!	30	32.971	43.591	4.5	19.2	#DIV/0!	30	32.971	43.591	4.5	19.2	#DIV/0!
	Point 7	25		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	27	33.249	53.198	10.0	24.7	#DIV/0!	27	33.249	53.198	10.0	24.7	#DIV/0!	30	36.963	56.811	11.5	26.2	#DIV/0!	30	36.963	56.811	11.5	26.2	#DIV/0!
	Point 11	25		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	42	46.772	74.636	5.5	20.2	#DIV/0!	42	46.772	74.636	5.5	20.2	#DIV/0!	30	32.971	43.591	4.5	19.2	#DIV/0!	30	32.971	43.591	4.5	19.2	#DIV/0!
	Point 12	15		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	41	49.975	79.961	9.5	24.2	#DIV/0!	41	49.975	79.961	9.5	24.2	#DIV/0!	30	32.971	43.591	4.5	19.2	#DIV/0!	30	32.971	43.591	4.5	19.2	#DIV/0!
	Point 15	25		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	41	49.975	79.961	9.5	24.2	#DIV/0!	41	49.975	79.961	9.5	24.2	#DIV/0!	30	32.971	43.591	4.5	19.2	#DIV/0!	30	32.971	43.591	4.5	19.2	#DIV/0!
	Point 14	15		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	43	46.686	74.697	4.5	19.2	#DIV/0!	43	46.686	74.697	4.5	19.2	#DIV/0!	30	32.971	43.591	4.5	19.2	#DIV/0!	30	32.971	43.591	4.5	19.2	#DIV/0!
Point 16	16		0.000	0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	42	46.190	73.904	5.0	19.7	#DIV/0!	42	46.190	73.904	5.0	19.7	#DIV/0!	30	32.971	43.591	4.5	19.2	#DIV/0!	30	32.971	43.591	4.5	19.2	#DIV/0!	
Total Oxygen Injected Per Day (lb)			#DIV/0!												#DIV/0!												#DIV/0!												
OU-1 System Total Per Day (lb)			#DIV/0!												#DIV/0!												#DIV/0!												
Oxygen Going to OU-3 (Community Road)																																							
Injection Bank 2		Depth	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	
	Point 16	21	20		0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	31	31.390	40.179	2.0	16.7	#DIV/0!	31	31.390	40.179	2.0	16.7	#DIV/0!	30	34.961	44.776	9.0	23.7	#DIV/0!	30	34.961	44.776	9.0	23.7	#DIV/0!
	Point 17	21	21		0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	29	34.961	44.776	9.0	23.7	#DIV/0!	29	34.961	44.776	9.0	23.7	#DIV/0!	30	34.961	44.776	9.0	23.7	#DIV/0!	30	34.961	44.776	9.0	23.7	#DIV/0!
	Point 29	21	19		0.000			14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	28	33.055	42.310	8.0	22.7	#DIV/0!	28	33.055	42.310	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!	30	35.416	45.332	8.0	22.7	#DIV/0!
Total Oxygen Injected Per Day (lb)			#DIV/0!												#DIV/0!												#DIV/0!												
Injection Bank 3		Depth	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O ₂	
	Point 18	23	23		0.000	0.000		14.7	#DIV/0!		0.000	0.000		14.7	#DIV/0!	38	44.860	71.776	8.0	22.7	#DIV/0!	38	44.860	71.776	8.0	22.7	#DIV/0!	30	32.971	43.591	4.5	19.2	#DIV/0!	30	32.971	43.591	4.5	19.2	#DIV/0!
	Point 19A	16		0.000																																			

Total Weight of Oxygen Injected through Q3 2021 1,051,871 lbs
Weight of Oxygen Injected through Q3 2021 (OU-1) 360,744 lbs
Weight of Oxygen Injected through Q3 2021 (OU-3) 691,127 lbs

Oxygen to OU-1 (6066 N. Clinton)		
Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-21	6
Month 2	Nov-21	30
Month 3	Dec-21	31
Total Operational Days in Q4 2021		67
Total Oxygen in OU-1 in Q4 2021 (lbs)		10,240.56
Running Total for Oxygen to OU-1 through Q4 2021 (lbs)		370,984.56

Oxygen to OU-3 (Community Road)		
Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-21	6
Month 2	Nov-21	30
Month 3	Dec-21	31
Total Operational Days in Q4 2021		67
Total Oxygen in OU-3 in Q4 2021 (lbs)		12,498.75
Running Total for Oxygen to OU-3 through Q4 2021 (lbs)		703,625.75
Running Total for Oxygen System (OU-1 and OU-3) through Q4 2021 (lbs)		1,074,610.31

Notes:

SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CFD (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 NYSDDEC. Once terminated, Injection point 8, 9, 12, and 15 will be connected to the manifold.

Total of 5 injection banks

Banks 1 & 2: Oxygen is injected for 8 minutes during each injection cycle

Each injection bank operates for 9.6 injection cycles per day

Each injection point injects oxygen for 76.8 min per day (8 min per cycle * 9.6 cycles)

Banks 3, 4, & 5: Oxygen is injected for 10 minutes during each injection cycle

Each injection bank operates for 9.6 injection cycles per day

Each injection point injects oxygen for 96 min per day (10 min per cycle * 9.6 cycles)

Example

Bank 1 starts injection at 700AM

Bank 1 finishes injection at 708AM

System is recharging 708AM to 730AM

Bank 2 starts injection at 730AM

Bank 2 finishes injection at 738AM

System is recharging 738AM to 800AM

Bank 3 starts injection at 800AM

Bank 3 finishes injection at 810AM

System is recharging from 810AM to 830AM

Bank 4 starts injection at 830AM

Bank 4 finishes injection at 840AM

System is recharging from 840AM to 900AM

Bank 5 starts injection at 900AM

Bank 5 finishes injection at 910AM

System is recharging from 910AM to 930AM

Bank 6 starts injection at 1000AM

Bank 6 finishes injection at 1010AM

System is recharging from 1010AM to 930AM

note: in injection bank 6, Point 10, 13, and 9 were

changed to Point 12, 15, and 16 respectively for the June check.

System Downtime

7/27/21-10/26/21 - Sensor on compressor failed

2155-0900

11/2/21 - Power outage

1200-1240

12/8/21 - Biannual maintenance

0700 - 0900

O ₂ % Temp R (T)			10/27/2021										11/17/2021										12/17/2021									
			95.2										76.1										89.7									
			10.73										10.73										10.73									
			620										618										620									
Injection Bank 1	Point 1A*	25	50	58,373	74,717	7.5	22.2	0.237	29	33,473	42,945	7.0	21.7	0.107	43	49,632	63,529	7.0	21.7	0.186												
	Point 1B*	35	35	44,390	56,839	11.5	26.2	0.213	27	27,902	35,715	11.5	26.2	0.107	48	60,294	77,176	11.0	25.7	0.267												
	Point 2A*	25	41	46,402	61,954	8.0	22.7	0.201	27	31,874	40,799	8.0	22.7	0.106	39	46,041	58,932	8.0	22.7	0.180												
	Point 2B*	35	40	51,690	66,164	12.5	27.2	0.258	34	31,014	39,698	12.5	27.2	0.124	46	58,895	75,386	12.0	26.7	0.271												
	Point 3A*	25	44	50,198	64,253	6.5	21.2	0.195	27	30,438	38,960	6.0	20.7	0.093	39	43,966	56,276	6.0	20.7	0.157												
	Point 3B*	35	34	44,339	56,754	13.0	27.7	0.225	24	31,014	39,698	12.5	27.2	0.124	42	54,275	69,472	12.5	27.2	0.255												
	Point 4A*	25	40	48,250	61,760	9.0	23.7	0.209	26	31,030	39,718	8.5	23.2	0.106	37	44,158	56,522	8.5	23.2	0.177												
	Point 4B*	35	37	46,665	62,510	13.5	28.2	0.251	22	28,420	36,590	12.5	27.2	0.114	41	52,963	67,818	12.5	27.2	0.249												
	Point 5A*	25	39	47,044	60,216	9.0	23.7	0.204	23	27,450	35,136	8.5	23.2	0.094	36	43,425	55,594	9.0	23.7	0.178												
	Point 5B*	35	38	50,000	64,000	13.5	28.2	0.258	22	28,690	36,723	13.0	27.7	0.117	40	52,163	66,769	13.0	27.7	0.249												
Total Oxygen Injected Per Day (lb)			72.080										34.892										69.423									
Injection Bank 2	Point 1A	15	44	49,000	62,720	5.5	20.2	0.181	28	31,182	39,912	5.5	20.2	0.093	36	40,091	51,316	5.5	20.2	0.140												
	Point 1B	25	51	60,867	77,909	8.5	23.2	0.259	32	38,191	48,884	8.5	23.2	0.130	38	44,860	57,421	8.0	22.7	0.176												
	Point 2A	15	44	49,000	62,720	5.5	20.2	0.181	29	31,893	40,623	5.0	19.7	0.092	37	40,171	51,419	4.5	19.2	0.133												
	Point 2B	25	38	45,352	58,060	8.5	23.2	0.193	30	35,416	45,322	8.0	22.7	0.118	36	42,499	54,399	8.0	22.7	0.167												
	Point 3A	15	40	43,990	56,308	5.0	19.7	0.159	29	31,480	40,302	4.5	19.2	0.089	35	38,000	48,640	4.5	19.2	0.126												
	Point 3B	25	33	40,638	52,016	10.0	24.7	0.184	27	32,911	42,126	9.5	24.2	0.117	35	42,662	54,607	9.5	24.2	0.178												
	Point 4A	15	40	44,545	57,018	5.5	20.2	0.165	27	29,314	37,522	4.5	19.2	0.093	35	38,492	49,269	5.0	19.7	0.131												
Total Oxygen Injected Per Day (lb)			42.285										23.089										33.604									
Injection Bank 6	Point 4B	25	35	42,862	58,299	9.5	24.2	0.236	21	26,997	40,495	9.5	24.2	0.114	40	48,787	70,010	9.5	24.2	0.205												
	Point 5A	15	20	36,750	58,800	5.5	20.2	0.170	21	25,204	40,950	5.5	20.2	0.091	38	43,138	67,410	5.5	20.2	0.162												
	Point 5B	25	32	39,005	62,408	9.5	24.2	0.216	20	24,125	38,600	9.0	23.7	0.105	44	53,075	84,320	9.0	23.7	0.271												
	Point 6	25	36	44,332	70,930	10.0	24.7	0.251	20	24,125	38,600	9.0	23.7	0.105	42	50,663	81,060	9.0	23.7	0.259												
	Point 7	25	34	41,869	66,990	10.0	24.7	0.237	20	24,378	39,005	9.5	24.2	0.108	46	56,070	89,712	9.5	24.2	0.293												
	Point 12	15	50	56,366	90,188	6.0	20.7	0.267	34	37,863	60,581	5.5	20.2	0.140	54	60,136	96,218	5.5	20.2	0.282												
	Point 11	25	48	58,508	93,612	9.5	24.2	0.324	29	35,348	55,658	9.5	24.2	0.157	72	86,650	138,961	9.0	23.7	0.444												
Point 15	25	47	57,289	91,662	8.5	24.2	0.317	28	34,130	54,507	8.5	24.2	0.152	76	92,637	148,220	8.5	24.2	0.484													
Point 14	15	50	54,286	86,857	4.5	19.2	0.239	34	36,014	59,063	4.5	19.2	0.130	38	62,971	100,754	4.5	19.2	0.281													
Point 16	18	52	57,909	92,654	5.5	20.2	0.268	33	36,292	58,067	5.0	19.7	0.131	61	67,085	107,337	5.0	19.7	0.285													
Total Oxygen Injected Per Day (lb)			80.807										39.492										95.209									
OU-1 System Total Per Day (lb)			195.17										97.47										198.34									
Oxygen Going to OU-3 (Community Road)																																
Injection Bank 2	Point 16	21	39	46,545	59,578	8.5	23.2	0.198	29	31,944	40,888	6.5	21.2	0.099	35	38,054	48,709	5.5	18.2	0.120												
	Point 17	31	39	47,538	60,848	9.5	24.2	0.211	26	31,363	40,144	9.0	23.7	0.109	36	42,219	54,040	9.0	23.7	0.173												
	Point 29	21	40	47,739	61,105	8.5	23.2	0.203	26	30,694	39,288	8.0	22.7	0.102	40	47,221	60,443	8.0	22.7	0.185												
	Total Oxygen Injected Per Day (lb)			15,564										9,952										15,271								
Injection Bank 3	Point 18	21	47	56,694	70,710	9.0	23.7	0.308	34	41,013	51,620	9.0	23.7	0.178	34	40,138	51,221	8.0	22.7	0.197												
	Point 19A	16	45	51,941	63,105	7.0	21.7	0.258	34	39,694	50,510	7.5	22.2	0.162	34	38,329	48,327	6.0	20.7	0.171												
	Point 19B	27	45	55,973	69,557	10.5	25.2	0.323	33	40,638	50,020	10.0	24.7	0.184	35	43,100	53,961	10.0	24.7	0.230												
	Point 25A	16	45	56,525	70,443	11.0	25.7	0.333	33	41,462	51,323	11.0	25.7	0.196	35	43,100	53,961	10.0	24.7	0.230												
	Point 26A	16	40	46,169	57,871	7.0	21.7	0.229	38	32,919	41,710	7.0	21.7	0.129	36	40,944	51,934	6.0	20.7	0.181												
	Point 26B	27	44	55,290	68,433	11.0	25.7	0.325	33	37,640	46,237	6.5	21.2	0.147	35	43,534	54,655	10.5	25.2	0.237												
	Point 27A	16	41	46,775	58,441	6.5	21.2	0.227	30	37,684	46,294	11.0	25.7	0.178	33	37,648	46,237	6.5	21.2	0.172												
	Point 27B	27	39	49,463	61,143	11.5	26.2	0.297	27	31,164	39,863	7.0	21.7	0.124	35	43,534	54,655	10.5	25.2	0.237												
	Point 29A	16	48	55,403	68,645	7.0	21.7	0.275	32	37,359	46,774	7.5	22.2	0.152	34	38,329	48,327	6.0	20.7	0.171												
	Point 29B	27	36	45,658	57,053	11.5	26.2	0.274	28	35,512	44,819	11.5	26.2	0.171	34	42,708	53,323	11.0	25.7	0.237												
Total Oxygen Injected Per Day (lb)			51.153										51.861										65.978									
Injection Bank 4	Point 20A	16	39	45,531	57,845	7.5	22.2	0.231	29	33,473	42,945	7.0	21.7	0.113	36	43,861	55,178	7.0	21.7	0.205												
	Point 21B	27	40	49,754	76,006	10.5	25.2	0.287	27	33,594	53,734	10.5	25.2	0.155	36	44,778	71,645	10.5	25.2	0.343												
	Point 22A	16	42	49,033	78,453	7.5	22.2	0.249	30	34,627	55,403	7.0	21.7	0.138	37	42,707	68,331	7.0	21.7	0.200												
	Point 22B	27	45	57,073	91,316	11.5	26.2	0.342	28	35,171	56,274	11.0	25.7	0.166	36	45,220	72,363	11.0	25.7	0.251												
	Point 23A	16	40	46,634	73,015	6.5	21.2	0.222	28	31,182	49,891	5.5	20.2	0.116	35	39,930	63,888	6.5	21.2	0.183												
	Point 23C	11	45	49,489	79,183	5.0	19.7	0.223	32	34,743	55,989	4.5	19.2	0.122	34	36,914	59,063	4.5	19.2	0.153												
	Point 24B	27	42	53,288	85,229	11.5	26.2	0.320	27	33,015	54,294	11.0	25.7	0.160	35	43,964	70,343	11.0	25.7	0.244												
	Point 21A	11	27	46,150	72,954	11.0	25.7	0.254	29	31,410	49,117	4.0	18.7	0.107	34	36,400	59,063	4.0	18.7	0.147												
	Point 23C	22	48	57,900	92,640	9.0	23.7	0.314	30	35,416	56,666	9.0	22.7	0.148	34	40,338	64,221	9.0	22.7	0.197												
	Point 33B	21	37	38,022	60,835	2.5	17.2	0.150	29	28,921	46,274	1.5	16.2	0.086	34	33,908	54,253	1.5	16.2	0.139												
Total Oxygen Injected Per Day (lb)			81.892										42.600										62.194									
Injection Bank 5	Point 20B	27	35	44,900	71,024	11.5	26.2	0.26	23	28,891	46,225	11.0	25.7	0.136	40	50,245	80,392	11.0	25.7	0.279												
	Point 22A	16	38	43,861	70,178	7.0	21.7	0.218	26	29,662	47,480	6.5	21.2	0.115	37	42,812	67,539	6.5	21.2	0.193												
	Point 23B	27	39	48,026	76,842	10.0	24.7	0.275	23	29,035	44,856	9.5	24.2	0.125	39	47,158	76,060	9.5	24.2	0.248												
	Point 24A	16	42	48,478	77,565	7.0	21.7	0.241	28	31,944	51,111	6.5	21.2	0.124	40	45,034	73,015	6.5	21.2	0.209												
	Point 25B	27	42	48,478	77,565	7.0	21.7	0.241	28	31,965	50,504	6.0	20.7	0.120	40	45,093	72,149	6.0	20.7	0.201												
	Point 31B	33	38	49,555	79,288	13.0	27.7	0.314	22	28,430	45,487	12.5	27.2	0.142	40	51,690	82,705	12.5	27.2	0.303												
	Point 32A	11	40	43,990	70,385	5.0	19.7	0.198	28	30,002	48,009	4.0	17.7	0.103	40	43,429	69,486	4.5	19.2	0.180												
Point 32C	33	36	47,369	75,790	13.5	28.2	0.305	22	28,690	45,904	13.0	27.7	0.146	39	50,689	81,375	13.0	27.7	0.304													
Point 33A	11	41	42,740	68,384	3.0	17.7	0.173	30	30,377	48,603	2.0	16.7	0.093	40	41,104	65,787	2.5	17.2	0.153													
Point 33C	33	38	46,452	78,324	2.0	16.7	0.139	28	25,930	41,487	1.5	16.2	0.077	35	35,440	56,704	2.0	16.7	0.128													
Total Oxygen Injected Per Day (lb)			75.798										37.821										70.312									
OU-3 System Total Per Day (lb)			288.82										142.23										213.66									

Notes:

- SCFH (M) = Measured flow rate
- SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
- CFID (V) = Volume of oxygen injected per Day
- PSI (M) = Measured pressure
- PSia (P) = Pressure converted to atmospheric pressure.
- $n = PV/RT$ = (lb Moles)
- $P = n^*32$ lb/lb mole
- Temperature = Degrees Rankine
- $R = \text{Constant (0.73)}$
- N* - 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 NYSEDEC. Once terminated, Injection point 8, 9, 12, and 15 will be connected to the manifold.

System Downtime	Days/Hours
1/2/22-1/3/22 - Power Outage 1750-0900	0/15
3/10/22-3/11/22 - Compressor Alarm 1300-0900	0/20

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Total Weight of Oxygen Injected through Q1 2022	1,102,807 lbs
Weight of Oxygen Injected through Q1 2022 (OU-1)	384,013 lbs
Weight of Oxygen Injected through Q1 2022 (OU-3)	718,794 lbs

Oxygen to OU-1 (60/66 N. Clinton)			
Operational Days		Oxygen Injected Per Month (lbs)	
Month 1	Apr-22	30	4,937
Month 2	May-22	30	4,075
Month 3	Jun-22	30	4,357
Total Operational Days in Q2 2022		90	
Total Oxygen in OU-1 in Q2 2022 (lbs)		13,369.73	
Running Total for Oxygen to OU-1 Through Q2 2022 (lbs)		397,382.73	

Oxygen to OU-3 (Community Road)			
Operational Days		Oxygen Injected Per Month (lbs)	
Month 1	Apr-22	30	6,204
Month 2	May-22	30	4,894
Month 3	Jun-22	30	5,307
Total Operational Days in Q2 2022		90	
Total Oxygen in OU-3 in Q2 2022 (lbs)		16,405.01	
Running Total for Oxygen to OU-3 Through Q2 2022 (lbs)		735,199.01	
Running Total for Oxygen System (OU-1 and OU-3) Through Q2 2022 (lbs)		1,132,581.74	

Notes:

SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CFID (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.

System Downtime Days/Hours

		4/19/2022										5/18/2022										6/16/2022									
O ₂ %		93.6										96.2										96.7									
R		10.73										10.73										10.73									
Temp R (T)		618										623										625									
Injection Bank 1	Depth	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂						
	Point 1A*	25	33	38.526	48.313	7.5	22.2	0.105	28	32.319	41.368	7.0	21.7	0.132	29	31.893	40.823	5.0	19.7	0.116											
	Point 1B*	35	32	40.585	51.949	11.5	26.2	0.192	36	45.658	58.442	11.5	26.2	0.218	26	32.659	41.804	11.0	25.7	0.195											
	Point 2A*	25	34	40.138	51.377	8.0	22.7	0.165	27	31.874	40.799	8.0	22.7	0.132	29	34.235	43.821	8.0	22.7	0.143											
	Point 2B*	35	33	42.645	54.585	12.5	27.2	0.210	30	38.768	49.623	12.5	27.2	0.192	28	36.183	46.315	12.5	27.2	0.182											
	Point 3A*	25	34	38.789	49.650	6.5	21.2	0.149	26	29.662	37.968	6.5	21.2	0.115	29	32.692	41.846	6.0	20.7	0.125											
	Point 3B*	35	32	41.731	53.415	13.0	27.7	0.209	33	42.645	54.585	12.5	27.2	0.211	29	37.475	47.969	12.5	27.2	0.188											
	Point 4A*	25	34	40.578	51.940	8.5	23.2	0.170	26	31.000	39.718	8.5	23.2	0.131	30	35.804	45.829	8.5	23.2	0.153											
	Point 4B*	25	31	40.427	51.746	13.0	27.7	0.202	33	43.035	55.864	13.0	27.7	0.217	30	39.122	50.077	13.0	27.7	0.200											
	Point 5A*	25	33	39.806	50.952	9.0	23.7	0.170	27	32.569	41.688	9.0	23.7	0.141	30	36.188	46.320	9.0	23.7	0.158											
	Point 5B*	35	34	44.339	56.754	13.0	27.7	0.222	33	40.427	51.746	13.0	27.7	0.204	30	39.122	50.077	13.0	27.7	0.200											
Total Oxygen Injected Per Day (lb)		58.977										54.062										51.860									
Injection Bank 2	Depth	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂						
	Point 1A	15	32	36.074	46.175	6.0	20.7	0.135	26	28.954	37.062	5.5	20.2	0.107	30	33.409	42.763	5.5	20.2	0.125											
	Point 1B	25	38	44.860	57.421	8.0	22.7	0.184	20	23.611	30.222	8.0	22.7	0.098	30	35.416	45.332	8.0	22.7	0.148											
	Point 2A	15	33	36.292	46.454	5.0	19.7	0.129	24	26.934	33.785	5.0	19.7	0.095	30	32.571	41.691	4.5	19.2	0.115											
	Point 2B	25	34	40.578	51.940	8.5	23.2	0.170	26	30.094	39.288	8.0	22.7	0.127	30	35.416	45.332	8.0	22.7	0.148											
	Point 3A	15	34	37.392	47.862	5.0	19.7	0.133	26	28.229	36.133	4.5	19.2	0.099	30	32.571	41.691	4.5	19.2	0.115											
	Point 3B	25	33	40.638	52.016	10.0	24.7	0.181	28	34.130	43.686	9.5	24.2	0.151	30	36.567	46.806	9.5	24.2	0.163											
Total Oxygen Injected Per Day (lb)		34.135										24.774										29.935									
Injection Bank 6	Point 4B	25	32	39.005	62.408	9.5	24.2	0.213	24	29.254	46.806	9.5	24.2	0.181	26	31.363	50.180	9.0	23.7	0.171											
	Point 5A	15	31	34.093	54.548	5.0	19.7	0.152	24	26.394	42.231	5.0	19.7	0.118	27	29.694	47.510	5.0	19.7	0.135											
	Point 5B	25	39	47.538	76.060	9.5	24.2	0.260	25	30.156	48.250	9.0	23.7	0.163	26	31.363	50.180	9.0	23.7	0.171											
	Point 6	25	31	37.786	60.458	9.5	24.2	0.207	26	31.692	50.707	9.5	24.2	0.175	25	30.473	48.757	9.5	24.2	0.170											
	Point 7	25	29	35.712	57.129	10.0	24.7	0.199	26	34.130	54.607	9.5	24.2	0.186	26	31.692	50.707	9.5	24.2	0.177											
	Point 12	15	44	49.000	76.395	5.5	20.2	0.224	34	37.893	60.581	5.5	20.2	0.174	40	44.545	72.272	5.5	20.2	0.208											
	Point 11	25	43	52.413	83.861	9.5	24.2	0.286	34	41.443	66.309	9.5	24.2	0.229	42	51.194	81.911	9.5	24.2	0.286											
	Point 15	25	42	51.194	81.911	9.5	24.2	0.280	37	45.100	72.160	9.5	24.2	0.249	40	48.757	78.010	9.5	24.2	0.272											
	Point 14	15	44	47.771	73.934	4.5	19.2	0.207	34	36.914	59.063	4.5	19.2	0.161	40	43.429	69.486	4.5	19.2	0.192											
	Point 16	16	42	46.190	76.404	5.0	19.7	0.206	33	36.292	58.067	5.0	19.7	0.163	40	43.990	70.385	5.0	19.7	0.200											
Total Oxygen Injected Per Day (lb)		71.451										57.088										63.454									
OU-1 System Total Per Day (lb)		164.56										135.84										145.25									
Oxygen Going to OU-3 (Community Road)																															
Injection Bank 2	Depth	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂						
	Point 16	21	34	33.908	43.402	1.5	16.2	0.099	26	25.930	33.190	1.5	16.2	0.077	29	28.472	36.444	1.0	15.7	0.083											
	Point 17	21	33	40.224	51.487	9.5	24.2	0.176	26	31.363	40.144	9.0	23.7	0.135	29	34.981	44.776	9.0	23.7	0.153											
	Point 29	21	36	42.499	54.399	8.0	22.7	0.174	30	35.416	45.332	8.0	22.7	0.147	30	35.416	45.332	8.0	22.7	0.148											
Total Oxygen Injected Per Day (lb)		14.382										11.476										12.285									
Injection Bank 3	Depth	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂						
	Point 18	21	35	41.771	66.634	8.5	23.2	0.219	27	31.874	50.999	8.0	22.7	0.165	28	33.055	50.888	8.0	22.7	0.173											
	Point 19A	16	35	39.930	63.888	6.5	21.2	0.191	28	31.565	50.504	6.0	20.7	0.149	28	31.944	51.111	6.5	21.2	0.156											
	Point 19B	27	36	44.332	70.911	10.0	24.7	0.247	25	30.786	49.258	10.0	24.7	0.137	29	35.712	57.139	10.0	24.7	0.204											
	Point 25A	16	35	43.964	70.343	11.0	25.7	0.205	32	39.803	63.685	10.5	24.2	0.229	32	39.803	63.685	10.5	24.2	0.231											
	Point 26A	16	34	38.789	62.063	6.5	21.2	0.186	26	29.662	47.460	6.5	21.2	0.143	29	33.085	52.936	6.5	21.2	0.162											
	Point 26B	27	34	42.708	68.333	11.0	25.7	0.248	28	34.828	55.724	10.5	25.2	0.200	32	39.803	63.685	10.5	25.2	0.231											
	Point 27A	16	34	38.789	62.063	6.5	21.2	0.186	27	30.438	48.701	6.0	20.7	0.144	30	33.820	54.112	6.0	20.7	0.162											
	Point 27B	27	34	42.708	68.333	11.0	25.7	0.248	26	32.659	52.255	11.0	25.7	0.191	29	36.071	57.174	10.5	25.2	0.210											
	Point 28A	16	36	41.071	65.714	6.5	21.2	0.197	24	27.056	42.289	5.0	20.7	0.129	29	32.692	52.308	6.0	20.7	0.156											
	Point 28B	27	32	40.585	64.936	11.5	26.2	0.240	28	35.171	56.274	11.0	25.7	0.206	28	35.171	56.274	11.0	25.7	0.209											
Total Oxygen Injected Per Day (lb)		70.928										55.272										60.589									
Injection Bank 4	Depth	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n*PV/RT lbs O ₂						
	Point 20A	16	33	37.648	60.237	6.5	21.2	0.180	30	34.627	55.403	7.0	21.7	0.171	29	33.473	53.557	7.0	21.7	0.168											
	Point 21B	27	33	41.047	65.875	10.5	25.2	0.234	34	41.443	66.309	9.5	24.2	0.229	30	36.943	58.109	10.0	24.7	0.211											
	Point 22A	16	32	35.508	58.412	6.5	21.2	0.175	26	29.662	47.460	6.5	21.2	0.143	30	34.226	54.761	6.5	21.2	0.167											
	Point 22B	27	32	40.585	64.936	11.5	26.2	0.240	29	35.712	57.139	10.0	24.7	0.201	31	38.940	62.501	11.0	25.7	0.231											
	Point 23A	16	31	34.947	55.915	6.0	20.7	0.163	25	27.841	44.565	5.5	21.2	0.128	29	32.692	52.308	6.0	20.7	0.156											
	Point 23C	11	31	33.657	53.801	4.5	19.2	0.146	24	26.057	41.691	4.5	19.2	0.114	30	32.571	52.114	4.5	19.2	0.144											
	Point 24B	27	31	38.940	62.304	11.0	25.7	0.226	25	31.403	50.245	11.0	25.7	0.184	30	37.684	60.294	11.0	25.7	0.223											
	Point 31A	11	36	39.086	62.537	4.5	19.2	0.169	24	25.716	41.145	4.0	18.7	0.130	30	32.145	51.431	4.0	18.7	0.139											
	Point 32B	21	30	35.804	57.286	8.5	23.2	0.188	23	27.450	43.919	8.5	23.2	0.145	29	34.610	55.977	8.5	23.2	0.185											
	Point 33B	21	36	35.903	57.444	1.5	16.2	0.131	27	26.083	41.722	0.5	15.2	0.090	30																

Weight of Oxygen Injected through Q2 2021 301,967 lbs

O₂%

R

Temp R (T)

7/21/2021									8/9/2021									9/8/2021								
85.2									83.6									94.3								
10.73									10.73									10.73								
620									668									613								
SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2									
31	29.947	25.954	0.5	15.2	0.051	30	29.453	25.526	1.0	15.7	0.047	32	32.402	28.082	2.0	16.7	0.067									
29	34.235	29.671	8.0	22.7	0.086	35	41.319	35.809	8.0	22.7	0.095	35	41.771	36.202	8.5	23.2	0.120									
27	36.151	31.331	14.5	29.2	0.117	30	40.168	34.812	14.5	29.2	0.119	38	51.313	44.471	15.0	29.7	0.189									
30	42.507	36.839	18.0	32.7	0.154	30	42.831	37.120	18.5	33.2	0.144	40	57.536	49.865	19.0	33.7	0.241									
10	9.500	8.233	0.0	14.7	0.016	12	11.400	9.880	0.0	14.7	0.017	19	18.949	16.422	1.5	16.2	0.038									
27	31.521	27.319	7.5	22.2	0.078	30	34.627	30.010	7.0	21.7	0.076	69	80.555	69.814	7.5	22.2	0.222									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
16.045									15.896									28.105								
SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2									
25	33.473	29.010	14.5	29.2	0.108	26	34.812	30.170	14.5	29.2	0.103	0	0.000	0.000	15.0	29.7	0.000									
30	43.152	37.398	19.0	33.7	0.161	31	44.590	38.645	19.0	33.7	0.152	25	35.960	31.165	19.0	33.7	0.151									
10	9.500	8.233	0.0	14.7	0.016	20	19.000	16.467	0.0	14.7	0.028	21	19.950	17.290	0.0	14.7	0.036									
11	13.128	11.378	8.5	23.2	0.034	37	43.680	37.856	8.0	22.7	0.100	22	25.972	22.509	8.0	22.7	0.073									
20	26.779	23.208	14.5	29.2	0.087	35	46.862	40.614	14.5	29.2	0.138	28	37.490	32.491	14.5	29.2	0.136									
14	21.015	18.213	22.0	36.7	0.086	35	52.537	45.532	22.0	36.7	0.195	24	36.025	31.222	22.0	36.7	0.164									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
15.731									22.923									17.938								
SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2									
31	33.216	28.787	4.0	18.7	0.069	29	31.486	27.288	4.5	19.2	0.061	30	32.571	28.229	4.5	19.2	0.078									
30	35.804	31.030	8.5	23.2	0.092	27	32.223	27.927	8.5	23.2	0.076	29	34.610	29.996	8.5	23.2	0.100									
35	46.862	40.614	14.5	29.2	0.152	30	40.168	34.812	14.5	29.2	0.119	26	34.812	30.170	14.5	29.2	0.126									
30	43.471	37.675	19.5	34.2	0.165	32	46.029	39.892	19.0	33.7	0.157	33	48.166	41.744	20.0	34.7	0.208									
10	9.500	8.233	0.0	14.7	0.016	10	9.500	8.233	0.0	14.7	0.014	10	9.973	8.643	1.5	16.2	0.020									
25	29.186	25.295	7.5	22.2	0.072	27	31.521	27.319	7.5	22.2	0.071	28	32.689	28.330	7.5	22.2	0.090									
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18.095									15.900									19.894								
SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2									
40	54.466	47.204	15.5	30.2	0.183	30	41.187	35.695	16.0	30.7	0.128	31	42.559	36.885	16.0	30.7	0.162									
29	41.714	36.152	19.0	33.7	0.156	30	43.152	37.398	19.0	33.7	0.147	31	44.920	38.931	19.5	34.2	0.191									
29	30.231	26.200	3.0	17.7	0.059	30	32.145	27.859	4.0	18.7	0.061	39	40.077	34.733	2.5	17.2	0.086									
27	31.521	27.319	7.5	22.2	0.078	31	36.191	31.366	7.5	22.2	0.081	32	37.359	32.378	7.5	22.2	0.103									
27	36.151	31.331	14.5	29.2	0.117	30	40.168	34.812	14.5	29.2	0.119	32	42.846	37.133	14.5	29.2	0.155									
29	40.775	35.338	17.5	32.2	0.146	29	40.775	35.338	17.5	32.2	0.133	29	41.090	35.611	18.0	32.7	0.167									
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23.634									21.378									27.659								
SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2									
10	9.500	8.233	0.0	14.7	0.016	25	23.750	20.583	0.0	14.7	0.035	10	9.818	8.509	1.0	15.7	0.019									
21	24.517	21.248	7.5	22.2	0.060	30	35.024	30.354	7.5	22.2	0.079	32	37.777	32.740	8.0	22.7	0.107									
30	40.850	35.403	15.5	30.2	0.137	30	40.850	35.403	15.5	30.2	0.125	29	39.814	34.505	16.0	30.7	0.152									
21	29.981	25.984	18.5	33.2	0.110	30	42.831	37.120	18.5	33.2	0.144	36	51.397	44.544	18.5	33.2	0.212									
21	21.891	18.972	3.0	17.7	0.043	31	32.316	28.007	3.0	17.7	0.058	30	30.828	26.718	2.5	17.2	0.066									
37	42.707	37.013	7.0	21.7	0.103	30	34.627	30.010	7.0	21.7	0.076	30	34.627	30.010	7.0	21.7	0.093									
21	27.632	23.948	13.5	28.2	0.086	26	33.906	29.385	13.0	27.7	0.095	32	42.106	36.491	13.5	28.2	0.148									
25	35.960	31.165	19.0	33.7	0.135	30	43.471	37.675	19.5	34.2	0.150	34	49.267	42.698	19.5	34.2	0.209									
22.086									24.362									32.183								
SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C°)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2									
0	0.000	0.000	0.0	14.7	0.000	15	14.250	12.350	0.0	14.7	0.021	18	17.100	14.820	0.0	14.7	0.031									
25	29.513	25.578	8.0	22.2	0.074	29	34.610	29.996	8.5	23.2	0.081	32	39.005	33.805	9.5	24.2	0.117									
26	34.211	29.649	13.5	28.2	0.107	31	40.790	35.351	13.5	28.2	0.116	30	39.822	34.513	14.0	28.7	0.142									
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5.806									6.996									9.297								
101.40									107.46									135.08								

Weight of Oxygen Injected through Q3 2021 312,494 lbs

Oxygen to OU-1 North			
Operational Days		Oxygen Injected Per Month (lbs)	
Month 1	Oct-21 31	3,586	
Month 2	Nov-21 23	2,571	
Month 3	Dec-21 0	0	
Total Operational Days in Q4 2021		54	
Total Oxygen in Q4 2021 (lbs)		6,156.39	
Running Total for Oxygen to OU-1 North Through Q4 2021 (lbs)		318,650.39	

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 12113M
System is recharging from 1213PM to 100PM
(Keep repeating cycle for course of day)

System Downtime

11/24/21 Compressor sensor failed

10/12/2021										11/10/2021					
O ₂ %										84.6					
R										10.73					
Temp R (T)										636					
Injection Bank 1	Point 1A	10.5	30	29.453	25.526	1.0	15.7	0.050	26	26.718	23.156	2.5	17.2	0.050	
	Point 1B	25.5	31	36.597	31.717	8.0	22.7	0.089	30	35.416	30.694	8.0	22.7	0.088	
	Point 1C	40.5	30	40.168	34.812	14.5	29.2	0.126	30	40.168	34.812	14.5	29.2	0.128	
	Point 1D	50.5	31	44.590	38.645	19.0	33.7	0.161	30	42.831	37.120	18.5	33.2	0.156	
	Point 2A	10.5	17	16.150	13.997	0.0	14.7	0.026	5	4.986	4.322	1.5	16.2	0.009	
	Point 2B	25.5	30	34.627	30.010	7.0	21.7	0.081	28	33.055	28.648	8.0	22.7	0.082	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			17.045							16.436					
Injection Bank 2	Point 2C	40.5	12	16.067	13.925	14.5	29.2	0.050	27	36.459	31.598	15.0	29.7	0.119	
	Point 2D	50.5	31	44.590	38.645	19.0	33.7	0.161	30	43.152	37.398	19.0	33.7	0.159	
	Point 3A	10.5	10	9.500	8.233	0.0	14.7	0.015	5	4.750	4.117	0.0	14.7	0.008	
	Point 3B	25.5	31	36.597	31.717	8.0	22.7	0.089	28	33.055	28.648	8.0	22.7	0.082	
	Point 3C	40.5	31	41.507	35.972	14.5	29.2	0.130	29	38.829	33.652	14.5	29.2	0.124	
	Point 3D	50.5	30	44.724	38.761	21.5	36.2	0.174	30	45.032	39.028	22.0	36.7	0.181	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			19.849							21.533					
Injection Bank 3	Point 4A	10.5	30	32.993	28.594	5.0	19.7	0.070	33	36.292	31.453	5.0	19.7	0.078	
	Point 4B	25.5	30	35.416	30.694	8.0	22.7	0.086	31	36.997	32.064	8.5	23.2	0.094	
	Point 4C	40.5	30	40.168	34.812	14.5	29.2	0.126	37	49.540	42.935	14.5	29.2	0.158	
	Point 4D	50.5	31	44.920	38.931	19.5	34.2	0.165	29	42.328	36.684	20.0	34.7	0.161	
	Point 5A	10.5	30	28.500	24.700	0.0	14.7	0.045	5	4.750	4.117	0.0	14.7	0.008	
	Point 5B	25.5	31	36.191	31.366	7.5	22.2	0.086	37	44.158	38.270	8.5	23.2	0.112	
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			18.516							19.567					
Injection Bank 4	Point 5C	40.5	31	42.559	36.885	16.0	30.7	0.140	27	37.068	32.126	16.0	30.7	0.125	
	Point 5D	50.5	31	44.590	38.645	19.0	33.7	0.161	29	42.022	36.419	19.5	34.2	0.157	
	Point 6A	10.5	31	32.316	28.007	3.0	17.7	0.061	28	29.598	25.651	3.5	18.2	0.059	
	Point 6B	25.5	31	36.191	31.366	7.5	22.2	0.086	29	33.856	29.342	7.5	22.2	0.082	
	Point 6C	40.5	30	40.168	34.812	14.5	29.2	0.126	30	39.822	34.513	14.0	28.7	0.125	
	Point 6D	50.5	31	43.587	37.775	17.5	32.2	0.151	27	38.256	33.155	18.0	32.7	0.137	
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Total Oxygen Injected Per Day (lb)			23.245							21.938					
Injection Bank 5	Point 7A	10.5	27	25.650	22.230	0.0	14.7	0.041	5	4.909	4.254	1.0	15.7	0.008	
	Point 7B	25.5	30	35.024	30.354	7.5	22.2	0.084	30	35.416	30.694	8.0	22.7	0.088	
	Point 7C	40.5	31	42.559	36.885	16.0	30.7	0.140	29	39.488	34.223	15.5	30.2	0.131	
	Point 7D	50.5	40	56.676	49.119	18.0	32.7	0.199	31	43.924	38.067	18.0	32.7	0.157	
	Point 8A	10.5	31	32.316	28.007	3.0	17.7	0.061	32	33.358	28.910	3.0	17.7	0.065	
	Point 8B	25.5	30	34.627	30.010	7.0	21.7	0.081	26	30.010	26.009	7.0	21.7	0.071	
	Point 8C	40.5	32	41.731	36.167	13.0	27.7	0.124	30	39.474	34.211	13.5	28.2	0.122	
	Point 8D	50.5	35	50.344	43.631	19.0	33.7	0.182	25	35.692	30.933	18.5	33.2	0.130	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			29.191							24.708					
Injection Bank 6	Point 9A	10.5	12	11.400	9.880	0.0	14.7	0.018	12	11.400	9.880	0.0	14.7	0.018	
	Point 9B	25.5	37	43.196	37.437	7.5	22.2	0.103	31	36.191	31.366	7.5	22.2	0.088	
	Point 9C	40.5	31	40.790	35.351	13.5	28.2	0.124	33	43.035	37.297	13.0	27.7	0.131	
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Total Oxygen Injected Per Day (lb)			7.828							7.581					
System Total Per Day (lb)			115.67							111.76					

Weight of Oxygen Injected through Q4 2021

318,650 lbs

O₂

Temp R (T)

1/21/2022								2/9/2022								3/17/2022							
78.0								89.2								80.4							
10.73								10.73								10.73							
622								625								625							
SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2						
31	31.390	27.204	2.0	16.7	0.053	28	28.352	24.572	2.0	16.7	0.055	0	0.000	0.000	1.0	15.7	0.000						
33	36.958	33.763	8.0	22.7	0.090	28	33.055	28.648	8.0	22.7	0.086	0	0.000	0.000	1.5	16.2	0.000						
30	40.168	34.812	14.5	29.2	0.119	30	40.510	35.109	15.0	29.7	0.139	0	0.000	0.000	1.5	16.2	0.000						
37	52.825	45.781	18.5	33.2	0.178	28	40.275	34.905	19.0	33.7	0.156	0	0.000	0.000	2.0	16.7	0.000						
12	11.968	10.372	1.5	16.2	0.020	10	9.973	8.643	1.5	16.2	0.019	0	0.000	0.000	1.5	16.2	0.000						
36	35.344	30.632	1.0	15.7	0.056	27	31.521	27.319	7.5	22.2	0.081	0	0.000	0.000	3.5	18.2	0.000						
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
16.478								17.137								0.000							
SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2						
27	36.151	31.331	14.5	29.2	0.107	37	49.963	43.301	15.0	29.7	0.171	29	38.829	33.652	14.5	29.2	0.118						
30	43.471	37.675	19.5	34.2	0.151	37	53.221	46.125	19.0	33.7	0.207	29	41.714	36.152	19.0	33.7	0.146						
40	38.000	32.933	0.0	14.7	0.057	16	15.200	13.173	0.0	14.7	0.026	10	9.500	8.233	0.0	14.7	0.015						
29	33.856	29.342	7.5	22.2	0.076	34	40.138	34.786	8.0	22.7	0.105	29	34.235	29.671	8.0	22.7	0.081						
30	40.850	35.403	15.5	30.2	0.125	31	41.507	35.972	14.5	29.2	0.140	30	40.168	34.812	14.5	29.2	0.122						
30	44.414	38.492	21.0	35.7	0.161	34	50.687	43.929	21.5	36.2	0.212	29	43.233	37.469	21.5	36.2	0.163						
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
21.625								27.514								20.595							
SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2						
32	35.636	30.885	5.5	20.2	0.073	30	32.571	28.229	4.5	19.2	0.072	26	28.594	24.781	5.0	19.7	0.059						
30	35.024	30.354	7.5	22.2	0.079	29	34.610	29.996	8.5	23.2	0.093	27	32.223	27.927	8.5	23.2	0.078						
35	46.053	39.913	13.5	28.2	0.132	35	46.862	40.614	14.5	29.2	0.158	22	29.456	25.529	14.5	29.2	0.089						
30	42.507	36.839	18.0	32.7	0.141	29	42.022	36.419	19.5	34.2	0.166	31	44.920	38.931	19.5	34.2	0.160						
40	38.000	32.933	0.0	14.7	0.057	10	9.973	8.643	1.5	16.2	0.019	10	9.973	8.643	1.5	16.2	0.017						
36	43.425	37.635	9.0	23.7	0.104	33	38.526	33.389	7.5	22.2	0.099	21	24.517	21.248	7.5	22.2	0.057						
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-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
18.714								19.369								14.673							
SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2						
30	40.850	35.403	15.5	30.2	0.125	28	38.441	33.315	16.0	30.7	0.136	26	35.403	30.683	15.5	30.2	0.111						
35	50.344	43.631	19.0	33.7	0.172	28	40.275	34.905	19.0	33.7	0.156	25	35.960	31.165	19.0	33.7	0.126						
33	33.911	29.390	2.5	17.2	0.059	26	27.103	23.490	3.0	17.7	0.055	27	28.541	24.735	3.5	18.2	0.054						
32	37.359	32.378	7.5	22.2	0.084	28	32.689	28.330	7.5	22.2	0.084	28	32.689	28.330	7.5	22.2	0.075						
34	45.523	39.454	14.5	29.2	0.135	29	38.829	33.652	14.5	29.2	0.131	28	38.126	33.043	15.5	30.2	0.120						
31	43.587	37.775	17.5	32.2	0.142	27	38.256	33.155	18.0	32.7	0.144	27	38.256	33.155	18.0	32.7	0.130						
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
22.934								22.604								19.712							
SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2						
16	15.709	13.614	1.0	15.7	0.025	10	9.818	8.509	1.0	15.7	0.018	0	0.000	0.000	0.0	14.7	0.000						
37	43.196	37.437	7.5	22.2	0.097	29	34.235	29.671	8.0	22.7	0.090	26	30.694	26.601	8.0	22.7	0.072						
32	43.573	37.763	15.5	30.2	0.133	29	39.498	34.223	15.5	30.2	0.137	30	40.850	35.403	15.5	30.2	0.128						
39	56.259	47.891	18.0	32.7	0.183	30	42.831	37.120	18.5	33.2	0.164	26	37.120	32.171	18.5	33.2	0.128						
10	13.158	11.404	13.5	28.2	0.038	22	22.934	19.876	3.0	17.7	0.047	22	22.934	19.876	3.0	17.7	0.042						
26	30.010	26.009	7.0	21.7	0.066	30	34.627	30.010	7.0	21.7	0.087	30	35.024	30.354	7.5	22.2	0.081						
34	44.737	38.772	13.5	28.2	0.128	30	39.474	34.211	13.5	28.2	0.128	29	38.159	33.070	13.5	28.2	0.112						
33	47.114	40.832	18.5	33.2	0.158	28	40.275	34.905	19.0	33.7	0.156	28	40.275	34.905	19.0	33.7	0.141						
26.502								26.462								22.541							
SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PVRT lbs O2						
100	95.000	82.333	0.0	14.7	0.141	10	9.500	8.233	0.0	14.7	0.016	10	9.500	8.233	0.0	14.7	0.015						
37	43.196	37.437	7.5	22.2	0.097	29	33.856	29.342	7.5	22.2	0.087	26	30.694	26.601	8.0	22.7	0.072						
20	26.316	22.807	13.5	28.2	0.075	24	31.579	27.369	13.5	28.2	0.103	25	32.895	28.509	13.5	28.2	0.096						
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
10.040								6.573								5.865							
116.29								119.66								83.39							

Weight of Oxygen Injected through Q1 2022

326,330 lbs

Oxygen to OU-1 North			
Operational Days		Oxygen Injected Per Month (lbs)	
Month 1	Apr-22	28	3,210
Month 2	May-22	31	2,392
Month 3	Jun-22	3	231
Total Operational Days in Q2 2022		62	
Total Oxygen in Q2 2022 (lbs)		5,833.14	
Running Total for Oxygen to OU-1 North Through Q2 2022 (lbs)		332,163.14	

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 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)

		4/19/2022										6/2/2022									
		94.7										93.2									
		10.73										10.73									
Temp R (T)		663										645									
Injection Bank 1	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2								
	Point 1A	10.5	30	30.377	26.327	2.0	16.7	0.059	21	21.264	18.429	2.0	16.7	0.041							
	Point 1B	25.5	32	37.777	32.740	8.0	22.7	0.099	20	23.611	20.463	8.0	22.7	0.063							
	Point 1C	40.5	29	39.160	33.939	15.0	29.7	0.134	23	30.795	26.689	14.5	29.2	0.105							
	Point 1D	50.5	28	39.975	34.645	18.5	33.2	0.153	20	28.554	24.747	18.5	33.2	0.111							
	Point 2A	10.5	11	10.970	9.508	1.5	16.2	0.021	16	15.967	13.829	1.5	16.2	0.030							
	Point 2B	25.5	33	38.526	33.389	7.5	22.2	0.099	22	25.393	22.007	7.0	21.7	0.064							
	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Total Oxygen Injected Per Day (lb)		18.046										13.250									
Injection Bank 2	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2								
	Point 2C	40.5	28	37.810	32.768	15.0	29.7	0.130	24	32.134	27.850	14.5	29.2	0.110							
	Point 2D	50.5	27	38.837	33.659	19.0	33.7	0.151	19	27.330	23.686	19.0	33.7	0.107							
	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							
	Point 3B	25.5	27	31.874	27.624	8.0	22.7	0.083	16	18.889	16.370	8.0	22.7	0.050							
	Point 3C	40.5	28	37.490	32.491	14.5	29.2	0.126	22	29.456	25.529	14.5	29.2	0.100							
	Point 3D	50.5	28	42.030	36.426	22.0	36.7	0.178	17	25.344	21.964	21.5	36.2	0.107							
	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Total Oxygen Injected Per Day (lb)		21.900										15.706									
Injection Bank 3	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2								
	Point 4A	10.5	26	28.594	24.781	5.0	19.7	0.065	20	21.430	18.572	4.0	18.7	0.047							
	Point 4B	25.5	29	34.610	29.996	8.5	23.2	0.093	20	23.611	20.463	8.0	22.7	0.063							
	Point 4C	40.5	24	32.134	27.850	14.5	29.2	0.108	12	16.067	13.925	14.5	29.2	0.055							
	Point 4D	50.5	26	37.949	32.889	20.0	34.7	0.152	26	37.675	32.652	19.5	34.2	0.150							
	Point 5A	10.5	10	9.973	8.643	1.5	16.2	0.019	22	21.940	19.015	1.5	16.2	0.041							
	Point 5B	25.5	24	28.019	24.283	7.5	22.2	0.072	10	11.542	10.003	7.0	21.7	0.029							
	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Total Oxygen Injected Per Day (lb)		16.262										12.325									
Injection Bank 4	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2								
	Point 5C	40.5	31	42.559	36.885	16.0	30.7	0.151	22	30.203	26.176	16.0	30.7	0.108							
	Point 5D	50.5	30	43.152	37.398	19.0	33.7	0.168	21	30.206	26.179	19.0	33.7	0.119							
	Point 6A	10.5	28	29.598	25.651	3.5	18.2	0.062	18	18.764	16.262	3.0	17.7	0.039							
	Point 6B	25.5	30	35.024	30.354	7.5	22.2	0.090	21	24.517	21.248	7.5	22.2	0.064							
	Point 6C	40.5	27	36.151	31.331	14.5	29.2	0.122	21	28.117	24.368	14.5	29.2	0.096							
	Point 6D	50.5	29	41.090	35.611	18.0	32.7	0.155	14	19.837	17.192	18.0	32.7	0.076							
	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Total Oxygen Injected Per Day (lb)		23.909										16.027									
Injection Bank 5	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2								
	Point 7A	10.5	25	24.545	21.272	1.0	15.7	0.044	10	9.500	8.233	0.0	14.7	0.016							
	Point 7B	25.5	25	29.513	25.578	8.0	22.7	0.077	11	12.986	11.254	8.0	22.7	0.034							
	Point 7C	40.5	26	35.403	30.683	15.5	30.2	0.123	24	32.680	28.323	15.5	30.2	0.115							
	Point 7D	50.5	28	39.975	34.645	18.5	33.2	0.153	12	17.132	14.848	18.5	33.2	0.066							
	Point 8A	10.5	27	28.541	24.735	3.5	18.2	0.060	10	10.571	9.161	3.5	18.2	0.022							
	Point 8B	25.5	27	31.521	27.319	7.5	22.2	0.081	26	30.010	26.009	7.0	21.7	0.076							
	Point 8C	40.5	28	36.842	31.930	13.5	28.2	0.120	14	18.421	15.965	13.5	28.2	0.061							
Total Oxygen Injected Per Day (lb)		25.553										15.601									
Injection Bank 6	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2								
	Point 9A	10.5	22	20.900	18.113	0.0	14.7	0.035	10	9.500	8.233	0.0	14.7	0.016							
	Point 9B	25.5	29	37.818	32.776	13.0	27.7	0.121	15	17.708	15.347	8.0	22.7	0.047							
	Point 9C	40.5	29	38.158	33.070	13.5	28.2	0.124	16	21.053	18.246	13.5	28.2	0.069							
	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Total Oxygen Injected Per Day (lb)		8.974										4.240									
System Total Per Day (lb)		114.65										77.15									

Appendix C

OU-2 Oxygen Injection System Operational Data

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
 $n = PV/RT = (lb \text{ Moles})$
 $lbs = n * 32 \text{ lb/lb mole}$
 $Temperature = \text{Degrees Rankine}$
 $R = \text{Constant } (10.73)$

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)

R = Constant (10.73)

System Downtime

None.

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Weight of Oxygen Injected through Q3 2021 1,304,618 lbs

Oxygen to OU-2 - Garner Lane			
Operational Days			Oxygen Injected Per Month (lbs)
Month 1	Oct-21	31	4,502
	Nov-21	30	1,283
Month 2	Dec-21	31	1,465
Total Operational Days in Q4 2021			92
Total Oxygen in Q4 2021			7,249.69
Running Total for Oxygen to Garner Lane Through Q4 2021 (lbs)			1,311,867.69

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
 $n = PV/RT = (\text{lb Moles})$
 $\text{lbs} = n \times 32 \text{ lb/lb mole}$
Temperature = Degrees Rankine
 $R = \text{Constant } (10.73)$

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 16 minutes during each injection cycle
Each injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 64 min per day (16 min per cycle * 4 cycles)

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 716AM
System is recharging 716AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 816AM
System is recharging 816AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 916AM
System is recharging from 916AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1016AM
System is recharging from 1016AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1116AM
System is recharging from 1116AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1216PM
System is recharging from 1216PM to 100PM
(Keep repeating cycle for course of day)

System Downtime

12/6/21 - Biannual Maintenance
0700-0900

		10/15/2021										11/5/2021										12/3/2021										
		82.6										28.1										30.9										
		10.73										10.73										10.73										
		614										619										665										
		Temp R (T)																														
MID PLUME Injection Bank 1		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2						
	Point 1	25	30	36.943	39.406	10.0	24.7	0.122	29	35.712	38.093	10.0	24.7	0.040	21	25.860	27.584	10.0	24.7	0.030												
	Point 2	25	30	35.024	37.359	7.5	22.2	0.104	25	29.513	31.481	8.0	22.7	0.030	23	26.852	28.642	7.5	22.2	0.028												
	Point 3	25	27	31.521	33.623	7.5	22.2	0.094	31	36.597	39.036	8.0	22.7	0.037	23	26.852	28.642	7.5	22.2	0.028												
	Point 4	25	30	35.024	37.359	7.5	22.2	0.104	27	31.164	33.242	7.0	21.7	0.031	24	27.702	29.548	7.0	21.7	0.028												
	Point 5	25	30	35.024	37.359	7.5	22.2	0.104	29	33.856	36.113	7.5	22.2	0.034	22	25.393	27.086	7.0	21.7	0.026												
	Point 6	25	30	35.804	38.191	8.5	23.2	0.111	30	36.804	39.191	8.5	23.2	0.037	24	28.333	30.222	8.0	22.7	0.030												
	Point 7	25	0	0.000	0.000	0.0	14.7	0.000	23	21.850	23.307	0.0	14.7	0.014	23.0	21.850	23.307	0.0	14.7	0.015												
	Point 8	25	29	33.856	36.113	7.5	22.2	0.101	28	32.689	34.868	7.5	22.2	0.033	25	29.186	31.132	7.5	22.2	0.030												
	Point 9	50	61	89.035	94.970	20.0	34.7	0.413	42	60.859	64.917	19.5	34.2	0.094	38	55.063	58.734	19.5	34.2	0.088												
	Point 10	25	30	34.627	36.936	7.0	21.7	0.100	25	28.856	30.780	7.0	21.7	0.028	24	27.702	29.548	7.0	21.7	0.028												
Total Oxygen Injected Per Day (lb)			40.090										12.124										10.625									
MID PLUME Injection Bank 2		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2						
	Point 11	25	24	28.019	29.887	7.5	22.2	0.083	24	28.333	30.222	8.0	22.7	0.029	24	28.019	29.887	7.5	22.2	0.029												
	Point 12	50	36	52.165	55.643	19.5	34.2	0.239	30	43.471	46.369	19.5	34.2	0.067	41	59.410	63.371	19.5	34.2	0.095												
	Point 13	25	27	31.164	33.242	7.0	21.7	0.090	24	28.019	29.887	7.5	22.2	0.028	24	27.702	29.548	7.0	21.7	0.028												
	Point 14	68	34	54.402	58.028	27.0	41.7	0.303	10	15.414	16.442	24.0	38.7	0.027	54	86.403	92.163	27.0	41.7	0.169												
	Point 15	25	27	31.874	33.999	8.0	22.7	0.097	26	30.694	32.740	8.0	22.7	0.031	24	28.333	30.222	8.0	22.7	0.030												
	Point 16	50	34	48.956	52.166	19.0	33.7	0.220	32	46.029	49.097	19.0	33.7	0.070	39	56.098	59.837	19.0	33.7	0.089												
	Point 17	25	24	28.333	30.222	8.0	22.7	0.086	25	29.513	31.481	8.0	22.7	0.030	24	28.019	29.887	7.5	22.2	0.029												
	Point 18	68	46	73.160	78.037	26.5	41.2	0.403	10.0	15.414	16.442	24.0	38.7	0.027	32	51.202	54.615	27.0	41.7	0.100												
	Point 19	25	24	28.019	29.887	7.5	22.2	0.083	22	25.393	27.086	7.0	21.7	0.025	25	28.856	30.780	7.0	21.7	0.029												
	Point 20	50	36	51.782	55.235	19.0	33.7	0.233	29	41.714	44.495	19.0	33.7	0.063	39	56.098	59.837	19.0	33.7	0.089												
Total Oxygen Injected Per Day (lb)			58.830										12.736										22.008									
MID PLUME Injection Bank 3		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2						
	Point 21	27	21	25.063	26.734	8.5	23.2	0.078	24	28.950	30.880	9.0	23.7	0.031	25	29.837	31.826	8.5	23.2	0.032												
	Point 22	65.5	60	99.396	106.023	30.0	44.7	0.594	67	110.992	118.392	30.0	44.7	0.224	41	67.921	72.449	30.0	44.7	0.142												
	Point 23	25	25	29.513	31.481	8.0	22.7	0.090	28	33.055	35.259	8.0	22.7	0.034	25	29.186	31.132	7.5	22.2	0.030												
	Point 24	50	31	44.590	47.563	19.0	33.7	0.201	43	62.762	66.946	20.0	34.7	0.096	39	56.098	59.837	19.0	33.7	0.089												
	Point 25	25	24	28.019	29.887	7.5	22.2	0.083	26	30.694	32.740	8.0	22.7	0.031	24	28.019	29.887	7.5	22.2	0.029												
	Point 26	25	24	28.019	29.887	7.5	22.2	0.083	26	30.354	32.378	7.5	22.2	0.030	26	30.010	32.011	7.0	21.7	0.031												
	Point 27	25	27	31.521	33.623	7.5	22.2	0.094	28	32.689	34.868	7.5	22.2	0.033	25	28.856	30.780	7.0	21.7	0.029												
	Point 28	25	24	22.800	24.320	0.0	14.7	0.045	23	21.850	23.307	0.0	14.7	0.014	24.0	22.800	24.320	0.0	14.7	0.016												
	Point 29	25	24	28.333	30.222	8.0	22.7	0.086	27	31.874	33.999	8.0	22.7	0.033	26	30.354	32.378	7.5	22.2	0.032												
	Point 30	25	27	31.521	33.623	7.5	22.2	0.094	26	30.354	32.378	7.5	22.2	0.030	23	26.547	28.317	7.0	21.7	0.027												
Total Oxygen Injected Per Day (lb)			46.300										17.893										14.634									
TAIL PLUME Injection Bank 4		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2						
	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									
TAIL PLUME Injection Bank 5		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2						
	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									
TAIL PLUME Injection Bank 6		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2						
	Point 6A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	Point 23	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	Point 24	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	Point 25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	Point 26	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
	Point 27	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Point 27A	26	-	-																													

Weight of Oxygen Injected through Q4 2021 1,311,868 lbs

Oxygen to OU-2 - Garner Lane			
Operational Days		Oxygen Injected Per Month (lbs)	
Month 1	Jan-22	31	1,348
Month 2	Feb-22	28	1,383
Month 3	Mar-22	31	1,442
Total Operational Days in Q1 2022		90	
Total Oxygen in Q1 2022		4,172.94	
Running Total for Oxygen to Garner Lane Through Q1 2022 (lbs)		1,316,040.63	

Notes:

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

System Operating Specs

Total of 6 injection banks
Oxygen is injected for 16 minutes during each injection cycle
Each injection bank operates for 4 injection cycles per day
Each injection point injects oxygen for 64 min per day (16 min per cycle * 4 cycles)

Example

Bank 1 starts injection at 700AM
Bank 1 finishes injection at 716AM
System is recharging 716AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 816AM
System is recharging 816AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 916AM
System is recharging from 916AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1016AM
System is recharging from 1016AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1116AM
System is recharging from 1116AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1216PM
System is recharging from 1216PM to 100PM
(Keep repeating cycle for course of day)

System Downtime

				1/25/2022								2/16/2022								3/17/2022							
				30.9								30.9								33.1							
				10.73								10.73								10.73							
				632								619								651							
		Temp R (T)																									
MID PLUME Injection Bank 1		Depth	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2							
		Point 1	25	24	29.555	31.525	10.0	24.7	0.035	24	25.716	27.430	4.0	18.7	0.024	24	30.147	32.157	11.0	25.7	0.039						
		Point 2	25	25	29.186	31.132	7.5	22.2	0.031	23	26.852	28.642	7.5	22.2	0.030	25	28.856	30.780	7.0	21.7	0.032						
		Point 3	25	24	28.019	29.887	7.5	22.2	0.030	23	26.852	28.642	7.5	22.2	0.030	24	28.019	29.887	7.5	22.2	0.031						
		Point 4	25	24	27.702	29.548	7.0	21.7	0.029	24	27.702	29.548	7.0	21.7	0.030	24	27.702	29.548	7.0	21.7	0.030						
		Point 5	25	23	26.547	28.317	7.0	21.7	0.028	24	27.702	29.548	7.0	21.7	0.030	25	28.856	30.780	7.0	21.7	0.032						
		Point 6	25	25	29.513	31.481	8.0	22.7	0.033	23	27.152	28.962	8.0	22.7	0.031	25	28.856	30.780	7.0	21.7	0.032						
		Point 7	25	23	21.850	23.307	0.0	14.7	0.016	23	21.850	23.307	0.0	14.7	0.016	25.0	23.750	25.333	0.0	14.7	0.018						
		Point 8	25	26	30.354	32.378	7.5	22.2	0.033	23	26.852	28.642	7.5	22.2	0.030	24	27.702	29.548	7.0	21.7	0.030						
		Point 9	50	38	55.063	58.734	19.5	34.2	0.092	34	49.267	52.552	19.5	34.2	0.084	32	46.369	49.460	19.5	34.2	0.080						
		Point 10	25	25	28.522	30.423	6.5	21.2	0.029	24	26.394	28.154	5.0	19.7	0.026	24	27.056	28.860	6.0	20.7	0.028						
Total Oxygen Injected Per Day (lb)			11.400								10.503								11.278								
MID PLUME Injection Bank 2		Depth	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2							
		Point 11	25	25	29.186	31.132	7.5	22.2	0.031	23	27.152	28.962	8.0	22.7	0.031	25	29.513	31.481	8.0	22.7	0.034						
		Point 12	50	34	49.267	52.552	19.5	34.2	0.082	34	49.267	52.552	19.5	34.2	0.084	35	50.344	53.700	19.0	33.7	0.086						
		Point 13	25	24	27.702	29.548	7.0	21.7	0.029	23	26.547	28.317	7.0	21.7	0.029	24	27.702	29.548	7.0	21.7	0.030						
		Point 14	68	37	59.202	63.149	27.0	41.7	0.120	70	112.673	120.184	27.5	42.2	0.236	52	83.700	89.280	27.5	42.2	0.179						
		Point 15	25	24	28.333	30.222	8.0	22.7	0.031	23	27.152	28.962	8.0	22.7	0.031	24	28.333	30.222	8.0	22.7	0.033						
		Point 16	50	34	48.906	52.166	19.0	33.7	0.080	34	48.906	52.166	19.0	33.7	0.082	37	53.221	56.769	19.0	33.7	0.091						
		Point 17	25	24	28.333	30.222	8.0	22.7	0.031	23	27.152	28.962	8.0	22.7	0.031	25	29.513	31.481	8.0	22.7	0.034						
		Point 18	66	34	54.074	57.679	26.5	41.2	0.108	30.0	48.288	51.508	27.5	42.2	0.101	10	16.096	17.169	27.5	42.2	0.034						
		Point 19	25	24	27.702	29.548	7.0	21.7	0.029	24	27.702	29.548	7.0	21.7	0.030	25	28.856	30.780	7.0	21.7	0.032						
		Point 20	50	35	50.344	53.700	19.0	33.7	0.082	33	47.467	50.632	19.0	33.7	0.079	36	51.782	55.235	19.0	33.7	0.088						
Total Oxygen Injected Per Day (lb)			20.006								23.425								20.472								
MID PLUME Injection Bank 3		Depth	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2							
		Point 21	27	22	26.538	28.307	9.0	23.7	0.031	24	28.643	30.553	8.5	23.2	0.033	24	28.333	30.222	8.0	22.7	0.033						
		Point 22	65.5	32	53.011	56.545	30.0	44.7	0.115	43	71.234	75.983	30.0	44.7	0.158	38	62.951	67.148	30.0	44.7	0.142						
		Point 23	25	19	22.430	23.925	8.0	22.7	0.025	24	28.333	30.222	8.0	22.7	0.032	23	27.152	28.962	8.0	22.7	0.031						
		Point 24	50	31	44.590	47.563	19.0	33.7	0.073	34	49.267	52.552	19.5	34.2	0.084	34	49.267	52.552	19.5	34.2	0.085						
		Point 25	25	20	23.349	24.906	7.5	22.2	0.025	24	28.019	29.887	7.5	22.2	0.031	23	26.852	28.642	7.5	22.2	0.030						
		Point 26	25	21	24.239	25.855	7.0	21.7	0.026	24	28.019	29.887	7.5	22.2	0.031	24	27.702	29.548	7.0	21.7	0.030						
		Point 27	25	20	23.085	24.624	7.0	21.7	0.024	26	30.010	32.011	7.0	21.7	0.032	25	28.856	30.780	7.0	21.7	0.032						
		Point 28	25	16	15.200	16.213	0.0	14.7	0.011	24	22.800	24.320	0.0	14.7	0.017	24.0	22.800	24.320	0.0	14.7	0.017						
		Point 29	25	18	21.014	22.415	7.5	22.2	0.023	26	30.354	32.378	7.5	22.2	0.033	25	29.513	31.481	8.0	22.7	0.034						
		Point 30	25	21	24.239	25.855	7.0	21.7	0.026	25	29.186	31.132	7.5	22.2	0.032	21	24.517	26.151	7.5	22.2	0.028						
Total Oxygen Injected Per Day (lb)			12.087								15.450								14.769								
TAIL PLUME Injection Bank 4		Depth	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2							
		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								
TAIL PLUME Injection Bank 5		Depth	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2							
		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								
TAIL PLUME Injection Bank 6		Depth	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CFID (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2							
		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)			43.49								49.38								46.52								

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
 $n = PV/RT = (lb \text{ Moles})$
 $lbs = n * 32 \text{ lb/lb mole}$
 $Temperature = \text{Degrees Rankine}$
 $R = \text{Constant } (10.73)$

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)

R = Constant (10.73)

Each injection point injects oxygen for 64 min per day (16 min per cycle * 4 cycles)

System Downtime

Page 4 of 13

Weight of Oxygen Injected through Q2 2021 622,354 lbs

Oxygen to OU-2 - 9 North Clinton			
Operational Days		Injected Per Month (lbs)	
Month 1	Jul-21	30	3,768
Month 2	--	0	0
Month 3	--	0	0
Total Operational Days in Q3 2021		30	
Total Oxygen in Q3 2021		3,767.60	
Running Total for Oxygen to 9 North Clinton Through Q3 2021 (lbs)		626,121.60	

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 3.1 injection cycles per day
Each injection point injects oxygen for 40 min per day (13 min per cycle * 3.1 cycles)

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

** Due to the request of the property owner, the system will not inject during the hours of 800AM and 830AM and 1100AM and 400PM.
The oxygen weights have been adjusted to incorporate this schedule.

System Downtime
4/8/21 - 7/9/21 - Power Outage
1310-0745

O ₂ % R Temp R (T)		7/28/2021						
		82.9						
		10.73						
		628						
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O
Injection Bank 1	Point 1A	30	31	38.559	25.706	10.5	25.2	0.080
	Point 7A	30	31	38.175	25.450	10.0	24.7	0.077
	Point 7B	64	33	51.520	34.347	25.0	39.7	0.168
	Point 13A	25	10	11.409	7.606	6.5	21.2	0.020
	Point 13B	52	32	46.707	31.138	20.0	34.7	0.133
	Point 19A	25	30	35.804	23.869	8.5	23.2	0.068
	Point 19B	44	30	41.521	27.680	16.5	31.2	0.106
		-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			20.862					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O
Injection Bank 2	Point 2A	32	31	39.317	26.211	11.5	26.2	0.084
	Point 8A	45	30	41.852	27.901	17.0	31.7	0.109
	Point 8B	64	29	45.275	30.183	25.0	39.7	0.147
	Point 8C	25	35	40.861	27.241	7.5	22.2	0.074
	Point 14A	25	32	38.191	25.461	8.5	23.2	0.073
	Point 14B	52	30	43.471	28.981	19.5	34.2	0.122
	Point 20A	25	35	40.861	27.241	7.5	22.2	0.074
	Point 20B	42	31	42.559	28.373	16.0	30.7	0.107
Total Oxygen Injected Per Day (lb)			25.321					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O
Injection Bank 3	Point 3A	25	-	-	-	-	-	-
	Point 3B	35	30	38.048	25.366	11.5	26.2	0.082
	Point 9A	45	32	44.289	29.526	16.5	31.2	0.113
	Point 9B	64	30	45.338	30.225	22.5	37.2	0.138
	Point 9C	25	31	36.191	24.127	7.5	22.2	0.066
	Point 15A	25	30	35.416	23.611	8.0	22.7	0.066
	Point 15B	44	30	40.850	27.233	15.5	30.2	0.101
	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			18.126					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O
Injection Bank 4	Point 4A	25	31	36.597	24.398	8.0	22.7	0.068
	Point 4B	39	31	40.790	27.193	13.5	28.2	0.094
	Point 10A	45	31	44.920	29.947	19.5	34.2	0.126
	Point 10B	64	30	47.422	31.615	26.0	40.7	0.158
	Point 10C	25	33	38.958	25.972	8.0	22.7	0.073
	Point 16A	25	31	36.191	24.127	7.5	22.2	0.066
	Point 16B	47	31	43.924	29.283	18.0	32.7	0.118
	Total Oxygen Injected Per Day (lb)			22.496				
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O
Injection Bank 5	Point 5A	25	29	33.856	22.571	7.5	22.2	0.062
	Point 5B	42	30	40.168	26.779	14.5	29.2	0.096
	Point 11A	45	26	35.985	23.990	16.5	31.2	0.092
	Point 11B	64	27	42.417	28.278	25.5	40.2	0.140
	Point 17A	25	29	34.235	22.824	8.0	22.7	0.064
	Point 17B	45	27	37.963	25.308	17.5	32.2	0.100
	Point 21A	25	27	32.223	21.482	8.5	23.2	0.061
	Total Oxygen Injected Per Day (lb)			19.683				
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	=PV/RT lbs O
Injection Bank 6	Point 6A	30	30	35.416	23.611	8.0	22.7	0.066
	Point 6B	52	29	42.022	28.015	19.5	34.2	0.118
	Point 12A	25	27	31.521	21.014	7.5	22.2	0.057
	Point 12B	54	29	42.934	28.622	21.0	35.7	0.126
	Point 18A	25	25	29.513	19.676	8.0	22.7	0.055
	Point 18B	45	25	34.877	23.251	17.0	31.7	0.091
	Point 21B	42	25	34.041	22.694	15.5	30.2	0.084
	Total Oxygen Injected Per Day (lb)			19.099				
System Total Per Day (lb)			125.59					

Weight of Oxygen Injected through Q2 2021 823,317 lbs

Oxygen to OU-2 - 34 North Clinton			
Operational Days		Injected Per Month (lbs)	
Month 1	Jul-21	31	7,238
Month 2	Aug-21	31	6,965
Month 3	Sep-21	30	7,766
Total Operational Days in Q2 2021		92	
Total Oxygen in Q2 2021		21,968.76	
Running Total for Oxygen to 34 North Clinton Through Q2 2021 (lbs)		845,285.76	

Notes:

SCFH (M) = Measured flow rate

SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)

CF/D (V) = Volume of oxygen injected per day

PSI (M) = Measured pressure

PSia (P) = Pressure converted to atmospheric pressure

n = PV/RT = (lb Moles)

lbs = n*32 lb/lb mole

Temperature = Degrees Rankine

R = Constant (10.73)

System Operating Specs

Total of 6 injection banks

Oxygen is injected for 13 minutes during each injection cycle

Each injection bank operates for 4 injection cycles per day

Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 cycles)

Example

Bank 1 starts injection at 700AM

Bank 1 finishes injection at 713AM

System is recharging 713AM to 800AM

Bank 2 starts injection at 800AM

Bank 2 finishes injection at 813AM

System is recharging 813AM to 900AM

Bank 3 starts injection at 900AM

Bank 3 finishes injection at 913AM

System is recharging from 913AM to 1000AM

Bank 4 starts injection at 1000AM

Bank 4 finishes injection at 1013AM

System is recharging from 1013AM to 1100AM

Bank 5 starts injection at 1100AM

Bank 5 finishes injection at 1113AM

System is recharging from 1113AM to 1200PM

Bank 6 starts injection at 1200PM

Bank 6 finishes injection at 1213PM

System is recharging from 1213PM to 100PM

(Keep repeating cycle for course of day)

System Downtime

None

		7/23/2021												8/27/2021												9/17/2021																																															
		98.9												98.9												98.9																																															
		10.73												10.73												10.73																																															
		632												627												605																																															
		Temp R (T)																																																																							
		O ₂																																																																							
		Depth																																																																							
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)												=PV/RT lbs C											
		SCFH (M)												SCFH (C*)												CF/D (V)												PSI (M)												PSia (P)																							

Weight of Oxygen Injected through Q3 2021 845,286 lbs

Oxygen to OU-2 - 34 North Clinton			
Operational Days		Injected Per Month (lbs)	
Month 1	Oct-21	31	5,546
Month 2	Nov-21	30	2,617
Month 3	Dec-21	31	4,463
Total Operational Days in Q4 2021		92	
Total Oxygen in Q4 2021		12,625.71	
Running Total for Oxygen to 34 North Clinton Through Q4 2021 (lbs)		857,911.71	

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 4 injection cycles per day
Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 cycles)

Example

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

System Downtime

12/6/21 - Biannual maintenance
0900-1100

December Monthly													
10/6/2021							11/5/2021						
80.4							94.1						
10.73							10.73						
631							627						
Temp R (T)							631						
Injection Bank 1	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	EPVRT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	EPVRT lbs C
	Point 1A	65	40	63.230	54.799	26.0	0.265	5	6.975	6.045	17.0	31.7	0.027
	Point 1B	45	37	52.023	45.087	17.5	0.172	15	20.593	17.848	16.0	30.7	0.077
	Point 2	30	32	41.352	35.839	12.5	0.116	17	22.369	19.386	13.5	28.2	0.076
	Point 13A	65	30	46.540	40.335	24.5	0.188	5	6.975	6.045	17.0	31.7	0.027
	Point 13B	45	31	42.559	36.885	16.0	0.134	17	23.339	20.227	16.0	30.7	0.087
	Point 14	30	30	36.943	32.017	10.0	0.094	20	24.629	21.345	10.0	24.7	0.074
	Point 25A	45	32	44.642	38.690	17.0	0.146	19	25.440	22.048	14.5	29.2	0.090
	Point 25B	30	35	43.534	37.730	10.5	0.113	21	26.121	22.638	10.5	25.2	0.080
	Point 25C	30	35	43.534	37.730	10.5	0.113	21	26.121	22.638	10.5	25.2	0.080
Total Oxygen Injected Per Day (lb)							39.286	17.189					
Injection Bank 2	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	EPVRT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	EPVRT lbs C
	Point 3A	65	36	56.203	48.710	25.0	0.230	5	6.920	5.997	16.5	31.2	0.026
	Point 3B	45	30	40.510	35.109	15.0	0.124	17	22.956	19.895	15.0	29.7	0.083
	Point 4	30	37	46.022	39.886	10.5	0.119	23	28.608	24.794	10.5	25.2	0.087
	Point 15A	65	28	42.598	36.919	23.0	0.165	5	7.084	6.140	18.0	32.7	0.028
	Point 15B	45	29	40.137	34.785	16.5	0.129	17	23.528	20.391	16.5	31.2	0.089
	Point 16	30	27	33.249	28.616	10.0	0.085	24	29.254	25.353	9.5	24.2	0.086
	Point 26A	45	30	41.852	36.272	17.0	0.137	21	28.831	24.987	16.0	30.7	0.107
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-
	Point 26C	30	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)							31.617	16.204					
Injection Bank 3	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	EPVRT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	EPVRT lbs C
	Point 5A	65	30	48.001	41.601	27.0	0.206	5	7.402	6.415	21.0	35.7	0.032
	Point 5B	45	31	42.905	37.184	16.5	0.138	18	24.912	21.591	16.5	31.2	0.094
	Point 6	30	30	35.804	31.030	8.5	0.085	19	22.676	19.652	8.5	23.2	0.064
	Point 17A	65	30	46.540	40.335	24.5	0.188	5	7.138	6.187	18.5	33.2	0.029
	Point 17B	45	31	42.905	37.184	16.5	0.138	18	24.912	21.591	16.5	31.2	0.094
	Point 18	30	30	36.943	32.017	10.0	0.094	21	25.860	22.412	10.0	24.7	0.077
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)							27.158	12.493					
Injection Bank 4	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	EPVRT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	EPVRT lbs C
	Point 7A	65	30	47.713	41.351	26.5	0.202	5	7.657	6.636	23.5	38.2	0.035
	Point 7B	45	32	44.642	38.690	17.0	0.146	21	29.296	25.390	17.0	31.7	0.113
	Point 8	30	31	38.559	33.418	10.5	0.100	22	27.635	23.950	11.0	25.7	0.086
	Point 19A	65	30	47.422	41.099	26.0	0.199	5	7.607	6.593	23.0	37.7	0.035
	Point 19B	45	31	43.247	37.481	17.0	0.141	22	30.691	26.599	17.0	31.7	0.118
	Point 20	30	30	36.943	32.017	10.0	0.094	23	28.608	24.794	10.5	25.2	0.087
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)							28.211	15.175					
Injection Bank 5	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	EPVRT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	EPVRT lbs C
	Point 9A	65	33	52.484	45.486	26.5	0.223	15	23.711	20.550	26.0	40.7	0.117
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-
	Point 10	30	31	38.175	33.085	10.0	0.097	22	27.092	23.479	10.0	24.7	0.081
	Point 21A	65	40	62.840	54.462	25.5	0.260	5	7.806	6.765	25.0	39.7	0.038
	Point 21B	45	37	51.209	44.381	16.5	0.164	23	31.832	27.588	16.5	31.2	0.120
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)							23.808	11.384					
Injection Bank 6	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	EPVRT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	EPVRT lbs C
	Point 11A	65	30	47.422	41.099	26.0	0.199	16	24.342	21.096	23.0	37.7	0.111
	Point 11B	45	30	41.852	36.272	17.0	0.137	17	23.528	20.391	16.5	31.2	0.089
	Point 12	30	31	38.559	33.418	10.5	0.100	21	26.121	22.638	10.5	25.2	0.080
	Point 23	65	30	47.422	41.099	26.0	0.199	5	7.607	6.593	23.0	37.7	0.035
	Point 24A	55	30	44.724	38.761	21.5	0.167	14	20.727	17.963	21.0	35.7	0.090
	Point 24B	30	31	38.559	33.418	10.5	0.100	15	18.658	16.170	10.5	25.2	0.057
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)							28.814	14.767					
System Total Per Day (lb)							178.89	87.22					

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-3. OU-2 34 North Clinton First Quarter 2022
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q4 2021 857,912 lbs

Oxygen to OU-2 - 34 North Clinton			
Operational Days			Injected Per Month (lbs)
Month 1	Jan-22	31	3,966
Month 2	Feb-22	28	3,876
Month 3	Mar-22	31	3,615
Total Operational Days in Q1 2022			90
Total Oxygen in Q1 2022			11,456.82
Running Total for Oxygen to 34 North Clinton Through Q1 2022 (lbs)			869,368.82

Notes:

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

System Operating Specs

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

Example

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

System Downtime

		1/21/2022												2/18/2022												3/18/2022											
		97.1												97.1												94.6											
O ₂ R		10.73												10.73												10.73											
Temp R (T)		623												614												632											
Injection Bank 1	Depth	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C						
	Point 1A	65	10	14.169	12.280	18.0	32.7	0.058	0	0.000	0.000	17.5	32.2	0.000	10	15.904	13.784	26.5	41.2	0.079	10	15.904	13.784	26.5	41.2	0.079	10	15.904	13.784	26.5	41.2	0.079					
	Point 1B	45	10	13.951	12.091	17.0	31.7	0.056	11	15.224	13.194	16.5	31.2	0.061	13	18.278	15.841	17.5	32.2	0.071	13	18.278	15.841	17.5	32.2	0.071	13	18.278	15.841	17.5	32.2	0.071					
	Point 2	30	28	36.514	31.646	13.0	27.7	0.127	33	43.035	37.297	13.0	27.7	0.152	10	12.923	11.200	12.5	27.2	0.042	10	12.923	11.200	12.5	27.2	0.042	10	12.923	11.200	12.5	27.2	0.042					
	Point 13A	65	40	55.803	48.362	17.0	31.7	0.223	0	0.000	0.000	16.5	31.2	0.000	31	48.092	41.679	24.5	39.2	0.228	31	48.092	41.679	24.5	39.2	0.228	31	48.092	41.679	24.5	39.2	0.228					
	Point 13B	45	42	57.661	49.973	16.0	30.7	0.223	39	53.543	46.404	16.0	30.7	0.210	18	24.712	21.417	16.0	30.7	0.092	18	24.712	21.417	16.0	30.7	0.092	18	24.712	21.417	16.0	30.7	0.092					
	Point 14	30	31	38.175	33.085	10.0	24.7	0.119	32	39.406	34.152	10.0	24.7	0.124	10	12.314	10.672	10.0	24.7	0.037	10	12.314	10.672	10.0	24.7	0.037	10	12.314	10.672	10.0	24.7	0.037					
	Point 25A	45	29	40.457	35.063	17.0	31.7	0.161	51	71.148	61.662	17.0	31.7	0.288	10	11.542	10.003	7.0	21.7	0.030	10	11.542	10.003	7.0	21.7	0.030	10	11.542	10.003	7.0	21.7	0.030					
	Point 25B	30	30	37.315	32.340	10.5	25.2	0.118	32	39.803	34.496	10.5	25.2	0.128	10	12.314	10.672	10.0	24.7	0.037	10	12.314	10.672	10.0	24.7	0.037	10	12.314	10.672	10.0	24.7	0.037					
Total Oxygen Injected Per Day (lb)		34.732												30.830												19.723											
Injection Bank 2	Depth	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C						
	Point 3A	65	10	13.389	11.604	14.5	29.2	0.049	0	0.000	0.000	16.0	30.7	0.000	10	13.389	11.604	24.5	39.2	0.063	10	13.389	11.604	24.5	39.2	0.063	10	13.389	11.604	24.5	39.2	0.063					
	Point 3B	45	10	13.158	11.404	13.5	28.2	0.047	11	14.854	12.873	15.0	29.7	0.056	19	25.000	21.667	15.0	29.7	0.090	19	25.000	21.667	15.0	29.7	0.090	19	25.000	21.667	15.0	29.7	0.090					
	Point 4	30	20	24.877	21.560	10.5	25.2	0.079	25	31.096	26.950	10.5	25.2	0.100	10	12.438	10.780	10.0	24.7	0.037	10	12.438	10.780	10.0	24.7	0.037	10	12.438	10.780	10.0	24.7	0.037					
	Point 15A	65	10	13.729	11.898	16.0	30.7	0.053	0	0.000	0.000	17.0	31.7	0.000	30	41.187	35.695	23.5	38.2	0.190	30	41.187	35.695	23.5	38.2	0.190	30	41.187	35.695	23.5	38.2	0.190					
	Point 15B	45	10	13.617	11.801	15.5	30.2	0.052	38	52.593	45.580	16.5	31.2	0.210	30	40.850	35.403	16.5	31.2	0.154	30	40.850	35.403	16.5	31.2	0.154	30	40.850	35.403	16.5	31.2	0.154					
	Point 16	30	29	35.348	30.635	9.5	24.2	0.108	37	45.100	39.086	9.5	24.2	0.139	10	12.189	10.564	9.5	24.2	0.036	10	12.189	10.564	9.5	24.2	0.036	10	12.189	10.564	9.5	24.2	0.036					
	Point 26A	45	16	21.787	18.882	15.5	30.2	0.083	32	44.289	38.383	16.5	31.2	0.177	33	44.935	38.943	17.0	31.7	0.172	33	44.935	38.943	17.0	31.7	0.172	33	44.935	38.943	17.0	31.7	0.172					
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Total Oxygen Injected Per Day (lb)		15.046												21.822												23.762											
Injection Bank 3	Depth	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C						
	Point 5A	65	10	13.729	11.898	16.0	30.7	0.053	0	0.000	0.000	19.0	33.7	0.000	17	27.201	23.574	27.0	41.7	0.137	17	27.201	23.574	27.0	41.7	0.137	17	27.201	23.574	27.0	41.7	0.137					
	Point 5B	45	12	16.204	14.044	15.0	29.7	0.061	21	29.064	25.189	16.5	31.2	0.116	16	22.144	19.192	16.5	31.2	0.084	16	22.144	19.192	16.5	31.2	0.084	16	22.144	19.192	16.5	31.2	0.084					
	Point 6	30	12	14.322	12.412	8.5	23.2	0.042	44	52.512	45.511	8.5	23.2	0.156	10	11.935	10.343	8.5	23.2	0.033	10	11.935	10.343	8.5	23.2	0.033	10	11.935	10.343	8.5	23.2	0.033					
	Point 17A	65	18	23.684	20.526	13.5	28.2	0.084	0	0.000	0.000	16.5	31.2	0.000	16	24.821	21.512	24.5	39.2	0.118	16	24.821	21.512	24.5	39.2	0.118	16	24.821	21.512	24.5	39.2	0.118					
	Point 17B	45	10	13.503	11.703	15.0	29.7	0.050	34	47.057	40.782	16.5	31.2	0.188	15	20.760	17.992	16.5	31.2	0.078	15	20.760	17.992	16.5	31.2	0.078	15	20.760	17.992	16.5	31.2	0.078					
	Point 18	30	14	17.240	14.941	10.0	24.7	0.054	40	49.258	42.690	10.0	24.7	0.155	10	12.314	10.672	10.0	24.7	0.037	10	12.314	10.672	10.0	24.7	0.037	10	12.314	10.672	10.0	24.7	0.037					
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Total Oxygen Injected Per Day (lb)		10.997												19.660												15.579											
Injection Bank 4	Depth	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C						
	Point 7A	65	10	14.490	12.558	19.5	34.2	0.062	0	0.000	0.000	18.0	32.7	0.000	11	17.281	14.977	25.5	40.2	0.084	11	17.281	14.977	25.5	40.2	0.084	11	17.281	14.977	25.5	40.2	0.084					
	Point 7B	45	38	53.012	45.944	17.0	31.7	0.212	10	13.951	12.091	17.0	31.7	0.056	24	33.482	29.017	17.0	31.7	0.128	24	33.482	29.017	17.0	31.7	0.128	24	33.482	29.017	17.0	31.7	0.128					
	Point 8	30	32	40.196	34.836	11.0	25.7	0.130	38	47.733	41.368	11.0	25.7	0.157	12	15.073	13.064	11.0	25.7	0.047	12	15.073	13.064	11.0	25.7	0.047	12	15.073	13.064	11.0	25.7	0.047					
	Point 19A	65	10	14.384	12.466	19.0	33.7	0.061	0	0.000	0.000	17.0	31.7	0.000	21	32.785	28.414	25.0	39.7	0.157	21	32.785	28.414	25.0	39.7	0.157	21	32.785	28.414	25.0	39.7	0.157					
	Point 19B	45	26	36.272	31.435	17.0	31.7	0.145	100	138.402	119.948	16.5	31.2	0.552	31	43.247	37.481	17.0	31.7	0.166	31	43.247	37.481	17.0	31.7	0.166	31	43.247	37.481	17.0	31.7	0.166					
	Point 20	30	35	43.100	37.354	10.0	24.7	0.134	34	42.291	36.652	10.5	25.2	0.136	10	12.314	10.672	10.0	24.7	0.037	10	12.314	10.672	10.0	24.7	0.037	10	12.314	10.672	10.0	24.7	0.037					
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Total Oxygen Injected Per Day (lb)		23.801												28.828												18.909											
Injection Bank 5	Depth	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CF/D (V)	PSI (M)	PSia (P)	EPVIRT lbs C						
	Point 9A	65	10	15.807	13.700	26.0	40.7	0.081	0	0.000	0.000	26.5	41.2	0.000	24	38.170	33.081	26.5	41.2	0.190	24	38.170	33.081	26.5	41.2	0.190	24	38.170	33.081	26.5	41.2	0.190					
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	Point 10	30	27	33.249	28.816	10.0	24.7	0.103	28	34.480	29.883	10.0	24.7	0.109	13	16.009	13.874	10.0	24.7	0.048	13	16.009	13.874	10.0	24.7	0.048	13	16.009	13.874	10.0	24.7	0.048					
	Point 21A	65	28	43.438	37.646	24.5	39.2	0.214	28	43.714	37.885	25.0	39.7	0.222	23	35.908	31.120	25.0	39.7	0.172	23	35.908	31.120	25.0	39.7	0.172	23	35.908	31.120	25.0	39.7	0.172					
	Point 21B	45	30	41.521	35.985	16.5	31.2	0.163	29	40.137	34.785	16.5	31.2	0.160	26	35.985	31.187	16.5	31.2	0.136	26	35.985	31.187	16.5	31.2	0.136	26	35.985	31.187	16.5	31						

Weight of Oxygen Injected through Q1 2022 869,369 lbs

Oxygen to OU-2 - 34 North Clinton			
Operational Days		Injected Per Month (lbs)	
Month 1	Apr-22	30	4,635
Month 2	May-22	31	4,246
Month 3	Jun-22	30	3,638
Total Operational Days in Q2 2022		91	
Total Oxygen in Q1 2022		12,519.37	
Running Total for Oxygen to 34 North Clinton Through Q2 2022 (lbs)		881,888.37	

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)

System Operating Specs

Total of 6 injection banks

Oxygen is injected for 13 minutes during each injection cycle

Each injection bank operates for 4 injection cycles per day

Each injection point injects oxygen for 52 min per day (13 min per cycle * 4 cycles)

Example

Bank 1 starts injection at 700AM

Bank 1 finishes injection at 713AM

System is recharging 713AM to 800AM

Bank 2 starts injection at 800AM

Bank 2 finishes injection at 813AM

System is recharging 813AM to 900AM

Bank 3 starts injection at 900AM

Bank 3 finishes injection at 913AM

System is recharging from 913AM to 1000AM

Bank 4 starts injection at 1000AM

Bank 4 finishes injection at 1013AM

System is recharging from 1013AM to 1100AM

Bank 5 starts injection at 1100AM

Bank 5 finishes injection at 1113AM

System is recharging from 1113AM to 1200PM

Bank 6 starts injection at 1200PM

Bank 6 finishes injection at 1213PM

System is recharging from 1213PM to 100PM

(Keep repeating cycle for course of day)

System Downtime

		4/15/2022												6/1/2022												6/17/2022											
		93.8												93.1												73.5											
		10.73												10.73												10.73											
		632												623												652											
		Temp R (T)																																			
Injection Bank 1	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C						
	Point 1A	65	10	14.384	12.466	19.0	33.7	0.058	10	15.113	13.098	22.5	37.2	0.068	10	14.596	12.650	20.0	34.7	0.046	10	14.596	12.650	20.0	34.7	0.046	10	14.596	12.650	20.0	34.7	0.046					
	Point 1B	45	17	23.716	20.554	17.0	31.7	0.090	18	25.111	21.763	17.0	31.7	0.096	32	44.642	38.690	17.0	31.7	0.129	32	44.642	38.690	17.0	31.7	0.129	32	44.642	38.690	17.0	31.7	0.129					
	Point 2	30	10	12.923	11.200	12.5	27.2	0.042	20	25.845	22.399	12.5	27.2	0.085	34	43.937	38.079	12.5	27.2	0.109	34	43.937	38.079	12.5	27.2	0.109	34	43.937	38.079	12.5	27.2	0.109					
	Point 13A	65	37	52.825	45.781	18.5	33.2	0.210	10	14.908	12.920	21.5	36.2	0.065	10	14.490	12.558	19.5	34.2	0.045	10	14.490	12.558	19.5	34.2	0.045	10	14.490	12.558	19.5	34.2	0.045					
	Point 13B	45	23	31.576	27.366	16.0	30.7	0.116	18	24.712	21.417	16.0	30.7	0.092	34	46.678	40.454	16.0	30.7	0.130	34	46.678	40.454	16.0	30.7	0.130	34	46.678	40.454	16.0	30.7	0.130					
	Point 14	30	10	12.314	10.672	10.0	24.7	0.036	18	22.166	19.210	10.0	24.7	0.066	36	44.332	38.421	10.0	24.7	0.100	36	44.332	38.421	10.0	24.7	0.100	36	44.332	38.421	10.0	24.7	0.100					
	Point 25A	45	11	15.224	13.194	16.5	31.2	0.057	12	16.741	14.509	17.0	31.7	0.064	38	53.012	45.944	17.0	31.7	0.153	38	53.012	45.944	17.0	31.7	0.153	38	53.012	45.944	17.0	31.7	0.153					
	Point 25B	30	16	19.703	17.076	10.0	24.7	0.058	19	23.633	20.482	10.5	25.2	0.072	38	47.266	40.964	10.5	25.2	0.108	38	47.266	40.964	10.5	25.2	0.108	38	47.266	40.964	10.5	25.2	0.108					
Total Oxygen Injected Per Day (lb)		21.394												19.441												26.258											
Injection Bank 2	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C						
	Point 3A	65	10	13.729	11.898	16.0	30.7	0.051	20	28.338	24.560	18.0	32.7	0.112	40	54.915	47.593	7.0	21.7	0.109	40	54.915	47.593	7.0	21.7	0.109	40	54.915	47.593	7.0	21.7	0.109					
	Point 3B	45	19	25.656	22.238	15.0	29.7	0.091	22	29.707	25.746	15.0	29.7	0.106	15	20.255	17.554	15.0	29.7	0.055	15	20.255	17.554	15.0	29.7	0.055	15	20.255	17.554	15.0	29.7	0.055					
	Point 4	30	16	19.703	17.076	10.0	24.7	0.058	24	29.852	25.872	10.5	25.2	0.091	26	32.017	27.748	10.0	24.7	0.072	26	32.017	27.748	10.0	24.7	0.072	26	32.017	27.748	10.0	24.7	0.072					
	Point 15A	65	10	14.060	12.186	17.5	32.2	0.054	10	14.701	12.741	20.5	35.2	0.062	10	14.060	12.186	18.0	32.7	0.042	10	14.060	12.186	18.0	32.7	0.042	10	14.060	12.186	18.0	32.7	0.042					
	Point 15B	45	40	54.915	47.593	16.0	30.7	0.202	30	41.521	35.985	16.5	31.2	0.156	18	24.712	21.417	16.0	30.7	0.069	18	24.712	21.417	16.0	30.7	0.069	18	24.712	21.417	16.0	30.7	0.069					
	Point 16	30	38	46.319	40.143	9.5	24.2	0.134	36	43.881	38.030	9.5	24.2	0.128	32	39.005	33.805	9.0	23.7	0.084	32	39.005	33.805	9.0	23.7	0.084	32	39.005	33.805	9.0	23.7	0.084					
	Point 26A	45	22	30.203	26.176	16.0	30.7	0.111	34	47.432	41.108	17.0	31.7	0.181	28	38.441	33.315	16.5	31.2	0.109	28	38.441	33.315	16.5	31.2	0.109	28	38.441	33.315	16.5	31.2	0.109					
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Total Oxygen Injected Per Day (lb)		22.468												26.804												17.267											
Injection Bank 3	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C						
	Point 5A	65	22	33.470	29.008	23.0	37.7	0.151	10	14.384	12.466	19.0	33.7	0.059	10	15.612	13.530	25.0	39.7	0.056	10	15.612	13.530	25.0	39.7	0.056	10	15.612	13.530	25.0	39.7	0.056					
	Point 5B	45	21	29.064	25.189	16.5	31.2	0.109	23	34.992	30.326	23.0	37.7	0.159	35	48.827	42.317	17.0	31.7	0.141	35	48.827	42.317	17.0	31.7	0.141	35	48.827	42.317	17.0	31.7	0.141					
	Point 6	30	10	11.935	10.343	8.5	23.2	0.033	19	27.330	23.686	19.0	37.7	0.111	34	40.578	35.167	8.5	23.2	0.086	34	40.578	35.167	8.5	23.2	0.086	34	40.578	35.167	8.5	23.2	0.086					
	Point 17A	65	21	31.090	28.945	21.0	35.7	0.133	10	12.334	10.972	20.0	34.7	0.037	5	5.656	5.640	22.5	37.2	0.026	5	5.656	5.640	22.5	37.2	0.026	5	5.656	5.640	22.5	37.2	0.026					
	Point 17B	45	17	23.528	20.391	16.5	31.2	0.088	20	29.192	25.299	20.0	34.7	0.122	42	58.129	50.378	16.5	31.2	0.165	42	58.129	50.378	16.5	31.2	0.165	42	58.129	50.378	16.5	31.2	0.165					
	Point 18	30	-	12.314	10.672	10.0	24.7	0.036	18	25.504	22.104	18.0	32.7	0.101	32	39.406	34.152	10.0	24.7	0.089	32	39.406	34.152	10.0	24.7	0.089	32	39.406	34.152	10.0	24.7	0.089					
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Total Oxygen Injected Per Day (lb)		17.622												18.833												17.998											
Injection Bank 4	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C						
	Point 7A	65	15	22.669	19.646	22.5	37.2	0.101	10	15.807	13.700	26.0	40.7	0.078	10	15.807	13.700	26.0	40.7	0.059	10	15.807	13.700	26.0	40.7	0.059	10	15.807	13.700	26.0	40.7	0.059					
	Point 7B	45	30	41.852	36.272	17.0	31.7	0.159	27	37.667	32.645	17.0	31.7	0.144	24	33.482	29.017	17.0	31.7	0.097	24	33.482	29.017	17.0	31.7	0.097	24	33.482	29.017	17.0	31.7	0.097					
	Point 8	30	226	281.108	243.627	10.5	25.2	0.849	25	31.403	27.216	11.0	25.7	0.097	26	32.340	28.028	10.5	25.2	0.074	26	32.340	28.028	10.5	25.2	0.074	26	32.340	28.028	10.5	25.2	0.074					
	Point 19A	65	19	28.714	24.885	22.5	37.2	0.128	10	15.710	13.615	25.5	40.2	0.076	14	21.994	19.062	25.5	40.2	0.081	14	21.994	19.062	25.5	40.2	0.081	14	21.994	19.062	25.5	40.2	0.081					
	Point 19B	45	30	41.852	36.272	17.0	31.7	0.159	33	46.037	39.899	17.0	31.7	0.176	25	34.877	30.226	17.0	31.7	0.101	25	34.877	30.226	17.0	31.7	0.101	25	34.877	30.226	17.0	31.7	0.101					
	Point 20	30	10	12.438	10.780	10.5	25.2	0.038	31	38.559	33.418	10.5	25.2	0.117	25	31.096	26.950	10.5	25.2	0.071	25	31.096	26.950	10.5	25.2	0.071	25	31.096	26.950	10.5	25.2	0.071					
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Total Oxygen Injected Per Day (lb)		45.888												22.043												15.422											
Injection Bank 5	Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSia (P)	=PV/RT lbs C						
	Point 9A	65	35	55.326	47.949	26.0	40.7	0.270	42	67.202	58.242	27.0	41.7	0.338	36	57.602	49.921	27.0	41.7	0.219	36	57.602	49.921	27.0	41.7	0.219	36	57.602	49.921	27.0	41.7	0.219					
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	Point 10	30	23	28.323	24.547	10.0	24.7	0.084	25	30.786	26.681	10.0	24.7	0.092	30	36.943	32.017	10.0	24.7	0.083	30	36.943	32.017	10.0	24.7	0.083	30	36.943	32.017	10.0	24.7	0.083					
	Point 21A	65	32	49.959	43.297	25.0	39.7	0.238	40	62.840	54.462	25.5	40.2	0.305	35	54.642	47.357	25.0	39.7	0.198	35	54.642	47.357	25.0	39.7	0.198	35	54.642	47.357	25.0	39.7	0.198					
	Point 21B	45	24	33.216	28.788	16.5	31.2	0.124	24	33.216	28.788	16.5	31.2	0.125	37	51.209	44.381	16.5	31.2	0.145	37	51.209	44.381														

Weight of Oxygen Injected through Q3 2021

881,866 lbs

Oxygen to OU-2 - 33 North Clinton			
Operational Days			Injected Per Month (lbs)
Month 1	Oct-21	25	7,101
Month 2	Nov-21	30	7,536
Month 3	Dec-21	31	9,887
Total Operational Days in Q4 2021			86
Total Oxygen in Q4 2021			24,523.89
Running Total for Oxygen to 33 North Clinton Through Q4 2021 (lbs)			906,389.89

Notes:

SCFH (M) = Measured flow rate
SCFH (C) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CFD (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSia (P) = Pressure converted to atmospheric pressure.
n = PV/RT = (b Moles)
lbs = m32 lb/mole
Temperature = Degrees Rankine
R = Constant (10.73)
* Readings for Sep 2020 taken from Aug 2020 because inspection was not able to be performed.

System Operating Specs

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

Example

Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
Bank 7 starts injection at 100PM
Bank 7 finishes injection at 113PM
System is recharging from 113PM to 200PM
Bank 8 starts injection at 200PM
Bank 8 finishes injection at 213PM
System is recharging from 213PM to 300PM
(Keep repeating cycle for course of day)

System Downtime

10/14/21-10/20-21 - Magnetic Starter
circuit for booster pump burned out
0700-1400
12/6/21 - Biannual maintenance
1100-1300

		10/26/2021												11/12/2021												12/21/2021											
		95.6												95.6												95.6											
		10.73												10.73												10.73											
		619												627												619											
Temp R (T)																																					
Injection Bank 1	Depth	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C												
	Point 1A	62	30	45.943	29.863	23.5	38.2	0.164	23	35.223	22.895	23.5	38.2	0.124	44	66.940	43.511	23.0	37.7	0.236	44	66.940	43.511	23.0	37.7	0.236											
	Point 1B	46	29	39.814	25.879	16.0	30.7	0.114	27	37.068	24.094	16.0	30.7	0.105	41	56.288	36.587	16.0	30.7	0.162	41	56.288	36.587	16.0	30.7	0.162											
	Point 6A	65	37	57.765	37.547	25.0	39.7	0.215	23	35.681	23.193	24.5	39.2	0.129	42	65.156	42.352	24.5	39.2	0.239	42	65.156	42.352	24.5	39.2	0.239											
	Point 6B	46	30	41.852	27.204	17.0	31.7	0.124	28	39.062	25.390	17.0	31.7	0.114	34	47.432	30.831	17.0	31.7	0.141	34	47.432	30.831	17.0	31.7	0.141											
	Point 11	46	27	37.667	24.483	17.0	31.7	0.112	29	40.775	26.504	17.5	32.2	0.121	40	55.361	35.985	16.5	31.2	0.162	40	55.361	35.985	16.5	31.2	0.162											
	Point 35	41	30	39.122	25.430	13.0	27.7	0.101	26	33.906	22.039	13.0	27.7	0.087	50	65.204	42.383	13.0	27.7	0.169	50	65.204	42.383	13.0	27.7	0.169											
	Point 40	41	31	40.790	26.513	13.5	28.2	0.108	29	38.495	25.022	14.0	28.7	0.102	45	59.211	38.487	13.5	28.2	0.156	45	59.211	38.487	13.5	28.2	0.156											
	Point 45	31	30	36.188	23.522	9.0	23.7	0.080	29	35.348	22.977	9.5	24.2	0.079	44	53.075	34.499	9.0	23.7	0.118	44	53.075	34.499	9.0	23.7	0.118											
	Total Oxygen Injected Per Day (lb)		32.582												27.585												44.221										
Injection Bank 2	Depth	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C												
	Point 2A	67	35	55.665	36.182	26.5	41.2	0.215	24	38.170	24.811	26.5	41.2	0.145	32	50.584	32.880	26.0	40.7	0.193	32	50.584	32.880	26.0	40.7	0.193											
	Point 2B	46	30	41.521	26.988	16.5	31.2	0.121	27	37.369	24.290	16.5	31.2	0.108	34	47.057	30.587	16.5	31.2	0.137	34	47.057	30.587	16.5	31.2	0.137											
	Point 7A	65	32	49.643	32.268	24.5	39.2	0.182	25	38.784	25.209	24.5	39.2	0.140	37	57.032	37.071	24.0	38.7	0.206	37	57.032	37.071	24.0	38.7	0.206											
	Point 7B	41	29	40.775	26.504	17.5	32.2	0.123	27	35.210	22.887	13.0	27.7	0.090	45	62.778	40.806	17.0	31.7	0.186	45	62.778	40.806	17.0	31.7	0.186											
	Point 12	46	30	41.521	26.988	16.5	31.2	0.121	30	41.852	27.204	17.0	31.7	0.123	34	46.678	30.341	16.0	30.7	0.134	34	46.678	30.341	16.0	30.7	0.134											
	Point 36	36	31	38.840	25.311	11.0	25.7	0.094	29	36.780	23.907	11.5	26.2	0.089	36	44.778	28.106	10.5	25.2	0.106	36	44.778	28.106	10.5	25.2	0.106											
	Point 41	41	32	42.477	27.610	14.0	28.7	0.114	40	40.168	26.909	14.5	29.2	0.108	39	51.769	33.650	14.0	28.7	0.139	39	51.769	33.650	14.0	28.7	0.139											
	Point 46	46	30	38.048	24.731	11.5	26.2	0.093	30	38.048	24.731	11.5	26.2	0.092	26	32.659	21.228	11.0	25.7	0.079	26	32.659	21.228	11.0	25.7	0.079											
	Total Oxygen Injected Per Day (lb)		34.910												28.653												37.755										
Injection Bank 3	Depth	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C												
	Point 3A	65	28	44.261	28.710	19.0	40.7	0.169	29	43.560	29.813	25.5	42.2	0.169	41	64.411	41.967	25.5	42.2	0.242	41	64.411	41.967	25.5	42.2	0.242											
	Point 3B	46	30	41.521	26.988	16.5	31.2	0.121	30	41.521	26.988	16.5	31.2	0.120	40	55.361	35.985	16.5	31.2	0.162	40	55.361	35.985	16.5	31.2	0.162											
	Point 8A	71	29	47.501	30.876	29.0	43.7	0.194	30	48.288	31.387	27.5	42.2	0.188	25	40.714	26.464	28.5	43.2	0.165	25	40.714	26.464	28.5	43.2	0.165											
	Point 8B	46	31	42.559	27.664	16.0	30.7	0.122	31	42.211	27.437	15.5	30.2	0.118	36	46.424	32.126	16.0	30.7	0.142	36	46.424	32.126	16.0	30.7	0.142											
	Point 32A	63.5	28	43.160	28.054	24.0	38.7	0.156	28	43.438	28.234	24.5	39.2	0.157	36	55.491	36.099	24.0	38.7	0.201	36	55.491	36.099	24.0	38.7	0.201											
	Point 32B	36	29	36.780	23.907	11.5	26.2	0.090	30	38.048	24.731	11.5	26.2	0.092	45	57.073	37.067	11.5	26.2	0.140	45	57.073	37.067	11.5	26.2	0.140											
	Point 37	41	29	38.495	25.022	14.0	28.7	0.103	29	38.829	25.239	14.5	29.2	0.100	50	63.414	34.499	13.5	28.2	0.146	50	63.414	34.499	13.5	28.2	0.146											
	Point 42	36	29	36.780	23.907	11.5	26.2	0.090	29	36.780	23.907	11.5	26.2	0.089	50	63.414	34.499	11.5	26.2	0.155	50	63.414	34.499	11.5	26.2	0.155											
	Total Oxygen Injected Per Day (lb)		32.476												32.211												43.278										
Injection Bank 4	Depth	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C												
	Point 4A	69	31	49.601	32.241	27.0	41.7	0.194	27	43.201	28.081	27.0	41.7	0.166	32	50.694	33.081	26.5	41.2	0.196	32	50.694	33.081	26.5	41.2	0.196											
	Point 4B	46	29	39.492	25.390	17.0	31.7	0.117	27	38.272	24.817	17.5	32.2	0.109	20	35.773	24.462	16.5	31.2	0.127	20	35.773	24.462	16.5	31.2	0.127											
	Point 9A	71	31	49.898	32.243	27.5	42.2	0.197	35	55.336	36.891	27.5	42.2	0.220	26	41.001	27.041	27.0	41.7	0.162	26	41.001	27.041	27.0	41.7	0.162											
	Point 4B	46	29	40.457	26.297	17.0	31.7	0.120	27	37.667	24.483	17.0	31.7	0.110	39	53.977	35.085	16.5	31.2	0.158	39	53.977	35.085	16.5	31.2	0.158											
	Point 33	42	31	41.150	26.747	14.0	28.7	0.110	27	35.840	23.296	14.0	28.7	0.095	44	57.895	37.632	13.5	28.2	0.153	44	57.895	37.632	13.5	28.2	0.153											
	Point 38	36	30	38.048	24.731	11.5	26.2	0.093	28	35.512	23.083	11.5	26.2	0.086	42	53.269	34.624	11.5	26.2	0.131	42	53.269	34.624	11.5	26.2	0.131											
	Point 43	31	29.844	24.306	10.5	25.2	0.083	27	30.843	22.777	9.5	24.2	0.079	46	55.486	34.499	9.0	23.7	0.103	46	55.486	34.499	9.0	23.7	0.103												
	Point 48	55	32	46.707	30.359	20.0	34.7	0.152	30	43.788	28.462	20.0	34.7	0.140	140	31	45.247	29.411	20.0	34.7	0.147	140	31	45.247	29.411	20.0	34.7	0.147									
	Total Oxygen Injected Per Day (lb)		34.069												32.068												39.388										
Injection Bank 5	Depth	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C												
	Point 5A	67	31	48.701	31.656	25.5	40.2	0.183	28	43.988	28.592	25.5	40.2	0.163	31	48.397	31.458	25.0	39.7	0.180	31	48.397	31.458	25.0	39.7	0.180											
	Point 5B	65	31	42.905	27.688	16.5	31.2	0.125	27	37.369	24.290	16.5	31.2	0.108	40	54.915	35.669	16.0	30.7	0.158	40	54.915	35.669	16.0	30.7	0.158											
	Point 10	55	32	47.042	30.577	20.5	35.2	0.155	25	36.752	23.889	20.5	35.2	0.119	42	61.303	39.847	20.0	34.7	0.199	42	61.303	39.847	20.0	34.7	0.199											
	Point 34	36	33	43.035	27.973	13.0	27.7	0.112	27	34.841	22.679	12.5	27.2	0.088	42	54.275	35.759	12.5	27.2	0.138	42	54.275	35.759	12.5	27.2	0.138											
	Point 39	26	33	37.648	24.471	6.5	21.2	0.075	29	33.085	21.505	6.5	21.2	0.065	40	50.198	32.629	6.5	21.2	0.100	40	50.198	32.629	6.5	21.2	0.100											
	Point 44	41	31	39.317	25.556	11.5	26.2	0.095	26	32.975	21.434	11.5	26.2	0.085	40	50.245	32.659	11.0	25.7	0.121	40	50.245	32.659	11.0	25.7	0.121											
	Point 47	55	32	46.369	30.140	19.5	34.2	0.148	28	40.573	26.372	19.5	34.2	0.128	36	52.105	33.907	19.5	34.2	0.167	36	52.105	33.907	19.5	34.2	0.167											
	Point 49	55	33	48.166	31.308	20.0	34.7	0.156	29	42.329	27.513	20.0	34.7	0.136	34	49.267	32.024	19.5	34.2	0.158	34	49.267	32.024	19.5	34.2	0.158											
	Total Oxygen Injected Per Day (lb)		33.620												28.370												39.026										
Injection Bank 6	Depth	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	PV/RT lbs C												
	Point 16	40	28	38.126	24.782	15.5	30.2	0.108	28	38.441	24.987	16.0	30.7	0.109	39	52.663	34.231	15.0	29.7	0.146	39	52.663	34.231	15.0	29.7	0.146											
	Point 19	40	30	40.510	26.332	15.0	29.7	0.113	30	40.168	26.199	14.5	29.2	0.108	62	58.900	38.285	14.0																			

Weight of Oxygen Injected through Q4 2021

906,390 lbs

Oxygen to OU-2 - 33 North Clinton				Injected Per Month (lbs)
Operational Days				
Month 1	Jan-22	31		8,401
Month 2	Feb-22	28		8,614
Month 3	Mar-22	31		7,686
Total Operational Days in Q1 2022				90
Total Oxygen in Q1 2022				24,700.98
Running Total for Oxygen to 33 North Clinton Through Q1 2022 (lbs)				931,090.98

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CFD (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (10.73)
* Readings for Sep 2020 taken from Aug 2020 because inspection was not able to be performed.

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

Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
Bank 7 starts injection at 100PM
Bank 7 finishes injection at 113PM
System is recharging from 113PM to 200PM
Bank 8 starts injection at 200PM
Bank 8 finishes injection at 213PM
System is recharging from 213PM to 300PM
(Keep repeating cycle for course of day)

System Downtime

O ₂ (R)		1/20/2022										2/15/2022										3/14/2022																														
		97.8										97.8										97.8																														
		10.73										10.73										10.73																														
		Temp R (T)										605										600																														
Injection Bank 1	Depth	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c															
	Point 1A	62	31	47.163	30.656	23.0	37.7	0.171	38	57.812	37.578	23.0	37.7	0.213	26	39.817	25.881	23.5	38.2	0.150																																
	Point 1B	46	32	43.592	28.556	16.0	30.7	0.130	37	50.797	33.018	16.0	30.7	0.127	26	35.695	23.202	16.0	30.7	0.108																																
	Point 6A	65	32	49.643	32.268	24.5	39.2	0.187	41	63.605	41.343	24.5	39.2	0.244	25	39.030	25.370	25.0	39.7	0.153																																
	Point 6B	46	33	46.037	29.924	17.0	31.7	0.140	31	43.247	28.111	17.0	31.7	0.134	30	41.852	27.204	17.0	31.7	0.131																																
	Point 11	46	30	41.521	26.988	16.5	31.2	0.125	34	47.057	30.587	16.5	31.2	0.144	26	36.272	23.577	17.0	31.7	0.114																																
	Point 35	41	33	43.421	28.224	13.5	28.2	0.118	39	51.316	33.356	13.5	28.2	0.142	25	32.895	21.382	13.5	28.2	0.092																																
	Point 40	41	37	49.114	31.924	14.0	28.7	0.136	34	45.132	29.336	14.0	28.7	0.127	28	37.168	24.159	14.0	28.7	0.105																																
	Point 45	31	33	40.224	26.146	9.5	24.2	0.094	34	41.443	26.936	9.5	24.2	0.098	25	30.156	19.602	9.0	23.7	0.071																																
Total Oxygen Injected Per Day (lb)														35.193													40.163													29.550												
Injection Bank 2	Depth	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c															
	Point 2A	67	40	63.617	41.351	26.5	41.2	0.252	38	60.436	39.284	26.5	41.2	0.244	20	31.809	20.676	26.5	41.2	0.129																																
	Point 2B	46	30	41.521	26.988	16.5	31.2	0.125	35	48.441	31.486	16.5	31.2	0.148	26	35.985	23.390	16.5	31.2	0.111																																
	Point 7A	65	32	49.643	32.268	24.5	39.2	0.187	40	62.054	40.335	24.5	39.2	0.238	23	35.681	23.153	24.5	39.2	0.138																																
	Point 7B	41	30	42.181	27.437	17.5	32.2	0.131	42	59.053	38.384	17.5	32.2	0.186	22	30.933	20.106	17.5	32.2	0.098																																
	Point 12	46	29	40.137	26.089	16.5	31.2	0.120	30	41.521	26.988	16.5	31.2	0.127	28	38.753	25.170	16.5	31.2	0.119																																
	Point 36	36	31	38.940	25.311	11.0	25.7	0.096	34	42.291	27.489	10.5	25.2	0.104	26	32.340	21.021	10.5	25.2	0.080																																
	Point 41	41	36	47.787	31.061	14.0	28.7	0.132	36	47.787	31.061	14.0	28.7	0.134	29	38.495	25.022	14.0	28.7	0.109																																
	Point 46	46	28	35.512	23.083	11.5	26.2	0.089	28	35.512	23.083	11.5	26.2	0.091	27	34.244	22.258	11.5	26.2	0.089																																
Total Oxygen Injected Per Day (lb)														36.241													40.732													27.976												
Injection Bank 3	Depth	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c															
	Point 3A	65	24	37.938	24.660	26.0	40.7	0.149	41	64.411	41.867	25.5	40.2	0.254	24	37.938	24.660	26.0	40.7	0.152																																
	Point 3B	46	27	37.369	24.290	16.5	31.2	0.112	36	49.424	32.126	16.0	30.7	0.149	24	33.216	21.591	16.5	31.2	0.102																																
	Point 8A	71	25	40.714	26.454	28.5	43.2	0.169	23	37.457	24.247	28.5	43.2	0.158	25	40.949	26.617	29.0	43.7	0.177																																
	Point 8B	46	30	41.521	26.988	16.5	31.2	0.125	31	42.905	27.888	16.5	31.2	0.131	30	41.521	26.988	16.5	31.2	0.128																																
	Point 32A	63.5	22	33.911	22.042	24.0	38.7	0.126	19	29.287	19.040	24.0	38.7	0.111	35	55.491	36.044	24.0	38.7	0.212																																
	Point 32B	36	25	31.707	20.610	11.5	26.2	0.080	40	50.731	32.975	11.5	26.2	0.130	21	26.634	17.312	11.5	26.2	0.069																																
	Point 37	41	25	33.185	21.570	14.0	28.7	0.092	40	53.557	34.812	14.5	29.2	0.153	22	29.203	18.982	14.0	28.7	0.083																																
	Point 42	36	28	35.512	23.083	11.5	26.2	0.089	48	60.878	39.570	11.5	26.2	0.156	21	26.634	17.312	11.5	26.2	0.069																																
Total Oxygen Injected Per Day (lb)														30.131													38.750													31.745												
Injection Bank 4	Depth	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c															
	Point 4A	69	27	43.201	28.051	27.0	41.7	0.173	34	54.074	35.148	26.5	41.2	0.218	29	44.801	29.121	27.0	41.7	0.184																																
	Point 4B	46	25	34.877	22.670	17.0	31.7	0.106	36	50.222	32.645	17.0	31.7	0.156	26	36.272	23.577	17.0	31.7	0.114																																
	Point 9A	71	30	48.288	31.387	27.5	42.2	0.196	24	38.631	25.110	27.5	42.2	0.160	21	33.802	21.971	27.5	42.2	0.141																																
	Point 9B	46	31	43.247	28.111	17.0	31.7	0.132	38	53.012	34.558	17.0	31.7	0.165	27	37.667	24.483	17.0	31.7	0.118																																
	Point 33	42	26	34.513	22.433	14.0	28.7	0.095	40	53.096	34.513	14.0	28.7	0.149	28	37.168	24.159	14.0	28.7	0.105																																
	Point 38	36	28	35.512	23.083	11.5	26.2	0.089	35	44.390	28.583	11.5	26.2	0.114	25	31.707	20.610	11.5	26.2	0.082																																
	Point 43	31	28	32.775	21.554	9.0	23.7	0.077	37	44.631	29.010	9.0	23.7	0.104	27	32.569	21.170	9.0	23.7	0.076																																
	Point 48	55	30	43.788	28.462	20.0	34.7	0.146	30	43.788	28.462	20.0	34.7	0.149	25	36.752	23.889	20.0	35.2	0.128																																
Total Oxygen Injected Per Day (lb)														32.490													38.840													30.338												
Injection Bank 5	Depth	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSIa (P)	SPV/RT lbs/c															
	Point 5A	67	32	50.272	32.677	25.5	40.2	0.194	35	54.985	35.740	25.5	40.2	0.216	29	43.559	29.613	25.5	40.2	0.181																																
	Point 5B	45	29	40.137	26.099	16.5	31.2	0.120	36	49.825	32.396	16.5	31.2	0.152	24	33.216	21.591	16.5	31.2	0.102																																
	Point 15	56	32	48.162	30.755	23.0	39.2	0.139	37	51.452	33.477	23.0	39.2	0.177	21	30.871	20.060	23.0	39.2	0.107																																
	Point 34	36	29	37.818	24.582	13.0	27.7	0.101	34	44.339	28.820	13.0	27.7	0.120	23	29.994	18.496	13.0	27.7	0.082																																
	Point 39	26	30	34.226	22.247	6.5	21.2	0.070	38	43.861	28.510	7.0	21.7	0.093	24	27.702	18.006	7.0	21.7	0.059																																
	Point 44	41	34	43.122	28.029	11.5	26.2	0.109	37	46.926	30.502	11.5	26.2	0.120	23	29.170	18.961	11.5	26.2	0.075																																

Appendix D. OU-2 Oxygen Injection System Operational Data
Table D-4. OU-2 33 North Clinton Second Quarter 2022
National Grid Bay Shore/Brightwaters Former MGP Site

Weight of Oxygen Injected through Q1 2021 931,091 lbs

Oxygen to OU-2 - 33 North Clinton			
Operational Days			
Month 1	Apr-22	30	1,578
Month 2	May-22	31	2,342
Month 3	Jun-22	30	2,078
Total Operational Days in Q2 2022			91
Total Oxygen in Q2 2022			5,997.66
Running Total for Oxygen to 33 North Clinton Through Q2 2022 (lbs)			937,088.66

Notes:

SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CFD (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)

* Readiness for Sep 2020 taken from Aug 2020 because inspection was not able to be performed.

System Operating Specs

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

Example

Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
Bank 7 starts injection at 100PM
Bank 7 finishes injection at 113PM
System is recharging from 113PM to 200PM
Bank 8 starts injection at 200PM
Bank 8 finishes injection at 213PM
System is recharging from 213PM to 300PM
(Keep repeating cycle for course of day)

System Downtime

		4/15/2022										5/19/2022										6/30/2022									
O ₂ %		22.7										27.7										29.5									
Temp R (T)		10.73										10.73										10.73									
		621										618										627									
		Depth	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C											
Injection Bank 1	Point 1A	62	26	39.817	25.881	23.5	38.2	0.034	28	42.598	27.689	23.0	37.7	0.034	24	36.133	23.890	23.5	38.2	0.034											
	Point 1B	48	22	34.322	22.309	18.0	30.7	0.032	28	38.441	24.948	18.0	30.7	0.032	23	31.576	20.523	16.0	30.7	0.029											
	Point 6A	65	25	39.030	25.370	25.0	39.7	0.034	26	40.591	26.384	25.0	39.7	0.034	31	48.092	31.260	24.5	39.2	0.054											
	Point 6B	46	27	37.667	24.483	17.0	31.7	0.026	30	41.852	27.204	17.0	31.7	0.026	27	37.667	24.483	17.0	31.7	0.034											
	Point 11	46	26	36.272	23.577	17.0	31.7	0.025	28	39.062	25.390	17.0	31.7	0.034	25	34.600	22.490	16.5	31.2	0.031											
	Point 35	41	21	27.632	17.961	13.5	28.2	0.017	27	35.527	23.002	13.5	28.2	0.027	23	29.994	19.496	13.0	27.7	0.024											
Point 40	41	28	37.168	24.159	14.0	28.7	0.034	29	38.495	25.022	14.0	28.7	0.030	24	31.865	20.708	14.0	28.7	0.028												
Point 45	31	24	29.254	18.015	9.5	24.2	0.016	26	31.692	20.600	9.5	24.2	0.021	26	31.363	20.386	9.0	23.7	0.021												
Total Oxygen Injected Per Day (lb)		6.393										8.546										8.827									
		Depth	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C											
Injection Bank 2	Point 2A	67	24	38.170	24.811	26.5	41.2	0.035	38	60.436	39.284	26.5	41.2	0.069	29	45.842	29.787	26.0	40.7	0.053											
	Point 2B	46	26	35.985	23.390	16.5	31.2	0.025	25	34.600	22.494	16.5	31.2	0.028	27	37.369	24.290	16.5	31.2	0.033											
	Point 7A	65	21	32.571	21.176	24.5	39.2	0.038	29	43.430	28.234	24.5	39.2	0.046	26	40.326	24.518	24.5	39.2	0.048											
	Point 7B	41	22	30.933	20.106	17.5	32.2	0.022	28	39.369	25.590	17.5	32.2	0.034	25	34.877	22.670	17.0	31.7	0.033											
	Point 12	46	27	37.369	24.290	16.5	31.2	0.026	29	40.137	26.089	16.5	31.2	0.034	27	37.369	24.290	16.5	31.2	0.032											
	Point 36	36	28	32.659	21.228	11.0	25.7	0.019	28	35.171	22.861	11.0	25.7	0.025	26	32.340	21.021	11.0	25.2	0.023											
Point 41	41	25	33.185	21.570	14.0	28.7	0.021	26	34.513	22.433	14.0	28.7	0.027	27	35.840	23.296	14.0	28.7	0.029												
Point 46	46	28	35.512	23.083	11.5	26.2	0.021	28	35.512	23.083	11.5	26.2	0.025	32	40.585	26.380	11.5	26.2	0.030												
Total Oxygen Injected Per Day (lb)		6.276										9.225										8.930									
		Depth	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C											
Injection Bank 3	Point 3A	65	24	39.168	24.840	26.0	40.7	0.034	29	40.462	27.207	26.0	40.7	0.034	23	36.133	23.890	26.0	40.7	0.034											
	Point 3B	46	24	33.216	21.591	16.5	31.2	0.023	27	37.369	24.290	16.5	31.2	0.032	26	35.695	23.202	16.0	30.7	0.031											
	Point 8A	71	29	47.229	30.699	28.5	43.2	0.045	24	39.311	25.552	29.0	43.7	0.047	27	43.971	28.581	28.5	43.2	0.054											
	Point 8B	46	25	34.600	22.490	16.5	31.2	0.024	28	38.753	25.189	16.5	31.2	0.033	25	34.322	22.309	16.0	30.7	0.030											
	Point 32A	63.5	28	43.160	28.454	24.0	38.7	0.037	25	35.355	23.408	24.0	38.7	0.040	25	38.286	24.886	23.5	38.2	0.042											
	Point 32B	36	20	25.366	16.898	11.5	26.2	0.015	24	30.439	19.745	11.5	26.2	0.022	19	23.866	15.513	11.0	25.7	0.017											
Point 37	41	19	26.211	16.394	14.0	28.7	0.016	25	33.185	21.570	14.0	28.7	0.021	23	28.948	18.018	13.5	28.2	0.023												
Point 42	36	19	24.097	15.663	11.5	26.2	0.014	23	29.447	19.141	12.0	26.7	0.021	19	24.097	15.663	11.5	26.2	0.018												
Total Oxygen Injected Per Day (lb)		6.654										8.677										8.231									
		Depth	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C											
Injection Bank 4	Point 4A	69	25	40.001	26.001	27.0	41.7	0.037	26	41.601	27.041	27.0	41.7	0.047	30	48.001	31.201	27.0	41.7	0.057											
	Point 4B	46	25	34.600	22.490	16.5	31.2	0.024	29	43.430	28.234	16.5	31.2	0.032	24	32.571	21.176	16.5	31.2	0.034											
	Point 9A	71	25	35.669	23.853	28.0	42.7	0.054	42	67.604	43.942	27.5	42.7	0.077	30	48.001	31.201	27.0	41.7	0.057											
	Point 9B	46	22	30.691	19.849	17.0	31.7	0.022	30	41.852	27.204	17.0	31.7	0.036	23	31.832	20.691	16.5	31.2	0.028											
	Point 33	42	20	25.548	17.256	14.0	28.7	0.017	33	43.805	28.743	14.0	28.7	0.034	25	33.185	21.570	14.0	28.7	0.027											
	Point 38	36	20	25.366	16.488	11.5	26.2	0.015	29	36.780	23.937	11.5	26.2	0.026	24	30.439	19.785	11.5	26.2	0.023											
Point 43	31	21	26.121	16.978	10.5	25.2	0.015	30	36.188	23.522	9.0	23.7	0.023	25	30.156	19.602	9.0	23.7	0.020												
Point 48	55	25	36.490	23.718	20.0	34.7	0.028	26	37.949	24.667	20.0	34.7	0.036	29	40.665	25.564	20.0	34.7	0.040												
Total Oxygen Injected Per Day (lb)		6.587										10.111										9.155									
		Depth	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C											
Injection Bank 5	Point 5A	67	24	37.704	24.508	25.5	40.2	0.034	36	56.556	36.762	25.5	40.2	0.062	32	50.272	32.677	25.5	40.2	0.058											
	Point 5B	45	24	33.216	21.591	16.5	31.2	0.023	30	43.521	28.988	16.5	31.2	0.035	25	34.322	22.309	16.0	30.7	0.030											
	Point 22	42	26	34.812	22.636	11.5	29.2	0.023	34	45.912	29.845	15.0	29.7	0.037	24	32.124	20.681	14.5	29.2	0.027											
	Point 34	36	23	29.994	19.496	13.0	27.7	0.018	27	35.210	22.887	13.0	27.7	0.026	24	31.904	20.159	12.5	27.0	0.024											
	Point 39	26	22	25.099	16.314	6.5	21.2	0.012	29	33.473	21.757	7.0	21.7	0.020	24	27.702	18.006	7.0	21.7	0.017											
	Point 44	41	24	30.439	19.785	11.5	26.2	0.018	28	35.512	23.083	11.5	26.2	0.025	26	32.659	21.228	11.0	25.7	0.024											
Point 47	55	25	36.226	23.547	19.5	34.2	0.027	29	42.022	27.314	19.5	34.2	0.039	30	43.471	28.256	19.5	34.2	0.042												
Point 49	55	25	36.490	23.718	20.0	34.7	0.028	28	40.668	25.564	20.0	34.7	0.039	30	43.788	28.462	20.0	34.7	0.043												
Total Oxygen Injected Per Day (lb)		5.921										9.128										8.830									
		Depth	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C											
Injection Bank 6	Point 16	40	72	98.039	67.726	15.5	30.2	0.066	32	43.573	28.323	15.5	30.2	0.036	25	32.895	21.382	13.5	28.2	0.026											
	Point 19	40	19	18.050	11.733	0.0	14.7	0.006	34	32.300	20.995	0.0	14.7	0.013	22	20.900	13.585	0.0	14.7	0.009											
	Point 22	42	26	34.812	22.636	11.5	29.2	0.023	34	45.912	29.845	15.0	29.7	0.037	24	32.124	20.681	14.5	29.2	0.027											
	Point 25A	60	22	33.691	21.899	23.5	38.2	0.028	28	42.880	27.772	23.5	38.2	0.044	32	49.006	31.804	23.5	38.2	0.053											
	Point 25B	29	21	26.121	16.978	10.5	25.2	0.015	34	42.271	29.489	10.5	25.2	0.029	20	24.629	16.009	10.0	24.7	0.017											
	Point 28	24	34.522	22.439	19.0	33.7	0.026	31	44.920	29.198	19.5	34.2	0.042	25	35.835	25.048	24.0	38.7	0.043												
Point 31A	69	21	33.802	21.971	17.5	42.2	0.032	26	41.850	27.202	17.5	42.2	0.048	40	64.384	41.850	27.5	42.2	0.077												
Point 31B	40	21	28.357	18.432	15.0	29.7	0.019	34	45.912	29.845	15.0	29.7	0.037	23	30.795	20.017	14.5	29.2	0.028												
Total Oxygen Injected Per Day (lb)		6.817										9.144										8.903									
		Depth	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C	SCFH (M)	SCFH (C*)	CFD (V)	PSI (M)	PSIA (P)	PV/RT lbs.C											
Injection Bank 7	Point 14	39	29	39.814	25.879	16.0	30.7	0.027	33	45.305	29.448	16.0	30.7	0.038	24	31.658	20.708	14.0	28.7	0.026											
	Point 17	40	30	39.474	25.558	13.5	28.2	0.025	31	40.790	26.513	13.5	28.2	0.031	30	39.122	25.430	13.0	27.7	0.031											
	Point 20	40	29	39.160	25.454	15.0	29.7	0.026	35	48.051	31.233	16.0	30.7	0.040	18	24.966	15.799	15.0	29.7	0.021											
	Point 23	40	26	34.608	22.509	14.5	29.2	0.026	35	47.262	30.720	15.0	29.7	0.038	22	29.456	19.144	14.5	29.2	0.025											
	Point 26A	60	30	45.943	29.963	23.5	38.2	0.039	37	56.663	36.831	23.5	38.2	0.059	24	35.613	23.733	23.0	37.7	0.039											
	Point 26B	29	29	37.818	24.582	13.0	27.7	0.023	35	45.643	29.668	13.0	27.7	0.034	24	26.082	16.963	13.0	27.7	0.021											
Point 29A	66	30	47.422	30.825	26.0	40.7	0.043	30	47.422																						

Appendix D

OU-3 Oxygen Injection System Operational Data

Weight of Oxygen Injected through Q2 2021 **389,868 lbs**

Oxygen to OU-3 - 87 Community			
	Operational Days	Injected Per Month (lbs)	
Month 1	Jul-21	30	4,116
Month 2	Aug-21	31	4,312
Month 3	Sep-21	7	995
Total Operational Days in Q3 2021			68
Total Oxygen in Q3 2021 (lbs)			9,422.52
Running Total for Oxygen to 87 Community Rd Through Q3 2021 (lbs)			399,290.52

Notes:

SCFH (M) = Measured flow rate
SCFH (C) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CFID (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 cycle * 3.4 cycles)

Example

Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
Bank 7 starts injection at 100PM
Bank 7 finishes injection at 113pm
(Keep repeating cycle for course of day)

System Downtime
7/8/21 - Power outage
1310-1400
7/17/21-7/18/21 - Power Outage
2021-1000
9/6/21-9/7/21 - Sensor malfunctioned on compressor
0751-1000
9/7/21-9/8/21 - Sensor malfunctioned on compressor
1500-0800
9/8/21-9/30/21 - Sensor malfunctioned on compressor
1100-0930

		7/14/2021										8/4/2021										9/14/2021																
		84.2										81.6										82.6																
		10.73										10.73										10.73																
		623										605										613																
		Depth	SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n	PV/RT	lbs O2		SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n	PV/RT	lbs O2		SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n	PV/RT	lbs O2		SCFH (M)	SCFH (C)	CFID (V)	PSI (M)	PSia (P)	n	PV/RT	lbs O2	
Injection Bank 1	Point 1A	11	30	32.145	23.680	4.0	18.7	0.056	30	32.145	23.680	4.0	18.7	0.056	29	31.073	22.890	4.0	18.7	0.054	30	36.188	26.558	9.0	23.7	0.079	30	36.188	26.558	9.0	23.7	0.079	30	36.188	26.558	9.0	23.7	0.079
	Point 1B	21	30	35.416	26.090	8.0	22.7	0.075	32	37.777	27.829	8.0	22.7	0.079	30	36.188	26.558	9.0	23.7	0.079	30	36.188	26.558	9.0	23.7	0.079	32	37.777	27.829	8.0	22.7	0.075	30	35.416	26.090	8.0	22.7	0.075
	Point 1C	31	30	38.768	28.559	12.5	27.2	0.098	30	39.122	28.820	13.0	27.7	0.100	32	41.352	30.463	12.5	27.2	0.104	30	38.768	28.559	12.5	27.2	0.098	30	38.768	28.559	12.5	27.2	0.098	30	38.768	28.559	12.5	27.2	0.098
	Point 2A	11	30	32.145	23.680	4.0	18.7	0.056	41	43.931	32.362	4.0	18.7	0.076	29	31.073	22.890	4.0	18.7	0.054	29	31.073	22.890	4.0	18.7	0.054	30	32.145	23.680	4.0	18.7	0.056	30	32.145	23.680	4.0	18.7	0.056
	Point 2B	21	29	36.071	26.573	10.5	25.2	0.084	30	37.315	27.489	10.5	25.2	0.087	35	43.964	32.385	11.0	25.7	0.105	30	36.071	26.573	10.5	25.2	0.084	30	36.071	26.573	10.5	25.2	0.084	30	36.071	26.573	10.5	25.2	0.084
	Point 2C	31	30	38.410	28.295	12.0	26.7	0.095	30	38.768	28.559	12.5	27.2	0.098	31	40.060	29.511	12.5	27.2	0.101	30	38.410	28.295	12.0	26.7	0.095	30	38.410	28.295	12.0	26.7	0.095	30	38.410	28.295	12.0	26.7	0.095
Injection Bank 2	Point 3A	11	30	32.571	23.994	4.5	19.2	0.058	30	32.993	24.305	5.0	19.7	0.060	30	32.993	24.305	5.0	19.7	0.060	30	32.993	24.305	5.0	19.7	0.060	31	37.394	27.547	9.0	23.7	0.079	30	32.571	23.994	4.5	19.2	0.058
	Point 3B	21	29	34.610	25.496	8.5	23.2	0.075	30	35.804	26.376	8.5	23.2	0.077	31	37.394	27.547	9.0	23.7	0.079	30	34.610	25.496	8.5	23.2	0.075	30	34.610	25.496	8.5	23.2	0.075	30	34.610	25.496	8.5	23.2	0.075
	Point 4A	11	30	32.571	23.994	4.5	19.2	0.058	30	32.571	23.994	4.5	19.2	0.058	30	32.571	23.994	4.5	19.2	0.058	30	32.571	23.994	4.5	19.2	0.058	30	32.571	23.994	4.5	19.2	0.058	30	32.571	23.994	4.5	19.2	0.058
	Point 4B	21	30	35.416	26.090	8.0	22.7	0.075	30	35.416	26.090	8.0	22.7	0.074	31	36.597	26.959	8.0	22.7	0.077	30	35.416	26.090	8.0	22.7	0.075	30	35.416	26.090	8.0	22.7	0.075	30	35.416	26.090	8.0	22.7	0.075
	Point 4C	31	30	39.474	29.079	13.5	28.2	0.103	30	39.122	28.820	13.0	27.7	0.100	31	40.427	29.781	13.0	27.7	0.104	30	39.474	29.079	13.5	28.2	0.103	30	39.474	29.079	13.5	28.2	0.103	30	39.474	29.079	13.5	28.2	0.103
	Point 5A	11	29	31.073	22.890	4.0	18.7	0.054	31	33.216	24.469	4.0	18.7	0.058	30	32.571	23.994	4.5	19.2	0.058	30	31.073	22.890	4.0	18.7	0.054	30	31.073	22.890	4.0	18.7	0.054	30	31.073	22.890	4.0	18.7	0.054
Injection Bank 3	Point 5B	21	30	35.416	26.090	8.0	22.7	0.075	30	35.804	26.376	8.5	23.2	0.077	30	35.416	26.090	8.0	22.7	0.074	30	35.416	26.090	8.0	22.7	0.074	30	35.416	26.090	8.0	22.7	0.074	30	35.416	26.090	8.0	22.7	0.074
	Point 5C	31	32	41.731	30.742	13.0	27.7	0.107	30	39.122	28.820	13.0	27.7	0.100	31	40.790	30.048	13.5	28.2	0.106	30	41.731	30.742	13.0	27.7	0.107	30	41.731	30.742	13.0	27.7	0.107	30	41.731	30.742	13.0	27.7	0.107
	Point 6A	11	30	32.571	23.994	4.5	19.2	0.058	30	32.571	23.994	4.5	19.2	0.058	31	34.093	25.115	5.0	20.2	0.065	30	32.571	23.994	4.5	19.2	0.058	30	32.571	23.994	4.5	19.2	0.058	30	32.571	23.994	4.5	19.2	0.058
	Point 6B	21	31	35.781	26.359	7.0	21.7	0.072	30	34.627	25.509	7.0	21.7	0.070	31	35.781	26.359	7.0	21.7	0.072	30	35.781	26.359	7.0	21.7	0.072	31	35.781	26.359	7.0	21.7	0.072	30	35.781	26.359	7.0	21.7	0.072
	Point 6C	31	30	38.768	28.559	12.5	27.2	0.098	32	41.352	30.463	12.5	27.2	0.104	31	40.060	29.511	12.5	27.2	0.101	30	38.768	28.559	12.5	27.2	0.098	30	38.768	28.559	12.5	27.2	0.098	30	38.768	28.559	12.5	27.2	0.098
	Point 7A	11	32	35.192	25.925	5.0	19.7	0.064	29	31.893	23.495	5.0	19.7	0.058	35	38.492	28.355	5.0	19.7	0.070	30	35.192	25.925	5.0	19.7	0.064	30	35.192	25.925	5.0	19.7	0.064	30	35.192	25.925	5.0	19.7	0.064
Injection Bank 4	Point 7B	21	30	35.024	25.801	7.5	22.2	0.072	30	35.024	25.801	7.5	22.2	0.072	32	37.777	27.829	8.0	22.7	0.079	30	35.024	25.801	7.5	22.2	0.072	30	35.024	25.801	7.5	22.2	0.072	30	35.024	25.801	7.5	22.2	0.072
	Point 7C	31	30	39.122	28.820	13.0	27.7	0.101	30	39.122	28.820	13.0	27.7	0.100	31	40.427	29.781	13.0	27.7	0.104	30	39.122	28.820	13.0	27.7	0.101	30	39.122	28.820	13.0	27.7	0.101	30	39.122	28.820	13.0	27.7	0.101
	Point 8A	16	31	34.947	25.744	6.0	20.7	0.067	31	34.947	25.744	6.0	20.7	0.067	37	41.711	30.727	6.0	20.7	0.080	30	34.947	25.744	6.0	20.7	0.067	30	34.947	25.744	6.0	20.7	0.067	30	34.947	25.744	6.0	20.7	0.067
	Point 8B	26	31	38.175	28.122	10.0	24.7	0.087	30	38.943	27.215	10.0	24.7	0.084	31	38.175	28.122	10.0	24.7	0.087	30	38.175	28.122	10.0	24.7	0.087	30	38.175	28.122	10.0	24.7	0.087	30	38.175	28.122	10.0	24.7	0.087
	Point 8C	36	32	42.477	31.292	14.0	28.7	0.113	30	39.822	29.336	14.0	28.7	0.106	39	51.769	38.137	14.0	28.7	0.137	30	42.477	31.292	14.0	28.7	0.113	30	42.477	31.292	14.0	28.7	0.113	30	42.477	31.292	14.0	28.7	0.113
	Point 9A	16	27	29.694	21.874	5.0	19.7	0.054	30	32.571	23.994	4.5	19.2	0.058	29	32.295	23.791	5.5	20.2	0.060	30	29.694	21.874	5.0	19.7	0.054	30	29.694	21.874	5.0	19.7	0.054	30	29.694	21.874	5.0	19.7	0.054
Injection Bank 5	Point 9B	26	30	35.416	26.090	8.0	22.7	0.075	30	35.416	26.090	8.0	22.7	0.074	31	36.597	26.959	8.0	22.7	0.077	30	35.416	26.090	8.0	22.7	0.075	30	35.416	26.090	8.0	22.7	0.075	30	35.416	26.090	8.0	22.7	0.075
	Point 9C	36	30	39.474	29.079	13.5	28.2	0.103	30	39.474	29.079	13.5	28.2	0.103	30	39.474	29.079	13.5	28.2	0.103	30	39.474	29.079	13.5	28.2	0.103	30	39.474	29.079	13.5	28.2	0.103	30	39.474	29.079	13.5	28.2	0.103
	Point 10A	16	31	32.769	24.146	5.5	18.2	0.059	31	32.316	23.806	3.0	17.7	0.053	31	32.769	24.146	5.5	18.2	0.065	30	32.769	24.146	5.5	18.2	0.059	30	32.769	24.146	5.5	18.2	0.059	30	32.769	24.146	5.5	18.2	0.059
	Point 10B	26	31	39.175	28.122	10.5	24.7	0.087	30	38.943	27.215	10.0	24.7	0.084	31	38.175	28.122	10.0	24.7	0.087	30	39.175	28.122	10.5	24.7	0.087	30	39.175	28.122	10.5	24.7	0.087	30	39.175	28.122	10.5	24.7	0.087
	Point 10C	36	27	35.840	26.402	14.0	28.7	0.095	30	39.822	29.336	14.0	28.7	0.106	30	39.822	29.336	14.0	28.7	0.106	30	35.840	26.402	14.0	28.7	0.095	30	35.840	26.402	14.0	28.7	0.095	30	35.840	26.402	14.0	28.7	0.095
	Point 11A	16	31	34.093	25.115	5.0	19.7	0.062	31	34.093	25.115	5.0	19.7	0.062	31	34.523	25.432	5.5	20.2	0.065	30	34.093	25.115	5.0	19.7	0.062	30	34.093	25.115	5.0	19.7	0.062	30	34.093	25.115	5.0	19.7	0.062
Injection Bank 6	Point 11B	26	30	36.567	26.938	9.5	24.2	0.082	30	36.188	26.558	9.0	23.7	0.079	30	36.567	26.938	9.5	24.2	0.082	30	36.567	26.938	9.5	24.2	0.082	30	36.567	26.938	9.5	24.2	0.082	30	36.567	26.938	9.5	24.2	0.082
	Point 12A	16	30	33.820	24.914	6.0	20.7	0.065	29	32.692	24.083	6.0	20.7	0.063	29	32.295	23.791	5.5	20.2	0.060	30	33.820	24.914	6.0	20.7	0.065	30	33.820	24.914	6.0	20.7	0.065	30	33.820	24.914	6.0	20.7	0.065
	Point 12B	26	31	38.175	28.122	10.0	24.7	0.087	29	35.348	26.040	9.5	24.2	0.079	31	38.559	28.405	10.5	25.2	0.090	30	38.175	28.122	10.0	24.7	0.087	30	38.175	28.122	10.0	24.7	0.087	30	38.175	28.122			

Oxygen to OU-3 - 87 Community			
	Operational Days		Injected Per Month (lbs)
Month 1	Oct-21	31	4,149
Month 2	Nov-21	30	4,273
Month 3	Dec-21	31	4,120
Total Operational Days in Q4 2021			92
Total Oxygen in Q4 2021 (lbs)			12,541.99
Running Total for Oxygen to 87 Community Rd Through Q4 2021 (lbs)			411,832.51

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)

System Downtime
10/18/21 - Power outage
1045-1900
12/6/21 - Biannual Maintenance
1300-1500

		10/6/2021										11/8/2021										12/15/2021									
		81.6										79.6										80.3									
		10.73										10.73										10.73									
		615										587										587									
Temp R (T)																															
		SCFH (M)	SCFH (C)	CFD (M)	PSI (M)	PSIa (P)	FWIRT (In C)	SCFH (M)	SCFH (C)	CFD (M)	PSI (M)	PSIa (P)	FWIRT (In C)	SCFH (M)	SCFH (C)	CFD (M)	PSI (M)	PSIa (P)	FWIRT (In C)												
Injection Bank 1	Point 1A	11	23	24.644	18.155	4.0	18.7	0.042	29	31.073	22.890	4.0	18.7	0.054	29	31.073	22.890	4.0	18.7	0.055											
	Point 1B	21	30	35.416	26.090	8.0	22.7	0.073	35	41.771	30.771	8.5	23.2	0.090	33	38.958	28.699	8.0	22.7	0.083											
	Point 1C	31	30	38.768	28.559	12.5	27.2	0.096	28	36.183	26.655	12.5	27.2	0.092	30	38.768	28.559	12.5	27.2	0.099											
	Point 2A	11	30	32.145	23.680	4.0	18.7	0.055	40	42.859	31.573	4.0	18.7	0.075	35	37.502	27.626	4.0	18.7	0.066											
	Point 2B	21	27	33.584	24.740	10.5	25.2	0.077	30	37.315	27.489	10.5	25.2	0.088	30	37.315	27.489	10.5	25.2	0.088											
	Point 2C	31	29	37.475	27.607	12.5	27.2	0.093	29	37.129	27.352	12.0	26.7	0.092	29	36.780	27.095	11.5	26.2	0.091											
	Point 3A	11	27	29.694	21.874	5.0	19.7	0.053	30	32.571	23.994	4.5	19.2	0.058	31	33.216	24.469	4.0	18.7	0.058											
Point 3B	21	29	34.610	25.496	8.5	23.2	0.073	30	35.416	26.090	8.0	22.7	0.075	30	35.416	26.090	8.0	22.7	0.076												
Total Oxygen Injected Per Day (lb)		17.997										19.951										19.686									
Injection Bank 2	Point 3C	31	31	40.427	29.781	13.0	27.7	0.102	32	42.106	31.018	13.5	28.2	0.111	29	37.818	27.860	13.0	27.7	0.098											
	Point 4A	11	29	31.486	23.194	4.5	19.2	0.055	33	36.292	26.735	5.0	19.7	0.067	29	31.486	23.194	4.5	19.2	0.057											
	Point 4B	21	26	30.694	22.611	8.0	22.7	0.063	31	36.997	26.959	8.0	22.7	0.077	29	34.235	25.220	8.0	22.7	0.073											
	Point 4C	31	30	39.122	28.820	13.0	27.7	0.099	30	39.122	28.820	13.0	27.7	0.101	28	36.514	26.899	13.0	27.7	0.095											
	Point 5A	11	29	31.073	22.890	4.0	18.7	0.055	36	38.573	28.416	4.0	18.7	0.067	28	29.588	21.904	3.5	18.2	0.051											
	Point 5B	21	27	31.874	23.481	8.0	22.7	0.066	31	36.997	27.255	8.5	23.2	0.080	28	33.055	24.350	8.0	22.7	0.070											
	Point 5C	31	31	40.427	29.781	13.0	27.7	0.102	37	48.251	35.545	13.0	27.7	0.124	29	37.818	27.860	13.0	27.7	0.098											
Point 6A	11	26	28.229	20.795	4.5	19.2	0.040	32	34.743	25.594	4.5	19.2	0.062	30	32.571	23.994	4.5	19.2	0.059												
Total Oxygen Injected Per Day (lb)		18.863										22.046										19.242									
Injection Bank 3	Point 6B	21	29	33.473	24.659	7.0	22.1	0.066	29	33.473	24.658	7.0	21.7	0.062	28	32.319	23.808	7.0	21.7	0.065											
	Point 6C	31	29	37.475	27.607	12.5	27.2	0.093	33	42.645	31.415	12.5	27.2	0.108	28	33.288	24.523	12.0	26.7	0.083											
	Point 7A	11	27	29.314	21.595	4.5	19.2	0.051	32	35.192	25.925	5.0	19.7	0.065	27	29.694	21.874	5.0	19.7	0.055											
	Point 7B	21	29	34.235	25.220	8.0	22.7	0.071	29	34.235	25.220	8.0	22.7	0.072	26	30.694	22.611	8.0	22.7	0.065											
	Point 7C	31	29	37.818	27.860	13.0	27.7	0.095	29	38.158	28.110	13.5	28.2	0.100	28	36.514	26.899	13.0	27.7	0.095											
	Point 8A	11	30	33.409	24.611	5.5	20.2	0.061	32	35.636	26.252	5.5	20.2	0.067	29	32.295	23.791	5.5	20.2	0.061											
	Point 8B	26	27	33.249	24.493	10.0	24.7	0.075	26	32.017	23.586	10.0	24.7	0.074	26	32.017	23.586	10.0	24.7	0.074											
Point 8C	36	26	34.513	25.424	14.0	28.7	0.090	31	41.150	30.314	14.0	28.7	0.110	28	37.168	27.380	14.0	28.7	0.100												
Total Oxygen Injected Per Day (lb)		19.297										21.225										19.214									
Injection Bank 4	Point 9A	16	30	32.993	24.305	5.0	19.7	0.059	31	34.093	25.115	5.0	19.7	0.063	28	30.793	22.684	5.0	19.7	0.057											
	Point 9B	26	30	35.416	26.090	8.0	22.7	0.073	32	37.777	27.829	8.0	22.7	0.080	30	35.416	26.090	8.0	22.7	0.076											
	Point 9C	36	30	39.474	29.079	13.5	28.2	0.101	32	42.106	31.018	13.5	28.2	0.111	26	34.211	25.202	13.5	28.2	0.091											
	Point 10A	16	29	30.655	22.582	3.5	18.2	0.051	31	32.769	24.140	3.5	18.2	0.056	30	31.712	23.361	3.5	18.2	0.054											
	Point 10B	26	30	36.943	27.215	10.0	24.7	0.083	29	35.712	26.308	10.0	24.7	0.082	27	33.249	24.493	10.0	24.7	0.077											
	Point 10C	36	34	45.132	33.247	14.0	28.7	0.118	37	49.114	36.181	14.0	28.7	0.131	28	37.168	27.380	14.0	28.7	0.100											
	Point 11A	16	27	29.694	21.874	5.0	19.7	0.053	32	35.636	26.252	5.5	20.2	0.067	31	34.093	25.115	5.0	19.7	0.053											
Point 11B	26	30	36.188	26.658	9.0	23.7	0.078	30	36.567	26.938	9.5	24.2	0.082	29	34.981	25.770	9.0	23.7	0.078												
Total Oxygen Injected Per Day (lb)		19.750										21.478										19.057									
Injection Bank 5	Point 11C	36	30	39.822	29.336	14.0	28.7	0.104	28	37.168	27.380	14.0	28.7	0.099	37	49.114	36.181	14.0	28.7	0.132											
	Point 12A	16	31	34.093	25.115	5.0	19.7	0.061	27	29.694	21.874	5.0	19.7	0.054	10	10.571	7.787	3.5	18.2	0.018											
	Point 12B	26	33	38.558	28.699	8.0	22.7	0.081	32	37.777	27.829	8.0	22.7	0.080	31	36.191	26.661	7.5	21.2	0.075											
	Point 12C	36	30	39.474	29.079	13.5	28.2	0.101	27	35.527	26.171	13.5	28.2	0.093	33	43.695	31.702	13.0	27.7	0.122											
	Point 15A	15	30	34.226	25.213	6.5	21.2	0.066	31	34.947	25.144	6.5	20.7	0.067	31	34.947	25.144	6	20.7	0.068											
	Point 15B	30	30	37.694	27.760	11	25.7	0.088	30	38.048	28.029	11.5	26.2	0.093	34	42.708	31.462	11	25.7	0.103											
	Point 16A	15	31	36.597	26.959	8	22.7	0.076	28	33.417	24.617	8.5	23.2	0.072	32	36.936	27.209	7	21.7	0.075											
Point 16B	30	31	40.060	29.511	12.5	27.2	0.099	31	39.690	29.238	12	26.7	0.099	32	40.970	30.182	12	26.7	0.103												
Total Oxygen Injected Per Day (lb)		21.648										21.052										21.981									
Injection Bank 6	Point 13A	16	29	32.692	24.083	6.0	20.7	0.079	30	33.409	24.611	5.5	20.2	0.063	31	34.523	25.438	5.5	20.2	0.065											
	Point 13B	26	30	36.587	26.938	9.5	24.2	0.081	29	35.712	26.308	10.0	24.7	0.082	30	36.587	26.938	9.5	24.2	0.083											
	Point 13C	36	29	38.829	28.604	14.5	29.2	0.103	28	37.490	27.618	14.5	29.2	0.102	29	38.495	28.584	14.0	28.7	0.104											
	Point 14A	16	32	36.508	26.994	6.5	21.2	0.071	29	32.692	24.083	6.0	20.7	0.063	32	36.074	26.575	6.0	20.7	0.070											
	Point 14B	26	30	37.315	27.489	10.5	25.2	0.086	30	36.943	27.215	10.0	24.7	0.085	31	38.175	28.122	10.0	24.7	0.089											
	Point 14C	36	29	38.829	28.604	14.5	29.2	0.103	28	37.490	27.618	14.5	29.2	0.102	32	42.846	31.563	14.5	29.2	0.118											
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-											
Total Oxygen Injected Per Day (lb)		16.159										15.896										16.914									
Injection Bank 7	Point 17A	34	40	43.960	32.496	5.0	19.7	0.079	34	38.329	28.236	6.0	20.7	0.074	30	33.409	24.611	5.5	20.2	0.063											
	Point 17B	30	31	36.559	26.405	10.0	25.2	0.089	36	44.778	32.987	10.5	25.2	0.105	27	32.249	24.493	10.0	24.7	0.077											
	Point 18A	15	30	33.820	24.914	6.0	20.7	0.064	32	36.938	27.209	7.0	21.7	0.075	27	30.438	22.423	6.0	20.7	0.059											
	Point 18B	30	30	38.048	28.029	11.5	26.2	0.091	31	39.317	28.963	11.5	26.2	0.096	28	35.171	25.910	11.0	25.7	0.085											
	Point 19A	15	27	28.930	21.312	4.0	18.7	0.049	20	21.714	15.996	4.5	19.2	0.039	29	31.073	22.890	4.0	18.7	0.055											
	Point 19B	30	32	39.803	29.322	10.5	25.2	0.091	52	49.400	36.391	10.0	14.7	0.068	25	23.750	17.496	10.0	14.7	0.033											
	Point 20A	15	30	33.820	24.914	6	20.7	0.064	34	39.244	28.910	7.0	21.7	0.079	28	31.565	23.253	6.0	20.7	0.061											
Point 20B	30	31	40.427	29.781	13	27.7	0.102	34	44.339	32.663	13	27.7	0.114	28	36.183	26.655	12.5	27.2	0.092												
Total Oxygen Injected Per Day (lb)		20.111										20.784										16.824									
System Total Per Day (lb)		133.83										142.43										132.92									

Weight of Oxygen Injected through Q4 2021 **411,833** lbs

Oxygen to OU-3 - 87 Community			
Operational Days		Injected Per Month (lbs)	
Month 1	Jan-22	31	3,869
Month 2	Feb-22	28	3,730
Month 3	Mar-22	31	4,545
Total Operational Days in Q1 2022		90	
Total Oxygen in Q1 2022 (lbs)		12,143.32	
Running Total for Oxygen to 87 Community Rd Through Q1 2022 (lbs)		423,975.83	

Notes:

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

* Oxygen percentage readings for Feb/Mar 2019 taken from January due to water being found in the line and therefore unable to take an accurate reading

System Operating Specs

Total of 7 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 3.4 injection cycles per day
Each injection point injects oxygen for 44.2 min per day (13 min per cycle * 3.4 cycles)

Example

Bank 1 starts injection at 700AM
Bank 1 finishes injection at 713AM
System is recharging 713AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 813AM
System is recharging 813AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 913AM
System is recharging from 913AM to 1000AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging from 1013AM to 1100AM
Bank 5 starts injection at 1100AM
Bank 5 finishes injection at 1113AM
System is recharging from 1113AM to 1200PM
Bank 6 starts injection at 1200PM
Bank 6 finishes injection at 1213PM
System is recharging from 1213PM to 100PM
Bank 7 starts injection at 100PM
Bank 7 finishes injection at 113pm
(Keep repeating cycle for course of day)

System Downtime

01/18/22 - Power Outage
0830-1000

		1/13/2022										2/3/2022										3/14/2022														
		75.1										83.5										89.3														
		10.73										10.73										10.73														
		622										623										620														
		Depth	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	EPVIRT lbs C	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	EPVIRT lbs C										
Injection Bank 1	Point 1A	11	28	30.002	22.101	4.0	18.7	0.047	29	31.073	22.890	4.0	18.7	0.053	29	31.073	22.890	4.0	18.7	0.057	29	31.073	22.890	4.0	18.7	0.057										
	Point 1B	21	29	34.235	25.220	8.0	22.7	0.064	30	35.416	26.090	8.0	22.7	0.074	29	34.610	25.495	8.5	23.2	0.079	29	34.610	25.495	8.5	23.2	0.079										
	Point 1C	31	29	37.475	27.607	12.5	27.2	0.084	31	40.060	29.511	12.5	27.2	0.100	30	38.768	28.559	12.5	27.2	0.104	30	38.768	28.559	12.5	27.2	0.104										
	Point 2A	11	27	28.930	21.312	4.0	18.7	0.045	31	33.216	24.469	4.0	18.7	0.057	28	30.002	22.101	4.0	18.7	0.055	28	30.002	22.101	4.0	18.7	0.055										
	Point 2B	21	29	36.071	26.573	10.5	25.2	0.075	30	36.943	27.215	10.0	24.7	0.084	29	36.071	26.573	10.5	25.2	0.090	29	36.071	26.573	10.5	25.2	0.090										
	Point 2C	31	29	37.129	27.352	12.0	26.7	0.082	29	37.129	27.352	12.0	26.7	0.091	30	38.410	28.295	12.0	26.7	0.101	30	38.410	28.295	12.0	26.7	0.101										
	Point 3A	11	29	31.073	22.890	4.0	18.7	0.048	30	32.145	23.680	4.0	18.7	0.055	30	32.571	23.994	4.5	19.2	0.062	30	32.571	23.994	4.5	19.2	0.062										
Point 3B	21	30	35.804	26.376	8.5	23.2	0.069	30	35.804	26.376	8.5	23.2	0.076	30	35.804	26.376	8.5	23.2	0.082	30	35.804	26.376	8.5	23.2	0.082											
Total Oxygen Injected Per Day (lb)			16.474												18.938												20.220									
Injection Bank 2	Point 3C	31	30	39.122	28.820	13.0	27.7	0.090	32	42.477	31.292	14.0	28.7	0.112	30	39.474	29.079	13.5	28.2	0.110	30	39.474	29.079	13.5	28.2	0.110										
	Point 4A	11	30	32.993	24.305	5.0	19.7	0.054	32	34.743	25.594	4.5	19.2	0.061	30	32.993	24.305	5.0	19.7	0.079	30	32.993	24.305	5.0	19.7	0.079										
	Point 4B	21	31	36.597	26.959	8.0	22.7	0.059	31	36.597	26.959	8.0	22.7	0.076	30	35.416	26.090	8.0	22.7	0.079	30	35.416	26.090	8.0	22.7	0.079										
	Point 4C	31	30	39.122	28.820	13.0	27.7	0.090	31	40.427	29.781	13.0	27.7	0.103	29	37.818	27.860	13.0	27.7	0.104	29	37.818	27.860	13.0	27.7	0.104										
	Point 5A	11	30	32.145	23.680	4.0	18.7	0.050	28	30.002	22.101	4.0	18.7	0.052	30	32.145	23.680	4.0	18.7	0.059	30	32.145	23.680	4.0	18.7	0.059										
	Point 5B	21	30	35.416	26.090	8.0	22.7	0.067	30	35.416	26.090	8.0	22.7	0.074	31	36.997	27.255	8.5	23.2	0.085	31	36.997	27.255	8.5	23.2	0.085										
	Point 5C	31	29	37.818	27.860	13.0	27.7	0.087	31	40.427	29.781	13.0	27.7	0.103	31	40.790	30.048	13.5	28.2	0.114	31	40.790	30.048	13.5	28.2	0.114										
Point 6A	11	30	32.571	23.994	4.5	19.2	0.052	30	32.571	23.994	4.5	19.2	0.058	31	34.093	25.115	5.0	19.7	0.066	31	34.093	25.115	5.0	19.7	0.066											
Total Oxygen Injected Per Day (lb)			17.842												20.455												21.821									
Injection Bank 3	Point 6B	21	31	35.781	26.359	7.0	21.7	0.064	29	33.473	24.558	7.0	21.7	0.067	32	36.936	27.209	7.0	21.7	0.079	32	36.936	27.209	7.0	21.7	0.079										
	Point 6C	31	33	42.645	31.415	12.5	27.2	0.096	30	38.768	28.559	12.5	27.2	0.097	30	38.768	28.559	12.5	27.2	0.104	30	38.768	28.559	12.5	27.2	0.104										
	Point 7A	11	33	36.292	26.735	5.0	19.7	0.059	31	34.093	25.115	5.0	19.7	0.062	32	35.192	25.925	5.0	19.7	0.069	32	35.192	25.925	5.0	19.7	0.069										
	Point 7B	21	30	35.416	26.090	8.0	22.7	0.067	29	34.235	25.220	8.0	22.7	0.072	30	35.416	26.090	8.0	22.7	0.079	30	35.416	26.090	8.0	22.7	0.079										
	Point 7C	31	31	40.427	29.781	13.0	27.7	0.093	29	37.818	27.860	13.0	27.7	0.096	31	40.790	30.048	13.5	28.2	0.114	31	40.790	30.048	13.5	28.2	0.114										
	Point 8A	16	32	35.536	26.252	5.5	20.2	0.060	30	33.409	24.611	5.5	20.2	0.062	30	33.409	24.611	5.5	20.2	0.067	30	33.409	24.611	5.5	20.2	0.067										
	Point 8B	26	27	33.249	24.493	10.0	24.7	0.068	28	34.480	25.401	10.0	24.7	0.078	32	39.803	29.322	10.5	25.2	0.099	32	39.803	29.322	10.5	25.2	0.099										
Point 8C	36	34	45.523	33.536	14.5	29.2	0.110	28	37.168	27.380	14.0	28.7	0.098	32	42.846	31.563	14.5	29.2	0.124	32	42.846	31.563	14.5	29.2	0.124											
Total Oxygen Injected Per Day (lb)			19.750												20.230												23.519									
Injection Bank 4	Point 9A	16	32	35.192	25.925	5.0	19.7	0.057	29	31.893	23.495	5.0	19.7	0.058	30	32.993	24.305	5.0	19.7	0.064	30	32.993	24.305	5.0	19.7	0.064										
	Point 9B	26	32	37.777	27.829	8.0	22.7	0.071	28	33.055	24.350	8.0	22.7	0.069	30	35.416	26.090	8.0	22.7	0.079	30	35.416	26.090	8.0	22.7	0.079										
	Point 9C	36	30	39.474	29.079	13.5	28.2	0.092	28	36.842	27.141	13.5	28.2	0.096	30	39.474	29.079	13.5	28.2	0.110	30	39.474	29.079	13.5	28.2	0.110										
	Point 10A	16	33	34.883	25.697	3.5	18.2	0.053	30	31.712	23.361	3.5	18.2	0.053	30	31.712	23.361	3.5	18.2	0.057	30	31.712	23.361	3.5	18.2	0.057										
	Point 10B	26	32	39.406	29.029	10.0	24.7	0.091	27	33.249	24.493	10.0	24.7	0.078	32	39.406	29.029	10.0	24.7	0.086	32	39.406	29.029	10.0	24.7	0.086										
	Point 10C	36	31	41.150	30.314	14.0	28.7	0.096	30	39.822	29.336	14.0	28.7	0.105	35	46.459	34.225	14.0	28.7	0.132	35	46.459	34.225	14.0	28.7	0.132										
Point 11A	16	32	35.192	25.925	5.0	19.7	0.057	31	34.093	25.115	5.0	19.7	0.062	31	34.523	25.432	5.5	20.2	0.069	31	34.523	25.432	5.5	20.2	0.069											
Point 11B	26	31	37.786	27.836	9.5	24.2	0.076	30	36.567	26.938	9.5	24.2	0.081	30	36.567	26.938	9.5	24.2	0.088	30	36.567	26.938	9.5	24.2	0.088											
Total Oxygen Injected Per Day (lb)			18.730												19.185												22.255									
Injection Bank 5	Point 11C	36	32	42.106	31.018	13.5	28.2	0.098	29	38.495	28.358	14.0	28.7	0.102	30	39.822	29.336	14.0	28.7	0.113	30	39.822	29.336	14.0	28.7	0.113										
	Point 12A	16	25	27.484	20.254	5.0	19.7	0.045	30	32.993	24.305	5.0	19.7	0.060	29	31.893	23.495	5.0	19.7	0.062	29	31.893	23.495	5.0	19.7	0.062										
	Point 12B	26	32	36.191	26.461	7.0	22.2	0.067	31	36.191	26.461	7.0	22.2	0.074	28	32.680	24.061	7.5	22.7	0.072	28	32.680	24.061	7.5	22.7	0.072										
	Point 12C	36	31	40.427	29.781	13.0	27.7	0.093	31	40.427	29.781	13.0	27.7	0.103	31	40.790	30.048	13.5	28.2	0.114	31	40.790	30.048	13.5	28.2	0.114										
	Point 15A	15	31	34.523	25.432	5.5	20.2	0.058	29	32.692	24.083	6	20.7	0.062	30	33.820	24.914	6	20.7	0.069	30	33.820	24.914	6	20.7	0.069										
	Point 15B	30	32	40.585	29.988	11.5	26.2	0.088	29	36.428	26.835	11	25.7	0.086	30	37.684	27.760	11	25.7	0.096	30	37.684	27.760	11	25.7	0.096										
	Point 16A	15	31	35.781	26.359	7	21.7	0.064	31	36.191	26.661	7.5	22.2	0.074	26	30.354	22.361	7.5	22.2	0.067	26	30.354	22.361	7.5	22.2	0.067										
Point 16B	30	30	38.410	28.295	12	26.7	0.085	31	39.690	29.238	12	26.7	0.098	30	38.410	28.295	12	26.7	0.101	30	38.410	28.295	12	26.7	0.101											
Total Oxygen Injected Per Day (lb)			19.138												21.066												22.198									
Injection Bank 6	Point 13A	16	31	34.523	25.432	5.5	20.2	0.058	29	32.295	23.791	5.5	20.2	0.060	26	29.954	21.330	5.5	20.2	0.058	26	29.954	21.330	5.5	20.2	0.058										
	Point 13B	26	30	36.943	27.215	10.0	24.7	0.076	30	36.943	27.215	10.0	24.7	0.084	28	34.480	25.401	10.0	24.7	0.084	28	34.480	25.401	10.0	24.7	0.084										
	Point 13C	36	31	41.150	30.314	14.0	28.7	0.098	28	37.168	27.380	14.0	28.7	0.098	27	36.151	26.631	14.5	29.2	0.104	27	36.151	26.631	14.5	29.2	0.104										
	Point 14A	16	33	37.202	27.405	6.0	20.7	0.064	32	36.074	26.575	6.0	20.7	0.069	30	33.820	24.914	6.0	20.7	0.069	30	33.820	24.914	6.0	20.7	0.069										
	Point 14B	26	30	37.315	27.489	10.5	25.2	0.078	30	36.943	27.215	10.0	24.7	0.084	28	34.828	25.656	10.5	25.2	0.087	28	34.828	25.656	10.5	25.2	0.087										
	Point 14C	36	31	41.507	30.577	14.5	29.2	0.100	30	40.168	29.590	14.5	29.2	0.108	29	38.829	28.604	14.5	29.2	0.112	29	38.829	28.604	14.5	29.2	0.112										
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
Total Oxygen Injected Per Day (lb)			15.155												16.088												16.466									

Oxygen to OU-3 - 87 Community			
	Operational Days		Injected Per Month (lbs)
Month 1	Apr-22	30	5,168
Month 2	May-22	31	4,233
Month 3	Jun-22	30	3,592
Total Operational Days in Q2 2022			91
Total Oxygen in Q2 2022 (lbs)			12,992.66
Running Total for Oxygen to 87 Community Rd Through Q2 2022 (lbs)			436,968.66

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 = $n \times 32$ 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

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)

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)

01/18/22 - Power Outage
0830-1000

November 2022

Appendix E

Summary of Groundwater Parameter Data

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2008												Jan-09	Feb-09	Mar-09	Apr-09	May-09
		Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Jul-06	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08					
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	--	--
OZMW-16I	OU-1 Union Boulevard	--	--	--	--	--	5.54	--	--	5.86	--	--	6.14	--	--	5.74	--	--
OZMW-16I2	OU-1 Union Boulevard	5.25	--	--	--	--	5.08	--	--	5.37	--	--	5.46	--	--	5.06	--	--
OZMW-16D	OU-1 Union Boulevard	--	5.65	--	--	--	5.04	--	--	4.99	--	--	5.04	--	--	4.62	--	--
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
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
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
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
OZMW-18S	OU-1 Union Boulevard	6.34	--	--	--	--	6.25	--	--	5.78	--	--	6.38	--	--	5.86	--	--
OZMW-18I	OU-1 Union Boulevard	6.55	--	--	--	--	6.37	--	--	5.84	--	--	6.50	--	--	6.05	--	--
OZMW-18I2	OU-1 Union Boulevard	6.35	--	--	--	--	6.46	--	--	7.76	--	--	6.43	--	--	6.07	--	--
OZMW-18D	OU-1 Union Boulevard	--	5.83	--	--	--	6.14	--	--	5.71	--	--	5.91	--	--	5.27	--	--
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	--	--
OZMW-16I	OU-1 Union Boulevard	--	--	--	--	--	0.725	--	--	0.938	--	--	0.630	--	--	0.780	--	--
OZMW-16I2	OU-1 Union Boulevard	0.296	--	--	--	--	0.509	--	--	0.812	--	--	0.999	--	--	0.750	--	--
OZMW-16D	OU-1 Union Boulevard	--	1.890	--	--	--	2.220	--	--	2.010	--	--	6.690	--	--	2.100	--	--
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
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
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
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
OZMW-18S	OU-1 Union Boulevard	0.405	--	--	--	--	0.826	--	--	0.678	--	--	0.675	--	--	1.300	--	--
OZMW-18I	OU-1 Union Boulevard	0.496	--	--	--	--	0.595	--	--	0.531	--	--	0.496	--	--	0.626	--	--
OZMW-18I2	OU-1 Union Boulevard	0.482	--	--	--	--	0.790	--	--	0.949	--	--	0.879	--	--	0.686	--	--
OZMW-18D	OU-1 Union Boulevard	--	1.760	--	--	--	1.580	--	--	1.790	--	--	4.100	--	--	2.020	--	--
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	--	--
OZMW-16I	OU-1 Union Boulevard	--	--	--	--	--	20.0	--	--	20.0	--	--	20.0	--	--	44.0	--	--
OZMW-16I2	OU-1 Union Boulevard	0.0	--	--	--	--	1.4	--	--	0.0	--	--	0.0	--	--	1.9	--	--
OZMW-16D	OU-1 Union Boulevard	--	0.0	--	--	--	0.0	--	--	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
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
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
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
OZMW-18S	OU-1 Union Boulevard	0.0	--	--	--	--	17.4	--	--	20.0	--	--	9.4	--	--	31.0	--	--
OZMW-18I	OU-1 Union Boulevard	0.0	--	--	--	--	0.0	--	--	4.6	--	--	0.8	--	--	1.5	--	--
OZMW-18I2	OU-1 Union Boulevard	0.0	--	--	--	--	0.0	--	--	8.8	--	--	0.0	--	--	0.0	--	--
OZMW-18D	OU-1 Union Boulevard	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2008																
		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
pH (SU)																		
OU2MW-57I2	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	OU-1 Union Boulevard	11.0	--	--	--	--	18.4	--	--	18.9	--	--	14.3	--	--	10.6	--	--
OZMW-16I	OU-1 Union Boulevard	--	--	--	--	--	15.7	--	--	16.2	--	--	14.2	--	--	12.5	--	--
OZMW-16I2	OU-1 Union Boulevard	12.7	--	--	--	--	15.5	--	--	16.1	--	--	13.3	--	--	12.8	--	--
OZMW-16D	OU-1 Union Boulevard	--	12.6	--	--	--	13.6	--	--	15.6	--	--	13.3	--	--	12.4	--	--
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
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
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
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
OZMW-18S	OU-1 Union Boulevard	9.4	--	--	--	--	18.0	--	--	20.6	--	--	13.9	--	--	10.6	--	--
OZMW-18I	OU-1 Union Boulevard	11.9	--	--	--	--	16.6	--	--	17.6	--	--	14.8	--	--	12.5	--	--
OZMW-18I2	OU-1 Union Boulevard	12.5	--	--	--	--	15.7	--	--	23.5	--	--	14.1	--	--	12.9	--	--
OZMW-18D	OU-1 Union Boulevard	--	11.7	--	--	--	14.7	--	--	17.1	--	--	13.9	--	--	13.0	--	--
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.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--
OZMW-16I	OU-1 Union Boulevard	--	--	--	--	--	224	--	--	113	--	--	180	--	--	121	--	--
OZMW-16I2	OU-1 Union Boulevard	86	--	--	--	--	189	--	--	109	--	--	84	--	--	31	--	--
OZMW-16D	OU-1 Union Boulevard	--	-48	--	--	--	73	--	--	43	--	--	83	--	--	67	--	--
OZMW-17S	OU-1 Union Boulevard	-137	--	144	58	76	42	--	49	-34	12	-28	-61	-23	46	70	78	62
OZMW-17I	OU-1 Union Boulevard	-144	--	35	89	77	58	--	62	16	104	47	-23	-85	-17	87	57	52
OZMW-17I2	OU-1 Union Boulevard	110	--	106	127	122	179	--	144	114	149	51	107	-10	53	94	157	104
OZMW-17D	OU-1 Union Boulevard	--	13	36	17	-34	26	--	21	35	-38	-76	69	7	24	79	55	61
OZMW-18S	OU-1 Union Boulevard	-112	--	--	--	--	-40	--	--	0	--	--	31	--	--	64	--	--
OZMW-18I	OU-1 Union Boulevard	-168	--	--	--	--	-61	--	--	-46	--	--	-66	--	--	-75	--	--
OZMW-18I2	OU-1 Union Boulevard	-54	--	--	--	--	-52	--	--	-25	--	--	-92	--	--	-132	--	--
OZMW-18D	OU-1 Union Boulevard	--	-93	--	--	--	-109	--	--	-114	--	--	-64	--	--	-46	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2009							2010					
		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	6.41	--	--	6.57	--	6.56	--	6.37	6.26	5.49	6.31	5.78	6.42
OZMW-16I	OU-1 Union Boulevard	5.44	--	--	6.08	--	6.46	--	6.31	6.46	6.90	6.93	6.58	6.10
OZMW-16I2	OU-1 Union Boulevard	5.86	--	--	5.68	--	5.69	--	5.66	5.34	5.16	5.51	5.94	6.27
OZMW-16D	OU-1 Union Boulevard	4.98	--	--	5.12	--	5.21	--	5.10	5.22	5.22	5.36	4.71	4.30
OZMW-17S	OU-1 Union Boulevard	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	6.70	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	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	5.78	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	5.80	--	--	6.23	--	6.18	--	5.90	5.92	4.88	6.49	6.18	6.62
OZMW-18I	OU-1 Union Boulevard	6.66	--	--	6.73	--	7.20	--	6.77	6.36	5.60	6.95	6.42	6.14
OZMW-18I2	OU-1 Union Boulevard	6.64	--	--	6.89	--	6.54	--	6.31	5.26	4.88	6.27	5.64	6.00
OZMW-18D	OU-1 Union Boulevard	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	0.450	--	--	0.569	--	0.487	--	0.809	0.822	0.775	0.459	0.410	0.490
OZMW-16I	OU-1 Union Boulevard	0.504	--	--	0.479	--	0.618	--	0.576	0.638	0.870	0.626	0.570	0.659
OZMW-16I2	OU-1 Union Boulevard	0.603	--	--	0.579	--	0.541	--	0.620	0.408	0.506	0.383	0.412	0.618
OZMW-16D	OU-1 Union Boulevard	1.130	--	--	0.386	--	0.445	--	2.840	0.381	0.458	0.415	0.298	0.228
OZMW-17S	OU-1 Union Boulevard	0.809	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	0.489	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	0.360	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	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	0.567	--	--	0.403	--	0.466	--	0.453	1.870	0.676	0.479	0.468	0.572
OZMW-18I	OU-1 Union Boulevard	0.580	--	--	0.639	--	0.629	--	0.557	0.872	0.856	0.580	0.561	0.689
OZMW-18I2	OU-1 Union Boulevard	0.571	--	--	0.518	--	0.509	--	0.502	0.425	0.502	0.335	0.291	0.445
OZMW-18D	OU-1 Union Boulevard	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	16.9	--	--	20.0	--	25.0	--	20.0	16.4	26.0	32.0	26.0	29.0
OZMW-16I	OU-1 Union Boulevard	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	--	--	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	1.7	0.0	0.0	0.0
OZMW-17S	OU-1 Union Boulevard	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	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	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	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	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	--	--	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	--	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
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	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2009							2010					
		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-57I2	66 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	OU-1 Union Boulevard	15.0	--	--	18.4	--	15.1	--	11.3	10.5	10.7	12.7	12.4	15.0
OZMW-16I	OU-1 Union Boulevard	14.3	--	--	15.6	--	14.5	--	12.4	12.4	12.7	14.2	13.9	14.4
OZMW-16I2	OU-1 Union Boulevard	14.8	--	--	16.6	--	14.0	--	10.2	11.8	12.8	14.3	12.8	14.5
OZMW-16D	OU-1 Union Boulevard	14.3	--	--	15.3	--	13.8	--	11.7	11.1	12.9	14.3	13.7	14.8
OZMW-17S	OU-1 Union Boulevard	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	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	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	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	14.5	--	--	18.4	--	15.8	--	9.6	9.5	10.3	11.9	11.9	14.3
OZMW-18I	OU-1 Union Boulevard	13.9	--	--	15.5	--	15.1	--	12.6	12.5	12.6	13.3	13.2	14.3
OZMW-18I2	OU-1 Union Boulevard	14.5	--	--	16.1	--	13.9	--	12.5	12.2	12.9	14.1	12.8	14.7
OZMW-18D	OU-1 Union Boulevard	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	123	--	--	74	--	244	--	161	152	131	108	191	171
OZMW-16I	OU-1 Union Boulevard	207	--	--	94	--	202	--	351	192	16	90	193	220
OZMW-16I2	OU-1 Union Boulevard	86	--	--	20	--	59	--	60	121	61	32	57	-33
OZMW-16D	OU-1 Union Boulevard	127	--	--	54	--	92	--	97	106	115	-37	85	97
OZMW-17S	OU-1 Union Boulevard	-11	73	51	60	29	77	70	63	77	68	65	50	46
OZMW-17I	OU-1 Union Boulevard	30	213	60	111	41	70	297	172	139	115	120	110	187
OZMW-17I2	OU-1 Union Boulevard	120	189	-16	138	-73	140	157	190	144	137	50	146	114
OZMW-17D	OU-1 Union Boulevard	80	103	-102	98	-42	70	136	103	89	52	78	90	39
OZMW-18S	OU-1 Union Boulevard	168	--	--	58	--	121	--	172	150	104	107	155	107
OZMW-18I	OU-1 Union Boulevard	-42	--	--	-27	--	0	--	54	93	139	79	100	102
OZMW-18I2	OU-1 Union Boulevard	-77	--	--	-152	--	-121	--	-21	206	75	69	180	139
OZMW-18D	OU-1 Union Boulevard	-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.)	--	--	--	--	--	--	--	--	--	--	--	--	--

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Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2010						2011										
		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
pH (SU)																		
OU2MW-57S	66 North Clinton	--	--	6.29	6.16	--	--	--	6.11	--	--	5.75	--	--	5.60	--	5.75	--
OU2MW-57I	66 North Clinton	--	--	5.72	5.78	--	--	--	5.93	--	--	5.35	--	--	5.92	--	5.62	--
OU2MW-57I2	66 North Clinton	--	--	5.83	5.73	--	--	--	6.02	--	--	5.50	--	--	5.70	--	5.40	--
OZMW-16S	OU-1 Union Boulevard	--	7.01	--	6.41	--	--	7.12	--	--	--	6.03	--	--	6.59	--	--	--
OZMW-16I	OU-1 Union Boulevard	--	5.65	--	6.88	--	--	6.64	--	--	--	6.84	--	--	6.75	--	--	--
OZMW-16I2	OU-1 Union Boulevard	--	5.43	--	6.69	--	--	7.20	--	--	--	5.70	--	--	7.30	--	--	--
OZMW-16D	OU-1 Union Boulevard	--	5.39	--	5.05	--	--	4.69	--	--	--	5.95	--	--	5.15	--	--	--
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
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
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
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
OZMW-18S	OU-1 Union Boulevard	--	5.52	--	6.77	--	--	7.18	--	--	--	6.47	--	--	6.86	--	--	--
OZMW-18I	OU-1 Union Boulevard	--	7.69	--	6.64	--	--	6.79	--	--	--	6.17	--	--	6.94	--	--	--
OZMW-18I2	OU-1 Union Boulevard	--	5.03	--	5.87	--	--	6.78	--	--	--	6.95	--	--	6.42	--	--	--
OZMW-18D	OU-1 Union Boulevard	--	5.98	--	5.02	--	--	5.73	--	--	--	5.26	--	--	7.77	--	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	ER	--	5.87	--	--	5.83	--	5.72	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	ER	--	5.49	--	--	6.00	--	5.84	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	ER	--	4.85	--	--	5.10	--	3.50	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	ER	--	5.35	--	--	5.46	--	7.00	--
Conductivity (mS/cm)																		
OU2MW-57S	66 North Clinton	--	--	0.179	0.535	--	--	--	0.896	--	--	0.385	--	--	0.453	--	0.662	--
OU2MW-57I	66 North Clinton	--	--	0.378	0.324	--	--	--	0.417	--	--	0.240	--	--	0.412	--	0.807	--
OU2MW-57I2	66 North Clinton	--	--	0.372	0.345	--	--	--	0.432	--	--	0.538	--	--	1.040	--	0.837	--
OZMW-16S	OU-1 Union Boulevard	--	0.372	--	0.277	--	--	0.348	--	--	--	0.600	--	--	0.497	--	--	--
OZMW-16I	OU-1 Union Boulevard	--	1.020	--	0.583	--	--	0.740	--	--	--	0.673	--	--	0.717	--	--	--
OZMW-16I2	OU-1 Union Boulevard	--	1.050	--	0.527	--	--	0.459	--	--	--	0.558	--	--	0.482	--	--	--
OZMW-16D	OU-1 Union Boulevard	--	0.197	--	0.152	--	--	0.209	--	--	--	0.229	--	--	0.579	--	--	--
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
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
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
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
OZMW-18S	OU-1 Union Boulevard	--	0.742	--	0.358	--	--	0.497	--	--	--	0.467	--	--	0.613	--	--	--
OZMW-18I	OU-1 Union Boulevard	--	0.685	--	0.590	--	--	0.696	--	--	--	0.718	--	--	0.676	--	--	--
OZMW-18I2	OU-1 Union Boulevard	--	0.660	--	0.384	--	--	0.332	--	--	--	0.400	--	--	0.548	--	--	--
OZMW-18D	OU-1 Union Boulevard	--	0.968	--	0.731	--	--	0.743	--	--	--	0.878	--	--	0.547	--	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	0.275	--	0.204	--	--	0.215	--	0.260	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	0.390	--	0.595	--	--	0.555	--	0.717	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	0.334	--	0.204	--	--	0.525	--	0.468	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	0.510	--	0.500	--	--	0.386	--	0.363	--
Dissolved Oxygen (mg/L)																		
OU2MW-57S	66 North Clinton	--	--	0.0	0.0	--	--	--	0.0	--	--	0.4	--	--	1.9	--	1.6	--
OU2MW-57I	66 North Clinton	--	--	3.2	5.0	--	--	--	9.1	--	--	2.8	--	--	0.0	--	6.9	--
OU2MW-57I2	66 North Clinton	--	--	0.0	0.0	--	--	--	1.8	--	--	0.4	--	--	3.1	--	2.7	--
OZMW-16S	OU-1 Union Boulevard	--	30.0	--	27.0	--	--	26.0	--	--	--	25.0	--	--	26.0	--	--	--
OZMW-16I	OU-1 Union Boulevard	--	28.8	--	25.0	--	--	29.0	--	--	--	24.0	--	--	37.0	--	--	--
OZMW-16I2	OU-1 Union Boulevard	--	0.0	--	0.0	--	--	0.0	--	--	--	0.6	--	--	0.0	--	--	--
OZMW-16D	OU-1 Union Boulevard	--	0.1	--	0.0	--	--	0.0	--	--	--	0.0	--	--	0.0	--	--	--
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
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
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
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
OZMW-18S	OU-1 Union Boulevard	--	17.3	--	23.0	--	--	22.0	--	--	--	27.0	--	--	30.0	--	--	--
OZMW-18I	OU-1 Union Boulevard	--	20.0	--	14.7	--	--	24.0	--	--	--	15.8	--	--	19.0	--	--	--
OZMW-18I2	OU-1 Union Boulevard	--	6.3	--	5.8	--	--	5.0	--	--	--	11.2	--	--	9.8	--	--	--
OZMW-18D	OU-1 Union Boulevard	--	0.1	--	0.0	--	--	0.0	--	--	--	11.0	--	--	0.0	--	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	0.7	--	0.0	--	--	17.6	--	38.0	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	0.0	--	0.4	--	--	0.0	--	2.6	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	3.6	--	6.6	--	--	0.0	--	0.0	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	0.1	--	0.4	--	--	1.7	--	0.0	--
Temperature (degrees Celcius)																		
OU2MW-57S	66 North Clinton	--	--	20.3	20.2	--	--	--	11.2	--	--	12.5	--	--	22.7	--	20.3	--
OU2MW-57I	66 North Clinton	--	--	17.1	18.0	--	--	--	13.0	--	--	13.6	--	--	16.6	--	17.2	--

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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2010						2011										
		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
pH (SU)																		
OU2MW-57I2	66 North Clinton	--	--	19.4	18.0	--	--	--	13.6	--	--	13.5	--	--	16.1	--	16.4	--
OZMW-16S	OU-1 Union Boulevard	--	18.1	--	16.8	--	--	12.1	--	--	--	13.4	--	--	17.9	--	--	--
OZMW-16I	OU-1 Union Boulevard	--	17.3	--	15.0	--	--	13.2	--	--	--	14.3	--	--	18.0	--	--	--
OZMW-16I2	OU-1 Union Boulevard	--	17.1	--	14.8	--	--	12.1	--	--	--	13.7	--	--	15.1	--	--	--
OZMW-16D	OU-1 Union Boulevard	--	17.2	--	14.4	--	--	11.9	--	--	--	16.3	--	--	15.1	--	--	--
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
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
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
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
OZMW-18S	OU-1 Union Boulevard	--	21.2	--	18.2	--	--	12.1	--	--	--	14.5	--	--	18.6	--	--	--
OZMW-18I	OU-1 Union Boulevard	--	17.3	--	16.6	--	--	13.8	--	--	--	14.8	--	--	22.1	--	--	--
OZMW-18I2	OU-1 Union Boulevard	--	17.0	--	15.7	--	--	13.2	--	--	--	15.0	--	--	17.3	--	--	--
OZMW-18D	OU-1 Union Boulevard	--	16.6	--	15.1	--	--	13.4	--	--	--	16.8	--	--	17.4	--	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	8.9	--	11.9	--	--	21.6	--	17.7	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	11.7	--	13.2	--	--	19.1	--	16.5	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	12.7	--	13.5	--	--	15.6	--	15.0	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	11.6	--	12.7	--	--	ER	--	14.3	--
Oxidation Reduction Potential (mV)																		
OU2MW-57S	66 North Clinton	--	--	-118	-101	--	--	--	-86	--	--	-79	--	--	-45	--	-69	--
OU2MW-57I	66 North Clinton	--	--	64	54	--	--	--	129	--	--	179	--	--	110	--	90	--
OU2MW-57I2	66 North Clinton	--	--	69	63	--	--	--	143	--	--	156	--	--	103	--	177	--
OZMW-16S	OU-1 Union Boulevard	--	151	--	189	--	--	167	--	--	--	187	--	--	-38	--	--	--
OZMW-16I	OU-1 Union Boulevard	--	124	--	278	--	--	140	--	--	--	183	--	--	68	--	--	--
OZMW-16I2	OU-1 Union Boulevard	--	-69	--	-74	--	--	-18	--	--	--	-60	--	--	-100	--	--	--
OZMW-16D	OU-1 Union Boulevard	--	131	--	107	--	--	135	--	--	--	137	--	--	70	--	--	--
OZMW-17S	OU-1 Union Boulevard	63	78	63	83	121	58	219	116	91	180	177	85	33	107	25	59	140
OZMW-17I	OU-1 Union Boulevard	123	183	176	123	142	143	141	157	93	200	125	158	124	121	136	97	206
OZMW-17I2	OU-1 Union Boulevard	73	134	157	160	185	130	257	144	88	212	178	154	118	90	130	101	120
OZMW-17D	OU-1 Union Boulevard	71	80	126	58	122	108	51	74	58	52	123	68	25	56	52	46	87
OZMW-18S	OU-1 Union Boulevard	--	127	--	141	--	--	110	--	--	--	208	--	--	86	--	--	--
OZMW-18I	OU-1 Union Boulevard	--	120	--	133	--	--	88	--	--	--	108	--	--	143	--	--	--
OZMW-18I2	OU-1 Union Boulevard	--	128	--	117	--	--	69	--	--	--	180	--	--	155	--	--	--
OZMW-18D	OU-1 Union Boulevard	--	-10	--	59	--	--	-2	--	--	--	-33	--	--	-31	--	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	-85	--	-66	--	--	93	--	123	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	97	--	155	--	--	60	--	41	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	39	--	108	--	--	190	--	142	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	--	--	--	--	--	-77	--	-15	--	--	-31	--	-57	--

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2012												
		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	--	--	--	6.30	--	--	6.46	--	5.91	--	--	6.09	--
OU2MW-57I	66 North Clinton	--	--	--	6.09	--	--	6.04	--	5.69	--	--	5.92	--
OU2MW-57I2	66 North Clinton	--	--	--	5.43	--	--	6.02	--	5.79	--	--	6	--
OZMW-16S	OU-1 Union Boulevard	6.00	--	--	6.80	5.77	--	--	--	7.03	--	--	--	6.75
OZMW-16I	OU-1 Union Boulevard	6.15	--	--	6.32	5.76	--	--	--	6.84	--	--	--	6.81
OZMW-16I2	OU-1 Union Boulevard	5.34	--	--	6.24	6.45	--	--	--	5.7	--	--	--	6.52
OZMW-16D	OU-1 Union Boulevard	4.55	--	--	4.37	5.39	--	--	--	4.77	--	--	--	5
OZMW-17S	OU-1 Union Boulevard	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	6.50	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	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	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	6.44	--	--	6.90	5.93	--	--	--	7.1	--	--	--	6.68
OZMW-18I	OU-1 Union Boulevard	6.63	--	--	6.39	6.86	--	--	--	6.97	--	--	--	6.95
OZMW-18I2	OU-1 Union Boulevard	5.85	--	--	6.61	6.00	--	--	--	6.51	--	--	--	6.39
OZMW-18D	OU-1 Union Boulevard	5.37	--	--	5.37	5.9	--	--	--	5.94	--	--	--	6.68
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	5.65	--	6.31	--	--	--	--	--	6.28	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	5.35	--	5.80	--	--	--	--	--	5.68	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	5.50	--	5.41	--	--	--	--	--	5.31	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	5.72	--	5.35	--	--	--	--	--	5.36	--
Conductivity (mS/cm)														
OU2MW-57S	66 North Clinton	--	--	--	0.469	--	--	0.368	--	0.326	--	--	0.311	--
OU2MW-57I	66 North Clinton	--	--	--	0.510	--	--	0.356	--	0.300	--	--	0.432	--
OU2MW-57I2	66 North Clinton	--	--	--	0.582	--	--	0.537	--	0.426	--	--	0.412	--
OZMW-16S	OU-1 Union Boulevard	0.394	--	--	0.435	0.427	--	--	--	0.338	--	--	--	0.379
OZMW-16I	OU-1 Union Boulevard	0.763	--	--	0.788	0.659	--	--	--	0.621	--	--	--	0.701
OZMW-16I2	OU-1 Union Boulevard	0.299	--	--	0.487	0.950	--	--	--	0.320	--	--	--	0.505
OZMW-16D	OU-1 Union Boulevard	0.299	--	--	0.280	0.207	--	--	--	0.157	--	--	--	0.216
OZMW-17S	OU-1 Union Boulevard	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	0.700	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	0.496	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	0.269	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	0.602	--	--	0.462	0.518	--	--	--	0.420	--	--	--	0.369
OZMW-18I	OU-1 Union Boulevard	0.674	--	--	0.750	1.20	--	--	--	0.525	--	--	--	0.578
OZMW-18I2	OU-1 Union Boulevard	0.570	--	--	0.430	0.544	--	--	--	0.521	--	--	--	0.520
OZMW-18D	OU-1 Union Boulevard	0.593	--	--	0.745	1.28	--	--	--	0.469	--	--	--	0.511
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	0.424	--	0.377	--	--	0.182	--	--	0.167	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	0.540	--	0.400	--	--	0.456	--	--	0.405	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	0.301	--	0.298	--	--	0.250	--	--	0.376	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	0.422	--	0.465	--	--	0.310	--	--	0.358	--
Dissolved Oxygen (mg/L)														
OU2MW-57S	66 North Clinton	--	--	--	6.3	--	--	0.0	--	0.0	--	--	0.0	--
OU2MW-57I	66 North Clinton	--	--	--	5.8	--	--	0.0	--	0.0	--	--	6.2	--
OU2MW-57I2	66 North Clinton	--	--	--	2.1	--	--	0.0	--	0.0	--	--	0.0	--
OZMW-16S	OU-1 Union Boulevard	25.0	--	--	39.0	22.0	--	--	--	32.0	--	--	--	32.0
OZMW-16I	OU-1 Union Boulevard	34.0	--	--	36.0	25.0	--	--	--	36.0	--	--	--	37.0
OZMW-16I2	OU-1 Union Boulevard	1.6	--	--	0.8	0.0	--	--	--	1.6	--	--	--	3.5
OZMW-16D	OU-1 Union Boulevard	5.0	--	--	1.8	0.0	--	--	--	0.0	--	--	--	0.7
OZMW-17S	OU-1 Union Boulevard	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	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	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	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	30.0	--	--	36.0	23.0	--	--	--	19.2	--	--	--	38.0
OZMW-18I	OU-1 Union Boulevard	17.8	--	--	23.0	18.9	--	--	--	19.5	--	--	--	16.3
OZMW-18I2	OU-1 Union Boulevard	7.2	--	--	11.4	12.3	--	--	--	3.5	--	--	--	3.8
OZMW-18D	OU-1 Union Boulevard	1.4	--	--	3.8	0.0	--	--	--	0.0	--	--	--	0.2
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	29.0	--	23.0	--	--	23.0	--	--	18.6	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	1.9	--	2.5	--	--	0.0	--	--	0.0	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	0.6	--	0.0	--	--	0.1	--	--	0.9	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	7.5	--	3.2	--	--	0.0	--	--	0.0	--
Temperature (degrees Celcius)														
OU2MW-57S	66 North Clinton	--	--	--	12.7	--	--	18.6	--	22.5	--	--	15.2	--
OU2MW-57I	66 North Clinton	--	--	--	13.6	--	--	16.2	--	18.3	--	--	14.6	--

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OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2012												
		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-57I2	66 North Clinton	--	--	--	13.3	--	--	16.3	--	18.0	--	--	13.6	--
OZMW-16S	OU-1 Union Boulevard	14.6	--	--	11.6	13.1	--	--	--	20.5	--	--	--	13.4
OZMW-16I	OU-1 Union Boulevard	14.3	--	--	12.3	13.3	--	--	--	18.5	--	--	--	13.3
OZMW-16I2	OU-1 Union Boulevard	13.5	--	--	12.5	13.9	--	--	--	17.3	--	--	--	13.5
OZMW-16D	OU-1 Union Boulevard	12.9	--	--	11.9	12.6	--	--	--	17.3	--	--	--	12.0
OZMW-17S	OU-1 Union Boulevard	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	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	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	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	15.5	--	--	12.0	13.6	--	--	--	19.1	--	--	--	13.8
OZMW-18I	OU-1 Union Boulevard	14.9	--	--	12.7	14.4	--	--	--	17.5	--	--	--	14.2
OZMW-18I2	OU-1 Union Boulevard	14.1	--	--	13.5	14.0	--	--	--	16.9	--	--	--	13.7
OZMW-18D	OU-1 Union Boulevard	13.6	--	--	12.6	14.5	--	--	--	17.1	--	--	--	12.6
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	13.5	--	20.2	--	--	--	--	--	14.0	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	15.5	--	17.7	--	--	--	--	--	14.3	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	16.2	--	17.7	--	--	--	--	--	11.8	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	15.4	--	20.8	--	--	--	--	--	13.0	--
Oxidation Reduction Potential (mV)														
OU2MW-57S	66 North Clinton	--	--	--	-20	--	--	-45	--	-58	--	--	-21	--
OU2MW-57I	66 North Clinton	--	--	--	167	--	--	173	--	143	--	--	148	--
OU2MW-57I2	66 North Clinton	--	--	--	229	--	--	201	--	164	--	--	149	--
OZMW-16S	OU-1 Union Boulevard	191	--	--	128	260	--	--	--	138	--	--	--	176
OZMW-16I	OU-1 Union Boulevard	181	--	--	258	255	--	--	--	163	--	--	--	185
OZMW-16I2	OU-1 Union Boulevard	30	--	--	-15	-9	--	--	--	22	--	--	--	-44
OZMW-16D	OU-1 Union Boulevard	152	--	--	134	130	--	--	--	100	--	--	--	126
OZMW-17S	OU-1 Union Boulevard	170	138	118	134	169	180	146	94	133	87	104	419	167
OZMW-17I	OU-1 Union Boulevard	152	187	140	99	237	203	155	198	146	137	162	407	139
OZMW-17I2	OU-1 Union Boulevard	122	214	103	104	215	177	125	215	189	163	196	383	245
OZMW-17D	OU-1 Union Boulevard	107	56	78	70	79	45	69	59	58	38	--	90	40
OZMW-18S	OU-1 Union Boulevard	185	--	--	146	250	--	--	--	196	--	--	--	149
OZMW-18I	OU-1 Union Boulevard	245	--	--	135	111	--	--	--	225	--	--	--	145
OZMW-18I2	OU-1 Union Boulevard	66	--	--	154	215	--	--	--	61	--	--	--	108
OZMW-18D	OU-1 Union Boulevard	-5	--	--	-58	-49	--	--	--	-59	--	--	--	-60
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	--	292	--	167	--	--	--	--	--	169	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	--	120	--	170	--	--	--	--	--	68	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	--	98	--	164	--	--	--	--	--	125	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	--	48	--	41	--	--	--	--	--	41	--

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Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2013												Jan-14	Feb-14	Mar-14	Apr-14	May-14
		Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13					
pH (SU)																		
OU2MW-57S	66 North Clinton	--	5.57	--	--	6.19	--	5.87	--	--	--	--	5.82	--	5.06	--	6.31	--
OU2MW-57I	66 North Clinton	--	5.28	--	--	5.89	--	5.70	--	--	--	--	5.49	--	5.21	--	5.91	--
OU2MW-57I2	66 North Clinton	--	5.80	--	--	6.08	--	5.91	--	--	--	--	5.67	--	5.53	--	6.00	--
OZMW-16S	OU-1 Union Boulevard	--	6.71	--	--	6.91	--	6.76	--	--	--	--	6.34	--	6.50	--	--	7.13
OZMW-16I	OU-1 Union Boulevard	--	6.74	--	--	6.98	--	7.04	--	--	--	--	6.55	--	6.73	--	--	7.00
OZMW-16I2	OU-1 Union Boulevard	--	6.04	--	--	5.98	--	6.07	--	--	--	--	6.36	--	6.20	--	--	5.80
OZMW-16D	OU-1 Union Boulevard	--	4.95	--	--	4.98	--	4.96	--	--	--	--	4.53	--	4.75	--	--	5.08
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
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
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
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
OZMW-18S	OU-1 Union Boulevard	--	6.78	--	--	6.75	--	7.16	--	--	--	6.56	--	--	--	7.07	--	--
OZMW-18I	OU-1 Union Boulevard	--	6.98	--	--	6.83	--	7.05	--	--	--	6.76	--	--	--	7.22	--	--
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
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
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	5.61	--	--	6.04	--	5.96	--	--	--	5.81	--	5.20	--	--	--	6.15
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	5.19	--	--	5.63	--	5.30	--	--	--	5.77	--	5.30	--	--	--	5.66
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	5.04	--	--	5.12	--	5.14	--	--	--	4.80	--	4.73	--	--	--	5.51
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	5.45	--	--	5.50	--	5.14	--	--	--	5.14	--	5.01	--	--	--	5.89
Conductivity (mS/cm)																		
OU2MW-57S	66 North Clinton	--	0.600	--	--	0.301	--	0.398	--	--	--	--	0.881	--	0.408	--	0.280	--
OU2MW-57I	66 North Clinton	--	0.843	--	--	0.323	--	0.350	--	--	--	--	0.593	--	0.481	--	0.411	--
OU2MW-57I2	66 North Clinton	--	0.300	--	--	0.406	--	0.458	--	--	--	--	0.697	--	0.435	--	0.438	--
OZMW-16S	OU-1 Union Boulevard	--	0.950	--	--	0.559	--	0.405	--	--	--	--	0.649	--	0.570	--	--	0.576
OZMW-16I	OU-1 Union Boulevard	--	0.820	--	--	0.81	--	0.740	--	--	--	--	1.090	--	0.784	--	--	0.722
OZMW-16I2	OU-1 Union Boulevard	--	0.524	--	--	0.415	--	0.363	--	--	--	--	1.040	--	0.330	--	--	0.330
OZMW-16D	OU-1 Union Boulevard	--	0.270	--	--	0.233	--	0.217	--	--	--	--	0.315	--	0.233	--	--	0.205
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
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
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
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
OZMW-18S	OU-1 Union Boulevard	--	0.928	--	--	0.44	--	0.379	--	--	--	0.691	--	--	--	0.832	--	--
OZMW-18I	OU-1 Union Boulevard	--	0.665	--	--	0.667	--	0.648	--	--	--	1.010	--	--	--	0.584	--	--
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
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
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	0.589	--	--	0.427	--	0.299	--	--	--	0.202	--	0.178	--	--	--	0.245
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	0.808	--	--	0.388	--	0.418	--	--	--	0.805	--	0.532	--	--	--	0.427
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	0.430	--	--	0.535	--	0.497	--	--	--	0.748	--	0.508	--	--	--	0.45
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	0.300	--	--	0.289	--	0.270	--	--	--	0.424	--	0.264	--	--	--	0.20
Dissolved Oxygen (mg/L)																		
OU2MW-57S	66 North Clinton	--	7.1	--	--	6.4	--	3.0	--	--	--	--	3.4	--	7.8	--	1.53	--
OU2MW-57I	66 North Clinton	--	1.9	--	--	0.6	--	1.3	--	--	--	--	2.8	--	1.2	--	1.28	--
OU2MW-57I2	66 North Clinton	--	0.5	--	--	0.3	--	0.5	--	--	--	--	0.3	--	0.5	--	6.60	--
OZMW-16S	OU-1 Union Boulevard	--	27.0	--	--	28.0	--	32.0	--	--	--	--	28.0	--	30.0	--	--	17.0
OZMW-16I	OU-1 Union Boulevard	--	32.0	--	--	46.0	--	29.0	--	--	--	--	40.0	--	35.0	--	--	20.0
OZMW-16I2	OU-1 Union Boulevard	--	2.5	--	--	0.5	--	2.4	--	--	--	--	32.0	--	30.0	--	--	16.6
OZMW-16D	OU-1 Union Boulevard	--	0.6	--	--	0.5	--	0.4	--	--	--	--	0.4	--	0.4	--	--	11.1
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
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
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
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
OZMW-18S	OU-1 Union Boulevard	--	22.0	--	--	29.0	--	31.0	--	--	--	21.0	--	--	--	17.0	--	--
OZMW-18I	OU-1 Union Boulevard	--	15.3	--	--	24.0	--	18.4	--	--	--	10.0	--	--	--	9.0	--	--
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
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
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	36.0	--	--	34.0	--	22.0	--	--	--	25.0	--	22.0	--	--	--	22.00
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	0.6	--	--	0.7	--	3.7	--	--	--	0.7	--	0.5	--	--	--	27.00
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	0.6	--	--	0.6	--	0.7	--	--	--	0.4	--	0.4	--	--	--	1.51
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	1.4	--	--	1.0	--	1.0	--	--	--	0.4	--	0.4	--	--	--	1.20
Temperature (degrees Celcius)																		
OU2MW-57S	66 North Clinton	--	11.0	--	--	14.5	--	20.3	--	--	--	--	16.0	--	10.3	--	11.2	--
OU2MW-57I	66 North Clinton	--	11.7	--	--	15.6	--	16.4	--	--	--	--	15.8	--	11.4	--	13.1	--

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2013																
		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)																		
OU2MW-57I2	66 North Clinton	--	13.2	--	--	14.7	--	16.8	--	--	--	--	14.7	--	11.9	--	13.5	--
OZMW-16S	OU-1 Union Boulevard	--	10.7	--	--	15.8	--	18.9	--	--	--	--	13.9	--	11.2	--	--	11.9
OZMW-16I	OU-1 Union Boulevard	--	12.4	--	--	16.4	--	16.9	--	--	--	--	13.7	--	12.8	--	--	13.1
OZMW-16I2	OU-1 Union Boulevard	--	12.4	--	--	16.8	--	16.0	--	--	--	--	13.1	--	12.9	--	--	13.9
OZMW-16D	OU-1 Union Boulevard	--	11.1	--	--	15.4	--	17.9	--	--	--	--	12.6	--	12.8	--	--	13.9
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
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
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
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
OZMW-18S	OU-1 Union Boulevard	--	11.2	--	--	14.8	--	18.6	--	--	--	16.3	--	--	--	9.2	--	--
OZMW-18I	OU-1 Union Boulevard	--	12.7	--	--	15.7	--	17.5	--	--	--	15.4	--	--	--	11.6	--	--
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
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
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	10.1	--	--	13.2	--	19.6	--	--	--	15.3	--	6.0	--	--	--	12.11
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	12.0	--	--	14.8	--	17.5	--	--	--	14.2	--	12.7	--	--	--	13.6
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	12.4	--	--	14.7	--	17.5	--	--	--	13.7	--	12.0	--	--	--	13.7
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	9.3	--	--	14.2	--	18.4	--	--	--	14.2	--	12.2	--	--	--	13.6
Oxidation Reduction Potential (mV)																		
OU2MW-57S	66 North Clinton	--	1	--	--	9	--	-52	--	--	--	--	-61	--	88	--	-46	--
OU2MW-57I	66 North Clinton	--	117	--	--	172	--	120	--	--	--	--	80	--	110	--	165	--
OU2MW-57I2	66 North Clinton	--	190	--	--	200	--	102	--	--	--	--	89	--	119	--	211	--
OZMW-16S	OU-1 Union Boulevard	--	244	--	--	179	--	48	--	--	--	--	186	--	166	--	--	212
OZMW-16I	OU-1 Union Boulevard	--	248	--	--	166	--	100	--	--	--	--	187	--	171	--	--	190
OZMW-16I2	OU-1 Union Boulevard	--	77	--	--	34	--	-65	--	--	--	--	141	--	182	--	--	188
OZMW-16D	OU-1 Union Boulevard	--	153	--	--	119	--	83	--	--	--	--	92	--	106	--	--	102
OZMW-17S	OU-1 Union Boulevard	142	205	160	--	154	--	18	107	-6	102	120	148	161	77	271	146	195
OZMW-17I	OU-1 Union Boulevard	142	242	107	--	151	--	68	101	90	64	156	142	165	132	242	132	213
OZMW-17I2	OU-1 Union Boulevard	194	192	135	--	170	--	157	148	143	92	211	120	211	159	265	106	202
OZMW-17D	OU-1 Union Boulevard	49	30	63	--	-19	--	24	15	4	83	16	23	10	-1	43	-7	-12
OZMW-18S	OU-1 Union Boulevard	--	188	--	--	158	--	122	--	--	--	128	--	--	--	169	--	--
OZMW-18I	OU-1 Union Boulevard	--	207	--	--	154	--	91	--	--	--	124	--	--	--	139	--	--
OZMW-18I2	OU-1 Union Boulevard	--	84	--	--	80	--	-8	--	--	--	87	159	161	245	170	246	197
OZMW-18D	OU-1 Union Boulevard	--	-28	--	--	-122	--	-62	--	--	--	-74	-11	107	98	121	79	54
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	189	--	--	210	--	117	--	--	--	174	--	234	--	--	--	233
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	194	--	--	95	--	124	--	--	--	75	--	157	--	--	--	209
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	258	--	--	222	--	156	--	--	--	135	--	174	--	--	--	212
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	15	--	--	-17	--	-8	--	--	--	24	--	23	--	--	--	8

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2014								2015						
		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	--	--	5.66	--	5.42	--	--	5.75	--	--	5.72	--	--	5.8	
OU2MW-57I	66 North Clinton	--	--	5.42	--	5.25	--	--	5.66	--	--	5.48	--	--	5.5	
OU2MW-57I2	66 North Clinton	--	--	5.87	--	5.18	--	--	5.65	--	--	5.52	--	--	5.4	
OZMW-16S	OU-1 Union Boulevard	--	--	6.33	--	5.98	--	--	6.56	--	--	6.68	--	--	6.3	
OZMW-16I	OU-1 Union Boulevard	--	--	6.43	--	6.11	--	--	6.54	--	--	6.68	--	--	6.3	
OZMW-16I2	OU-1 Union Boulevard	--	--	5.95	--	5.09	--	--	5.73	--	--	5.74	--	--	5.9	
OZMW-16D	OU-1 Union Boulevard	--	--	4.05	--	4.27	--	--	4.21	--	--	4.77	--	--	4.5	
OZMW-17S	OU-1 Union Boulevard	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	6.49	--	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	5.85	--	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	5.18	--	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	6.88	--	6.45	--	6.54	--	--	6.71	--	--	6.62	--	--	6.6	
OZMW-18I	OU-1 Union Boulevard	6.89	--	7.04	--	6.12	--	--	7.09	--	--	6.96	--	--	6.9	
OZMW-18I2	OU-1 Union Boulevard	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	5.18	--	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.)	--	--	5.85	--	5.49	--	--	5.03	--	--	5.10	--	--	5.0	
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	5.43	--	5.51	--	--	6.02	--	--	5.70	--	--	5.5	
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	4.95	--	4.79	--	--	4.83	--	--	4.83	--	--	4.8	
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	5.28	--	4.83	--	--	5.45	--	--	5.12	--	--	5.0	
Conductivity (mS/cm)																
OU2MW-57S	66 North Clinton	--	--	0.472	--	0.556	--	--	0.366	--	--	0.501	--	--	0.4	
OU2MW-57I	66 North Clinton	--	--	0.335	--	0.966	--	--	0.340	--	--	0.525	--	--	0.4	
OU2MW-57I2	66 North Clinton	--	--	0.491	--	1.320	--	--	0.462	--	--	0.382	--	--	0.4	
OZMW-16S	OU-1 Union Boulevard	--	--	0.441	--	0.421	--	--	0.441	--	--	0.453	--	--	0.4	
OZMW-16I	OU-1 Union Boulevard	--	--	0.689	--	0.688	--	--	0.757	--	--	0.705	--	--	0.7	
OZMW-16I2	OU-1 Union Boulevard	--	--	0.563	--	0.630	--	--	0.469	--	--	0.343	--	--	0.5	
OZMW-16D	OU-1 Union Boulevard	--	--	0.185	--	0.197	--	--	0.228	--	--	0.209	--	--	0.2	
OZMW-17S	OU-1 Union Boulevard	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	0.676	--	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	0.563	--	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	0.238	--	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	0.492	--	0.552	--	0.488	--	--	0.503	--	--	0.533	--	--	0.7	
OZMW-18I	OU-1 Union Boulevard	0.611	--	0.568	--	0.718	--	--	0.666	--	--	0.615	--	--	0.6	
OZMW-18I2	OU-1 Union Boulevard	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	0.612	--	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.)	--	--	0.244	--	0.251	--	--	0.292	--	--	0.200	--	--	0.2	
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	0.116	--	0.291	--	--	0.430	--	--	0.518	--	--	0.3	
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	0.404	--	0.472	--	--	0.474	--	--	0.480	--	--	0.4	
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	0.236	--	0.233	--	--	0.196	--	--	0.17	--	--	0.2	
Dissolved Oxygen (mg/L)																
OU2MW-57S	66 North Clinton	--	--	1.90	--	1.09	--	--	5.15	--	--	9.74	--	--	4.9	
OU2MW-57I	66 North Clinton	--	--	0.70	--	0.74	--	--	0.48	--	--	0.47	--	--	2.4	
OU2MW-57I2	66 North Clinton	--	--	0.60	--	0.45	--	--	1.21	--	--	0.47	--	--	1.1	
OZMW-16S	OU-1 Union Boulevard	--	--	32.63	--	29.36	--	--	45.6	--	--	39.61	--	--	21.7	
OZMW-16I	OU-1 Union Boulevard	--	--	37.90	--	34.00	--	--	50.0	--	--	50.0	--	--	27.6	
OZMW-16I2	OU-1 Union Boulevard	--	--	25.20	--	27.67	--	--	41.3	--	--	39.00	--	--	24.9	
OZMW-16D	OU-1 Union Boulevard	--	--	1.60	--	1.10	--	--	1.0	--	--	0.48	--	--	1.6	
OZMW-17S	OU-1 Union Boulevard	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	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	--	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	0.2	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	18.0	--	26.2	--	27.60	--	--	25.35	--	--	29.04	--	--	21.2	
OZMW-18I	OU-1 Union Boulevard	11.9	--	14.2	--	14.74	--	--	14.05	--	--	15.48	--	--	9.4	
OZMW-18I2	OU-1 Union Boulevard	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	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.)	--	--	34.50	--	40.45	--	--	41.5	--	--	34.9	--	--	23.5	
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	29.97	--	40.40	--	--	50.0	--	--	44.8	--	--	44.7	
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	18.04	--	50.00	--	--	47.9	--	--	12.0	--	--	9.0	
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	0.47	--	1.10	--	--	0.95	--	--	0.4	--	--	1.3	
Temperature (degrees Celcius)																
OU2MW-57S	66 North Clinton	--	--	19.91	--	20.14	--	--	11.37	--	--	10.69	--	--	16.9	
OU2MW-57I	66 North Clinton	--	--	16.18	--	16.15	--	--	12.92	--	--	12.39	--	--	13.7	

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Well ID	Oxygen Injection System	2014							2015						
		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-57I2	66 North Clinton	--	--	17.12	--	15.42	--	--	12.56	--	--	11.88	--	--	15.2
OZMW-16S	OU-1 Union Boulevard	--	--	17.25	--	17.13	--	--	10.75	--	--	11.16	--	--	15.5
OZMW-16I	OU-1 Union Boulevard	--	--	15.83	--	14.18	--	--	11.44	--	--	12.37	--	--	14.2
OZMW-16I2	OU-1 Union Boulevard	--	--	20.00	--	14.93	--	--	11.66	--	--	12.72	--	--	14.9
OZMW-16D	OU-1 Union Boulevard	--	--	19.80	--	14.06	--	--	9.99	--	--	12.80	--	--	15.0
OZMW-17S	OU-1 Union Boulevard	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	13.7	--	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	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	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	14.0	--	17.34	--	17.06	--	--	10.40	--	--	11.07	--	--	16.1
OZMW-18I	OU-1 Union Boulevard	14.5	--	19.70	--	15.15	--	--	11.26	--	--	11.77	--	--	14.7
OZMW-18I2	OU-1 Union Boulevard	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	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.)	--	--	16.90	--	16.33	--	--	7.42	--	--	12.63	--	--	16.5
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	14.60	--	13.25	--	--	9.80	--	--	14.23	--	--	14.3
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	18.79	--	13.38	--	--	8.50	--	--	13.04	--	--	14.8
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	13.64	--	13.78	--	--	9.30	--	--	13.33	--	--	16.3
Oxidation Reduction Potential (mV)															
OU2MW-57S	66 North Clinton	--	--	-16	--	-53	--	--	36	--	--	115	--	--	17.0
OU2MW-57I	66 North Clinton	--	--	159	--	126	--	--	54	--	--	90	--	--	191.0
OU2MW-57I2	66 North Clinton	--	--	139	--	158	--	--	68	--	--	107	--	--	150.0
OZMW-16S	OU-1 Union Boulevard	--	--	278	--	127	--	--	254	--	--	164	--	--	221.0
OZMW-16I	OU-1 Union Boulevard	--	--	271	--	164	--	--	251	--	--	185	--	--	229.0
OZMW-16I2	OU-1 Union Boulevard	--	--	125	--	149	--	--	255	--	--	242	--	--	236.0
OZMW-16D	OU-1 Union Boulevard	--	--	146	--	173	--	--	192	--	--	231	--	--	157.0
OZMW-17S	OU-1 Union Boulevard	180	--	86	177	196	220	182	222	154	119	255	247	363	215
OZMW-17I	OU-1 Union Boulevard	173	--	92	154	71	208	145	235	159	140	256	248	190	212
OZMW-17I2	OU-1 Union Boulevard	152	--	82	132	199	218	108	220	264	222	269	272	272	277
OZMW-17D	OU-1 Union Boulevard	66	--	-29	73	-2	65	50	58	87	91	69	80	43	48
OZMW-18S	OU-1 Union Boulevard	135	--	162	--	185	--	--	-31	--	--	148	--	--	196.0
OZMW-18I	OU-1 Union Boulevard	109	--	75	--	40	--	--	97	--	--	128	--	--	192.0
OZMW-18I2	OU-1 Union Boulevard	176	--	74	173	207	196	204	194	202	263	247	160	184	245
OZMW-18D	OU-1 Union Boulevard	142	--	44	119	53	176	183	192	162	173	182	200	119	116
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	207	--	173	--	--	207	--	--	268	--	--	341.0
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	242	--	203	--	--	219	--	--	250	--	--	385.0
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	271	--	215	--	--	247	--	--	268	--	--	340.0
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	97	--	109	--	--	66	--	--	127	--	--	81.0

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2015					2016											
		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
pH (SU)																		
OU2MW-57S	66 North Clinton	--	--	4.8	--	--	5.56	--	--	--	6.29	--	5.81	--	--	--	6.01	--
OU2MW-57I	66 North Clinton	--	--	5.0	--	--	5.39	--	--	--	6.23	--	5.79	--	--	--	5.96	--
OU2MW-57I2	66 North Clinton	--	--	5.0	--	--	5.39	--	--	--	6.04	--	5.58	--	--	--	5.88	--
OZMW-16S	OU-1 Union Boulevard	--	--	6.1	--	--	4.85	--	--	--	6.37	--	6.94	--	--	--	6.79	--
OZMW-16I	OU-1 Union Boulevard	--	--	5.4	--	--	5.24	--	--	--	6.10	--	6.74	--	--	--	6.57	--
OZMW-16I2	OU-1 Union Boulevard	--	--	5.9	--	--	4.23	--	--	--	4.83	--	5.86	--	--	--	6.32	--
OZMW-16D	OU-1 Union Boulevard	--	--	4.3	--	--	3.27	--	--	--	4.04	--	4.97	--	--	--	4.81	--
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	--
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	--
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	--
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	--
OZMW-18S	OU-1 Union Boulevard	--	--	6.1	--	--	6.76	--	--	--	6.55	--	7.19	--	--	--	7.18	--
OZMW-18I	OU-1 Union Boulevard	--	--	5.5	--	--	7.00	--	--	--	6.77	--	7.35	--	--	--	7.42	--
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	--
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	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	4.2	--	--	3.40	--	--	--	4.89	--	4.81	--	--	--	4.60	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	4.9	--	--	4.44	--	--	--	6.05	--	5.80	--	--	--	5.89	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	4.2	--	--	3.68	--	--	--	5.44	--	5.20	--	--	--	5.14	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	4.2	--	--	3.99	--	--	--	5.79	--	5.49	--	--	--	5.37	--
Conductivity (mS/cm)																		
OU2MW-57S	66 North Clinton	--	--	0.5	--	--	0.333	--	--	--	0.393	--	0.672	--	--	--	0.508	--
OU2MW-57I	66 North Clinton	--	--	0.7	--	--	0.381	--	--	--	0.399	--	0.559	--	--	--	0.335	--
OU2MW-57I2	66 North Clinton	--	--	0.9	--	--	0.375	--	--	--	0.438	--	0.748	--	--	--	0.476	--
OZMW-16S	OU-1 Union Boulevard	--	--	0.3	--	--	0.508	--	--	--	0.543	--	6.410	--	--	--	0.269	--
OZMW-16I	OU-1 Union Boulevard	--	--	0.5	--	--	0.491	--	--	--	0.703	--	0.775	--	--	--	0.665	--
OZMW-16I2	OU-1 Union Boulevard	--	--	0.5	--	--	0.302	--	--	--	0.359	--	0.481	--	--	--	0.688	--
OZMW-16D	OU-1 Union Boulevard	--	--	0.2	--	--	0.164	--	--	--	0.200	--	0.229	--	--	--	0.216	--
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	--
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	--
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	--
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	--
OZMW-18S	OU-1 Union Boulevard	--	--	0.4	--	--	0.489	--	--	--	0.523	--	0.331	--	--	--	0.597	--
OZMW-18I	OU-1 Union Boulevard	--	--	0.5	--	--	0.624	--	--	--	0.698	--	0.499	--	--	--	0.634	--
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	--
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	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	0.1	--	--	0.163	--	--	--	0.240	--	0.102	--	--	--	0.117	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	0.5	--	--	0.307	--	--	--	0.512	--	0.329	--	--	--	0.519	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	0.4	--	--	0.319	--	--	--	0.482	--	0.277	--	--	--	0.408	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	0.2	--	--	0.115	--	--	--	0.171	--	0.117	--	--	--	0.188	--
Dissolved Oxygen (mg/L)																		
OU2MW-57S	66 North Clinton	--	--	7.6	--	--	7.81	--	--	--	6.1	--	5.83	--	--	--	4.85	--
OU2MW-57I	66 North Clinton	--	--	0.4	--	--	1.11	--	--	--	2.7	--	3.75	--	--	--	0.70	--
OU2MW-57I2	66 North Clinton	--	--	0.5	--	--	0.95	--	--	--	2.7	--	4.16	--	--	--	0.54	--
OZMW-16S	OU-1 Union Boulevard	--	--	33.0	--	--	30.14	--	--	--	35.0	--	25.75	--	--	--	29.60	--
OZMW-16I	OU-1 Union Boulevard	--	--	40.4	--	--	34.34	--	--	--	40.0	--	27.56	--	--	--	33.60	--
OZMW-16I2	OU-1 Union Boulevard	--	--	39.3	--	--	25.93	--	--	--	40.0	--	24.29	--	--	--	35.00	--
OZMW-16D	OU-1 Union Boulevard	--	--	15.2	--	--	0.18	--	--	--	0.52	--	3.18	--	--	--	2.70	--
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	--
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	--
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	--
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	--
OZMW-18S	OU-1 Union Boulevard	--	--	27.0	--	--	38.10	--	--	--	32.0	--	25.08	--	--	--	30.95	--
OZMW-18I	OU-1 Union Boulevard	--	--	27.4	--	--	18.50	--	--	--	14.9	--	14.80	--	--	--	18.32	--
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	--
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	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	40.3	--	--	33.88	--	--	--	18.0	--	23.69	--	--	--	23.20	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	48.0	--	--	41.50	--	--	--	20.0	--	25.10	--	--	--	28.80	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	47.8	--	--	36.03	--	--	--	6.9	--	17.11	--	--	--	18.00	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	1.2	--	--	3.34	--	--	--	2.2	--	3.34	--	--	--	2.10	--
Temperature (degrees Celcius)																		
OU2MW-57S	66 North Clinton	--	--	20.6	--	--	14.62	--	--	--	13.70	--	19.71	--	--	--	16.16	--
OU2MW-57I	66 North Clinton	--	--	15.0	--	--	15.17	--	--	--	13.59	--	16.86	--	--	--	14.92	--

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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2015					2016											
		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
pH (SU)																		
OU2MW-57I2	66 North Clinton	--	--	14.9	--	--	14.22	--	--	--	14.10	--	17.02	--	--	--	14.02	--
OZMW-16S	OU-1 Union Boulevard	--	--	15.8	--	--	12.68	--	--	--	11.39	--	15.81	--	--	17.80	--	--
OZMW-16I	OU-1 Union Boulevard	--	--	14.7	--	--	14.28	--	--	--	11.68	--	15.75	--	--	15.58	--	--
OZMW-16I2	OU-1 Union Boulevard	--	--	13.2	--	--	13.91	--	--	--	11.75	--	15.67	--	--	16.11	--	--
OZMW-16D	OU-1 Union Boulevard	--	--	14.6	--	--	14.07	--	--	--	11.45	--	15.72	--	--	14.79	--	--
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	--
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	--
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	--
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	--
OZMW-18S	OU-1 Union Boulevard	--	--	17.2	--	--	11.40	--	--	--	11.28	--	17.81	--	--	--	15.27	--
OZMW-18I	OU-1 Union Boulevard	--	--	15.9	--	--	12.30	--	--	--	11.79	--	15.75	--	--	--	14.45	--
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	--
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	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	15.7	--	--	13.26	--	--	--	13.67	--	20.21	--	--	--	16.18	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	12.6	--	--	14.68	--	--	--	15.09	--	18.64	--	--	--	13.27	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	14.6	--	--	13.61	--	--	--	14.52	--	17.97	--	--	--	13.59	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	14.2	--	--	13.55	--	--	--	14.8	--	17.68	--	--	--	13.82	--
Oxidation Reduction Potential (mV)																		
OU2MW-57S	66 North Clinton	--	--	27.0	--	--	69	--	--	--	-38	--	-45.00	--	--	--	-71	--
OU2MW-57I	66 North Clinton	--	--	170.0	--	--	91	--	--	--	108	--	145.00	--	--	--	101	--
OU2MW-57I2	66 North Clinton	--	--	168.0	--	--	81	--	--	--	227	--	185.00	--	--	--	125	--
OZMW-16S	OU-1 Union Boulevard	--	--	118.0	--	--	286	--	--	--	154	--	136.00	--	--	185	--	--
OZMW-16I	OU-1 Union Boulevard	--	--	89.0	--	--	294	--	--	--	156	--	201.00	--	--	237	--	--
OZMW-16I2	OU-1 Union Boulevard	--	--	145.0	--	--	328	--	--	--	200	--	222.00	--	--	239	--	--
OZMW-16D	OU-1 Union Boulevard	--	--	139.0	--	--	239	--	--	--	143	--	144.00	--	--	113	--	--
OZMW-17S	OU-1 Union Boulevard	255	213	77	275	233	184	276	146	295	172	141	212.00	154.00	--	--	112	--
OZMW-17I	OU-1 Union Boulevard	230	211	204	258	227	185	271	120	255	195	149	240.00	202.00	--	--	134	--
OZMW-17I2	OU-1 Union Boulevard	278	253	224	282	264	215	317	160	338	290	210	266.00	227.00	--	--	174	--
OZMW-17D	OU-1 Union Boulevard	56	109	166	260	286	217	247	168	226	204	187	179.00	242.00	--	--	149	--
OZMW-18S	OU-1 Union Boulevard	--	--	126.0	--	--	176	--	--	--	147	--	185.00	--	--	--	103	--
OZMW-18I	OU-1 Union Boulevard	--	--	195.0	--	--	170	--	--	--	126	--	145.00	--	--	--	97	--
OZMW-18I2	OU-1 Union Boulevard	187	165	168	239	182	175	283	125	261	225	156	165.00	229.00	--	--	120	--
OZMW-18D	OU-1 Union Boulevard	105	108	104	185	175	135	169	176	132	115	64	68.00	68.00	--	--	78	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	--	--	280.0	--	--	443	--	--	--	397	--	340.00	--	--	--	305	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	--	--	184.0	--	--	252	--	--	--	311	--	279.00	--	--	--	225	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	--	--	218.0	--	--	397	--	--	--	300	--	267.00	--	--	--	230	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	--	--	133.0	--	--	119	--	--	--	44	--	12.00	--	--	--	11	--

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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2017											
		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	5.61	--	--	5.99	--	--	6.07	--	--	5.89	--	--
OU2MW-57I	66 North Clinton	5.41	--	--	5.39	--	--	5.88	--	--	5.77	--	--
OU2MW-57I2	66 North Clinton	5.50	--	--	5.71	--	--	5.73	--	--	5.67	--	--
OZMW-16S	OU-1 Union Boulevard	6.87	--	--	6.97	--	--	6.86	--	--	7.73	--	--
OZMW-16I	OU-1 Union Boulevard	6.84	--	--	6.74	--	--	6.85	--	--	7.56	--	--
OZMW-16I2	OU-1 Union Boulevard	6.09	--	--	6.15	--	--	5.88	--	--	6.09	--	--
OZMW-16D	OU-1 Union Boulevard	4.95	--	--	5.06	--	--	5.02	--	--	4.88	--	--
OZMW-17S	OU-1 Union Boulevard	--	7.16	--	7.01	--	--	--	6.67	--	6.55	--	--
OZMW-17I	OU-1 Union Boulevard	--	7.37	--	7.20	--	--	--	6.84	--	6.83	--	--
OZMW-17I2	OU-1 Union Boulevard	--	6.57	--	6.41	--	--	--	6.33	--	6.06	--	--
OZMW-17D	OU-1 Union Boulevard	--	5.02	--	4.99	--	--	--	4.59	--	4.48	--	--
OZMW-18S	OU-1 Union Boulevard	--	7.31	--	7.27	--	--	--	6.97	--	7.02	--	--
OZMW-18I	OU-1 Union Boulevard	--	7.57	--	7.56	--	--	--	7.16	--	7.04	--	--
OZMW-18I2	OU-1 Union Boulevard	6.29	--	--	6.45	--	--	--	5.93	--	6.15	--	--
OZMW-18D	OU-1 Union Boulevard	5.67	--	--	5.79	--	--	--	5.43	--	5.42	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	4.75	--	--	6.24	--	--	5.37	--	--	5.61	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	5.82	--	--	5.89	--	--	5.70	--	--	6.53	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	5.15	--	--	5.20	--	--	5.09	--	--	5.93	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	5.31	--	--	5.52	--	--	5.52	--	--	6.07	--	--
Conductivity (mS/cm)													
OU2MW-57S	66 North Clinton	0.401	--	--	0.442	--	--	0.242	--	--	0.461	--	--
OU2MW-57I	66 North Clinton	0.331	--	--	0.394	--	--	0.385	--	--	0.523	--	--
OU2MW-57I2	66 North Clinton	0.412	--	--	0.521	--	--	0.221	--	--	0.367	--	--
OZMW-16S	OU-1 Union Boulevard	0.355	--	--	0.583	--	--	0.599	--	--	0.357	--	--
OZMW-16I	OU-1 Union Boulevard	0.713	--	--	0.952	--	--	0.480	--	--	0.718	--	--
OZMW-16I2	OU-1 Union Boulevard	0.606	--	--	0.678	--	--	0.645	--	--	0.712	--	--
OZMW-16D	OU-1 Union Boulevard	0.251	--	--	0.326	--	--	0.141	--	--	0.227	--	--
OZMW-17S	OU-1 Union Boulevard	--	0.546	--	0.379	--	--	--	0.619	--	0.429	--	--
OZMW-17I	OU-1 Union Boulevard	--	0.648	--	0.479	--	--	--	0.769	--	0.664	--	--
OZMW-17I2	OU-1 Union Boulevard	--	0.540	--	0.347	--	--	--	0.615	--	0.550	--	--
OZMW-17D	OU-1 Union Boulevard	--	0.414	--	0.304	--	--	--	0.465	--	0.355	--	--
OZMW-18S	OU-1 Union Boulevard	--	0.603	--	0.434	--	--	--	0.559	--	0.640	--	--
OZMW-18I	OU-1 Union Boulevard	--	0.608	--	0.468	--	--	--	0.735	--	0.680	--	--
OZMW-18I2	OU-1 Union Boulevard	0.515	--	--	0.395	--	--	--	1.530	--	0.619	--	--
OZMW-18D	OU-1 Union Boulevard	0.504	--	--	0.333	--	--	--	0.613	--	0.625	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	0.147	--	--	0.399	--	--	0.115	--	--	0.126	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	0.438	--	--	0.751	--	--	0.537	--	--	0.538	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	0.409	--	--	0.673	--	--	0.409	--	--	0.431	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	0.188	--	--	0.236	--	--	0.109	--	--	0.167	--	--
Dissolved Oxygen (mg/L)													
OU2MW-57S	66 North Clinton	3.00	--	--	2.37	--	--	0.90	--	--	4.82	--	--
OU2MW-57I	66 North Clinton	0.68	--	--	3.00	--	--	0.64	--	--	3.34	--	--
OU2MW-57I2	66 North Clinton	0.80	--	--	0.67	--	--	1.06	--	--	1.09	--	--
OZMW-16S	OU-1 Union Boulevard	36.80	--	--	20.31	--	--	29.49	--	--	31.81	--	--
OZMW-16I	OU-1 Union Boulevard	41.50	--	--	28.69	--	--	34.96	--	--	37.55	--	--
OZMW-16I2	OU-1 Union Boulevard	26.40	--	--	33.42	--	--	26.97	--	--	30.31	--	--
OZMW-16D	OU-1 Union Boulevard	2.00	--	--	0.36	--	--	0.38	--	--	0.87	--	--
OZMW-17S	OU-1 Union Boulevard	--	20.00	--	10.00	--	--	--	19.00	--	20	--	--
OZMW-17I	OU-1 Union Boulevard	--	24.00	--	23.00	--	--	--	22.00	--	28	--	--
OZMW-17I2	OU-1 Union Boulevard	--	26.00	--	22.00	--	--	--	23.00	--	28	--	--
OZMW-17D	OU-1 Union Boulevard	--	20.00	--	35.28	--	--	--	24.00	--	27	--	--
OZMW-18S	OU-1 Union Boulevard	--	17.00	--	23.21	--	--	--	25.67	--	27	--	--
OZMW-18I	OU-1 Union Boulevard	--	16.00	--	13.99	--	--	--	10.39	--	19	--	--
OZMW-18I2	OU-1 Union Boulevard	5.00	--	--	21.00	--	--	--	50.00	--	31	--	--
OZMW-18D	OU-1 Union Boulevard	21.00	--	--	14.00	--	--	--	19.01	--	19	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	23.00	--	--	39.00	--	--	31.33	--	--	33.73	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	21.20	--	--	41.72	--	--	33.46	--	--	33.12	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	18.10	--	--	0.68	--	--	1.52	--	--	3.69	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	1.90	--	--	0.37	--	--	0.44	--	--	0.64	--	--
Temperature (degrees Celcius)													
OU2MW-57S	66 North Clinton	11.65	--	--	12.61	--	--	19.68	--	--	20.40	--	--
OU2MW-57I	66 North Clinton	13.74	--	--	13.43	--	--	16.44	--	--	17.29	--	--

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2017											
		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-57I2	66 North Clinton	13.44	--	--	14.86	--	--	16.44	--	--	17.10	--	--
OZMW-16S	OU-1 Union Boulevard	11.20	--	--	15.94	--	--	16.78	--	--	17.74	--	--
OZMW-16I	OU-1 Union Boulevard	12.01	--	--	16.81	--	--	17.06	--	--	16.00	--	--
OZMW-16I2	OU-1 Union Boulevard	11.19	--	--	14.66	--	--	17.91	--	--	15.12	--	--
OZMW-16D	OU-1 Union Boulevard	10.96	--	--	17.35	--	--	18.12	--	--	13.91	--	--
OZMW-17S	OU-1 Union Boulevard	--	11.72	--	12.00	--	--	--	19.42	--	16.97	--	--
OZMW-17I	OU-1 Union Boulevard	--	13.46	--	12.87	--	--	--	16.62	--	15.18	--	--
OZMW-17I2	OU-1 Union Boulevard	--	12.44	--	13.11	--	--	--	17.01	--	14.18	--	--
OZMW-17D	OU-1 Union Boulevard	--	12.15	--	13.08	--	--	--	16.92	--	13.91	--	--
OZMW-18S	OU-1 Union Boulevard	--	13.13	--	13.54	--	--	--	18.14	--	17.23	--	--
OZMW-18I	OU-1 Union Boulevard	--	13.52	--	14.54	--	--	--	17.69	--	15.86	--	--
OZMW-18I2	OU-1 Union Boulevard	14.02	--	--	14.59	--	--	--	15.55	--	15.25	--	--
OZMW-18D	OU-1 Union Boulevard	13.92	--	--	14.88	--	--	--	14.19	--	14.56	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	11.41	--	--	12.85	--	--	19.80	--	--	19.06	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	12.32	--	--	15.24	--	--	17.02	--	--	17.03	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	11.44	--	--	15.24	--	--	17.52	--	--	16.22	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	11.28	--	--	14.34	--	--	18.51	--	--	15.86	--	--
Oxidation Reduction Potential (mV)													
OU2MW-57S	66 North Clinton	-13	--	--	2	--	--	-41	--	--	-33	--	--
OU2MW-57I	66 North Clinton	136	--	--	217	--	--	185	--	--	184	--	--
OU2MW-57I2	66 North Clinton	224	--	--	152	--	--	222	--	--	222	--	--
OZMW-16S	OU-1 Union Boulevard	172	--	--	147	--	--	207	--	--	114	--	--
OZMW-16I	OU-1 Union Boulevard	153	--	--	252	--	--	155	--	--	189	--	--
OZMW-16I2	OU-1 Union Boulevard	160	--	--	141	--	--	233	--	--	191	--	--
OZMW-16D	OU-1 Union Boulevard	115	--	--	133	--	--	131	--	--	93	--	--
OZMW-17S	OU-1 Union Boulevard	--	185	--	157	--	--	--	149	--	177	--	--
OZMW-17I	OU-1 Union Boulevard	--	203	--	166	--	--	--	165	--	150	--	--
OZMW-17I2	OU-1 Union Boulevard	--	243	--	225	--	--	--	197	--	189	--	--
OZMW-17D	OU-1 Union Boulevard	--	129	--	219	--	--	--	183	--	199	--	--
OZMW-18S	OU-1 Union Boulevard	--	94	--	258	--	--	--	148	--	118	--	--
OZMW-18I	OU-1 Union Boulevard	--	88	--	230	--	--	--	143	--	168	--	--
OZMW-18I2	OU-1 Union Boulevard	162	--	--	282	--	--	--	187	--	203	--	--
OZMW-18D	OU-1 Union Boulevard	102	--	--	130	--	--	--	57	--	34	--	--
OU2MW-50S	OU-1 Union Boulevard (Ext.)	274	--	--	289	--	--	258	--	--	294	--	--
OU2MW-50I	OU-1 Union Boulevard (Ext.)	183	--	--	214	--	--	253	--	--	216	--	--
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	190	--	--	190	--	--	196	--	--	209	--	--
OU2MW-50D	OU-1 Union Boulevard (Ext.)	11	--	--	39	--	--	36	--	--	42	--	--

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Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2018								2019				2020			2021	
		Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q3	Q4	Q1	Q2
pH (SU)																		
OU2MW-57S	66 North Clinton	5.76	--	--	5.49	--	--	6.14	6.09	5.85	5.74	6.36	6.49	6.39	5.95	5.99	6.32	5.55
OU2MW-57I	66 North Clinton	5.47	--	--	5.77	--	--	6.16	6.03	6.03	6.46	6.38	5.74	6.07	6.15	5.95	6.27	5.68
OU2MW-57I2	66 North Clinton	5.41	--	--	5.45	--	--	5.52	5.60	5.34	5.68	5.27	5.18	5.52	5.39	5.49	5.61	4.79
OZMW-16S	OU-1 Union Boulevard	6.47	--	--	7.02	--	--	7.03	7.22	6.43	7.41	7.28	7.57	6.90	6.85	6.92	6.98	6.99
OZMW-16I	OU-1 Union Boulevard	6.75	--	--	7.29	--	--	7.04	6.20	6.78	7.25	7.70	7.86	7.41	7.12	7.13	7.13	7.13
OZMW-16I2	OU-1 Union Boulevard	5.60	--	--	6.21	--	--	6.25	6.46	5.3	5.56	5.98	6.44	5.73	5.48	6.35	6.31	6.67
OZMW-16D	OU-1 Union Boulevard	4.61	--	--	4.90	--	--	4.89	5.34	4.22	5.15	5.21	4.98	4.70	4.92	5.10	6.80	6.48
OZMW-17S	OU-1 Union Boulevard	6.36	--	--	--	6.01	--	6.78	6.82	6.29	7.07	7.33	6.93	7.21	6.70	6.78	6.80	6.63
OZMW-17I	OU-1 Union Boulevard	6.73	--	--	--	7.22	--	7.06	6.99	6.68	7.40	7.69	7.01	7.68	7.11	7.09	7.27	7.09
OZMW-17I2	OU-1 Union Boulevard	5.76	--	--	--	6.35	--	6.36	6.65	5.69	6.18	6.30	6.72	6.70	5.83	5.93	6.03	5.64
OZMW-17D	OU-1 Union Boulevard	4.70	--	--	--	4.95	--	5.02	5.20	4.54	5.40	5.51	5.12	5.54	5.16	5.08	5.23	4.99
OZMW-18S	OU-1 Union Boulevard	--	6.66	--	--	7.23	--	7.02	7.14	7.12	7.26	7.70	7.07	7.25	7.05	7.37	7.35	6.80
OZMW-18I	OU-1 Union Boulevard	--	7.02	--	--	7.45	--	7.39	7.42	6.37	7.19	7.92	8.09	7.49	7.35	7.56	7.46	7.04
OZMW-18I2	OU-1 Union Boulevard	--	5.98	--	--	6.36	--	6.66	6.53	5.35	6.25	6.89	6.08	6.21	5.94	6.08	6.59	5.52
OZMW-18D	OU-1 Union Boulevard	--	5.35	--	--	5.51	--	5.21	5.09	5.23	5.73	5.87	6.07	5.53	5.55	5.55	5.87	4.96
OU2MW-50S	OU-1 Union Boulevard (Ext.)	4.93	--	--	5.14	--	--	5.61	5.80	5.67	5.65	5.63	5.94	5.11	5.63	5.55	6.04	6.43
OU2MW-50I	OU-1 Union Boulevard (Ext.)	5.38	--	--	5.99	--	--	5.98	5.78	6.6	6.96	7.12	7.17	6.49	7.12	6.09	6.62	6.93
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	4.82	--	--	5.37	--	--	5.31	5.33	5.49	5.10	5.74	5.15	5.45	5.25	5.05	5.47	5.54
OU2MW-50D	OU-1 Union Boulevard (Ext.)	5.15	--	--	5.32	--	--	5.48	5.73	5.52	5.51	5.98	5.36	5.51	5.49	4.38	5.08	5.74
Conductivity (mS/cm)																		
OU2MW-57S	66 North Clinton	0.411	--	--	0.191	--	--	0.215	0.307	0.214	0.210	0.248	0.450	0.233	0.295	0.237	0.195	0.175
OU2MW-57I	66 North Clinton	0.546	--	--	0.245	--	--	0.408	0.356	0.448	0.490	0.466	0.542	0.508	0.394	0.310	0.378	0.320
OU2MW-57I2	66 North Clinton	0.358	--	--	0.177	--	--	0.161	0.265	0.309	0.398	0.230	0.257	0.365	0.315	0.376	0.335	0.278
OZMW-16S	OU-1 Union Boulevard	0.540	--	--	0.350	--	--	0.233	0.220	0.241	0.339	0.201	0.178	0.277	0.190	0.211	0.002	0.420
OZMW-16I	OU-1 Union Boulevard	0.898	--	--	0.479	--	--	0.486	0.369	0.572	0.824	0.549	0.371	0.623	0.533	0.438	0.004	0.593
OZMW-16I2	OU-1 Union Boulevard	0.725	--	--	0.360	--	--	0.363	0.387	0.303	0.469	0.279	0.337	0.299	0.327	0.403	0.001	0.305
OZMW-16D	OU-1 Union Boulevard	0.253	--	--	0.164	--	--	0.141	0.151	0.198	0.204	0.140	0.157	0.178	0.162	0.085	0.000	0.022
OZMW-17S	OU-1 Union Boulevard	0.813	--	--	--	0.387	--	0.325	0.386	0.444	0.679	0.402	0.355	0.455	0.298	0.333	0.811	0.424
OZMW-17I	OU-1 Union Boulevard	0.865	--	--	--	0.583	--	0.532	0.480	0.555	0.665	0.455	0.390	0.564	0.480	0.503	0.506	0.420
OZMW-17I2	OU-1 Union Boulevard	0.792	--	--	--	0.332	--	0.303	0.437	0.393	0.521	0.368	0.385	0.489	0.345	0.351	0.518	0.286
OZMW-17D	OU-1 Union Boulevard	0.359	--	--	--	0.178	--	0.200	0.220	0.18	0.230	0.198	0.175	0.278	0.265	0.252	0.250	0.193
OZMW-18S	OU-1 Union Boulevard	--	0.237	--	--	0.327	--	0.292	0.371	0.384	0.482	0.309	0.267	0.479	0.343	0.441	0.420	0.361
OZMW-18I	OU-1 Union Boulevard	--	0.754	--	--	0.370	--	0.454	0.467	0.496	0.699	0.502	0.494	0.549	0.463	0.518	0.447	0.380
OZMW-18I2	OU-1 Union Boulevard	--	0.757	--	--	0.359	--	0.369	0.446	0.469	0.567	0.452	0.318	0.492	0.429	0.480	0.389	0.337
OZMW-18D	OU-1 Union Boulevard	--	0.686	--	--	0.327	--	0.283	0.456	0.457	0.484	0.321	0.433	0.498	0.387	0.441	0.348	0.323
OU2MW-50S	OU-1 Union Boulevard (Ext.)	0.207	--	--	0.143	--	--	0.119	0.157	0.14	0.224	0.138	0.097	0.158	0.098	0.141	0.150	0.196
OU2MW-50I	OU-1 Union Boulevard (Ext.)	0.524	--	--	0.342	--	--	0.293	0.395	0.502	0.652	0.519	0.599	0.645	0.194	0.508	0.526	0.568
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	0.582	--	--	0.302	--	--	0.294	0.393	0.234	0.407	0.292	0.257	0.495	0.290	0.388	0.368	0.358
OU2MW-50D	OU-1 Union Boulevard (Ext.)	0.182	--	--	0.101	--	--	0.088	0.149	0.105	0.188	0.133	0.104	0.160	0.111	0.150	0.138	0.127
Dissolved Oxygen (mg/L)																		
OU2MW-57S	66 North Clinton	0.85	--	--	1.97	--	--	0.64	2.55	0	0.00	1.76	4.84	0.00	3.35	2.06	0.35	7.42
OU2MW-57I	66 North Clinton	1.74	--	--	1.45	--	--	0.00	0.00	1.96	0.00	3.82	0.85	3.22	0.64	2.65	0.34	9.75
OU2MW-57I2	66 North Clinton	1.76	--	--	1.61	--	--	1.29	0.00	0	0.00	1.45	0.82	0.58	0.18	1.04	0.00	5.35
OZMW-16S	OU-1 Union Boulevard	22.46	--	--	17.96	--	--	34.14	33.54	35.72	29.11	26.88	40.54	37.82	28.01	25.31	20.82	30.40
OZMW-16I	OU-1 Union Boulevard	24.40	--	--	19.00	--	--	37.62	22.95	47.59	28.18	29.43	50.00	31.23	33.47	31.76	23.25	42.46
OZMW-16I2	OU-1 Union Boulevard	5.57	--	--	10.22	--	--	28.39	30.08	25.98	19.42	17.81	43.97	27.60	31.50	26.60	15.99	12.02
OZMW-16D	OU-1 Union Boulevard	0.67	--	--	0.00	--	--	0.00	0.00	0	0.00	0.00	0.00	0.17	0.04	2.14	8.22	1.42
OZMW-17S	OU-1 Union Boulevard	10.00	--	--	--	16.00	--	26.00	13.00	16.46	21.00	19.00	17.00	28.00	24.00	20.00	24.29	4.00
OZMW-17I	OU-1 Union Boulevard	11.00	--	--	--	20.00	--	26.00	7.00	25.52	25.00	29.00	27.00	26.00	25.00	27.00	17.86	2.00
OZMW-17I2	OU-1 Union Boulevard	16.00	--	--	--	19.00	--	27.00	18.00	25	22.00	27.00	33.00	22.00	26.00	25.00	17.18	10.00
OZMW-17D	OU-1 Union Boulevard	11.00	--	--	--	17.00	--	14.88	31.00	22	23.00	21.00	32.00	21.00	24.00	29.00	19.18	3.00
OZMW-18S	OU-1 Union Boulevard	--	19.21	--	--	19.19	--	15.49	24.00	11	29.87	28.56	21.38	37.33	24.67	24.92	23.81	16.90
OZMW-18I	OU-1 Union Boulevard	--	12.68	--	--	10.45	--	9.55	16.00	16	24.92	11.58	13.89	17.90	14.05	12.71	25.33	9.39
OZMW-18I2	OU-1 Union Boulevard	--	19.00	--	--	27.00	--	9.83	19.00	16	18.00	23.00	19.00	21.00	26.00	19.00	10.00	5.00
OZMW-18D	OU-1 Union Boulevard	--	1.00	--	--	14.00	--	11.43	21.00	20	17.00	16.00	23.00	17.00	20.00	21.00	25.97	4.00
OU2MW-50S	OU-1 Union Boulevard (Ext.)	22.52	--	--	17.70	--	--	18.75	30.15	29.52	35.16	28.85	36.51	45.41	22.08	30.49	39.18	25.55
OU2MW-50I	OU-1 Union Boulevard (Ext.)	36.64	--	--	24.38	--	--	21.51	50.00	42.54	50.00	32.66	46.77	47.86	28.24	38.20	22.00	30.19
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	1.59	--	--	10.53	--	--	9.92	15.90	4.17	0.23	0.00	0.25	24.16	6.75	1.97	13.51	14.20
OU2MW-50D	OU-1 Union Boulevard (Ext.)	0.55	--	--	0.45	--	--	0.00	0.33	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Temperature (degrees Celcius)																		
OU2MW-57S	66 North Clinton	12.28	--	--	13.98	--	--	21.80	17.31	11.54	14.17	20.96	20.07	11.27	20.36	18.71	13.35	12.39
OU2MW-57I	66 North Clinton	14.44	--	--	16.22	--	--	18.04	14.07	11.09	13.56	14.91	16.07	14.71	16.16	16.44	15.24	13.22

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2018								2019				2020			2021	
		Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q3	Q4	Q1	Q2
pH (SU)																		
OU2MW-57I2	66 North Clinton	14.45	--	--	16.42	--	--	20.16	15.25	12.86	14.39	15.70	15.23	13.61	15.44	15.34	14.55	13.76
OZMW-16S	OU-1 Union Boulevard	11.12	--	--	14.85	--	--	19.25	17.64	11.26	11.95	16.64	17.06	11.96	18.14	15.82	11.70	11.99
OZMW-16I	OU-1 Union Boulevard	12.14	--	--	16.27	--	--	18.59	17.11	12.08	13.40	15.90	15.02	12.14	16.79	14.29	12.07	17.76
OZMW-16I2	OU-1 Union Boulevard	12.18	--	--	16.60	--	--	18.69	13.01	11.94	13.75	20.26	14.86	11.28	17.09	13.62	10.37	12.91
OZMW-16D	OU-1 Union Boulevard	11.36	--	--	16.76	--	--	19.11	14.95	11.57	13.95	20.19	14.96	11.81	17.27	13.72	14.28	13.07
OZMW-17S	OU-1 Union Boulevard	11.01	--	--	--	15.61	--	20.20	16.05	16.46	12.48	16.75	18.43	12.59	17.88	16.53	12.99	12.62
OZMW-17I	OU-1 Union Boulevard	12.74	--	--	--	17.25	--	24.67	14.45	12.85	13.72	17.00	15.99	13.75	15.86	15.24	13.96	14.80
OZMW-17I2	OU-1 Union Boulevard	12.10	--	--	--	18.04	--	24.10	13.57	11.39	15.47	17.06	16.11	12.36	15.64	14.26	11.49	14.05
OZMW-17D	OU-1 Union Boulevard	11.15	--	--	--	18.39	--	21.21	13.55	11.53	14.10	18.70	16.08	11.60	15.47	13.68	13.10	13.59
OZMW-18S	OU-1 Union Boulevard	--	11.77	--	--	15.46	--	21.51	16.34	8.23	12.07	17.30	18.52	12.88	18.66	16.06	13.33	12.35
OZMW-18I	OU-1 Union Boulevard	--	12.63	--	--	16.81	--	19.61	14.70	12.35	13.55	16.15	17.05	13.79	16.14	15.43	13.95	13.14
OZMW-18I2	OU-1 Union Boulevard	--	12.52	--	--	17.45	--	19.14	13.77	12.15	13.38	16.22	16.67	11.73	17.83	14.72	12.47	13.74
OZMW-18D	OU-1 Union Boulevard	--	12.17	--	--	17.45	--	21.45	13.05	11.77	13.21	18.68	17.07	12.30	17.52	14.78	13.01	13.85
OU2MW-50S	OU-1 Union Boulevard (Ext.)	14.00	--	--	12.85	--	--	21.43	17.47	12.34	13.79	17.76	18.47	12.08	25.88	14.51	12.31	13.10
OU2MW-50I	OU-1 Union Boulevard (Ext.)	13.11	--	--	15.81	--	--	22.49	13.88	12.33	15.09	17.64	16.48	13.37	23.81	14.72	12.90	14.56
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	11.92	--	--	16.10	--	--	21.41	13.79	13.22	15.38	19.91	16.70	12.28	25.01	13.99	12.71	14.20
OU2MW-50D	OU-1 Union Boulevard (Ext.)	11.93	--	--	15.68	--	--	21.88	14.14	12.97	15.49	17.80	16.72	12.21	25.59	12.44	12.73	13.80
Oxidation Reduction Potential (mV)																		
OU2MW-57S	66 North Clinton	-78	--	--	167	--	--	-4	11	12	12	-17	-70	291	-22	54	-28	73
OU2MW-57I	66 North Clinton	95	--	--	203	--	--	194	210	250	112	164	218	118	133	146	134	140
OU2MW-57I2	66 North Clinton	148	--	--	257	--	--	299	281	178	137	271	307	177	228	264	243	38
OZMW-16S	OU-1 Union Boulevard	-84	--	--	307	--	--	227	214	209	203	243	197	139	287	267	149	208
OZMW-16I	OU-1 Union Boulevard	103	--	--	277	--	--	229	200	225	264	229	201	435	283	268	187	164
OZMW-16I2	OU-1 Union Boulevard	125	--	--	287	--	--	247	275	254	289	252	190	485	276	283	186	207
OZMW-16D	OU-1 Union Boulevard	89	--	--	234	--	--	157	167	166	139	127	99	113	123	197	72	138
OZMW-17S	OU-1 Union Boulevard	83	--	--	--	349	--	148	107	142	216	133	134	133	175	213	177	191
OZMW-17I	OU-1 Union Boulevard	82	--	--	--	288	--	213	208	187	194	241	385	135	304	265	191	208
OZMW-17I2	OU-1 Union Boulevard	150	--	--	--	317	--	277	194	240	327	269	218	440	336	302	239	259
OZMW-17D	OU-1 Union Boulevard	128	--	--	--	280	--	199	182	171	153	108	166	460	146	201	139	130
OZMW-18S	OU-1 Union Boulevard	--	117	--	--	208	--	249	223	212	206	148	266	156	160	175	133	86
OZMW-18I	OU-1 Union Boulevard	--	102	--	--	175	--	115	177	172	160	229	117	147	181	155	145	99
OZMW-18I2	OU-1 Union Boulevard	--	102	--	--	200	--	189	145	152	94	145	181	431	207	136	171	163
OZMW-18D	OU-1 Union Boulevard	--	0	--	--	191	--	142	152	100	55	65	36	449	76	69	60	72
OU2MW-50S	OU-1 Union Boulevard (Ext.)	221	--	--	371	--	--	298	238	275	248	268	229	242	278	171	237	244
OU2MW-50I	OU-1 Union Boulevard (Ext.)	-210	--	--	363	--	--	286	270	224	202	229	215	206	281	222	205	207
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	190	--	--	332	--	--	327	277	229	273	210	265	461	264	247	255	280
OU2MW-50D	OU-1 Union Boulevard (Ext.)	-18	--	--	156	--	--	63	61	67	36	43	39	254	23	73	77	96

Appendix E - Table E-1
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2021		2022		Baseline Average	Historical Average	Q3 2021 - Q2 2022 Average
		Q3	Q4	Q1	Q2			
pH (SU)								
OU2MW-57S	66 North Clinton	6.41	6.47	5.76	5.83	NS	5.90	6.12
OU2MW-57I	66 North Clinton	6.45	6.52	5.62	5.79	NS	5.76	6.10
OU2MW-57I2	66 North Clinton	5.94	5.86	4.89	5.11	NS	5.60	5.45
OZMW-16S	OU-1 Union Boulevard	7.26	6.85	6.31	7.19	6.32	6.68	6.90
OZMW-16I	OU-1 Union Boulevard	7.40	7.35	6.80	7.29	5.95	6.69	7.21
OZMW-16I2	OU-1 Union Boulevard	5.96	5.73	6.85	5.64	5.46	5.99	6.05
OZMW-16D	OU-1 Union Boulevard	6.01	5.88	5.63	5.72	5.08	4.87	5.81
OZMW-17S	OU-1 Union Boulevard	7.02	6.84	6.37	6.52	6.61	6.49	6.69
OZMW-17I	OU-1 Union Boulevard	7.52	7.34	6.72	7.01	6.54	6.72	7.15
OZMW-17I2	OU-1 Union Boulevard	6.01	5.97	5.06	5.20	5.66	5.80	5.56
OZMW-17D	OU-1 Union Boulevard	5.58	5.52	4.77	4.67	5.49	5.13	5.14
OZMW-18S	OU-1 Union Boulevard	7.51	6.98	7.16	7.29	6.08	6.85	7.24
OZMW-18I	OU-1 Union Boulevard	7.79	7.54	7.52	7.47	6.52	7.01	7.58
OZMW-18I2	OU-1 Union Boulevard	6.14	6.12	6.13	6.31	6.61	5.99	6.18
OZMW-18D	OU-1 Union Boulevard	5.86	5.85	5.78	5.55	5.92	5.26	5.76
OU2MW-50S	OU-1 Union Boulevard (Ext.)	6.18	6.73	5.91	5.09	5.87	5.48	5.98
OU2MW-50I	OU-1 Union Boulevard (Ext.)	6.56	6.90	6.51	6.33	5.49	5.91	6.58
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	5.47	6.16	5.40	5.10	4.85	5.08	5.53
OU2MW-50D	OU-1 Union Boulevard (Ext.)	5.65	6.14	5.53	5.01	5.35	5.37	5.58
Conductivity (mS/cm)								
OU2MW-57S	66 North Clinton	0.428	0.414	0.251	0.393	NS	0.396	0.37
OU2MW-57I	66 North Clinton	0.759	0.690	0.365	0.280	NS	0.445	0.52
OU2MW-57I2	66 North Clinton	0.235	0.297	0.266	0.230	NS	0.456	0.26
OZMW-16S	OU-1 Union Boulevard	0.244	0.235	0.283	0.289	0.645	0.537	0.26
OZMW-16I	OU-1 Union Boulevard	0.631	0.359	0.488	0.510	0.656	0.662	0.50
OZMW-16I2	OU-1 Union Boulevard	0.251	0.200	0.491	0.280	0.634	0.482	0.31
OZMW-16D	OU-1 Union Boulevard	0.170	0.162	0.206	0.175	2.190	0.207	0.18
OZMW-17S	OU-1 Union Boulevard	0.410	0.284	0.336	0.342	0.768	0.551	0.34
OZMW-17I	OU-1 Union Boulevard	0.444	0.396	0.468	0.492	0.601	0.639	0.45
OZMW-17I2	OU-1 Union Boulevard	0.403	0.381	0.459	0.419	0.382	0.496	0.42
OZMW-17D	OU-1 Union Boulevard	0.192	0.277	0.198	0.229	0.983	0.329	0.22
OZMW-18S	OU-1 Union Boulevard	0.400	0.326	0.358	0.426	0.641	0.487	0.38
OZMW-18I	OU-1 Union Boulevard	0.597	0.402	0.433	0.559	0.572	0.616	0.50
OZMW-18I2	OU-1 Union Boulevard	0.491	0.359	0.375	0.438	0.654	0.567	0.42
OZMW-18D	OU-1 Union Boulevard	0.374	0.263	0.242	0.260	1.910	0.570	0.28
OU2MW-50S	OU-1 Union Boulevard (Ext.)	0.144	0.160	0.119	0.102	0.240	0.213	0.13
OU2MW-50I	OU-1 Union Boulevard (Ext.)	0.454	0.464	0.587	0.407	0.493	0.483	0.48
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	0.462	0.459	0.458	0.394	0.269	0.405	0.44
OU2MW-50D	OU-1 Union Boulevard (Ext.)	0.139	0.143	0.148	0.112	0.505	0.225	0.14
Dissolved Oxygen (mg/L)								
OU2MW-57S	66 North Clinton	0.00	0.51	4.00	2.00	NS	3.05	1.63
OU2MW-57I	66 North Clinton	2.03	0.00	2.00	2.00	NS	2.22	1.51
OU2MW-57I2	66 North Clinton	0.42	0.00	1.00	2.00	NS	1.15	0.86
OZMW-16S	OU-1 Union Boulevard	36.10	5.15	8.00	15.00	19.3	29.43	16.06
OZMW-16I	OU-1 Union Boulevard	25.75	8.46	7.00	16.00	26.0	33.58	14.30
OZMW-16I2	OU-1 Union Boulevard	23.14	0.00	10.00	18.00	0.7	18.37	12.79
OZMW-16D	OU-1 Union Boulevard	0.00	0.00	0.00	1.00	0.0	1.44	0.25
OZMW-17S	OU-1 Union Boulevard	13.00	4.00	5.00	15.00	12.8	18.98	9.25
OZMW-17I	OU-1 Union Boulevard	20.00	11.00	6.00	17.00	16.1	25.61	13.50
OZMW-17I2	OU-1 Union Boulevard	24.00	11.00	13.00	19.00	3.1	12.36	16.75
OZMW-17D	OU-1 Union Boulevard	21.00	19.00	3.00	17.00	0.1	8.02	15.00
OZMW-18S	OU-1 Union Boulevard	17.11	8.11	12.00	18.00	17.6	24.93	13.81
OZMW-18I	OU-1 Union Boulevard	11.06	13.31	1.00	14.00	3.5	16.49	9.84
OZMW-18I2	OU-1 Union Boulevard	10.00	13.00	12.00	12.00	1.3	18.82	11.75
OZMW-18D	OU-1 Union Boulevard	1.00	2.00	9.00	10.00	0.0	15.21	5.50
OU2MW-50S	OU-1 Union Boulevard (Ext.)	28.12	16.41	22.00	18.00	0.3	27.65	21.13
OU2MW-50I	OU-1 Union Boulevard (Ext.)	32.80	35.55	21.00	7.00	0.2	24.74	24.09
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	12.87	10.82	14.00	4.00	5.1	9.90	10.42
OU2MW-50D	OU-1 Union Boulevard (Ext.)	1.35	1.53	0.00	1.00	0.3	0.97	0.97
Temperature (degrees Celcius)								
OU2MW-57S	66 North Clinton	23.35	22.12	10.37	11.72	NS	16.2	16.89
OU2MW-57I	66 North Clinton	19.21	17.52	12.47	13.40	NS	15.0	15.65

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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2021		2022		Baseline Average	Historical Average	Q3 2021 - Q2 2022 Average
		Q3	Q4	Q1	Q2			
pH (SU)								
OU2MW-57I2	66 North Clinton	23.03	15.71	12.18	13.97	NS	15.1	16.22
OZMW-16S	OU-1 Union Boulevard	17.64	18.22	12.99	12.24	14.8	14.6	15.27
OZMW-16I	OU-1 Union Boulevard	18.30	15.97	13.16	13.23	14.4	14.6	15.17
OZMW-16I2	OU-1 Union Boulevard	15.41	15.36	12.79	12.95	14.0	14.4	14.13
OZMW-16D	OU-1 Union Boulevard	14.70	15.18	9.77	12.84	13.6	14.4	13.12
OZMW-17S	OU-1 Union Boulevard	19.39	18.89	13.45	12.35	15.2	15.1	16.02
OZMW-17I	OU-1 Union Boulevard	18.27	16.29	13.41	13.80	14.8	14.7	15.44
OZMW-17I2	OU-1 Union Boulevard	19.70	15.80	12.67	14.28	14.6	14.3	15.61
OZMW-17D	OU-1 Union Boulevard	18.37	15.43	13.10	12.64	14.2	14.4	14.89
OZMW-18S	OU-1 Union Boulevard	20.33	19.10	12.62	12.29	14.5	14.9	16.09
OZMW-18I	OU-1 Union Boulevard	17.35	16.74	13.87	12.41	14.5	15.0	15.09
OZMW-18I2	OU-1 Union Boulevard	17.03	16.80	13.52	12.67	15.1	14.5	15.01
OZMW-18D	OU-1 Union Boulevard	18.53	16.47	13.09	13.08	14.1	14.5	15.29
OU2MW-50S	OU-1 Union Boulevard (Ext.)	16.98	18.79	11.24	12.04	10.4	15.1	14.76
OU2MW-50I	OU-1 Union Boulevard (Ext.)	16.76	16.38	11.95	13.61	12.4	15.0	14.68
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	15.43	18.59	11.83	13.77	13.1	14.9	14.91
OU2MW-50D	OU-1 Union Boulevard (Ext.)	15.93	16.12	11.85	13.95	12.1	14.7	14.46
Oxidation Reduction Potential (mV)								
OU2MW-57S	66 North Clinton	-10	-33	26	59	NS	-8	10.50
OU2MW-57I	66 North Clinton	185	103	181	143	NS	142	153.00
OU2MW-57I2	66 North Clinton	193	206	172	199	NS	173	192.50
OZMW-16S	OU-1 Union Boulevard	106	72	108	155	106	179	110.25
OZMW-16I	OU-1 Union Boulevard	226	63	140	163	187	204	148.00
OZMW-16I2	OU-1 Union Boulevard	229	125	157	209	80	144	180.00
OZMW-16D	OU-1 Union Boulevard	-9	-50	-24	15	65	134	-17.00
OZMW-17S	OU-1 Union Boulevard	156	54	68	139	33	155	104.25
OZMW-17I	OU-1 Union Boulevard	167	98	113	153	61	176	132.75
OZMW-17I2	OU-1 Union Boulevard	256	185	256	265	107	201	240.50
OZMW-17D	OU-1 Union Boulevard	133	64	140	213	32	101	137.50
OZMW-18S	OU-1 Union Boulevard	145	64	133	201	51	158	135.75
OZMW-18I	OU-1 Union Boulevard	157	104	117	213	-48	141	147.75
OZMW-18I2	OU-1 Union Boulevard	173	60	173	241	-81	172	161.75
OZMW-18D	OU-1 Union Boulevard	70	-27	14	182	-53	79	59.75
OU2MW-50S	OU-1 Union Boulevard (Ext.)	260	156	171	262	-76	231	212.25
OU2MW-50I	OU-1 Union Boulevard (Ext.)	253	181	200	222	126	192	214.00
OU2MW-50I2	OU-1 Union Boulevard (Ext.)	272	130	210	260	74	229	218.00
OU2MW-50D	OU-1 Union Boulevard (Ext.)	61	-16	37	84	-46	47	41.50

Appendix E - Table E-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2004			2005							2006						
		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
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	--
OU2MW-02I	Montauk Highway	--	--	--	--	--	6.12	--	--	--	--	--	6.23	--	--	--	6.22	--
OU2MW-02I2	Montauk Highway	--	--	--	--	--	6.14	--	--	--	--	--	6.33	--	--	--	5.83	--
OU2MW-02D	Montauk Highway	--	--	--	--	--	5.74	--	--	--	--	--	5.69	--	--	--	4.97	--
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	--
OU2MW-02I	Montauk Highway	--	--	--	--	--	0.178	--	--	--	--	--	0.263	--	--	--	0.199	--
OU2MW-02I2	Montauk Highway	--	--	--	--	--	0.122	--	--	--	--	--	0.100	--	--	--	0.067	--
OU2MW-02D	Montauk Highway	--	--	--	--	--	0.037	--	--	--	--	--	0.049	--	--	--	0.036	--
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	--
OU2MW-02I	Montauk Highway	--	--	--	--	--	0.4	--	--	--	--	--	0.0	--	--	--	1.6	--
OU2MW-02I2	Montauk Highway	--	--	--	--	--	0.5	--	--	--	--	--	0.0	--	--	--	1.5	--
OU2MW-02D	Montauk Highway	--	--	--	--	--	0.9	--	--	--	--	--	0.0	--	--	--	1.6	--

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OU-2 Oxygen Injection System
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Well ID	Oxygen Injection System	2004			2005							2006						
		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
Temperature (degrees Celcius)																		
OU2MW-30S	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	9 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	33 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	34 North Clinton	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	Cooper Lane	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	Montauk Highway	--	--	--	--	--	16.7	--	--	--	--	--	11.8	13.5	--	--	16.3	--
OU2MW-02I	Montauk Highway	--	--	--	--	--	18.0	--	--	--	--	--	12.4	--	--	--	16.1	--
OU2MW-02I2	Montauk Highway	--	--	--	--	--	16.0	--	--	--	--	--	11.7	--	--	--	15.2	--
OU2MW-02D	Montauk Highway	--	--	--	--	--	17.2	--	--	--	--	--	11.6	--	--	--	14.4	--
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	--
OU2MW-02I	Montauk Highway	--	--	--	--	--	101	--	--	--	--	--	51	--	--	--	69	--
OU2MW-02I2	Montauk Highway	--	--	--	--	--	-6	--	--	--	--	--	-33	--	--	--	-15	--
OU2MW-02D	Montauk Highway	--	--	--	--	--	69	--	--	--	--	--	26	--	--	--	105	--

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Well ID	2006					2007			
	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07
pH (SU)									
OU2MW-30S	--	--	--	--	--	--	--	--	--
OU2MW-30I	--	--	--	--	--	--	--	--	--
OU2MW-30I2	--	--	--	--	--	--	--	--	--
OU2MW-30I3	--	--	--	--	--	--	--	--	--
OU2MW-30D	--	--	--	--	--	--	--	--	--
OU2MW-30D2	--	--	--	--	--	--	--	--	--
OU2MW-39S	--	--	--	--	--	--	--	--	--
OU2MW-39I	--	--	--	--	--	--	--	--	--
OU2MW-39I2	--	--	--	--	--	--	--	--	--
OU2MW-39D	--	--	--	--	--	--	--	--	--
OU2MW-47S	--	--	--	--	--	--	--	--	--
OU2MW-47I	--	--	--	--	--	--	--	--	--
OU2MW-47I2	--	--	--	--	--	--	--	--	--
OU2MW-47D	--	--	--	--	--	--	--	--	--
OU2MW-19I	--	--	--	--	--	--	--	--	--
OU2MW-19I2	--	--	--	--	--	--	--	--	--
OU2MW-19D	--	--	--	--	--	--	--	--	--
OU2MW-02S	--	6.72	--	7.15	--	--	--	6.26	--
OU2MW-02I	--	6.26	--	6.61	--	--	--	5.48	--
OU2MW-02I2	--	6.11	--	6.43	--	--	--	6.20	--
OU2MW-02D	--	5.27	--	--	--	--	--	5.40	--
Conductivity (mS/cm)									
OU2MW-30S	--	--	--	--	--	--	--	--	--
OU2MW-30I	--	--	--	--	--	--	--	--	--
OU2MW-30I2	--	--	--	--	--	--	--	--	--
OU2MW-30I3	--	--	--	--	--	--	--	--	--
OU2MW-30D	--	--	--	--	--	--	--	--	--
OU2MW-30D2	--	--	--	--	--	--	--	--	--
OU2MW-39S	--	--	--	--	--	--	--	--	--
OU2MW-39I	--	--	--	--	--	--	--	--	--
OU2MW-39I2	--	--	--	--	--	--	--	--	--
OU2MW-39D	--	--	--	--	--	--	--	--	--
OU2MW-47S	--	--	--	--	--	--	--	--	--
OU2MW-47I	--	--	--	--	--	--	--	--	--
OU2MW-47I2	--	--	--	--	--	--	--	--	--
OU2MW-47D	--	--	--	--	--	--	--	--	--
OU2MW-19I	--	--	--	--	--	--	--	--	--
OU2MW-19I2	--	--	--	--	--	--	--	--	--
OU2MW-19D	--	--	--	--	--	--	--	--	--
OU2MW-02S	--	0.406	--	0.444	--	--	--	0.432	--
OU2MW-02I	--	0.201	--	0.230	--	--	--	0.271	--
OU2MW-02I2	--	0.064	--	0.068	--	--	--	0.087	--
OU2MW-02D	--	0.036	--	--	--	--	--	0.050	--
Dissolved Oxygen (mg/L)									
OU2MW-30S	--	--	--	--	--	--	--	--	--
OU2MW-30I	--	--	--	--	--	--	--	--	--
OU2MW-30I2	--	--	--	--	--	--	--	--	--
OU2MW-30I3	--	--	--	--	--	--	--	--	--
OU2MW-30D	--	--	--	--	--	--	--	--	--
OU2MW-30D2	--	--	--	--	--	--	--	--	--
OU2MW-39S	--	--	--	--	--	--	--	--	--
OU2MW-39I	--	--	--	--	--	--	--	--	--
OU2MW-39I2	--	--	--	--	--	--	--	--	--
OU2MW-39D	--	--	--	--	--	--	--	--	--
OU2MW-47S	--	--	--	--	--	--	--	--	--
OU2MW-47I	--	--	--	--	--	--	--	--	--
OU2MW-47I2	--	--	--	--	--	--	--	--	--
OU2MW-47D	--	--	--	--	--	--	--	--	--
OU2MW-19I	--	--	--	--	--	--	--	--	--
OU2MW-19I2	--	--	--	--	--	--	--	--	--
OU2MW-19D	--	--	--	--	--	--	--	--	--
OU2MW-02S	--	0.0	--	0.0	--	--	--	20.0	--
OU2MW-02I	--	0.0	--	0.0	--	--	--	0.0	--
OU2MW-02I2	--	0.0	--	0.0	--	--	--	0.0	--
OU2MW-02D	--	0.0	--	--	--	--	--	0.0	--

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Well ID	2006					2007			
	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07
Temperature (degrees Celcius)									
OU2MW-30S	--	--	--	--	--	--	--	--	--
OU2MW-30I	--	--	--	--	--	--	--	--	--
OU2MW-30I2	--	--	--	--	--	--	--	--	--
OU2MW-30I3	--	--	--	--	--	--	--	--	--
OU2MW-30D	--	--	--	--	--	--	--	--	--
OU2MW-30D2	--	--	--	--	--	--	--	--	--
OU2MW-39S	--	--	--	--	--	--	--	--	--
OU2MW-39I	--	--	--	--	--	--	--	--	--
OU2MW-39I2	--	--	--	--	--	--	--	--	--
OU2MW-39D	--	--	--	--	--	--	--	--	--
OU2MW-47S	--	--	--	--	--	--	--	--	--
OU2MW-47I	--	--	--	--	--	--	--	--	--
OU2MW-47I2	--	--	--	--	--	--	--	--	--
OU2MW-47D	--	--	--	--	--	--	--	--	--
OU2MW-19I	--	--	--	--	--	--	--	--	--
OU2MW-19I2	--	--	--	--	--	--	--	--	--
OU2MW-19D	--	--	--	--	--	--	--	--	--
OU2MW-02S	--	17.8	--	17.2	--	--	--	11.5	--
OU2MW-02I	--	16.6	--	14.0	--	--	--	11.1	--
OU2MW-02I2	--	17.9	--	15.1	--	--	--	13.0	--
OU2MW-02D	--	19.9	--	--	--	--	--	11.2	--
Oxidation Reduction Potential									
OU2MW-30S	--	--	--	--	--	--	--	--	--
OU2MW-30I	--	--	--	--	--	--	--	--	--
OU2MW-30I2	--	--	--	--	--	--	--	--	--
OU2MW-30I3	--	--	--	--	--	--	--	--	--
OU2MW-30D	--	--	--	--	--	--	--	--	--
OU2MW-30D2	--	--	--	--	--	--	--	--	--
OU2MW-39S	--	--	--	--	--	--	--	--	--
OU2MW-39I	--	--	--	--	--	--	--	--	--
OU2MW-39I2	--	--	--	--	--	--	--	--	--
OU2MW-39D	--	--	--	--	--	--	--	--	--
OU2MW-47S	--	--	--	--	--	--	--	--	--
OU2MW-47I	--	--	--	--	--	--	--	--	--
OU2MW-47I2	--	--	--	--	--	--	--	--	--
OU2MW-47D	--	--	--	--	--	--	--	--	--
OU2MW-19I	--	--	--	--	--	--	--	--	--
OU2MW-19I2	--	--	--	--	--	--	--	--	--
OU2MW-19D	--	--	--	--	--	--	--	--	--
OU2MW-02S	--	-145	--	-131	--	--	--	57	--
OU2MW-02I	--	118.2	--	40	--	--	--	52	--
OU2MW-02I2	--	-25	--	-3	--	--	--	-25	--
OU2MW-02D	--	85	--	--	--	--	--	65	--

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Well ID	2007									2008											
	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	
pH (SU)																					
OU2MW-30S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.24	--	--	6.58	
OU2MW-30I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.63	--	--	7.03	
OU2MW-30I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.53	--	--	6.95	
OU2MW-30I3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.09	--	--	6.50	
OU2MW-30D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.00	--	--	6.34	
OU2MW-30D2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.21	--	--	6.49	
OU2MW-39S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-39I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-39I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-39D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-47S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-47I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-47I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-47D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-19I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-19I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-19D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-02S	6.49	--	--	--	--	6.63	--	6.29	--	--	6.40	--	6.32	--	--	--	6.12	--	6.27	--	
OU2MW-02I	6.06	--	--	--	--	6.61	--	6.16	--	--	5.98	--	5.74	--	--	--	6.19	--	6.31	--	
OU2MW-02I2	5.99	--	--	--	--	6.46	--	6.16	--	--	6.01	--	6.30	--	--	--	5.98	--	6.16	--	
OU2MW-02D	5.64	--	--	--	--	5.64	--	5.34	--	--	5.50	--	5.07	--	--	--	5.33	--	5.80	--	
Conductivity (mS/cm)																					
OU2MW-30S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.627	--	--	0.434	
OU2MW-30I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.905	--	--	0.522	
OU2MW-30I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.379	--	--	0.463	
OU2MW-30I3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.904	--	--	0.589	
OU2MW-30D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.343	--	--	0.582	
OU2MW-30D2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.642	--	--	0.482	
OU2MW-39S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-39I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-39I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-39D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-47S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-47I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-47I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-47D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-19I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-19I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-19D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-02S	0.654	--	--	--	--	0.390	--	0.448	--	--	0.453	--	0.467	--	--	--	0.913	--	0.596	--	
OU2MW-02I	0.301	--	--	--	--	0.186	--	0.237	--	--	0.230	--	0.201	--	--	--	0.460	--	0.271	--	
OU2MW-02I2	0.093	--	--	--	--	0.072	--	0.071	--	--	0.080	--	0.064	--	--	--	0.152	--	0.930	--	
OU2MW-02D	0.042	--	--	--	--	0.038	--	0.035	--	--	0.039	--	0.046	--	--	--	0.078	--	0.057	--	
Dissolved Oxygen (mg/L)																					
OU2MW-30S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.0	
OU2MW-30I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.0	
OU2MW-30I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	--	--	0.0	
OU2MW-30I3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.0	
OU2MW-30D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.6	--	--	0.0	
OU2MW-30D2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.0	
OU2MW-39S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-39I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-39I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-39D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-47S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-47I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-47I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-47D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-19I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-19I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-19D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU2MW-02S	0.0	--	--	--	--	0.1	--	10.5	--	--	3.7	--	0.0	--	--	--	4.5	--	3.5	--	
OU2MW-02I	0.0	--	--	--	--	0.0	--	2.1	--	--	1.0	--	0.0	--	--	--	0.0	--	0.0	--	
OU2MW-02I2	0.0	--	--	--	--	0.0	--	0.0	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	
OU2MW-02D	0.0	--	--	--	--	0.0	--	0.0	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	

Appendix E - Table E-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	2007								2008											
	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
Temperature (degrees Celcius)																				
OU2MW-30S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20.6	--	--	13.5
OU2MW-30I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.6	--	--	13.8
OU2MW-30I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.6	--	--	13.8
OU2MW-30I3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.3	--	--	13.1
OU2MW-30D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.3	--	--	13.3
OU2MW-30D2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.5	--	--	13.3
OU2MW-39S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	13.2	--	--	--	21.1	--	11.2	--	--	7.6	--	--	13.5	--	--	--	21.2	--	12.8	--
OU2MW-02I	13.6	--	--	--	19.8	--	11.4	--	--	8.5	--	--	13.6	--	--	--	19.6	--	11.7	--
OU2MW-02I2	12.4	--	--	--	18.8	--	11.6	--	--	9.7	--	--	12.2	--	--	--	15.9	--	12.2	--
OU2MW-02D	12.3	--	--	--	16.6	--	10.7	--	--	9.3	--	--	11.7	--	--	--	15.5	--	11.4	--
Oxidation Reduction Potential																				
OU2MW-30S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-1	--	--	12
OU2MW-30I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-141	--	--	-113
OU2MW-30I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-47	--	--	-64
OU2MW-30I3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	31	--	--	-32
OU2MW-30D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	113	--	--	73
OU2MW-30D2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-101	--	--	-146
OU2MW-39S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	-84	--	--	--	-40	--	65	--	--	75	--	--	-61	--	--	--	-38	--	2	--
OU2MW-02I	59	--	--	--	32	--	73	--	--	22	--	--	-17	--	--	--	-40	--	-34	--
OU2MW-02I2	1	--	--	--	-15	--	18	--	--	-11	--	--	3	--	--	--	-17	--	8	--
OU2MW-02D	98	--	--	--	102	--	112	--	--	78	--	--	99	--	--	--	74	--	63	--

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Bay Shore/Brightwaters Former MGP Site

Well ID	2009													2010						
	Baseline Jan-09	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	Jul-10
pH (SU)																				
OU2MW-30S	--	--	6.01	5.90	6.39	5.97	5.68	6.34	5.99	5.77	5.81	5.81	4.97	6.20	6.30	6.15	5.96	6.12	5.92	5.75
OU2MW-30I	--	--	6.27	6.16	6.30	6.05	5.95	6.12	5.97	6.28	5.88	6.40	4.54	6.19	6.18	6.10	6.01	6.10	5.74	6.07
OU2MW-30I2	--	--	6.15	6.04	6.37	5.80	5.78	6.21	5.90	6.00	5.98	5.91	4.93	6.29	6.25	6.16	6.00	6.06	5.62	6.08
OU2MW-30I3	--	--	5.72	5.72	6.14	6.10	5.01	6.00	5.70	5.56	7.38	5.66	5.09	5.98	6.11	6.06	4.71	5.96	4.91	5.75
OU2MW-30D	--	--	5.64	5.59	6.10	6.04	4.72	5.93	5.63	5.57	7.44	6.14	4.80	5.85	6.01	5.83	4.66	5.61	4.48	5.51
OU2MW-30D2	--	--	5.76	5.67	5.82	5.66	4.85	5.86	5.88	5.52	7.94	6.31	4.53	6.01	5.99	5.74	4.80	5.71	4.63	5.60
OU2MW-39S	--	--	--	5.67	6.03	5.57	5.68	6.09	5.85	5.79	5.55	5.99	5.80	6.07	5.59	5.88	5.70	5.75	4.87	5.58
OU2MW-39I	--	--	--	7.49	6.39	5.71	5.74	5.94	5.83	5.89	5.74	6.16	6.04	6.15	5.70	6.07	5.93	5.55	4.82	5.99
OU2MW-39I2	--	--	--	5.60	4.95	5.81	4.76	4.92	4.78	4.57	4.43	6.08	4.48	4.69	4.17	4.77	4.67	4.57	3.78	4.77
OU2MW-39D	--	--	--	6.97	5.38	4.95	5.11	5.30	5.14	4.97	4.79	6.58	5.16	5.20	4.80	5.18	5.15	4.90	4.29	4.99
OU2MW-47S	6.33	6.09	5.78	5.44	5.90	5.55	5.40	4.34	5.28	5.89	5.86	6.05	5.86	6.00	5.88	5.35	5.68	5.19	5.36	5.74
OU2MW-47I	6.55	6.25	6.18	5.84	6.38	6.41	5.98	4.70	6.02	6.32	6.24	6.03	5.81	6.15	6.21	6.13	6.29	5.80	6.20	6.41
OU2MW-47I2	6.28	6.16	6.16	5.91	6.26	6.09	6.13	4.86	5.97	6.13	6.15	5.85	6.25	6.28	6.25	6.29	6.06	5.85	5.74	6.13
OU2MW-47D	5.55	5.42	5.35	5.19	5.63	5.80	5.67	4.65	5.52	5.45	5.47	5.19	6.01	5.52	5.55	5.57	5.41	5.90	4.87	5.68
OU2MW-19I	--	--	--	--	--	--	--	--	6.48	--	--	8.53	--	6.44	6.31	6.21	5.72	6.28	--	5.60
OU2MW-19I2	--	--	--	--	--	--	--	--	--	5.84	--	6.04	--	5.85	6.00	5.96	5.63	5.52	--	5.41
OU2MW-19D	--	--	--	--	--	--	--	--	5.87	--	--	8.30	--	6.11	6.07	5.96	5.75	5.89	--	5.32
OU2MW-02S	--	--	5.92	--	--	6.35	--	--	--	6.55	--	6.28	--	--	5.80	--	6.19	--	--	--
OU2MW-02I	--	--	6.01	--	--	6.34	--	--	--	6.22	--	7.79	--	--	6.29	--	6.18	--	--	--
OU2MW-02I2	--	--	5.96	--	--	5.87	--	--	--	5.80	--	7.05	--	--	5.34	--	5.81	--	--	--
OU2MW-02D	--	--	5.36	--	--	5.52	--	--	--	5.49	--	5.98	--	--	4.76	--	5.30	--	--	--
Conductivity (mS/cm)																				
OU2MW-30S	--	--	0.393	0.420	0.391	0.412	0.278	0.297	0.322	0.359	0.306	0.281	0.325	0.268	0.241	0.249	0.361	0.271	0.241	0.201
OU2MW-30I	--	--	0.511	0.535	0.596	0.718	0.530	0.633	0.702	0.709	0.619	0.691	0.442	0.730	0.569	0.955	0.771	0.498	0.430	0.365
OU2MW-30I2	--	--	0.431	0.457	0.429	0.538	0.565	0.595	0.710	0.661	0.599	0.569	0.471	0.487	0.698	0.707	0.689	0.371	0.406	0.399
OU2MW-30I3	--	--	0.689	0.730	0.595	0.474	0.616	0.507	0.587	0.609	0.640	0.498	0.558	0.469	0.492	0.470	0.680	0.498	0.432	0.343
OU2MW-30D	--	--	0.638	0.661	0.590	0.477	0.748	0.536	0.609	0.681	0.743	0.656	0.541	0.708	0.453	0.601	0.608	0.395	0.399	0.315
OU2MW-30D2	--	--	0.560	0.607	0.451	0.388	0.525	0.433	0.444	0.432	0.429	0.394	0.317	0.486	0.334	0.332	0.523	0.400	0.397	0.325
OU2MW-39S	--	--	--	0.211	0.242	0.235	0.382	0.387	0.342	0.315	0.339	0.311	0.316	0.366	0.305	0.255	0.218	0.297	0.293	0.225
OU2MW-39I	--	--	--	0.408	0.649	0.491	0.691	0.612	0.692	1.110	0.899	0.616	0.578	0.666	0.590	0.643	0.459	0.542	0.602	0.629
OU2MW-39I2	--	--	--	0.233	0.342	0.351	0.327	0.383	0.573	0.487	0.427	0.419	0.353	0.414	0.447	0.440	0.494	0.538	0.558	0.391
OU2MW-39D	--	--	--	0.133	0.138	0.018	0.429	0.600	0.615	0.827	0.770	0.723	0.545	0.673	0.835	0.910	0.789	0.899	0.706	0.525
OU2MW-47S	0.303	0.350	0.265	0.320	0.256	0.177	0.263	0.268	0.222	0.303	0.327	0.439	0.390	0.414	0.250	0.229	0.203	0.300	0.363	0.413
OU2MW-47I	0.640	0.960	0.662	1.020	0.722	0.502	0.674	0.565	0.359	0.390	0.366	0.455	0.291	0.941	0.758	0.689	0.656	0.820	0.915	0.920
OU2MW-47I2	0.490	0.719	0.446	0.530	0.513	0.462	0.399	0.575	0.547	0.622	0.534	0.494	0.499	0.448	0.611	0.407	0.775	0.709	0.621	0.547
OU2MW-47D	0.341	0.503	0.386	0.434	0.376	0.276	0.279	0.460	0.434	0.621	0.575	0.514	0.420	0.479	0.673	0.450	0.517	0.285	0.322	0.355
OU2MW-19I	--	--	--	--	--	--	--	--	0.708	--	--	0.554	--	0.834	0.705	0.595	0.587	0.940	--	0.660
OU2MW-19I2	--	--	--	--	--	--	--	--	--	0.561	--	0.545	--	0.599	0.445	1.200	0.567	0.497	--	0.481
OU2MW-19D	--	--	--	--	--	--	--	--	1.270	--	--	1.350	--	1.370	1.420	1.200	1.170	1.380	--	1.520
OU2MW-02S	--	--	0.479	--	--	0.412	--	--	--	0.674	--	0.522	--	--	0.602	--	1.350	--	--	--
OU2MW-02I	--	--	0.279	--	--	0.279	--	--	--	0.297	--	0.612	--	--	0.336	--	0.286	--	--	--
OU2MW-02I2	--	--	0.104	--	--	0.070	--	--	--	0.078	--	0.088	--	--	0.103	--	0.110	--	--	--
OU2MW-02D	--	--	0.063	--	--	0.042	--	--	--	0.050	--	0.058	--	--	0.051	--	0.067	--	--	--
Dissolved Oxygen (mg/L)																				
OU2MW-30S	--	--	0.0	0.0	22.0	21.0	13.7	11.6	23.0	28.0	26.0	25.0	0.9	23.0	28.0	28.0	26.0	11.4	27.0	24.0
OU2MW-30I	--	--	0.0	1.0	25.0	18.1	10.6	16.2	27.0	34.0	27.0	8.9	51.0	22.0	37.0	33.0	28.0	14.6	27.0	26.0
OU2MW-30I2	--	--	0.0	2.1	42.0	45.0	23.0	19.8	25.0	29.0	42.0	34.0	44.0	17.0	48.0	44.0	36.0	23.0	28.0	23.0
OU2MW-30I3	--	--	0.0	15.8	37.0	29.0	20.0	20.0	25.0	35.0	36.0	18.7	0.8	52.0	48.0	35.0	34.0	24.0	36.0	27.0
OU2MW-30D	--	--	0.0	2.1	32.0	20.0	27.0	19.5	29.0	40.0	39.0	28.0	35.0	38.0	49.0	43.0	29.0	31.0	31.0	27.0
OU2MW-30D2	--	--	0.0	0.0	29.0	17.6	9.1	3.0	0.0	2.5	14.6	18.0	55.0	30.0	32.0	19.2	9.3	0.0	10.0	22.0
OU2MW-39S	--	--	--	1.8	1.9	14.7	22.0	19.6	24.0	21.0	28.0	31.0	18.2	16.0	37.0	30.0	14.4	18.0	28.0	26.0
OU2MW-39I	--	--	--	7.2	2.7	17.0	20.0	38.0	32.0	19.0	28.0	49.0	32.0	31.0	41.0	43.0	29.0	10.0	25.0	30.0
OU2MW-39I2	--	--	--	0.0	0.0	0.0	7.6	0.0	2.8	0.0	0.0	0.0	1.1	0.0	0.0	0.9	0.0	0.0	0.0	2.0
OU2MW-39D	--	--	--	0.0	0.0	0.0	7.6	0.0	3.0	0.0	0.0	0.0	0.3	0.0	0.0	1.2	0.0	0.0	0.0	0.0
OU2MW-47S	0.0	0.0	9.9	20.0	22.0	18.4	36.0	28.0	32.0	33.0	31.0	33.0	33.0	30.0	33.0	26.0	26.0	12.0	25.0	33.0
OU2MW-47I	0.0	0.0	24.0	20.0	26.0	26.0	31.0	36.0	38.0	43.0	28.0	38.0	40.0	39.0	40.0	28.0	26.0	20.0	30.0	24.0
OU2MW-47I2	0.0	6.8	36.0	20.0	22.0	31.0	32.0	40.0	40.0	46.0	25.0	43.0	35.0	34.0	40.0	30.0	25.0	16.0	29.0	39.0
OU2MW-47D	0.0	11.2	30.0	20.0	23.0	16.6	32.0	27.0	18.6	26.0	23.0	25.0	16.0	26.0	32.0	25.0	24.0	12.0	27.0	28.0
OU2MW-19I	--	--	--	--	--	--	--	--	0.0	--	--	0.0	--	0.0	2.7	6.0	4.2	0.0	--	2.7
OU2MW-19I2	--	--	--	--	--	--	--	--	--	0.0	--	0.1	--	26.0	34.0	2.5	36.0	32.0	--	27.0
OU2MW-19D	--	--	--	--	--	--	--	--	0.0	--	--	0.0	--	0.0	0.0	2.5	9.2	18.0	--	20.0
OU2MW-02S	--	--	12.1	--	--	5.8	--	--	--	0.0	--	4.1	--	--	7.2	--	0.0	--	--	--
OU2MW-02I	--	--	0.0	--	--	5.4	--	--	--	0.0	--	0.7	--	--	0.0	--	1.0	--	--	--
OU2MW-02I2	--	--	0.0	--	--	5.2	--	--	--	0.0	--	0.0	--	--	0.0	--	0.0	--	--	--
OU2MW-02D	--	--	0.0	--	--	5.2	--	--	--	0.0	--	0.0	--	--	0.0	--	1.0	--	--	--

Appendix E - Table E-2
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OU-2 Oxygen Injection System
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Bay Shore/Brightwaters Former MGP Site

Well ID	2009													2010						
	Baseline Jan-09	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	Jul-10
Temperature (degrees Celcius)																				
OU2MW-30S	--	--	10.9	10.3	11.6	14.9	16.2	18.2	19.9	19.6	17.3	16.9	14.5	12.8	11.5	11.0	12.9	14.5	18.8	20.7
OU2MW-30I	--	--	12.6	12.1	13.4	15.3	15.5	16.5	18.3	15.6	15.0	15.5	13.0	12.6	12.6	13.3	14.1	14.5	18.1	19.4
OU2MW-30I2	--	--	13.1	11.7	12.6	16.4	15.4	15.9	18.3	16.1	15.0	15.0	12.6	13.4	13.3	13.2	13.9	14.0	17.9	18.7
OU2MW-30I3	--	--	12.4	12.1	12.2	15.8	14.4	16.9	17.3	18.1	15.7	14.9	14.5	12.8	12.7	13.2	13.7	14.7	17.1	18.3
OU2MW-30D	--	--	12.3	11.9	12.5	15.2	16.0	16.0	17.5	15.6	15.4	15.4	13.5	11.8	12.3	13.0	13.2	14.7	17.3	17.8
OU2MW-30D2	--	--	11.9	11.9	12.8	15.1	14.5	15.5	18.7	15.2	15.2	15.1	13.6	13.0	12.4	12.9	13.6	14.4	17.9	17.8
OU2MW-39S	--	--	--	9.2	8.9	12.9	13.7	15.8	18.5	17.3	15.8	14.8	13.5	11.7	9.5	9.4	10.8	12.0	16.0	16.9
OU2MW-39I	--	--	--	12.9	11.6	12.7	13.1	14.3	16.1	15.2	14.3	14.3	14.1	13.9	11.2	12.6	13.1	12.6	14.9	15.4
OU2MW-39I2	--	--	--	12.0	12.0	13.5	13.9	14.9	15.5	14.8	13.5	14.3	11.2	12.3	10.6	12.7	13.1	14.6	15.4	16.3
OU2MW-39D	--	--	--	11.9	11.2	13.5	13.2	14.8	16.2	14.6	13.4	13.9	11.8	11.9	10.8	12.1	12.7	14.8	14.9	15.5
OU2MW-47S	12.6	10.8	10.5	10.9	12.2	14.4	14.1	17.1	19.0	17.6	17.2	16.3	14.6	11.6	11.2	11.3	12.5	14.1	16.6	19.5
OU2MW-47I	13.8	13.0	12.5	12.3	12.9	13.0	13.6	16.2	17.0	16.0	15.2	15.4	13.5	12.9	12.5	13.7	13.3	13.5	15.3	20.0
OU2MW-47I2	13.1	12.1	12.6	12.9	14.0	14.1	15.8	16.5	16.8	15.4	14.7	14.3	14.2	12.9	13.6	13.9	13.9	14.6	16.0	19.4
OU2MW-47D	13.4	12.6	12.0	12.3	14.4	14.0	14.7	16.1	16.7	15.5	14.8	14.1	12.3	12.9	12.5	12.9	13.6	14.2	16.2	17.6
OU2MW-19I	--	--	--	--	--	--	--	--	19.2	--	--	--	16.2	--	12.5	12.7	12.2	13.0	13.2	--
OU2MW-19I2	--	--	--	--	--	--	--	--	--	15.6	--	--	15.0	--	13.4	13.2	11.7	14.6	14.3	--
OU2MW-19D	--	--	--	--	--	--	--	--	15.7	--	--	--	14.8	--	12.1	12.5	11.7	14.4	14.3	--
OU2MW-02S	--	--	10.9	--	--	18.0	--	--	--	21.6	--	--	13.3	--	--	5.1	--	15.7	--	--
OU2MW-02I	--	--	11.0	--	--	17.9	--	--	--	20.4	--	--	14.3	--	--	11.3	--	18.0	--	--
OU2MW-02I2	--	--	10.2	--	--	20.4	--	--	--	17.2	--	--	14.4	--	--	6.5	--	15.8	--	--
OU2MW-02D	--	--	10.4	--	--	20.0	--	--	--	21.2	--	--	13.1	--	--	8.6	--	16.3	--	--
Oxidation Reduction Potential																				
OU2MW-30S	--	--	22	38	169	324	224	177	355	196	237	213	198	294	220	195	189	176	186	240
OU2MW-30I	--	--	-102	-74	41	251	102	105	214	107	223	-18	365	141	190	183	194	170	175	205
OU2MW-30I2	--	--	-48	-21	160	320	202	197	276	123	222	187	379	312	158	160	184	176	209	239
OU2MW-30I3	--	--	57	77	188	131	243	161	297	132	6	174	169	324	164	187	180	164	184	237
OU2MW-30D	--	--	76	85	191	170	348	202	352	210	6	47	209	185	190	223	201	200	224	200
OU2MW-30D2	--	--	-41	-35	109	147	204	65	82	61	-39	-5	379	114	105	145	104	59	104	101
OU2MW-39S	--	--	--	147	184	226	331	282	258	198	197	278	420	157	207	226	195	216	157	277
OU2MW-39I	--	--	--	17	-20	87	325	306	245	198	209	248	405	166	195	175	184	216	140	199
OU2MW-39I2	--	--	--	128	135	211	170	168	106	208	211	78	288	161	293	210	167	171	181	206
OU2MW-39D	--	--	--	38	60	129	78	87	-58	120	93	-15	113	76	195	79	61	83	101	60
OU2MW-47S	-62	-104	21	84	189	206	340	343	314	206	244	58	256	183	209	268	201	251	220	221
OU2MW-47I	-104	-114	15	44	91	138	330	288	210	171	229	56	356	190	205	229	182	216	195	182
OU2MW-47I2	75	144	134	116	178	199	225	324	306	184	232	305	360	304	172	226	209	206	209	204
OU2MW-47D	79	151	161	120	157	128	156	240	167	100	144	167	263	204	120	144	166	170	194	203
OU2MW-19I	--	--	--	--	--	--	--	--	-71	--	--	-132	--	-95	-109	-39	-61	-103	--	-68
OU2MW-19I2	--	--	--	--	--	--	--	--	--	70	--	38	--	155	255	14	178	192	--	167
OU2MW-19D	--	--	--	--	--	--	--	--	-122	--	--	-113	--	-122	155	14	20	42	--	29
OU2MW-02S	--	--	47	--	--	0	--	--	--	-134	--	33	--	--	91	--	-78	--	--	--
OU2MW-02I	--	--	-35	--	--	-46	--	--	--	-59	--	-46	--	--	-17	--	-71	--	--	--
OU2MW-02I2	--	--	-9	--	--	23	--	--	--	32	--	-6	--	--	45	--	40	--	--	--
OU2MW-02D	--	--	73	--	--	151	--	--	--	74	--	83	--	--	228	--	82	--	--	--

Appendix E - Table E-2
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Bay Shore/Brightwaters Former MGP Site

Well ID	2010					2011											
	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	5.62	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	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	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	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	5.66	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	5.92	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	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	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	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	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	5.37	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	6.49	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	6.21	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	5.77	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	--	--	--	--	7.32	--	6.25	--	6.60	--	--	--	6.27	--	--	--	5.96
OU2MW-19I2	--	--	--	--	5.44	--	4.65	--	5.99	--	--	--	6.31	--	--	--	6.23
OU2MW-19D	--	--	--	--	5.35	--	5.86	--	5.73	--	--	--	5.39	--	--	--	5.26
OU2MW-02S	--	5.64	4.85	--	--	--	6.70	--	5.57	--	--	--	--	5.28	--	--	5.88
OU2MW-02I	--	5.79	5.89	--	--	--	6.25	--	6.19	--	--	--	--	7.00	--	6.12	--
OU2MW-02I2	--	5.83	5.03	--	--	--	5.85	--	5.87	--	--	--	--	6.55	--	5.34	--
OU2MW-02D	--	5.17	4.68	--	--	--	3.12	--	5.34	--	--	--	--	4.84	--	5.60	--
Conductivity (mS/cm)																	
OU2MW-30S	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	0.351	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	0.301	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	0.403	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	0.286	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	0.376	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	0.238	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	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	0.312	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	0.866	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	0.364	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	0.674	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	0.383	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	0.312	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	--	--	--	--	0.340	--	0.571	--	0.755	--	--	--	0.675	--	--	--	0.804
OU2MW-19I2	--	--	--	--	0.241	--	0.443	--	0.357	--	--	--	1.130	--	--	--	0.684
OU2MW-19D	--	--	--	--	0.764	--	0.574	--	0.342	--	--	--	0.435	--	--	--	0.413
OU2MW-02S	--	0.439	0.519	--	--	--	0.537	--	0.381	--	--	--	--	0.658	--	0.688	--
OU2MW-02I	--	0.218	0.279	--	--	--	0.271	--	0.166	--	--	--	--	0.310	--	0.412	--
OU2MW-02I2	--	0.065	0.070	--	--	--	0.084	--	0.056	--	--	--	--	0.177	--	0.095	--
OU2MW-02D	--	0.039	0.045	--	--	--	0.053	--	0.036	--	--	--	--	0.051	--	0.056	--
Dissolved Oxygen (mg/L)																	
OU2MW-30S	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	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	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	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	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	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	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	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	0.9	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	0.0	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	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	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	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	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	--	--	--	--	10.0	--	13.2	--	21.0	--	--	--	29.0	--	--	--	26.0
OU2MW-19I2	--	--	--	--	26.0	--	22.0	--	27.0	--	--	--	33.0	--	--	--	35.0
OU2MW-19D	--	--	--	--	20.0	--	2.0	--	1.7	--	--	--	10.3	--	--	--	17.0
OU2MW-02S	--	14.5	12.6	--	--	--	9.2	--	28.0	--	--	--	--	30.0	--	10.9	--
OU2MW-02I	--	0.0	0.0	--	--	--	9.1	--	3.3	--	--	--	--	0.0	--	4.5	--
OU2MW-02I2	--	0.1	0.0	--	--	--	0.7	--	0.5	--	--	--	--	0.0	--	2.1	--
OU2MW-02D	--	0.2	0.0	--	--	--	1.0	--	0.5	--	--	--	--	2.1	--	3.0	--

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

Well ID	2010					2011											
	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
Temperature (degrees Celcius)																	
OU2MW-30S	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	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	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	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	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	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	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	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	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	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	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	16.5	15.0	15.6	15.0	--	12.1	11.7	12.5	16.7	13.8	13.9	14.5	16.6	15.6	15.1	14.9	14.2
OU2MW-47I2	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	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	--	--	--	--	15.4	--	11.7	--	12.1	--	--	--	16.2	--	--	--	15.5
OU2MW-19I2	--	--	--	--	13.9	--	11.5	--	13.2	--	--	--	16.1	--	--	--	14.3
OU2MW-19D	--	--	--	--	14.0	--	11.8	--	12.9	--	--	--	15.7	--	--	--	13.7
OU2MW-02S	--	28.2	17.7	--	--	--	10.1	--	12.2	--	--	--	--	17.5	--	15.0	--
OU2MW-02I	--	23.0	14.6	--	--	--	13.4	--	12.7	--	--	--	--	17.5	--	13.8	--
OU2MW-02I2	--	24.6	17.5	--	--	--	11.9	--	12.5	--	--	--	--	16.9	--	13.8	--
OU2MW-02D	--	24.3	17.7	--	--	--	11.3	--	13.6	--	--	--	--	17.2	--	13.5	--
Oxidation Reduction Potential																	
OU2MW-30S	209	275	161	196	192	217	224	187	219	158	178	184	189	176	209	260	269
OU2MW-30I	180	249	138	173	236	213	235	206	246	168	194	168	174	160	186	260	247
OU2MW-30I2	183	228	172	240	230	208	246	194	296	166	208	201	187	173	202	266	245
OU2MW-30I3	178	271	172	224	178	208	217	182	229	230	216	184	136	193	193	268	252
OU2MW-30D	206	272	189	246	251	200	236	212	260	206	213	200	143	194	208	280	260
OU2MW-30D2	125	216	54	165	131	175	174	161	180	153	172	180	123	202	178	261	245
OU2MW-39S	202	186	228	236	139	177	225	157	257	197	171	170	140	130	149	140	180
OU2MW-39I	170	158	210	200	87	164	191	105	135	155	133	120	130	140	129	203	175
OU2MW-39I2	197	177	182	194	179	211	246	175	203	182	130	199	166	140	100	117	135
OU2MW-39D	83	99	107	72	100	100	76	30	129	94	50	54	54	86	73	86	108
OU2MW-47S	294	149	284	242	--	266	273	216	284	196	193	215	205	137	213	244	188
OU2MW-47I	233	172	307	230	--	424	261	205	236	171	164	160	183	114	205	222	176
OU2MW-47I2	254	290	295	210	--	223	239	195	256	188	164	220	206	73	218	256	187
OU2MW-47D	166	187	195	200	--	379	262	189	240	183	152	208	188	153	217	241	179
OU2MW-19I	--	--	--	--	-2	--	73	--	95	--	--	--	106	--	--	--	263
OU2MW-19I2	--	--	--	--	236	--	184	--	271	--	--	--	123	--	--	--	279
OU2MW-19D	--	--	--	--	86	--	40	--	114	--	--	--	110	--	--	--	223
OU2MW-02S	--	93	171	--	--	--	163	--	206	--	--	--	--	211	--	169	--
OU2MW-02I	--	-38	-17	--	--	--	-87	--	-55	--	--	--	--	-76	--	-32	--
OU2MW-02I2	--	6	59	--	--	--	-17	--	16	--	--	--	--	-10	--	13	--
OU2MW-02D	--	116	138	--	--	--	54	--	84	--	--	--	--	80	--	114	--

Appendix E - Table E-2
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Bay Shore/Brightwaters Former MGP Site

Well ID	2012												2013							
	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
OU2MW-19I	--	--	6.44	--	--	6.54	--	6.49	--	--	6.66	--	5.79	--	--	6.57	--	--	6.41	--
OU2MW-19I2	--	--	5.95	--	--	6.69	--	6.77	--	--	6.55	--	6.30	--	--	6.11	--	--	6.15	--
OU2MW-19D	--	--	5.13	--	--	5.70	--	5.69	--	--	5.58	--	5.80	--	--	5.64	--	--	5.57	--
OU2MW-02S	--	--	--	--	5.77	--	--	--	5.67	--	5.69	--	--	5.70	--	--	5.81	--	--	--
OU2MW-02I	--	6.71	--	--	7.50	--	--	--	6.46	--	6.32	--	--	5.76	--	--	6.07	--	--	--
OU2MW-02I2	--	6.18	--	--	6.83	--	--	--	6.25	--	6.03	--	--	5.79	--	--	5.80	--	--	--
OU2MW-02D	--	5.54	--	--	6.04	--	--	--	5.71	--	5.60	--	--	4.94	--	--	5.32	--	--	--
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
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
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
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
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
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
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
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
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
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
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
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
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
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
OU2MW-19I	--	--	0.900	--	--	0.807	--	0.910	--	--	0.736	--	0.377	--	--	0.554	--	--	0.843	--
OU2MW-19I2	--	--	0.729	--	--	0.590	--	0.511	--	--	0.470	--	0.384	--	--	0.426	--	--	0.523	--
OU2MW-19D	--	--	0.568	--	--	0.620	--	0.555	--	--	0.606	--	0.214	--	--	0.541	--	--	0.478	--
OU2MW-02S	--	--	--	--	0.747	--	--	--	0.559	--	0.580	--	--	0.443	--	--	0.504	--	--	--
OU2MW-02I	--	0.462	--	--	0.430	--	--	--	0.492	--	0.581	--	--	0.735	--	--	0.731	--	--	--
OU2MW-02I2	--	0.095	--	--	0.118	--	--	--	0.109	--	0.136	--	--	0.133	--	--	0.162	--	--	--
OU2MW-02D	--	0.052	--	--	0.054	--	--	--	0.046	--	0.048	--	--	0.051	--	--	0.056	--	--	--
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
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
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
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
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
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
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
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
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
OU2MW-39D	1.0	1.0	1.0	0.0	2.0	1.0	8.0	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	3.4
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
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
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
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
OU2MW-19I	--	--	24.0	--	--	32.0	--	34.0	--	--	0.0	--	40.0	--	--	21.0	--	--	14.0	--

Appendix E - Table E-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
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Well ID	2012												2013							
	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
OU2MW-19I	--	--	12.4	--	--	16.3	--	18.2	--	--	16.1	--	13.0	--	--	13.2	--	--	17.2	--
OU2MW-19I2	--	--	12.2	--	--	17.8	--	17.4	--	--	14.2	--	13.9	--	--	14.2	--	--	16.9	--
OU2MW-19D	--	--	12.4	--	--	16.0	--	18.4	--	--	14.9	--	13.7	--	--	13.9	--	--	16.1	--
OU2MW-02S	--	--	--	--	18.7	--	--	--	22.7	--	15.2	--	--	12.5	--	--	16.6	--	--	--
OU2MW-02I	--	10.2	--	--	17.9	--	--	--	20.9	--	12.8	--	--	11.0	--	--	16.6	--	--	--
OU2MW-02I2	--	9.1	--	--	18.6	--	--	--	20.6	--	13.7	--	--	10.5	--	--	15.6	--	--	--
OU2MW-02D	--	9.6	--	--	17.6	--	--	--	21.1	--	13.8	--	--	10.0	--	--	15.5	--	--	--
Oxidation Reduction Potential																				
OU2MW-30S	220	--	285	224	229	265	210	236	290	203	224	221	277	309	236	251	239	185	141	139
OU2MW-30I	2	--	261	208	233	261	218	220	285	199	221	245	272	304	228	271	197	168	130	229
OU2MW-30I2	155	--	275	196	211	261	229	221	284	194	121	239	264	177	225	238	183	164	124	99
OU2MW-30I3	218	--	309	226	228	281	235	252	239	233	245	255	290	303	263	252	205	213	168	190
OU2MW-30D	203	--	325	208	222	265	224	266	242	231	248	270	269	304	252	246	174	196	208	270
OU2MW-30D2	215	--	301	217	223	256	216	145	216	216	215	224	284	322	271	269	210	216	204	249
OU2MW-39S	177	187	160	205	230	179	281	258	172	215	219	197	185	212	172	152	190	167	219	123
OU2MW-39I	164	182	120	170	196	159	192	222	155	156	197	181	139	180	155	121	152	114	166	54
OU2MW-39I2	145	--	157	180	186	146	174	125	104	93	60	34	56	68	1	1	28	-24	16	-20
OU2MW-39D	111	103	113	103	105	78	92	54	92	65	105	90	142	120	87	82	83	77	129	91
OU2MW-47S	261	266	203	243	239	223	202	257	--	228	266	425	281	300	263	230	245	184	135	192
OU2MW-47I	231	238	333	237	257	239	192	228	--	229	231	397	258	289	214	--	213	167	133	161
OU2MW-47I2	241	235	168	171	224	232	187	226	--	207	229	388	246	296	226	--	172	170	159	227
OU2MW-47D	240	248	347	252	289	211	202	248	--	228	230	391	254	307	--	--	158	--	131	218
OU2MW-19I	--	--	233	--	--	197	--	263	--	--	200	--	248	--	--	156	--	--	199	--
OU2MW-19I2	--	--	289	--	--	169	--	241	--	--	184	--	141	--	--	221	--	--	189	--
OU2MW-19D	--	--	269	--	--	157	--	140	--	--	170	--	204	--	--	108	--	--	133	--
OU2MW-02S	--	--	--	--	191	--	--	--	224	--	255	--	--	210	--	--	168	--	--	--
OU2MW-02I	--	-74	--	--	-102	--	--	--	-72	--	-60	--	--	12	--	--	15	--	--	--
OU2MW-02I2	--	9	--	--	-20	--	--	--	-50	--	-31	--	--	-20	--	--	-21	--	--	--
OU2MW-02D	--	78	--	--	78	--	--	--	50	--	105	--	--	133	--	--	108	--	--	--

Appendix E - Table E-2
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Well ID	2013				2014		
	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
pH (SU)							
OU2MW-30S	5.97	5.87	5.80	5.58	5.72	5.93	5.90
OU2MW-30I	6.02	5.95	5.88	5.76	5.98	6.14	6.02
OU2MW-30I2	6.04	6.03	5.91	5.60	5.80	5.81	6.00
OU2MW-30I3	5.61	5.51	5.38	5.11	5.24	5.40	5.42
OU2MW-30D	5.63	5.59	5.48	5.22	5.34	5.42	5.45
OU2MW-30D2	5.70	5.94	5.29	4.70	4.91	5.16	5.12
OU2MW-39S	6.12	6.01	5.40	5.75	5.76	5.65	5.85
OU2MW-39I	6.86	6.77	6.31	6.51	6.49	6.58	6.64
OU2MW-39I2	5.98	6.36	6.07	6.21	6.08	5.57	6.34
OU2MW-39D	4.92	5.14	4.70	4.85	4.62	4.31	5.41
OU2MW-47S	5.68	5.68	5.50	5.82	5.48	5.63	5.43
OU2MW-47I	5.99	6.03	5.76	6.16	5.77	5.88	5.52
OU2MW-47I2	6.12	6.11	5.90	6.02	5.63	5.95	5.53
OU2MW-47D	6.04	6.03	5.89	6.17	6.05	6.07	5.75
OU2MW-19I	--	6.30	--	--	6.13	--	--
OU2MW-19I2	--	6.46	--	--	6.09	--	--
OU2MW-19D	--	5.41	--	--	5.01	--	--
OU2MW-02S	6.08	--	5.68	--	--	7.22	--
OU2MW-02I	5.86	--	5.55	--	--	6.16	--
OU2MW-02I2	5.79	--	5.37	--	--	7.14	--
OU2MW-02D	5.41	--	4.85	--	--	4.68	--
Conductivity (mS/cm)							
OU2MW-30S	0.418	0.455	0.570	0.718	0.520	0.495	0.507
OU2MW-30I	0.839	0.944	1.090	0.821	0.546	0.521	0.186
OU2MW-30I2	0.624	0.688	0.879	0.856	0.570	0.564	0.499
OU2MW-30I3	0.420	0.482	0.623	0.602	0.398	0.383	0.328
OU2MW-30D	0.421	0.456	0.590	0.610	0.411	0.426	0.364
OU2MW-30D2	0.883	0.984	1.410	1.430	1.080	1.090	1.080
OU2MW-39S	0.294	0.327	0.530	0.599	0.409	0.318	0.279
OU2MW-39I	0.785	0.785	1.210	1.200	0.866	0.734	0.696
OU2MW-39I2	0.533	0.590	0.811	0.781	0.473	0.521	0.556
OU2MW-39D	0.223	0.233	0.362	0.355	0.240	0.209	0.215
OU2MW-47S	0.447	0.475	0.508	0.452	0.446	0.499	0.360
OU2MW-47I	0.437	0.431	0.447	0.474	0.554	0.685	0.523
OU2MW-47I2	0.387	0.413	0.451	0.446	0.492	0.559	0.439
OU2MW-47D	0.416	0.404	0.360	0.287	0.253	0.279	0.202
OU2MW-19I	--	0.974	--	--	0.841	--	--
OU2MW-19I2	--	0.963	--	--	0.569	--	--
OU2MW-19D	--	0.473	--	--	0.576	--	--
OU2MW-02S	0.613	--	0.829	--	--	0.609	--
OU2MW-02I	0.862	--	1.250	--	--	0.795	--
OU2MW-02I2	0.318	--	0.672	--	--	0.650	--
OU2MW-02D	0.058	--	0.088	--	--	0.060	--
Dissolved Oxygen (mg/L)							
OU2MW-30S	31.0	31.0	32.0	25.0	27.0	30.0	20.0
OU2MW-30I	30.0	45.0	31.0	32.0	37.0	37.0	25.0
OU2MW-30I2	42.0	43.0	35.0	35.0	42.0	37.0	40.0
OU2MW-30I3	30.0	48.0	40.0	39.0	35.0	33.0	19.0
OU2MW-30D	42.0	48.0	31.0	43.0	40.0	40.0	44.0
OU2MW-30D2	1.0	3.0	12.0	13.0	22.0	17.0	12.0
OU2MW-39S	28.0	28.0	15.0	35.0	27.0	10.0	15.0
OU2MW-39I	33.0	35.0	31.0	30.0	43.0	25.0	25.0
OU2MW-39I2	2.0	9.0	12.0	20.0	24.0	18.0	17.0
OU2MW-39D	1.0	5.0	1.0	1.0	0.0	1.0	2.0
OU2MW-47S	23.0	36.0	29.0	34.0	35.0	12.0	25.0
OU2MW-47I	36.0	43.0	37.0	45.0	46.0	42.0	30.0
OU2MW-47I2	35.0	48.0	39.0	39.0	45.0	47.0	31.0
OU2MW-47D	30.0	43.0	41.0	47.0	54.0	47.0	29.0
OU2MW-19I	--	18.2	--	--	25.0	--	--
OU2MW-19I2	--	37.6	--	--	37.0	--	--
OU2MW-19D	--	2.8	--	--	8.6	--	--
OU2MW-02S	25.0	--	30.0	--	--	38.0	--
OU2MW-02I	30.0	--	32.0	--	--	30.0	--
OU2MW-02I2	3.4	--	0.8	--	--	1.0	--
OU2MW-02D	2.9	--	0.3	--	--	0.7	--

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Well ID	2013				2014		
	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
Temperature (degrees Celcius)							
OU2MW-30S	19.9	19.0	18.9	15.0	13.3	11.3	10.4
OU2MW-30I	16.3	16.4	16.1	14.9	14.5	13.3	6.0
OU2MW-30I2	17.2	16.6	16.3	13.7	13.2	13.1	13.5
OU2MW-30I3	19.2	16.8	15.6	14.4	13.9	12.9	12.7
OU2MW-30D	17.6	17.2	15.9	13.5	13.7	12.9	13.2
OU2MW-30D2	17.1	17.3	15.1	14.5	14.4	13.2	12.1
OU2MW-39S	16.6	16.3	13.9	14.5	11.8	8.9	8.2
OU2MW-39I	14.1	15.0	13.7	14.4	12.7	11.6	10.9
OU2MW-39I2	14.9	14.3	13.3	13.3	12.5	11.5	10.6
OU2MW-39D	14.9	14.1	13.2	13.0	12.3	12.1	10.5
OU2MW-47S	18.0	18.9	16.3	14.6	15.0	11.3	9.7
OU2MW-47I	16.4	18.9	15.7	15.1	17.9	13.1	12.6
OU2MW-47I2	16.2	16.5	15.2	14.3	15.4	13.6	12.8
OU2MW-47D	16.1	16.0	15.2	14.3	17.8	13.3	12.8
OU2MW-19I	--	17.5	--	--	13.4	--	--
OU2MW-19I2	--	16.1	--	--	13.4	--	--
OU2MW-19D	--	16.3	--	--	13.0	--	--
OU2MW-02S	19.4	--	14.7	--	--	9.8	--
OU2MW-02I	17.3	--	13.3	--	--	9.6	--
OU2MW-02I2	16.1	--	13.7	--	--	10.2	--
OU2MW-02D	16.7	--	13.3	--	--	9.4	--
Oxidation Reduction Potential							
OU2MW-30S	194	207	224	249	273	253	257
OU2MW-30I	198	234	245	252	268	239	118
OU2MW-30I2	215	236	237	224	252	222	186
OU2MW-30I3	222	261	271	282	306	289	283
OU2MW-30D	240	253	247	261	285	260	244
OU2MW-30D2	167	191	240	260	304	276	277
OU2MW-39S	154	202	232	176	183	205	231
OU2MW-39I	86	166	213	163	151	195	184
OU2MW-39I2	-33	-22	145	157	101	151	116
OU2MW-39D	68	90	86	82	142	55	105
OU2MW-47S	195	242	232	230	223	253	130
OU2MW-47I	185	224	227	223	213	237	171
OU2MW-47I2	191	235	217	226	220	220	193
OU2MW-47D	192	237	210	240	215	233	194
OU2MW-19I	--	161	--	--	227	--	--
OU2MW-19I2	--	155	--	--	231	--	--
OU2MW-19D	--	120	--	--	187	--	--
OU2MW-02S	189	--	230	--	--	158	--
OU2MW-02I	160	--	210	--	--	203	--
OU2MW-02I2	-17	--	-32	--	--	-100	--
OU2MW-02D	71	--	71	--	--	137	--

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Well ID	2014										2015										
	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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
OU2MW-19I	--	6.70	--	--	--	6.57	5.63	--	--	5.80	--	--	--	5.99	--	6.02	--	--	5.24	--	
OU2MW-19I2	--	6.32	--	--	--	6.17	5.77	--	--	6.03	--	--	--	5.79	--	6.14	--	--	6.00	--	
OU2MW-19D	--	5.46	--	--	--	5.16	4.72	--	--	4.75	--	--	--	4.88	--	5.27	--	--	4.59	--	
OU2MW-02S	--	6.06	--	--	--	5.72	5.64	--	--	--	--	5.83	--	--	5.79	--	5.91	--	--	5.17	
OU2MW-02I	--	5.97	--	--	--	5.66	5.29	--	--	--	--	5.47	--	--	5.56	--	5.37	--	--	5.05	
OU2MW-02I2	--	5.81	--	--	--	5.64	5.31	--	--	--	--	5.48	--	--	5.50	--	5.21	--	--	5.45	
OU2MW-02D	--	5.47	--	--	--	5.17	4.83	--	--	--	--	4.76	--	--	5.06	--	4.74	--	--	4.96	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
OU2MW-19I	--	0.602	--	--	--	1.25	1.55	--	--	1.260	--	--	--	0.677	--	0.85	--	--	0.794	--	
OU2MW-19I2	--	0.497	--	--	--	1.16	1.28	--	--	0.565	--	--	--	0.572	--	0.93	--	--	1.320	--	
OU2MW-19D	--	0.614	--	--	--	0.699	0.755	--	--	0.753	--	--	--	0.724	--	0.64	--	--	0.597	--	
OU2MW-02S	--	0.554	--	--	--	0.494	0.431	--	--	--	--	0.524	--	--	0.461	--	0.425	--	--	0.365	
OU2MW-02I	--	0.638	--	--	--	0.648	0.726	--	--	--	--	0.748	--	--	0.595	--	0.343	--	--	0.397	
OU2MW-02I2	--	0.563	--	--	--	0.655	0.810	--	--	--	--	0.758	--	--	0.443	--	0.401	--	--	0.979	
OU2MW-02D	--	0.053	--	--	--	0.052	0.053	--	--	--	--	0.060	--	--	0.052	--	0.038	--	--	0.054	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
OU2MW-47D	39.0	42.0	22.0	26.0	30.0	29.0	26.0														

Appendix E - Table E-2
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Bay Shore/Brightwaters Former MGP Site

Well ID	2014										2015										
	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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	--	
OU2MW-19I	--	12.9	--	--	--	15.94	15.49	--	--	12.06	--	--	--	12.63	--	16.16	--	--	16.37	--	
OU2MW-19I2	--	14.2	--	--	--	15.31	13.96	--	--	11.35	--	--	--	13.66	--	16.08	--	--	13.82	--	
OU2MW-19D	--	14.2	--	--	--	15.56	13.54	--	--	11.12	--	--	--	13.87	--	15.42	--	--	14.82	--	
OU2MW-02S	--	15.1	--	--	--	16.63	14.03	--	--	--	--	9.04	--	--	--	17.38	--	18.38	--	19.21	
OU2MW-02I	--	15.9	--	--	--	15.33	13.62	--	--	--	--	8.25	--	--	19.11	--	19.90	--	--	14.53	
OU2MW-02I2	--	15.7	--	--	--	14.84	13.29	--	--	--	--	8.85	--	--	18.62	--	18.30	--	--	13.39	
OU2MW-02D	--	15.9	--	--	--	14.50	13.17	--	--	--	--	7.49	--	--	18.23	--	17.80	--	--	12.88	
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	
OU2MW-30I	198	235	282	270	231	147	258	260	267	235	259	246	245	194	219	185	219	215	228	268	
OU2MW-30I2	217	252	227	283	231	212	270	271	280	234	273	256	250	201	227	191	227	228	227	268	
OU2MW-30I3	271	317	306	327	269	292	299	311	319	326	301	334	291	269	339	235	263	272	247	294	
OU2MW-30D	250	276	238	312	259	192	293	296	297	318	291	241	283	242	331	211	248	231	232	297	
OU2MW-30D2	270	301	269	319	244	266	281	288	300	311	282	271	275	252	338	235	251	254	255	288	
OU2MW-39S	183	182	219	209	228	166	163	219	237	208	261	216	259	260	261	245	260	262	160	295	
OU2MW-39I	108	169	167	193	189	145	163	173	190	182	157	212	229	233	216	187	202	205	99	260	
OU2MW-39I2	87	95	90	157	203	123	196	220	230	212	217	107	217	239	207	208	207	204	223	244	
OU2MW-39D	27	60	76	110	141	131	140	133	149	131	162	141	142	165	133	138	123	140	171	181	
OU2MW-47S	230	212	241	188	186	174	177	191	228	185	209	271	285	252	122	301	300	212	252	208	
OU2MW-47I	236	213	214	169	265	204	163	187	217	175	196	248	271	233	178	321	319	187	250	196	
OU2MW-47I2	246	195	243	180	179	205	170	180	218	182	215	261	287	231	152	330	281	205	170	203	
OU2MW-47D	249	197	155	163	177	219	167	182	202	181	208	239	271	224	157	326	328	189	170	199	
OU2MW-19I	--	177	--	--	--	225	119	--	--	262	--	--	--	181	--	228.00	--	--	185	--	
OU2MW-19I2	--	178	--	--	--	202	106	--	--	274	--	--	--	211	--	201.00	--	--	140	--	
OU2MW-19D	--	170	--	--	--	163	94	--	--	135	--	--	--	175	--	62.00	--	--	175	--	
OU2MW-02S	--	190	--	--	--	152	218	--	--	--	--	207	--	--	191	--	218	--	--	203	
OU2MW-02I	--	157	--	--	--	146	178	--	--	--	--	234	--	--	226	--	196	--	--	235	
OU2MW-02I2	--	-99	--	--	--	-49	-123	--	--	--	--	58	--	--	-21	--	-78	--	--	-107	
OU2MW-02D	--	54	--	--	--	99	132	--	--	--	--	153	--	--	142	--	67	--	--	91	

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Bay Shore/Brightwaters Former MGP Site

Well ID	2016													2017						
	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	July-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
pH (SU)																				
OU2MW-30S	--	5.60	3.68	5.37	5.58	5.78	6.16	6.31	5.94	--	--	6.36	--	--	6.36	--	6.02	--	--	--
OU2MW-30I	--	5.72	4.27	5.57	5.74	6.02	6.37	6.49	6.14	--	--	6.31	--	--	6.28	--	6.15	--	--	--
OU2MW-30I2	--	5.81	4.34	5.58	5.70	5.96	6.29	6.47	6.26	--	--	6.45	--	--	6.56	--	6.26	--	--	--
OU2MW-30I3	--	5.01	3.53	4.88	5.10	5.15	5.58	5.79	5.35	--	--	5.65	--	--	5.64	--	5.41	--	--	--
OU2MW-30D	--	--	3.59	4.98	5.18	5.17	5.53	5.70	5.35	--	--	5.56	--	--	5.62	--	5.27	--	--	--
OU2MW-30D2	--	--	3.64	5.23	5.51	5.38	5.73	5.94	5.63	--	--	6.00	--	--	5.74	--	5.40	--	--	--
OU2MW-39S	4.68	5.77	5.93	5.42	5.48	2.49	5.81	6.02	5.92	--	--	6.08	--	--	6.17	--	--	--	6.18	--
OU2MW-39I	5.18	6.56	6.69	6.33	6.39	3.93	6.74	6.82	6.73	--	--	6.82	--	--	6.92	--	--	--	6.94	--
OU2MW-39I2	5.14	6.12	6.18	5.76	5.71	3.34	5.92	6.13	6.13	--	--	6.27	--	--	6.37	--	--	--	6.49	--
OU2MW-39D	4.39	4.71	4.75	4.39	4.39	2.14	4.97	5.09	5.99	--	--	4.93	--	--	5.25	--	--	--	5.25	--
OU2MW-47S	5.46	5.45	5.05	5.19	5.18	5.37	5.86	5.30	5.40	--	--	5.91	--	--	6.21	--	5.65	--	--	--
OU2MW-47I	5.75	5.67	5.22	5.37	5.31	5.25	6.02	5.61	5.64	--	--	5.85	--	--	6.43	--	5.82	--	--	--
OU2MW-47I2	5.67	5.63	5.24	5.38	5.31	5.52	6.02	5.47	5.52	--	--	6.26	--	--	6.49	--	5.76	--	--	--
OU2MW-47D	5.59	5.49	5.08	5.37	5.23	5.28	5.98	5.44	5.47	--	--	5.78	--	--	6.25	--	5.57	--	--	--
OU2MW-19I	--	--	--	5.97	--	6.15	--	6.28	--	--	--	--	6.45	6.66	--	--	--	6.42	--	--
OU2MW-19I2	--	--	--	6.03	--	5.91	--	6.39	--	--	--	--	6.74	6.88	--	--	--	6.65	--	--
OU2MW-19D	--	--	--	4.74	--	4.76	--	5.38	--	--	--	--	5.39	5.56	--	--	--	5.27	--	--
OU2MW-02S	--	--	--	5.57	--	5.33	--	6.04	--	--	--	--	6.09	6.09	--	--	--	6.16	--	--
OU2MW-02I	--	--	--	5.26	--	4.75	--	5.66	--	--	--	--	5.80	5.91	--	--	--	5.96	--	--
OU2MW-02I2	--	--	--	5.24	--	5.39	--	5.57	--	--	--	--	5.81	5.48	--	--	--	6.19	--	--
OU2MW-02D	--	--	--	4.64	--	4.54	--	5.44	--	--	--	--	5.46	5.85	--	--	--	5.76	--	--
Conductivity (mS/cm)																				
OU2MW-30S	--	0.550	0.407	0.519	0.472	0.481	0.321	0.334	0.330	--	--	0.501	--	--	0.630	--	0.788	--	--	--
OU2MW-30I	--	0.504	0.386	0.573	0.511	0.541	0.483	0.551	0.522	--	--	0.510	--	--	0.742	--	0.997	--	--	--
OU2MW-30I2	--	0.516	0.390	0.522	0.448	0.475	0.557	0.780	0.763	--	--	0.568	--	--	0.559	--	1.110	--	--	--
OU2MW-30I3	--	0.428	0.379	0.585	0.571	0.541	0.469	0.513	0.438	--	--	0.540	--	--	0.678	--	0.891	--	--	--
OU2MW-30D	--	--	0.671	0.485	0.435	0.470	0.400	0.461	0.430	--	--	0.490	--	--	0.580	--	0.740	--	--	--
OU2MW-30D2	--	--	0.311	1.040	0.985	0.980	0.889	1.030	0.965	--	--	1.020	--	--	0.922	--	1.10	--	--	--
OU2MW-39S	0.487	0.374	0.311	0.338	0.297	0.244	0.287	0.365	0.454	--	--	0.560	--	--	0.508	--	--	--	0.291	--
OU2MW-39I	0.683	0.629	0.585	0.628	0.594	0.485	0.589	0.740	0.770	--	--	0.738	--	--	0.799	--	--	--	0.627	--
OU2MW-39I2	0.538	0.427	0.351	0.478	0.484	0.389	0.485	0.613	0.598	--	--	0.516	--	--	0.687	--	--	--	0.636	--
OU2MW-39D	0.195	0.204	0.205	0.225	0.211	0.164	0.186	0.230	0.232	--	--	0.228	--	--	0.257	--	--	--	0.228	--
OU2MW-47S	0.454	0.462	0.495	0.483	0.374	0.374	0.304	0.284	0.341	--	--	0.618	--	--	0.578	--	0.79	--	--	--
OU2MW-47I	0.491	0.415	0.436	0.557	0.499	0.356	0.361	0.407	0.389	--	--	0.643	--	--	0.556	--	1.03	--	--	--
OU2MW-47I2	0.421	0.441	0.465	0.588	0.528	0.491	0.485	0.434	0.732	--	--	0.641	--	--	0.426	--	0.70	--	--	--
OU2MW-47D	0.467	0.584	0.743	0.791	0.658	0.507	0.565	0.366	0.335	--	--	0.402	--	--	0.551	--	1.55	--	--	--
OU2MW-19I	--	--	--	1.030	--	0.839	--	1.08	--	--	--	--	0.948	0.918	--	--	--	1.000	--	--
OU2MW-19I2	--	--	--	0.622	--	0.679	--	0.62	--	--	--	--	0.679	0.563	--	--	--	0.452	--	--
OU2MW-19D	--	--	--	0.537	--	0.563	--	0.34	--	--	--	--	0.495	0.475	--	--	--	0.444	--	--
OU2MW-02S	--	--	--	0.609	--	0.479	--	0.40	--	--	--	--	0.586	0.661	--	--	--	0.487	--	--
OU2MW-02I	--	--	--	0.503	--	0.388	--	0.40	--	--	--	--	0.388	0.414	--	--	--	0.245	--	--
OU2MW-02I2	--	--	--	1.120	--	1.020	--	1.16	--	--	--	--	0.991	0.062	--	--	--	0.809	--	--
OU2MW-02D	--	--	--	0.059	--	0.056	--	0.04	--	--	--	--	0.061	1.090	--	--	--	0.035	--	--
Dissolved Oxygen (mg/L)																				
OU2MW-30S	--	18.0	17.0	23.0	28.0	24.0	29.0	29.0	32.0	--	--	23.0	--	--	19.0	--	21.0	--	--	--
OU2MW-30I	--	19.0	17.0	25.0	25.0	23.0	36.0	34.0	39.0	--	--	39.0	--	--	21.0	--	43.0	--	--	--
OU2MW-30I2	--	19.0	16.0	21.0	24.0	16.0	42.0	45.0	36.0	--	--	25.0	--	--	22.0	--	46.4	--	--	--
OU2MW-30I3	--	21.0	17.0	25.0	24.0	18.0	36.0	30.0	39.0	--	--	33.0	--	--	22.0	--	37.0	--	--	--
OU2MW-30D	--	--	18.0	25.0	24.0	24.0	36.0	43.0	37.0	--	--	31.0	--	--	18.0	--	27.0	--	--	--
OU2MW-30D2	--	--	17.0	23.0	22.0	16.0	17.0	21.0	14.0	--	--	6.0	--	--	3.9	--	18.00	--	--	--
OU2MW-39S	25.8	14.0	12.0	10.0	13.0	21.0	22.0	20.0	22.0	--	--	25.0	--	--	17.0	--	--	--	17.0	--
OU2MW-39I	34.6	20.0	17.0	15.0	17.0	23.0	9.0	24.0	31.0	--	--	31.0	--	--	12.9	--	--	--	14.0	--
OU2MW-39I2	36.2	16.0	15.0	14.0	16.0	23.0	21.0	22.0	26.0	--	--	24.0	--	--	17.4	--	--	--	30.0	--
OU2MW-39D	17.2	3.0	5.0	5.0	5.0	3.0	7.0	0.4	0.4	--	--	2.0	--	--	0.6	--	--	--	1.0	--
OU2MW-47S	46.5	20.0	21.0	18.0	26.0	20.0	30.0	22.0	25.0	--	--	20.0	--	--	20.0	--	19.00	--	--	--
OU2MW-47I	50.0	24.0	21.0	28.0	26.0	21.0	36.0	44.0	34.0	--	--	29.0	--	--	26.0	--	21.00	--	--	--
OU2MW-47I2	50.0	23.0	23.0	21.0	26.0	30.0	33.0	28.0	42.0	--	--	25.0	--	--	24.0	--	27.00	--	--	--
OU2MW-47D	50.0	24.0	24.0	26.0	31.0	19.0	37.0	26.0	22.0	--	--	27.0	--	--	24.0	--	18.00	--	--	--
OU2MW-19I	--	--	--	29.6	--	26.0	--	11.0	--	--	--	--	50.0	27.9	--	--	--	16.5	--	--
OU2MW-19I2	--	--	--	50.0	--	31.0	--	29.1	--	--	--	--	22.6	31.8	--	--	--	32.1	--	--
OU2MW-19D	--	--	--	16.6	--	15.2	--	13.4	--	--	--	--	50.0	19.4	--	--	--	9.5	--	--
OU2MW-02S	--	--	--	50.0	--	44.9	--	28.9	--	--	--	--	14.6	23.8	--	--	--	28.3	--	--
OU2MW-02I	--	--	--	50.0	--	46.9	--	19.1	--	--	--	--	20.6	30.4	--	--	--	23.0	--	--
OU2MW-02I2	--	--	--	0.8	--	0.6	--	0.7	--	--	--	--	1.6	6.7	--	--	--	0.0	--	--
OU2MW-02D	--	--	--	0.9	--	0.5	--	3.9	--	--	--	--	3.7	1.3	--	--	--	0.0	--	--

Appendix E - Table E-2
Summary of Groundwater Parameter Data
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Bay Shore/Brightwaters Former MGP Site

Well ID	2016													2017						
	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	July-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
Temperature (degrees Celcius)																				
OU2MW-30S		11.00	12.89	11.10	11.60	12.08	20.68	18.38	20.78	--	--	16.52	--	--	11.90	--	12.21	--	--	--
OU2MW-30I		11.90	14.70	11.90	12.60	12.27	18.01	16.13	19.10	--	--	14.35	--	--	13.98	--	13.50	--	--	--
OU2MW-30I2		11.70	14.94	12.10	12.50	12.42	18.83	17.11	19.15	--	--	13.98	--	--	14.01	--	13.77	--	--	--
OU2MW-30I3		12.00	14.47	12.70	11.40	12.64	18.75	16.46	19.80	--	--	14.03	--	--	14.09	--	14.22	--	--	--
OU2MW-30D		--	14.87	13.10	13.20	12.04	17.11	16.80	21.20	--	--	13.47	--	--	14.03	--	13.42	--	--	--
OU2MW-30D2		--	14.97	12.90	12.10	12.46	19.69	16.53	20.00	--	--	14.26	--	--	14.01	--	13.54	--	--	--
OU2MW-39S	10.96	11.50	10.90	11.40	13.40	14.26	18.84	19.68	21.33	--	--	15.09	--	--	6.69	--	--	--	15.10	--
OU2MW-39I	11.80	12.60	11.90	12.50	12.80	17.27	22.44	18.59	20.29	--	--	14.48	--	--	10.80	--	--	--	14.69	--
OU2MW-39I2	12.19	13.40	11.30	11.90	11.00	18.47	18.32	21.39	17.53	--	--	14.81	--	--	9.80	--	--	--	15.82	--
OU2MW-39D	12.06	11.90	10.20	10.20	8.00	19.01	23.29	20.08	19.66	--	--	14.25	--	--	11.10	--	--	--	15.46	--
OU2MW-47S	13.90	11.10	11.00	10.50	14.30	12.44	16.17	16.94	18.74	--	--	14.40	--	--	12.57	--	12.04	--	--	--
OU2MW-47I	13.70	12.40	12.50	11.90	15.10	15.28	15.53	15.23	17.40	--	--	13.08	--	--	13.83	--	13.16	--	--	--
OU2MW-47I2	13.30	11.80	12.10	11.60	16.00	13.57	16.07	18.20	17.39	--	--	12.34	--	--	13.37	--	13.75	--	--	--
OU2MW-47D	13.70	11.70	12.00	12.40	15.10	16.12	16.40	16.38	19.45	--	--	12.72	--	--	13.06	--	14.19	--	--	--
OU2MW-19I	--	--	--	10.50	--	12.21	--	16.4	--	--	--	--	14.28	12.36	--	--	--	12.62	--	--
OU2MW-19I2	--	--	--	12.10	--	13.11	--	16.2	--	--	--	--	13.02	12.36	--	--	--	13.39	--	--
OU2MW-19D	--	--	--	16.27	--	12.91	--	15.9	--	--	--	--	12.57	11.98	--	--	--	13.08	--	--
OU2MW-02S	--	--	--	11.70	--	15.86	--	15.5	--	--	--	--	11.63	7.74	--	--	--	13.35	--	--
OU2MW-02I	--	--	--	12.70	--	16.25	--	16.2	--	--	--	--	11.58	7.62	--	--	--	12.90	--	--
OU2MW-02I2	--	--	--	12.40	--	12.79	--	15.6	--	--	--	--	11.33	10.56	--	--	--	12.71	--	--
OU2MW-02D	--	--	--	12.00	--	12.30	--	15.1	--	--	--	--	9.83	10.40	--	--	--	12.90	--	--
Oxidation Reduction Potential																				
OU2MW-30S	--	231	338	229	152	185	223	271	190	--	--	117	--	--	238	--	217	--	--	--
OU2MW-30I	--	218	328	233	187	173	209	270	235	--	--	272	--	--	275	--	203	--	--	--
OU2MW-30I2	--	214	340	252	208	153	220	280	220	--	--	280	--	--	281	--	187	--	--	--
OU2MW-30I3	--	250	386	258	177	217	269	299	274	--	--	284	--	--	318	--	273	--	--	--
OU2MW-30D	--	--	275	246	184	204	254	286	267	--	--	288	--	--	325	--	273	--	--	--
OU2MW-30D2	--	--	387	238	148	193	254	273	245	--	--	226	--	--	212	--	188.00	--	--	--
OU2MW-39S	208	169	182	167	128	335	219	192	202	--	--	176	--	--	266	--	--	--	163	--
OU2MW-39I	191	132	141	112	72	276	172	197	200	--	--	151	--	--	245	--	--	--	173	--
OU2MW-39I2	200	101	132	108	83	296	219	185	245	--	--	168	--	--	247	--	--	--	187	--
OU2MW-39D	192	93	109	137	115	165	90	93	84	--	--	74	--	--	78	--	--	--	72	--
OU2MW-47S	208	191	239	232	208	210	201	230	237	--	--	200	--	--	262	--	272.00	--	--	--
OU2MW-47I	211	201	229	223	200	369	196	203	225	--	--	235	--	--	259	--	262.00	--	--	--
OU2MW-47I2	200	203	236	227	199	196	212	229	217	--	--	184	--	--	264	--	259.00	--	--	--
OU2MW-47D	212	215	273	220	199	375	195	218	229	--	--	223	--	--	280	--	273.00	--	--	--
OU2MW-19I	--	--	--	166	--	216	--	209.0	--	--	--	--	274	150	--	--	--	244	--	--
OU2MW-19I2	--	--	--	185	--	228	--	258.0	--	--	--	--	283	164	--	--	--	242	--	--
OU2MW-19D	--	--	--	142	--	137	--	121.0	--	--	--	--	162	135	--	--	--	201	--	--
OU2MW-02S	--	--	--	182	--	351	--	140.0	--	--	--	--	156	179	--	--	--	191	--	--
OU2MW-02I	--	--	--	179	--	380	--	216.0	--	--	--	--	248	183	--	--	--	258	--	--
OU2MW-02I2	--	--	--	-79	--	-99	--	-71.0	--	--	--	--	-117	42	--	--	--	-102	--	--
OU2MW-02D	--	--	--	112	--	122	--	75.0	--	--	--	--	76	-65	--	--	--	110	--	--

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Bay Shore/Brightwaters Former MGP Site

Well ID	2018																
	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	6.10	--	--	5.96	--	--	6.03	--	6.28	--	--	6.22	--	--	--	6.68	--
OU2MW-30I	6.25	--	--	6.35	--	--	6.16	--	6.47	--	--	6.29	--	--	--	6.86	--
OU2MW-30I2	6.31	--	--	6.44	--	--	6.08	--	6.51	--	--	6.51	--	--	--	6.89	--
OU2MW-30I3	5.50	--	--	5.65	--	--	5.59	--	5.60	--	--	5.40	--	--	--	5.80	--
OU2MW-30D	5.34	--	--	5.50	--	--	5.44	--	5.73	--	--	5.48	--	--	--	5.39	--
OU2MW-30D2	5.44	--	--	5.54	--	--	5.51	--	5.78	--	--	5.57	--	--	--	5.74	--
OU2MW-39S	6.03	--	--	6.30	--	--	--	5.95	--	6.46	--	--	6.45	--	--	4.33	--
OU2MW-39I	6.83	--	--	6.95	--	--	--	6.65	--	7.38	--	--	7.44	--	--	7.12	--
OU2MW-39I2	6.19	--	--	6.47	--	--	--	6.07	--	6.39	--	--	6.70	--	--	6.66	--
OU2MW-39D	5.04	--	--	5.15	--	--	--	4.95	--	5.07	--	--	5.52	--	--	5.27	--
OU2MW-47S	5.52	--	5.47	--	--	--	5.27	--	--	5.89	--	--	6.19	--	--	5.87	--
OU2MW-47I	5.78	--	5.87	--	--	--	5.73	--	--	6.44	--	--	6.55	--	--	6.15	--
OU2MW-47I2	5.78	--	5.83	--	--	--	5.66	--	--	6.19	--	--	6.29	--	--	5.96	--
OU2MW-47D	5.68	--	5.81	--	--	--	5.68	--	--	5.85	--	--	5.87	--	--	5.88	--
OU2MW-19I	--	5.82	6.37	--	--	--	5.89	--	--	--	6.71	--	6.47	--	--	7.13	--
OU2MW-19I2	--	5.32	6.65	--	--	--	5.91	--	--	--	6.44	--	6.71	--	--	7.38	--
OU2MW-19D	--	5.29	5.10	--	--	--	4.93	--	--	--	5.08	--	5.17	--	--	5.80	--
OU2MW-02S	5.96	--	--	5.92	--	--	5.66	--	--	6.19	--	--	6.07	--	--	5.90	--
OU2MW-02I	5.72	--	--	5.82	--	--	5.66	--	--	5.75	--	--	5.60	--	--	5.60	--
OU2MW-02I2	5.80	--	--	5.81	--	--	5.80	--	--	5.93	--	--	5.85	--	--	6.11	--
OU2MW-02D	5.33	--	--	5.34	--	--	5.71	--	--	5.52	--	--	5.53	--	--	5.53	--
Conductivity (mS/cm)																	
OU2MW-30S	0.400	--	--	0.497	--	--	1.05	--	0.595	--	--	0.287	--	--	--	0.492	--
OU2MW-30I	0.680	--	--	0.552	--	--	0.526	--	0.305	--	--	0.313	--	--	--	0.787	--
OU2MW-30I2	0.611	--	--	0.509	--	--	0.523	--	0.319	--	--	0.376	--	--	--	0.617	--
OU2MW-30I3	0.767	--	--	0.593	--	--	0.419	--	0.232	--	--	0.259	--	--	--	0.272	--
OU2MW-30D	0.577	--	--	0.525	--	--	0.545	--	0.323	--	--	0.289	--	--	--	0.324	--
OU2MW-30D2	0.886	--	--	0.797	--	--	0.682	--	0.440	--	--	0.400	--	--	--	0.487	--
OU2MW-39S	0.486	--	--	0.513	--	--	--	0.433	--	0.155	--	--	0.292	--	--	0.134	--
OU2MW-39I	0.823	--	--	0.701	--	--	--	0.765	--	0.361	--	--	0.552	--	--	0.521	--
OU2MW-39I2	0.598	--	--	0.622	--	--	--	0.454	--	0.194	--	--	0.330	--	--	0.512	--
OU2MW-39D	0.249	--	--	0.222	--	--	--	0.225	--	0.111	--	--	0.155	--	--	0.184	--
OU2MW-47S	0.400	--	0.467	--	--	--	0.531	--	--	0.181	--	--	0.254	--	--	0.356	--
OU2MW-47I	0.684	--	0.623	--	--	--	0.484	--	--	0.346	--	--	0.364	--	--	0.450	--
OU2MW-47I2	0.442	--	0.428	--	--	--	0.643	--	--	0.301	--	--	0.421	--	--	0.410	--
OU2MW-47D	0.549	--	0.362	--	--	--	0.361	--	--	0.250	--	--	0.305	--	--	0.386	--
OU2MW-19I	--	1.030	1.170	--	--	--	1.05	--	--	--	0.679	--	1.010	--	--	0.761	--
OU2MW-19I2	--	0.800	1.330	--	--	--	0.553	--	--	0.357	--	--	0.890	--	--	0.377	--
OU2MW-19D	--	0.323	0.498	--	--	--	0.505	--	--	--	0.281	--	0.312	--	--	0.369	--
OU2MW-02S	0.551	--	--	0.548	--	--	0.508	--	--	0.341	--	--	0.289	--	--	0.502	--
OU2MW-02I	0.425	--	--	0.500	--	--	0.338	--	--	0.191	--	--	0.199	--	--	0.318	--
OU2MW-02I2	1.400	--	--	1.150	--	--	1.07	--	--	0.462	--	--	0.507	--	--	0.472	--
OU2MW-02D	0.070	--	--	0.072	--	--	0.342	--	--	0.037	--	--	0.037	--	--	0.041	--
Dissolved Oxygen (mg/L)																	
OU2MW-30S	35.00	--	--	25	--	--	18.0	--	23.0	--	--	25.00	--	--	--	27.00	--
OU2MW-30I	35.00	--	--	36	--	--	20.0	--	19.0	--	--	29.00	--	--	--	27.00	--
OU2MW-30I2	40.00	--	--	34	--	--	19.0	--	19.0	--	--	33.00	--	--	--	25.00	--
OU2MW-30I3	40.00	--	--	17	--	--	18.0	--	17.0	--	--	30.00	--	--	--	20.00	--
OU2MW-30D	34.00	--	--	21	--	--	22.0	--	21.0	--	--	23.00	--	--	--	26.00	--
OU2MW-30D2	18.00	--	--	19	--	--	8.0	--	10.0	--	--	4.00	--	--	--	21.00	--
OU2MW-39S	16.00	--	--	14	--	--	--	11.0	--	27.0	--	--	30.00	--	--	13.00	--
OU2MW-39I	17.00	--	--	17	--	--	--	18.0	--	18.0	--	--	22.00	--	--	23.00	--
OU2MW-39I2	23.00	--	--	8	--	--	--	7.0	--	4.0	--	--	6.00	--	--	1.00	--
OU2MW-39D	2.00	--	--	1	--	--	--	0.40	--	4.00	--	--	1.00	--	--	0.00	--
OU2MW-47S	19.00	--	27	--	--	--	14.0	--	--	26.00	--	--	30.00	--	--	16.00	--
OU2MW-47I	21.00	--	23	--	--	--	16.0	--	--	30.00	--	--	30.00	--	--	16.00	--
OU2MW-47I2	21.00	--	36	--	--	--	17.0	--	--	20.00	--	--	36.00	--	--	15.00	--
OU2MW-47D	20.00	--	27	--	--	--	18.0	--	--	37.00	--	--	35.00	--	--	16.00	--
OU2MW-19I	--	12.25	19.01	--	--	--	16.68	--	--	--	8.58	--	12.11	--	--	16.21	--
OU2MW-19I2	--	13.35	21.87	--	--	--	26.75	--	--	--	27.63	--	27.12	--	--	16.70	--
OU2MW-19D	--	0.38	19.49	--	--	--	14.17	--	--	--	4.66	--	14.76	--	--	21.34	--
OU2MW-02S	34.87	--	--	26.9	--	--	22.16	--	--	26.27	--	--	22.28	--	--	37.55	--
OU2MW-02I	42.74	--	--	26.3	--	--	24.26	--	--	13.12	--	--	15.61	--	--	16.88	--
OU2MW-02I2	0.38	--	--	0.3	--	--	0.75	--	--	0.00	--	--	0.00	--	--	0.00	--
OU2MW-02D	0.45	--	--	0.5	--	--	7.80	--	--	0.00	--	--	0.00	--	--	0.05	--

Appendix E - Table E-2
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OU-2 Oxygen Injection System
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Bay Shore/Brightwaters Former MGP Site

Well ID	2018																
	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
Temperature (degrees Celcius)																	
OU2MW-30S	19.43	--	--	15.32	--	--	10.23	--	13.49	--	--	22.56	--	--	--	15.52	--
OU2MW-30I	16.23	--	--	14.11	--	--	12.71	--	15.41	--	--	21.36	--	--	--	13.42	--
OU2MW-30I2	16.27	--	--	14.40	--	--	13.01	--	15.78	--	--	20.07	--	--	--	13.18	--
OU2MW-30I3	15.78	--	--	13.16	--	--	13.64	--	15.21	--	--	19.95	--	--	--	13.51	--
OU2MW-30D	16.05	--	--	13.64	--	--	14.98	--	15.93	--	--	21.78	--	--	--	12.31	--
OU2MW-30D2	15.55	--	--	13.07	--	--	12.96	--	15.42	--	--	20.87	--	--	--	13.32	--
OU2MW-39S	17.84	--	--	10.27	--	--	--	11.40	--	21.16	--	--	23.40	--	--	15.20	--
OU2MW-39I	17.58	--	--	10.01	--	--	--	12.73	--	21.25	--	--	23.28	--	--	14.37	--
OU2MW-39I2	18.36	--	--	10.46	--	--	--	14.35	--	22.50	--	--	23.58	--	--	12.53	--
OU2MW-39D	20.15	--	--	10.14	--	--	--	15.39	--	24.51	--	--	26.38	--	--	13.00	--
OU2MW-47S	17.82	--	18.50	--	--	--	11.48	--	--	15.85	--	--	18.19	--	--	14.87	--
OU2MW-47I	16.30	--	16.55	--	--	--	12.25	--	--	16.39	--	--	15.13	--	--	13.69	--
OU2MW-47I2	17.61	--	16.77	--	--	--	12.47	--	--	17.29	--	--	15.65	--	--	13.11	--
OU2MW-47D	16.47	--	17.38	--	--	--	12.45	--	--	18.40	--	--	14.76	--	--	12.85	--
OU2MW-19I	--	16.29	15.26	--	--	--	12.08	--	--	--	16.78	--	20.41	--	--	16.65	--
OU2MW-19I2	--	15.78	15.34	--	--	--	12.80	--	--	--	18.07	--	19.79	--	--	14.84	--
OU2MW-19D	--	15.68	15.24	--	--	--	12.26	--	--	--	20.62	--	19.89	--	--	14.69	--
OU2MW-02S	16.57	--	--	15.29	--	--	9.77	--	--	16.98	--	--	21.13	--	--	11.67	--
OU2MW-02I	15.59	--	--	14.21	--	--	10.82	--	--	18.08	--	--	20.34	--	--	12.07	--
OU2MW-02I2	15.75	--	--	13.74	--	--	10.70	--	--	17.67	--	--	22.77	--	--	12.45	--
OU2MW-02D	15.39	--	--	12.49	--	--	10.64	--	--	17.76	--	--	22.95	--	--	12.60	--
Oxidation Reduction Potential																	
OU2MW-30S	132	--	--	204	--	--	194	--	332	--	--	179	--	--	--	238	--
OU2MW-30I	224	--	--	210	--	--	199	--	344	--	--	251	--	--	--	246	--
OU2MW-30I2	226	--	--	211	--	--	208	--	353	--	--	245	--	--	--	264	--
OU2MW-30I3	247	--	--	222	--	--	224	--	348	--	--	298	--	--	--	322	--
OU2MW-30D	264	--	--	260	--	--	215	--	380	--	--	284	--	--	--	363	--
OU2MW-30D2	157	--	--	132	--	--	120	--	228	--	--	156	--	--	--	246	--
OU2MW-39S	221	--	--	164	--	--	--	229	--	248	--	--	293	--	--	414	--
OU2MW-39I	206	--	--	168	--	--	--	187	--	196	--	--	261	--	--	324	--
OU2MW-39I2	215	--	--	179	--	--	--	211	--	180	--	--	233	--	--	171	--
OU2MW-39D	73	--	--	102	--	--	--	64	--	110	--	--	119	--	--	80	--
OU2MW-47S	225	--	219	--	--	--	202	--	--	258	--	--	338	--	--	262	--
OU2MW-47I	227	--	198	--	--	--	187	--	--	251	--	--	321	--	--	267	--
OU2MW-47I2	245	--	206	--	--	--	201	--	--	264	--	--	340	--	--	283	--
OU2MW-47D	260	--	208	--	--	--	200	--	--	287	--	--	342	--	--	284	--
OU2MW-19I	--	151	122	--	--	--	199	--	--	--	229	--	285	--	--	171	--
OU2MW-19I2	--	247	151	--	--	--	227	--	--	--	148	--	288	--	--	181	--
OU2MW-19D	--	201	231	--	--	--	155	--	--	--	227	--	263	--	--	282	--
OU2MW-02S	108	--	--	119	--	--	103	--	--	211	--	--	174	--	--	225	--
OU2MW-02I	204	--	--	97	--	--	113	--	--	238	--	--	181	--	--	227	--
OU2MW-02I2	-115	--	--	-118	--	--	-117	--	--	-8	--	--	-67	--	--	-23	--
OU2MW-02D	88	--	--	61	--	--	2	--	--	119	--	--	73	--	--	110	--

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Bay Shore/Brightwaters Former MGP Site

Well ID	2019				2020			2021				2022		Baseline Average	Historical Average	Q3 2021 - Q2 2022 Average
	Q1	Q2	Q3	Q4	Q1	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2			
pH (SU)																
OU2MW-30S	5.59	6.56	6.67	6.31	6.21	6.17	6.69	6.26	6.13	6.43	6.16	6.04	6.39	6.28	5.88	6.26
OU2MW-30I	6.4	7.17	7.35	6.94	6.66	6.59	6.69	6.84	6.57	7.01	6.84	6.69	6.83	6.64	6.05	6.84
OU2MW-30I2	6.76	6.98	6.94	6.51	6.54	6.4	5.5	6.58	6.61	8.01	6.84	6.70	6.75	6.54	6.02	7.08
OU2MW-30I3	5.8	6.1	5.63	5.76	5.13	5.45	5.73	5.69	5.36	5.74	5.51	5.51	5.29	6.10	5.48	5.51
OU2MW-30D	5.66	5.76	5.59	--	5.13	5.44	5.38	5.48	5.48	5.52	5.30	5.25	5.56	5.99	5.48	5.41
OU2MW-30D2	5.3	5.92	5.42	5.69	5.73	5.63	5.82	5.81	5.71	5.76	5.69	5.66	5.7	6.15	5.55	5.70
OU2MW-39S	5.09	4.84	--	6.26	6.00	5.99	5.87	5.99	5.48	6.47	6.27	6.25	6.26	5.67	5.70	6.31
OU2MW-39I	6.66	7.5	7.55	7.55	6.95	7.14	6.53	7.70	6.56	7.48	7.26	7.27	7.27	7.49	6.44	7.32
OU2MW-39I2	5.29	6.32	--	5.97	4.75	5.55	5.57	5.67	4.91	6	6.09	5.87	6.34	5.60	5.46	6.08
OU2MW-39D	4.88	4.33	5.12	5.25	4.05	5.00	4.62	4.40	4.33	5.43	5.13	5.34	5.39	6.97	4.95	5.32
OU2MW-47S	3.96	5.84	5.91	5.86	5.54	5.66	5.87	6.14	4.25	5.96	5.76	5.53	6.00	6.33	5.56	5.81
OU2MW-47I	6.01	6.4	6.49	6.31	6.07	6.08	6.44	6.78	5.04	6.47	6.53	6.13	6.61	6.55	5.97	6.44
OU2MW-47I2	6.61	6.24	6.18	6.29	5.84	5.75	5.95	6.14	5.22	6.05	5.92	5.78	6.03	6.28	5.95	5.95
OU2MW-47D	6.45	6.07	5.85	5.64	5.48	5.45	5.62	5.68	4.66	5.71	5.63	5.21	5.46	5.55	5.75	5.50
OU2MW-19I	6.66	6.84	6.97	6.75	6.85	6.63	6.71	6.75	6.39	6.83	6.80	6.74	6.41	7.51	6.40	6.70
OU2MW-19I2	6.91	6.71	7.21	6.50	6.52	5.93	5.98	5.80	5.23	6.64	6.74	6.72	6.01	5.94	6.16	6.53
OU2MW-19D	5.29	5.19	5.29	5.21	5.45	4.92	4.97	5.07	4.76	5.35	5.34	4.99	4.77	7.09	5.40	5.11
OU2MW-02S	5.38	6.35	6.32	6.20	5.65	5.99	6.47	6.29	5.50	6.31	6.01	6.16	6.44	6.88	5.91	6.23
OU2MW-02I	5.68	5.63	5.68	6.07	5.27	5.09	5.04	5.24	5.36	5.48	5.51	5.42	5.73	6.12	5.86	5.54
OU2MW-02I2	5.79	6.23	6.21	6.06	5.87	5.72	5.80	6.00	5.54	6.15	5.88	6.08	6.53	6.14	5.84	6.16
OU2MW-02D	4.86	4.99	4.65	5.24	5.37	4.9	5.34	5.20	4.86	5.58	5.10	5.35	5.61	5.74	5.19	5.41
Conductivity (mS/cm)																
OU2MW-30S	0.402	0.381	0.231	0.281	0.553	0.267	0.491	0.264	0.593	0.488	0.311	0.32	0.434	0.485	0.42	0.39
OU2MW-30I	0.753	0.744	0.511	0.573	0.76	0.52	0.634	0.390	0.495	0.575	0.424	0.427	0.521	0.646	0.60	0.49
OU2MW-30I2	0.714	0.556	0.447	0.618	0.915	0.494	0.002	0.541	0.509	0.544	0.446	0.448	0.499	0.424	0.56	0.48
OU2MW-30I3	0.47	0.422	0.293	0.280	0.478	0.371	0.462	0.295	0.383	0.471	0.359	0.361	0.295	0.727	0.46	0.37
OU2MW-30D	0.504	0.437	0.287	--	0.462	0.392	0.002	0.411	0.388	0.468	0.348	0.351	0.300	0.521	0.45	0.37
OU2MW-30D2	0.699	0.601	0.442	0.384	0.637	0.49	0.564	0.505	0.46	0.574	0.444	0.452	0.354	0.561	0.66	0.46
OU2MW-39S	0.22	0.367	--	0.325	0.331	0.295	0.284	0.270	0.243	0.265	0.284	0.29	0.213	0.211	0.33	0.26
OU2MW-39I	0.648	0.431	0.508	0.634	0.541	0.565	0.586	0.500	0.383	0.611	0.466	0.465	0.344	0.408	0.67	0.47
OU2MW-39I2	0.25	0.273	--	0.169	0.445	0.23	0.22	0.197	0.19	0.201	0.215	0.197	0.251	0.233	0.43	0.22
OU2MW-39D	0.205	0.243	0.139	0.140	0.452	0.212	0.196	0.180	0.176	0.175	0.170	0.171	0.146	0.133	0.30	0.17
OU2MW-47S	0.173	0.274	0.189	0.256	0.323	0.294	0.334	0.312	0.227	0.304	0.282	0.296	0.312	0.303	0.38	0.30
OU2MW-47I	0.726	0.649	0.4	0.495	0.500	0.438	0.635	0.498	0.437	0.539	0.524	0.472	0.452	0.640	0.59	0.50
OU2MW-47I2	0.548	0.556	0.891	0.384	0.473	0.392	0.357	0.454	0.356	0.402	0.256	0.255	0.314	0.490	0.53	0.31
OU2MW-47D	0.459	0.39	0.284	0.419	0.758	0.272	0.247	0.329	0.224	0.257	0.388	0.339	0.38	0.341	0.44	0.34
OU2MW-19I	0.991	1.09	0.887	0.645	1.05	0.981	0.714	0.623	0.671	1.08	1.19	0.923	1.09	0.631	0.84	1.07
OU2MW-19I2	0.354	0.714	0.697	0.425	0.390	0.383	0.438	0.317	0.355	0.715	1.30	0.43	0.95	0.553	0.62	0.85
OU2MW-19D	0.421	0.55	0.376	0.481	0.516	0.365	0.413	0.324	0.394	0.39	0.350	0.272	0.517	1.310	0.63	0.38
OU2MW-02S	0.64	0.731	0.396	0.537	0.530	0.450	0.442	0.565	0.428	0.543	0.384	0.561	0.570	0.405	0.54	0.51
OU2MW-02I	0.721	0.726	0.505	0.619	0.674	0.515	0.592	0.582	0.428	0.566	0.437	0.558	0.494	0.178	0.49	0.51
OU2MW-02I2	0.446	0.262	0.226	0.281	0.345	0.431	0.507	0.394	0.221	0.243	0.178	0.248	0.192	0.122	0.44	0.22
OU2MW-02D	0.06	0.079	0.05	0.058	0.066	0.053	0.064	0.062	0.053	0.057	0.060	0.075	0.074	0.037	0.08	0.07
Dissolved Oxygen (mg/L)																
OU2MW-30S	13	24	31	26	12	28	25	12	7	17	20	2	8	0.0	25.00	11.75
OU2MW-30I	23	27	29	28	16	24	23	12	7	16	24	16	11	0.0	28.92	16.75
OU2MW-30I2	17	24	26	29	17	25	13	27	9	15	21	6	19	0.7	30.73	15.25
OU2MW-30I3	17	25	31	23	18	27	23	13	14	25	24	13	19	0.0	29.64	20.25
OU2MW-30D	18	21	31	--	20	28	17	24	17	13	22	15	15	0.5	30.67	16.25
OU2MW-30D2	17	22	29	6	4	21	20	16	9	11	5	2	2	0.0	17.07	5.00
OU2MW-39S	11	24	--	15	12	23	12	3	1	15	5	5	5	1.8	20.67	7.50
OU2MW-39I	17	26	22	18	9	22	23	8	9	17	11	8	7	7.2	25.65	10.75
OU2MW-39I2	9	31	--	23	35	6	3	8	4	19	9	1	6	0.0	9.87	8.75
OU2MW-39D	1	1	0	0	0	0	2	1	2	15	8	1	2	0.0	1.50	6.50
OU2MW-47S	14	18	22	30	13	32	21	8	15	25	3	6	8	0.0	25.59	10.50
OU2MW-47I	14	17	21	23	16	26	24	11	23	29	12	16	15	0.0	28.97	18.00
OU2MW-47I2	22	18	31	23	15	26	21	14	23	28	6	22	6	0.0	29.63	15.50
OU2MW-47D	24	31	25	24	16	26	19	12	22	32.34	3	12	7	0.0	27.70	13.59
OU2MW-19I	21.28	21.82	17.29	24.84	22.6	20.09	24.77	23.64	20.83	27.67	24.30	6.00	9.00	0.0	18.28	16.74
OU2MW-19I2	25.62	38.24	22	40.34	36.8	19.7	24.12	15.24	11.73	35.36	34.32	11	8	0.0	26.84	22.17
OU2MW-19D	25.92	41.37	22.37	22.46	20.33	9.15	8.12	13.05	9.2	5.71	24.71	6	5	0.0	11.12	10.36
OU2MW-02S	22.67	40.5	35.47	30.22	38.50	33.46	27.22	29.29	30.53	23.80	19	20	25	1.8	24.26	21.95
OU2MW-02I	16.11	26.64	25.28	18.16	5.2	18.01	11.68	19.4	0.27	3.98	2	4	14	0.4	17.87	6.00
OU2MW-02I2	0	0	0	0	0	0	0	7.06	0	0	0	1	0	0.5	1.04	0.25
OU2MW-02D	0	0	0	0	0	0	0	1.17	0	0	0	1	2	0.9	1.12	0.75

Appendix E - Table E-2
Summary of Groundwater Parameter Data
OU-2 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	2019				2020			2021				2022		Baseline Average	Historical Average	Q3 2021 - Q2 2022 Average
	Q1	Q2	Q3	Q4	Q1	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2			
Temperature (degrees Celcius)																
OU2MW-30S	10.76	13.88	19.14	16.57	8.22	19.96	13.55	11.79	17.84	20.2	13.28	13.47	11.87	15.0	15.86	14.71
OU2MW-30I	12.26	14.45	15.67	15.01	9.51	16.16	13.88	13.58	15.85	15.98	13.54	14.36	12.71	14.3	14.94	14.15
OU2MW-30I2	12.3	13.91	16.07	14.22	10.93	15.92	37.45	13.23	17.41	18.19	12.92	14.14	12.74	14.5	15.24	14.50
OU2MW-30I3	12.62	15.38	23.22	14.27	11.92	16.14	13.34	12.97	16.2	30.52	13.49	13.76	16.26	14.3	15.03	18.51
OU2MW-30D	12.14	14.08	21.24	--	11.25	17.18	12.9	13.43	17.17	16.03	14.40	13.43	16.42	14.0	14.93	15.07
OU2MW-30D2	12.64	14.85	21.85	14.15	11.89	16.55	13.18	13.20	16.42	16	13.19	13.34	16.18	14.2	15.04	14.68
OU2MW-39S	4.81	14.94	--	13.68	11.01	21.53	13.99	4.10	14.21	23.47	16.62	12.92	17.6	9.2	13.81	17.65
OU2MW-39I	4.78	13.9	25.02	13.50	12.53	22.94	16.08	12.12	16.83	23.31	15.20	13.68	18.68	12.9	14.38	17.72
OU2MW-39I2	9.75	15.35	--	11.99	11.66	24.48	14.16	5.85	18.18	21.25	14.13	12.15	18.36	12.0	14.16	16.47
OU2MW-39D	5.33	13.99	22.75	11.65	11.67	23.83	14.02	3.67	18.05	20.28	14.07	12.03	21.67	11.9	14.08	17.01
OU2MW-47S	8.2	11.53	16.54	14.80	14.66	18.06	16.51	11.61	22.42	18.57	15.42	13.32	13.68	12.6	15.09	15.25
OU2MW-47I	11.79	11.92	15.52	13.60	15.96	14.99	15.92	14.01	21.97	16.69	15.00	14.75	13.36	13.8	14.92	14.95
OU2MW-47I2	12.98	13.95	15.63	13.04	13.09	16.26	15.63	12.85	24.79	17.45	14.02	14.46	14.12	13.1	15.09	15.01
OU2MW-47D	11.46	13.6	15.59	12.34	14.98	15.5	15.33	12.33	24.27	17.46	13.76	13.79	14.77	13.4	15.01	14.95
OU2MW-19I	6.11	13	20.38	15.30	12.67	17.06	13.80	13.59	12.66	16.44	18.56	13.53	11.70	17.7	14.50	15.06
OU2MW-19I2	8.79	14.11	20.81	13.84	13.22	16.32	13.9	13.56	14.48	16.38	15.7	12.89	12.15	15.3	14.48	14.28
OU2MW-19D	10.47	14.37	16.72	12.56	12.48	16.49	13.74	12.01	13.78	16.08	15.65	12.3	12.66	15.2	14.35	14.17
OU2MW-02S	10.42	16.75	18.03	16.42	9.68	17	13.41	6.2	20.49	19.05	14.69	12.84	18.06	16.7	15.09	16.16
OU2MW-02I	11.33	16.08	15.68	16.40	11.94	16.10	10.73	6.74	19.21	17.65	12.76	10.70	20.62	18.0	14.70	15.43
OU2MW-02I2	12.06	17.66	17.45	13.86	12.22	15.57	10.75	6.01	18.31	17.25	12.61	9.84	19.28	16.0	14.47	14.75
OU2MW-02D	11.88	15.8	18.65	13.52	12.19	15.68	11.3	7.56	17.6	17.26	13.69	9.96	19.49	17.2	14.42	15.10
Oxidation Reduction Potential																
OU2MW-30S	350	264	215	202	201	248	175	314	269	168	193	170	314	11	227.26	211.25
OU2MW-30I	314	306	212	235	209	259	186	296	283	189	181	163	316	-119	214.63	212.25
OU2MW-30I2	298	257	228	283	225	269	212	219	284	157	187	168	310	-53	224.55	205.50
OU2MW-30I3	320	260	256	260	295	311	222	334	319	255	247	227	383	19	247.10	278.00
OU2MW-30D	304	285	245	--	312	320	270	300	319	266	254	253	352	87	245.13	281.25
OU2MW-30D2	220	188	199	134	131	183	97	198	298	130	102	133	181	-96	203.62	136.50
OU2MW-39S	279	230	--	178	274	255	214	233	234	228	201	191	293	147	212.05	228.25
OU2MW-39I	170	175	130	133	246	214	281	150	216	182	178	160	210	17	176.21	182.50
OU2MW-39I2	198	198	--	216	412	258	235	249	268	258	238	225	268	128	162.74	247.25
OU2MW-39D	43	127	90	45	90	79	141	126	131	104	31	41	178	38	97.84	88.50
OU2MW-47S	252	346	196	321	293	278	248	261	267	244	208	220	280	-62	232.26	238.00
OU2MW-47I	210	334	196	316	274	284	245	234	237	217	176	203	277	-104	224.17	218.25
OU2MW-47I2	261	240	196	335	246	293	276	263	222	238	213	223	288	75	226.37	240.50
OU2MW-47D	272	260	231	343	303	303	290	288	244	270	195	258	308	79	222.20	257.75
OU2MW-19I	219	212	194	268	280	237	166	224	139	176	86	137	161	-102	149.46	140.00
OU2MW-19I2	218	218	185	208	317	280	195	259	242	200	161	135	211	54	200.36	176.75
OU2MW-19D	249	275	151	262	197	183	117	181	163	161	188	143	218	-118	139.46	177.50
OU2MW-02S	236	157	136	156	192	165	135	184	145	24	101	115	251	-183	161.15	122.75
OU2MW-02I	222	184	69	26	100	202	183	267	46	27	-19	52	125	101	102.98	46.25
OU2MW-02I2	-13	-68	-46	15	-79	-60	-57	-49	-16	-115	-71	-77	-65	-6	-36.40	-82.00
OU2MW-02D	137	107	116	222	69	93	95	135	109	84	93	81	66	69	98.73	81.00

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2002					2003								2004			
		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
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
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	--
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (mg/L)																		
IO-10	OU-3 Community Road	12.0	0.8	10.0	5.5	16.0	8.0	0.0	2.5	25.0	22.0	19.0	11.0	12.0	7.0	5.0	4.0	--
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	--
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	--
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	--
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	--
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	--
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2002					2003									2004			
		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	
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
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	--	
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	--	
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	--	
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	--	
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	--	
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	--	
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	--	
MW-34S	OU-3 Community Road	-150	-171	-24	-118.5	-67	35	85	-75	-71	-61	-115	-106	-42	-95	-140	-112	--	
MW-34I	OU-3 Community Road	-147	-178	-142	-156	-100	-303	-222	-139	-164	-109	-137	-136	-117	-132	-150	-129	--	
MW-34D	OU-3 Community Road	55	85	58	28.5	25	-16	45	118	85	22	62	77	114	132	-95	-20	--	
MW-46WR	OU-3 Community Road	--	--	--	--	-23	-10	-172	-83	-50	-35	-79	--	-80	-71	-105	-69	--	
MW-70/70S	OU-3 Community Road	94	8	2	-8	62	169	-37	-50	46	42	10	19	34	43	12	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2002					2003								2004			
		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
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3

Summary of Groundwater Parameter Data

OU-3 Oxygen Injection System

Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2004					2005											
		Jun-04	Jul-04	Aug-04	Sep-04	Nov-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
pH (SU)																		
IO-10	OU-3 Community Road	6.20	6.02	6.17	6.41	--	6.73	6.49	6.36	6.46	6.30	6.34	6.34	6.37	6.39	6.20	6.14	6.14
MW-34S	OU-3 Community Road	6.44	5.77	5.97	5.62	--	6.21	6.04	6.06	6.19	5.96	5.84	5.88	5.84	6.05	5.85	6.12	6.03
MW-34I	OU-3 Community Road	6.50	6.27	6.46	6.48	--	6.71	6.46	6.39	6.37	6.35	6.42	6.56	6.40	6.74	6.02	6.24	6.28
MW-34D	OU-3 Community Road	5.70	5.78	6.03	5.69	--	6.32	5.99	5.95	6.24	6.03	6.03	6.07	6.15	6.07	5.74	5.98	5.99
MW-46WR	OU-3 Community Road	6.08	5.87	6.20	6.09	--	6.26	6.06	6.15	6.32	6.12	6.03	6.01	6.07	6.36	5.77	5.94	6.07
MW-70/70S	OU-3 Community Road	6.31	5.82	6.11	5.96	--	5.95	5.80	5.73	6.21	5.85	5.95	6.17	6.09	6.21	5.68	5.83	5.95
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	0.435	0.413	0.271	0.279	--	0.390	0.461	0.507	0.369	0.397	0.502	0.338	0.374	0.533	0.528	0.870	0.836
MW-34S	OU-3 Community Road	0.632	0.446	0.428	0.423	--	0.370	0.403	0.430	0.419	0.751	0.730	0.418	0.394	0.593	0.691	0.919	0.668
MW-34I	OU-3 Community Road	0.404	0.300	0.323	0.296	--	0.336	0.351	0.489	0.376	0.425	0.451	0.341	0.416	0.442	0.556	0.882	0.517
MW-34D	OU-3 Community Road	0.211	0.213	0.212	0.194	--	0.195	0.203	0.210	0.173	0.262	0.336	0.271	0.236	0.211	0.306	0.486	0.320
MW-46WR	OU-3 Community Road	1.220	0.709	0.629	0.432	--	0.535	1.000	1.565	2.370	2.230	1.420	1.350	0.549	0.940	0.551	1.100	1.000
MW-70/70S	OU-3 Community Road	0.645	0.644	0.630	0.435	--	0.311	0.296	0.516	0.449	0.574	0.600	0.392	0.355	0.415	0.469	0.718	0.501
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	0.0	2.0	0.0	--	0.0	0.1	0.0	0.0	0.0	0.0	16.0	0.0	12.0	38.0	0.0	20.0
MW-34S	OU-3 Community Road	0.0	0.0	0.0	0.0	--	0.0	0.0	0.6	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	0.3	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	0.3	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	0.0	0.0	0.5	0.0	--	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-70/70S	OU-3 Community Road	0.0	0.0	0.0	0.0	--	27.0	27.0	14.0	7.0	0.0	0.4	3.0	0.0	0.0	0.0	5.9	0.0
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2004					2005											
		Jun-04	Jul-04	Aug-04	Sep-04	Nov-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature (degrees Celcius)																		
IO-10	OU-3 Community Road	18.4	19.0	17.7	19.5	--	11.3	11.0	10.2	11.8	13.1	15.3	17.0	18.1	19.6	17.4	16.6	16.3
MW-34S	OU-3 Community Road	18.7	20.6	20.0	21.2	--	8.0	6.6	6.8	11.4	12.8	16.8	18.7	21.2	22.1	17.6	15.8	10.4
MW-34I	OU-3 Community Road	15.4	16.5	16.9	17.9	--	11.6	11.6	10.7	11.7	11.5	14.4	14.6	16.1	18.1	16.9	16.7	15.3
MW-34D	OU-3 Community Road	15.9	16.0	15.8	16.4	--	11.8	12.8	12.4	12.9	12.5	14.6	14.8	15.9	16.5	15.4	15.4	15.0
MW-46WR	OU-3 Community Road	21.9	24.0	22.8	22.7	--	8.6	7.4	7.6	13.7	16.0	20.1	22.6	23.5	24.0	18.9	15.1	11.8
MW-70/70S	OU-3 Community Road	19.4	20.3	20.9	20.7	--	7.8	8.1	7.6	10.4	12.3	17.0	18.5	20.5	21.1	18.4	15.0	11.4
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	-97	-101	-7	-72	--	-110	-96	-118	-117	-84	-92.5	11	-123	24	42	-53	44
MW-34S	OU-3 Community Road	-165	-109	-124	-123	--	-61	3	-33	-54	-183	-44	-141	-135	-88	-180	-39	-57
MW-34I	OU-3 Community Road	-150	-130	-144	-117	--	-87	-93	-106	-113	-141	-106	-156	-167	-137	-188	-130	-101
MW-34D	OU-3 Community Road	16	5	63	107	--	125	130	82	90	115	178	24	-15	191	-121	137	140
MW-46WR	OU-3 Community Road	-181	-119	-110	-110	--	-83	-67	-82.5	-103	-203	-94	-189	-148	-119	-291	-157	-108
MW-70/70S	OU-3 Community Road	-154	-117	-118	-148	--	68	105	73.5	40	-66	-62	-130	-132	-119	-279	-16	-45
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2004					2005											
		Jun-04	Jul-04	Aug-04	Sep-04	Nov-04	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2006												2007				
		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
pH (SU)																		
IO-10	OU-3 Community Road	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
MW-34S	OU-3 Community Road	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
MW-34I	OU-3 Community Road	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
MW-34D	OU-3 Community Road	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
MW-46WR	OU-3 Community Road	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
MW-70/70S	OU-3 Community Road	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
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	0.444	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
MW-34S	OU-3 Community Road	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
MW-34I	OU-3 Community Road	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
MW-34D	OU-3 Community Road	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
MW-46WR	OU-3 Community Road	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
MW-70/70S	OU-3 Community Road	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
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	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
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
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
MW-34D	OU-3 Community Road	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
MW-46WR	OU-3 Community Road	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
MW-70/70S	OU-3 Community Road	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
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2006												2007				
		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
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature (degrees Celcius)																		
IO-10	OU-3 Community Road	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
MW-34S	OU-3 Community Road	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
MW-34I	OU-3 Community Road	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
MW-34D	OU-3 Community Road	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
MW-46WR	OU-3 Community Road	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
MW-70/70S	OU-3 Community Road	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
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	44	5	51	--	42	42	129	30	40	-12	74	64	73	95	-88	-5	22
MW-34S	OU-3 Community Road	-127	-107	-150	--	-162	-177	-125	-121	-144	-77	-173	-207	-97	-165	-219	-361	-289
MW-34I	OU-3 Community Road	-109	-92	-109	--	--	-177	-81	-120	-121	-37	-93	-126	-79	-336	-267	-334	-130
MW-34D	OU-3 Community Road	159	180	175	--	--	202	135	162	171	210	173	94	-42	-301	-278	-172	38
MW-46WR	OU-3 Community Road	-143	-100	-74	--	-219	-136	-93	-130	-115	-84	-82	-76	6	-23	-136	-102	-94
MW-70/70S	OU-3 Community Road	-88	-90	14	--	-12	42	89	-7	-19	13	15	69	55	40	-110	-14	14
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2006												2007				
		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
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2007								2008								
		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
pH (SU)																		
IO-10	OU-3 Community Road	5.43	5.75	5.83	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
MW-34S	OU-3 Community Road	6.04	5.92	5.94	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
MW-34I	OU-3 Community Road	6.18	6.16	6.06	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
MW-34D	OU-3 Community Road	5.97	5.98	5.90	5.86	5.98	5.21	5.98	6.02	5.83	5.76	6.23	5.82	5.90	5.79	5.79	--	5.82
MW-46WR	OU-3 Community Road	5.97	6.09	5.85	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
MW-70/70S	OU-3 Community Road	6.05	6.06	5.89	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
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	0.285	0.335	0.389	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
MW-34S	OU-3 Community Road	0.512	0.484	0.608	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
MW-34I	OU-3 Community Road	0.275	0.248	0.317	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
MW-34D	OU-3 Community Road	0.251	0.216	0.269	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
MW-46WR	OU-3 Community Road	0.474	0.511	0.562	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
MW-70/70S	OU-3 Community Road	0.358	0.395	0.422	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
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	3.0	26.0	28.0	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
MW-34S	OU-3 Community Road	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	--	0.0
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	0.6	1.0	0.0	0.0	0.0	--	0.0
MW-34D	OU-3 Community Road	0.0	0.0	0.0	0.0	2.0	0.0	0.6	0.4	0.4	0.0	0.8	1.0	0.0	0.0	0.0	--	0.0
MW-46WR	OU-3 Community Road	0.0	1.2	5.0	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
MW-70/70S	OU-3 Community Road	44.0	12.0	28.0	39.0	31.0	33.0	34.0	31.0	29.0	34.0	35.0	24.0	34.0	--	31.0	23.0	22.0
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2007							2008									
		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
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature (degrees Celcius)																		
IO-10	OU-3 Community Road	16.3	17.5	18.9	18.3	16.9	17.1	13.7	11.1	10.7	10.8	12.4	15.5	17.0	18.7	20.1	20.3	18.8
MW-34S	OU-3 Community Road	17.2	19.2	20.2	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
MW-34I	OU-3 Community Road	14.8	14.8	16.6	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
MW-34D	OU-3 Community Road	14.2	14.7	15.8	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
MW-46WR	OU-3 Community Road	20.4	22.9	23.8	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
MW-70/70S	OU-3 Community Road	16.4	19.2	20.0	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
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	-35	89	75	80	169	434	95	32	18	126	213	125	140	163	170	126	136
MW-34S	OU-3 Community Road	-297	-247	-234	-198	-101	-10	-177	-85	-71	-86	-91	-157	-198	-134	-123	--	-55
MW-34I	OU-3 Community Road	-130	-50	-126	-108	-65	-15	-171	-71	-41	-31	-3	-66	-142	-74	-38	--	-37
MW-34D	OU-3 Community Road	47	82	94	70	93	218	131	-4	1	220	233	209	-25	109	197	--	141
MW-46WR	OU-3 Community Road	-207	-136	-98	-79	43	71	-71	5	5	17	27	-6	-55	-25	-20	-23	-39
MW-70/70S	OU-3 Community Road	-34	18	29	-42	-18	385	-32	2	-10	28	11	-32	-20	--	-69	-33	-47
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2007							2008									
		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
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3

Summary of Groundwater Parameter Data

OU-3 Oxygen Injection System

Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2008		2009											2010			
		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
pH (SU)																		
IO-10	OU-3 Community Road	6.83	6.02	6.56	6.22	6.07	6.35	6.17	6.61	--	6.58	6.15	--	5.87	5.98	5.93	5.88	5.27
MW-34S	OU-3 Community Road	6.85	8.76	6.09	6.16	5.86	6.33	6.10	6.25	6.05	6.35	5.79	6.49	6.26	6.00	5.87	5.85	6.15
MW-34I	OU-3 Community Road	6.84	8.02	5.97	5.84	5.61	5.92	5.83	5.70	6.05	6.46	6.09	6.47	5.82	5.73	5.66	5.56	5.13
MW-34D	OU-3 Community Road	6.06	5.47	5.90	5.78	5.62	5.95	5.96	6.00	5.87	6.26	5.82	6.39	5.79	5.66	5.72	5.49	5.88
MW-46WR	OU-3 Community Road	7.33	6.91	5.78	5.88	5.48	5.66	5.79	5.81	5.64	5.87	5.60	--	6.00	5.49	5.36	5.34	5.53
MW-70/70S	OU-3 Community Road	6.53	7.34	5.90	5.82	5.74	--	5.96	5.92	--	6.10	5.74	--	5.88	5.88	5.72	5.67	5.16
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	5.89	--	5.85	--	--	5.65	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	5.90	--	5.97	--	--	5.84	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	5.82	--	--	7.46	--	--	5.73
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	9.84	--	--	7.09	--	--	5.66
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	9.69	--	6.24	--	--	6.01	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	8.30	--	5.88	--	--	5.54	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	5.84	--	5.95	--	--	5.96	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	6.66	--	--	--	--	6.35
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	5.97	--	--	--	--	5.18
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.60
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.26
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.86
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	0.392	0.448	0.341	0.310	0.297	0.313	0.346	0.312	--	0.326	0.288	--	0.406	0.298	0.278	0.302	0.419
MW-34S	OU-3 Community Road	0.441	0.397	3.720	2.060	1.100	1.360	0.802	0.892	0.698	0.810	0.696	0.738	0.671	0.753	1.000	1.130	0.805
MW-34I	OU-3 Community Road	0.417	0.458	0.346	0.340	0.326	0.401	0.835	0.644	0.327	0.296	0.325	0.276	0.383	0.289	0.296	0.293	0.484
MW-34D	OU-3 Community Road	0.281	0.271	0.290	0.305	0.331	0.405	0.466	0.520	0.411	0.398	0.419	0.404	0.528	0.354	0.335	0.342	0.374
MW-46WR	OU-3 Community Road	0.426	0.407	0.557	0.597	0.769	1.130	2.770	0.797	0.422	0.383	0.550	--	0.647	0.365	0.383	0.413	0.467
MW-70/70S	OU-3 Community Road	0.456	0.393	0.417	0.461	0.519	0.502	0.634	0.704	--	1.020	0.435	--	0.836	0.718	0.573	0.552	0.721
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	0.446	--	0.282	--	--	1.210	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	0.252	--	0.187	--	--	0.221	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	0.598	--	--	0.693	--	--	0.845
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	0.484	--	--	0.300	--	--	0.493
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	0.653	--	0.781	--	--	0.619	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	0.516	--	0.397	--	--	0.253	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	0.307	--	0.402	--	--	0.345	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	0.793	--	--	--	--	0.473
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	0.383	--	--	--	--	0.457
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.235
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.355
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.275
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	27.0	32.0	33.0	28.0	35.0	22.0	32.0	33.0	--	27.0	29.0	--	35.0	24.0	22.0	12.0	29.0
MW-34S	OU-3 Community Road	0.0	0.0	1.6	0.0	0.0	0.4	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	1.0
MW-34I	OU-3 Community Road	0.0	0.0	0.0	0.0	0.0	0.0	6.0	18.0	3.0	0.0	3.0	0.0	0.0	5.0	11.0	6.0	12.7
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	0.0	0.0	0.0	1.4
MW-46WR	OU-3 Community Road	21.0	24.0	26.0	23.0	24.0	24.0	20.0	13.0	17.0	12.0	20.0	--	17.0	16.0	23.0	12.0	21.0
MW-70/70S	OU-3 Community Road	28.0	29.0	32.0	35.0	32.0	36.0	39.0	29.0	--	13.8	28.0	--	23.0	25.0	25.0	21.0	23.0
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	20.0	--	26.0	--	--	20.0	--

Appendix E - Table E-3

Summary of Groundwater Parameter Data

OU-3 Oxygen Injection System

Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2008		2009												2010		
		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
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	0.0	--	0.0	--	--	0.0	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	0.9	--	--	0.0	--	--	0.0
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--	0.0
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	0.0	--	0.0	--	--	0.0	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	4.1	--	0.0	--	--	8.0	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	0.0	--	0.0	--	--	0.0	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	25.0	--	--	--	--	6.5
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	0.7	--	--	--	--	19.0
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.0
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.2
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.3
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature (degrees Celcius)																		
IO-10	OU-3 Community Road	16.8	13.6	11.9	11.9	12.9	11.6	13.6	16.4	--	19.3	19.4	--	15.6	--	14.1	11.5	11.1
MW-34S	OU-3 Community Road	17.0	10.0	7.0	7.6	8.3	10.2	13.8	17.0	19.2	21.0	20.2	16.6	11.5	8.9	8.9	7.1	10.5
MW-34I	OU-3 Community Road	17.8	13.8	12.7	12.0	12.0	11.2	12.0	15.0	16.8	16.9	17.3	16.3	14.0	11.1	13.8	11.5	10.8
MW-34D	OU-3 Community Road	16.5	13.9	13.8	13.3	13.1	12.6	13.1	14.7	15.3	16.2	16.4	15.2	13.6	11.4	14.3	12.7	12.6
MW-46WR	OU-3 Community Road	16.9	10.9	8.5	8.8	11.0	12.3	16.1	20.3	23.3	24.7	22.3	--	14.2	10.5	5.6	7.3	11.5
MW-70/70S	OU-3 Community Road	16.7	11.5	6.7	8.8	10.1	9.9	12.8	16.2	--	20.1	21.5	--	13.5	10.2	3.4	6.8	10.7
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	19.2	--	14.2	--	--	8.2	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	16.0	--	14.5	--	--	11.0	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	19.3	--	--	12.1	--	--	9.3
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	17.1	--	--	7.5	--	--	10.6
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	18.9	--	12.5	--	--	8.3	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	16.7	--	12.9	--	--	11.9	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	14.8	--	2.4	--	--	12.6	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	18.3	--	--	--	--	10.4
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	18.4	--	--	--	--	11.3
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9.7
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	11.1
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.0
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	130	96	43	104	73	159	90	107	--	85	157	--	227	--	218	206	145
MW-34S	OU-3 Community Road	-124	-122	-108	-72	-84	-105	-150	-105	-102	-238	-75	-138	-112	-96	-118	-29	5
MW-34I	OU-3 Community Road	-39	-61	-49	60	50	26	167	175	225	-213	183	-81	209	208	170	220	186
MW-34D	OU-3 Community Road	193	167	-23	113	70	140	185	135	261	-234	197	-76	201	210	129	193	190
MW-46WR	OU-3 Community Road	-38	-18	11	59	58	38	-11	-27	8	-71	-7	--	-18	26	88	43	66
MW-70/70S	OU-3 Community Road	-42	-42	-6	51	-28	-39	-29	-32	--	-78	-8	--	36	68	44	37	71
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	137	--	401	--	--	183	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	113	--	186	--	--	99	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	-60	--	--	1	--	--	-36
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	-117	--	--	30	--	--	-6
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	-142	--	-140	--	--	-33	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	-63	--	-89	--	--	38	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	122	--	111	--	--	206	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2008		2009												2010		
		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
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	90	--	--	--	--	109
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	89	--	--	--	--	136
OU3MW-07S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-139
OU3MW-07I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	-56
OU3MW-07I2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	18
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3

Summary of Groundwater Parameter Data

OU-3 Oxygen Injection System

Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2010										2011							
		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	
pH (SU)																			
IO-10	OU-3 Community Road	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	
MW-34S	OU-3 Community Road	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	
MW-34I	OU-3 Community Road	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	
MW-34D	OU-3 Community Road	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	
MW-46WR	OU-3 Community Road	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	
MW-70/70S	OU-3 Community Road	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	
OU3MW-02S	OU-3 Community Road	--	5.81	--	5.72	--	--	--	--	5.98	--	--	5.92	--	5.05	5.54	5.71	6.19	
OU3MW-02I	OU-3 Community Road	--	6.08	--	5.70	--	--	--	--	5.32	--	--	5.65	--	5.10	5.02	5.74	5.93	
OU3MW-03S	OU-3 Community Road	5.64	--	--	5.97	--	--	--	--	7.26	--	--	5.34	--	5.50	7.64	6.18	6.52	
OU3MW-03I	OU-3 Community Road	5.89	--	--	6.12	--	--	--	--	5.39	--	--	4.84	--	4.90	5.74	5.97	6.40	
OU3MW-04S	OU-3 Community Road	5.78	--	--	5.79	--	--	--	--	6.64	--	--	5.64	--	5.24	7.41	6.02	6.39	
OU3MW-04I	OU-3 Community Road	5.86	--	--	6.07	--	--	--	--	6.47	--	--	5.08	--	5.05	5.70	5.64	6.08	
OU3MW-04D	OU-3 Community Road	5.74	--	--	5.71	--	--	--	--	6.51	--	--	5.17	--	5.14	5.61	5.79	6.12	
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-05S	OU-3 Community Road	--	--	5.71	--	--	6.21	--	--	5.59	--	--	5.58	--	--	6.84	6.19	6.63	
OU3MW-05I	OU-3 Community Road	--	--	5.18	--	--	5.69	--	--	5.47	--	--	4.98	--	--	5.72	5.62	5.78	
OU3MW-07S	OU-3 Community Road	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	
OU3MW-07I	OU-3 Community Road	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	
OU3MW-07I2	OU-3 Community Road	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	
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	0.495	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	
MW-34S	OU-3 Community Road	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	
MW-34I	OU-3 Community Road	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	
MW-34D	OU-3 Community Road	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	
MW-46WR	OU-3 Community Road	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	
MW-70/70S	OU-3 Community Road	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	
OU3MW-02S	OU-3 Community Road	--	0.536	--	0.274	--	--	--	--	0.453	--	--	0.818	--	0.597	0.391	1.230	0.501	
OU3MW-02I	OU-3 Community Road	--	0.191	--	0.141	--	--	--	--	0.250	--	--	0.358	--	0.200	0.340	0.332	0.264	
OU3MW-03S	OU-3 Community Road	0.820	--	--	0.520	--	--	--	--	0.413	--	--	0.998	--	0.359	0.535	0.685	0.620	
OU3MW-03I	OU-3 Community Road	0.310	--	--	0.420	--	--	--	--	0.380	--	--	0.335	--	0.000	0.526	0.522	0.412	
OU3MW-04S	OU-3 Community Road	0.403	--	--	0.395	--	--	--	--	0.526	--	--	1.38	--	0.821	0.659	0.867	0.718	
OU3MW-04I	OU-3 Community Road	0.256	--	--	0.448	--	--	--	--	0.343	--	--	0.488	--	0.226	0.385	0.541	0.681	
OU3MW-04D	OU-3 Community Road	0.750	--	--	0.300	--	--	--	--	0.333	--	--	0.517	--	0.185	0.278	0.333	0.266	
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-05S	OU-3 Community Road	--	--	0.425	--	--	0.548	--	--	0.538	--	--	0.700	--	--	0.640	0.990	0.389	
OU3MW-05I	OU-3 Community Road	--	--	0.342	--	--	0.363	--	--	0.286	--	--	0.464	--	--	0.382	0.677	0.480	
OU3MW-07S	OU-3 Community Road	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	
OU3MW-07I	OU-3 Community Road	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	
OU3MW-07I2	OU-3 Community Road	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	
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	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	
MW-34S	OU-3 Community Road	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	
MW-34I	OU-3 Community Road	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	
MW-34D	OU-3 Community Road	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	
MW-46WR	OU-3 Community Road	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	
MW-70/70S	OU-3 Community Road	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	
OU3MW-02S	OU-3 Community Road	--	29.0	--	28.0	--	--	--	--	25.0	--	--	23.0	--	18.5	20.0	24.0	24.0	

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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2010										2011							
		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	
OU3MW-02I	OU-3 Community Road	--	26.0	--	19.0	--	--	--	--	20.0	--	--	21.0	--	42.0	40.0	31.0	18.2	
OU3MW-03S	OU-3 Community Road	0.6	--	--	3.7	--	--	--	--	0.0	--	--	0.0	--	0.0	0.0	0.0	0.4	
OU3MW-03I	OU-3 Community Road	3.8	--	--	2.0	--	--	--	--	0.0	--	--	5.1	--	11.0	0.0	0.0	0.4	
OU3MW-04S	OU-3 Community Road	0.0	--	--	1.5	--	--	--	--	0.0	--	--	0.0	--	9.7	0.0	0.0	0.4	
OU3MW-04I	OU-3 Community Road	0.0	--	--	1.3	--	--	--	--	8.8	--	--	26.0	--	2.2	0.0	0.0	0.1	
OU3MW-04D	OU-3 Community Road	0.0	--	--	1.9	--	--	--	--	0.0	--	--	0.0	--	0.0	0.0	0.0	0.0	
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-05S	OU-3 Community Road	--	--	12.7	--	--	4.9	--	--	0.0	--	--	0.8	--	--	0.0	0.0	1.7	
OU3MW-05I	OU-3 Community Road	--	--	0.0	--	--	21.0	--	--	15.4	--	--	14.3	--	--	0.0	1.8	10.6	
OU3MW-07S	OU-3 Community Road	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	
OU3MW-07I	OU-3 Community Road	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	
OU3MW-07I2	OU-3 Community Road	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	
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Temperature (degrees Celcius)																			
IO-10	OU-3 Community Road	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	
MW-34S	OU-3 Community Road	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	
MW-34I	OU-3 Community Road	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	
MW-34D	OU-3 Community Road	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	
MW-46WR	OU-3 Community Road	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	
MW-70/70S	OU-3 Community Road	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	
OU3MW-02S	OU-3 Community Road	--	5.2	--	21.8	--	--	--	--	11.5	--	--	9.2	--	13.0	18.4	21.8	22.0	
OU3MW-02I	OU-3 Community Road	--	13.1	--	17.9	--	--	--	--	12.2	--	--	11.3	--	12.0	15.0	17.1	18.2	
OU3MW-03S	OU-3 Community Road	13.2	--	--	20.4	--	--	--	--	12.0	--	--	9.1	--	13.7	18.6	20.1	21.6	
OU3MW-03I	OU-3 Community Road	13.1	--	--	17.8	--	--	--	--	14.5	--	--	13.5	--	16.6	16.4	16.6	18.8	
OU3MW-04S	OU-3 Community Road	12.7	--	--	21.2	--	--	--	--	13.5	--	--	9.4	--	12.3	17.7	19.7	21.4	
OU3MW-04I	OU-3 Community Road	12.6	--	--	17.3	--	--	--	--	15.0	--	--	12.1	--	17.1	15.2	16.6	18.1	
OU3MW-04D	OU-3 Community Road	13.5	--	--	18.1	--	--	--	--	13.5	--	--	13.6	--	14.9	16.3	16.7	17.2	
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-05S	OU-3 Community Road	--	--	18.2	--	--	20.5	--	--	8.2	--	--	8.6	--	--	18.6	20.2	20.2	
OU3MW-05I	OU-3 Community Road	--	--	17.0	--	--	18.1	--	--	12.0	--	--	10.9	--	--	15.4	16.4	16.0	
OU3MW-07S	OU-3 Community Road	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	
OU3MW-07I	OU-3 Community Road	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	
OU3MW-07I2	OU-3 Community Road	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	
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	57	92	68	225	164	220	217	85	53	--	-123	-160	-121	-101	-117	-129	-146	
MW-34S	OU-3 Community Road	-88	-96	-172	-147	-122	3	-59	-120	-20	-68	-66	52	-103	-19	-138	-104	-71	
MW-34I	OU-3 Community Road	81	121	-24	200	177	217	207	100	180	58	67	-78	-117	220	-90	-89	-99	
MW-34D	OU-3 Community Road	47	84	-47	221	208	220	219	96	98	94	181	259	118	-145	118	115	73	
MW-46WR	OU-3 Community Road	-37	-75	-71	-118	-116	-106	-110	-47	-62	--	-130	-93	-190	-100	-170	-169	-147	
MW-70/70S	OU-3 Community Road	-40	29	-88	-31	-62	-7	-45	-74	-74	-151	-98	-34	-144	-107	-177	-145	-137	
OU3MW-02S	OU-3 Community Road	--	210	--	239	--	--	--	--	136	--	--	91	--	136	168	125	99	
OU3MW-02I	OU-3 Community Road	--	210	--	260	--	--	--	--	214	--	--	168	--	230	220	161	117	
OU3MW-03S	OU-3 Community Road	-30	--	--	-51	--	--	--	--	35	--	--	46	--	20	-137	-108	-76	
OU3MW-03I	OU-3 Community Road	-45	--	--	-113	--	--	--	--	33	--	--	116	--	35	-130	-139	-134	
OU3MW-04S	OU-3 Community Road	-55	--	--	-100	--	--	--	--	-135	--	--	48	--	-10	-95	-79	-30	
OU3MW-04I	OU-3 Community Road	-34	--	--	-119	--	--	--	--	-9	--	--	149	--	114	-45	18	-24	
OU3MW-04D	OU-3 Community Road	213	--	--	216	--	--	--	--	182	--	--	165	--	130	102	125	139	
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2010										2011							
		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	
OU3MW-05S	OU-3 Community Road	--	--	114	--	--	131	--	--	147	--	--	141	--	--	-6	32	71	
OU3MW-05I	OU-3 Community Road	--	--	100	--	--	115	--	--	164	--	--	210	--	--	30	60	96	
OU3MW-07S	OU-3 Community Road	-107	-109	-40	-66	-121	-5	11	53	69	50	-18	8	134	77	-48	27	51	
OU3MW-07I	OU-3 Community Road	43	190	148	198	172	165	193	172	220	158	102	-35	97	84	64	65	71	
OU3MW-07I2	OU-3 Community Road	42	152	133	142	129	134	192	81	93	131	58	-58	-20	-38	-77	-39	-51	
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2011				2012											
		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)																	
IO-10	OU-3 Community Road	6.23	7.02	6.85	6.68	7.18	6.86	6.60	6.61	6.66	6.23	--	6.10	5.89	6.14	5.17	5.99
MW-34S	OU-3 Community Road	5.72	6.55	6.47	6.21	6.62	6.72	6.22	6.39	6.25	6.21	6.11	6.47	6.56	6.02	4.42	5.93
MW-34I	OU-3 Community Road	8.50	6.87	6.76	6.58	6.93	6.91	6.58	6.56	6.51	6.54	6.28	6.42	6.09	6.38	4.46	5.88
MW-34D	OU-3 Community Road	6.47	6.14	6.03	5.80	6.18	6.12	5.58	5.95	6.05	6.05	6.06	6.24	7.05	6.17	4.05	5.92
MW-46WR	OU-3 Community Road	5.74	6.28	6.12	5.91	6.70	6.64	6.03	6.31	6.13	5.94	5.84	6.09	6.99	5.88	5.84	5.82
MW-70/70S	OU-3 Community Road	5.87	5.71	6.41	6.24	6.92	6.61	6.19	6.48	6.37	6.30	6.22	6.37	7.49	6.02	6.08	5.92
OU3MW-02S	OU-3 Community Road	5.55	5.40	--	--	5.96	--	--	5.95	--	--	5.96	--	--	5.87	--	--
OU3MW-02I	OU-3 Community Road	5.49	5.25	--	--	5.09	--	--	4.91	--	--	5.79	--	--	5.85	--	--
OU3MW-03S	OU-3 Community Road	7.40	5.90	6.65	6.38	6.36	--	--	5.65	6.39	6.33	6.30	6.32	7.66	6.32	--	--
OU3MW-03I	OU-3 Community Road	7.42	5.76	6.35	6.24	5.57	--	--	5.84	6.14	6.08	6.21	6.39	7.53	6.07	5.98	5.70
OU3MW-04S	OU-3 Community Road	7.16	5.66	6.32	6.17	5.47	6.36	--	6.48	--	--	5.92	--	--	6.08	--	--
OU3MW-04I	OU-3 Community Road	5.47	5.37	5.92	5.79	5.29	6.06	--	6.51	6.29	6.19	5.68	--	--	6.04	--	--
OU3MW-04D	OU-3 Community Road	5.33	5.25	5.92	5.95	5.29	6.05	--	6.33	6.18	6.07	5.86	5.73	6.87	6.38	5.94	6.11
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	6.29	--	6.38	--	--	6.30	--	6.26	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	6.35	--	3.13	--	--	5.04	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	5.83	--	6.49	--	6.31	--	--	6.25	--	--	6.33	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	5.06	--	5.14	--	5.81	--	--	5.94	--	--	5.96	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	5.05	5.87	5.84	5.71	5.88	5.78	5.08	5.83	5.94	--	5.64	5.81	5.95	--	--	--
OU3MW-07I	OU-3 Community Road	6.65	6.53	6.55	6.53	6.38	6.22	5.73	6.45	6.03	6.31	6.41	6.20	5.80	--	--	--
OU3MW-07I2	OU-3 Community Road	7.47	6.99	6.73	6.71	6.93	6.84	6.41	6.51	6.60	6.17	6.35	5.85	6.03	--	--	--
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	6.92	--	6.85	6.49	5.85	6.55	5.83	6.06	--	--	--
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	6.39	--	6.11	--	--	5.87	--	--	--	--	--
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	0.510	0.421	0.424	0.496	0.432	0.485	0.417	0.485	0.510	0.459	--	0.360	0.342	1.170	1.070	0.525
MW-34S	OU-3 Community Road	1.100	0.808	0.484	0.444	0.394	0.411	0.595	0.642	0.472	0.508	0.558	0.442	0.289	0.613	1.370	0.681
MW-34I	OU-3 Community Road	0.450	0.375	0.385	0.416	0.425	0.428	0.362	0.441	0.470	0.472	0.497	0.368	0.341	0.405	0.936	0.442
MW-34D	OU-3 Community Road	0.380	0.299	0.323	0.330	0.298	0.317	0.302	0.336	0.340	0.320	0.363	0.306	0.306	0.495	0.867	0.431
MW-46WR	OU-3 Community Road	0.869	0.570	0.417	0.401	0.695	0.093	0.619	0.667	0.700	0.588	0.452	0.461	0.447	0.652	0.669	0.700
MW-70/70S	OU-3 Community Road	0.501	0.571	0.388	0.345	0.374	0.385	0.374	0.422	0.425	0.410	0.403	0.427	0.464	1.550	0.618	0.658
OU3MW-02S	OU-3 Community Road	0.405	0.500	--	--	0.343	--	--	0.436	--	--	0.293	--	--	0.293	--	--
OU3MW-02I	OU-3 Community Road	0.337	0.321	--	--	0.199	--	--	0.158	--	--	0.185	--	--	0.188	--	--
OU3MW-03S	OU-3 Community Road	0.785	0.951	0.640	0.699	0.714	--	--	0.649	0.452	0.516	0.503	0.283	0.443	0.617	--	--
OU3MW-03I	OU-3 Community Road	0.462	0.610	0.445	0.492	0.517	--	--	0.386	0.380	0.401	0.450	0.411	0.405	0.473	0.430	0.473
OU3MW-04S	OU-3 Community Road	0.672	0.861	0.834	0.678	0.813	0.780	--	0.732	--	--	0.552	--	--	0.754	--	--
OU3MW-04I	OU-3 Community Road	1.080	1.200	0.386	0.366	0.453	0.408	--	0.443	0.417	0.413	0.540	--	--	0.414	--	--
OU3MW-04D	OU-3 Community Road	0.363	0.434	0.353	0.353	0.410	0.324	--	0.305	0.287	0.289	0.900	0.299	0.309	0.377	0.367	0.389
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	0.366	--	0.332	--	--	0.946	--	0.278	0.362	0.388	0.430
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	0.346	--	0.350	--	--	0.478	--	--	0.344	--	--
OU3MW-05S	OU-3 Community Road	0.924	--	0.543	--	0.562	--	--	0.587	--	--	0.627	--	--	0.532	--	--
OU3MW-05I	OU-3 Community Road	0.576	--	0.701	--	0.346	--	--	0.401	--	--	0.365	--	--	0.301	--	--
OU3MW-07S	OU-3 Community Road	0.423	0.319	0.343	0.341	0.353	0.358	0.439	0.322	0.342	--	0.327	0.276	0.348	0.339	0.353	0.346
OU3MW-07I	OU-3 Community Road	0.347	0.350	0.394	0.414	0.376	0.416	0.531	0.373	0.371	0.370	0.406	0.347	0.350	0.457	0.449	0.467
OU3MW-07I2	OU-3 Community Road	0.397	0.391	0.436	0.451	0.456	0.447	0.414	0.387	0.383	0.410	0.322	0.292	0.299	0.445	0.466	0.401
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	0.439	--	0.363	0.319	0.369	0.315	0.260	0.348	0.347	0.368	0.360
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	0.352	--	0.365	--	--	0.313	--	--	0.359	--	--
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	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	31.0	28.0	31.8	1.0	1.3
MW-34S	OU-3 Community Road	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.0	0.7
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	4.9	0.0	24.0	32.0	5.9	0.6
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	7.9	1.0	0.0
MW-46WR	OU-3 Community Road	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.6	0.0
MW-70/70S	OU-3 Community Road	2.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.6	1.1
OU3MW-02S	OU-3 Community Road	30.0	24.0	--	--	23.0	--	--	28.0	--	--	25.0	--	--	14.2	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2011				2012											
		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
OU3MW-02I	OU-3 Community Road	39.0	28.0	--	--	30.0	--	--	32.0	--	--	16.6	--	--	17.0	--	--
OU3MW-03S	OU-3 Community Road	0.4	2.1	2.4	3.2	0.0	--	--	0.8	0.0	0.0	0.0	0.0	0.0	0.0	--	--
OU3MW-03I	OU-3 Community Road	0.3	2.1	2.4	3.2	2.4	--	--	5.3	0.0	0.0	2.9	0.0	0.0	0.5	0.0	3.2
OU3MW-04S	OU-3 Community Road	0.7	2.2	2.5	3.0	2.6	0.0	--	0.0	--	--	0.0	--	--	0.6	--	--
OU3MW-04I	OU-3 Community Road	2.6	2.6	9.6	14.6	16.5	20.0	--	24.0	24.0	24.0	24.0	--	--	32.0	--	--
OU3MW-04D	OU-3 Community Road	2.4	1.7	2.1	2.8	2.4	0.0	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.1
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	0.0	--	0.0	--	--	0.0	--	0.0	0.5	1.6	1.2
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	0.0	--	0.5	--	--	0.4	--	--	0.4	--	--
OU3MW-05S	OU-3 Community Road	1.9	--	3.9	--	0.1	--	--	0.0	--	--	2.3	--	--	0.0	--	--
OU3MW-05I	OU-3 Community Road	6.5	--	4.8	--	20.0	--	--	23.0	--	--	0.0	--	--	7.7	--	--
OU3MW-07S	OU-3 Community Road	11.0	10.0	8.6	10.0	11.0	20.0	20.0	22.0	29.0	--	24.0	20.0	21.0	21.0	22.0	25.0
OU3MW-07I	OU-3 Community Road	26.0	27.0	23.0	21.0	23.0	20.0	34.0	30.0	18.0	30.0	14.5	35.0	34.0	--	38.0	32.0
OU3MW-07I2	OU-3 Community Road	2.0	2.0	2.0	4.0	5.0	5.2	4.0	12.0	33.0	28.0	33.0	25.0	20.0	--	41.0	32.0
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	0.0	--	9.3	28.0	19.0	23.0	23.0	22.0	--	32.0	29.0
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	0.0	--	0.0	--	--	0.0	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature (degrees Celcius)																	
IO-10	OU-3 Community Road	19.2	18.7	17.3	14.7	12.4	12.2	13.2	14.7	16.0	17.4	--	19.10	20.10	20.1	17.0	15.5
MW-34S	OU-3 Community Road	20.1	19.5	17.1	13.8	10.6	10.5	12.7	14.9	16.4	17.6	20.35	20.40	21.90	20.3	16.9	14.1
MW-34I	OU-3 Community Road	17.5	17.4	17.3	15.4	13.4	13.2	13.5	14.4	15.2	16.0	16.32	17.20	17.30	19.2	17.6	15.8
MW-34D	OU-3 Community Road	15.8	16.2	15.8	14.9	13.7	13.5	13.7	15.2	16.3	16.0	16.20	15.60	16.30	16.0	15.3	15.2
MW-46WR	OU-3 Community Road	22.5	21.4	16.9	13.3	10.2	10.8	14.0	17.1	18.8	22.5	25.00	24.70	24.70	18.8	15.7	11.4
MW-70/70S	OU-3 Community Road	20.8	19.4	17.1	13.1	10.2	10.8	12.3	14.9	16.5	18.2	20.10	20.90	22.30	21.2	15.3	13.8
OU3MW-02S	OU-3 Community Road	19.5	18.4	--	--	9.6	--	--	11.7	--	--	21.11	--	--	17.9	--	--
OU3MW-02I	OU-3 Community Road	16.3	16.1	--	--	12.8	--	--	12.2	--	--	16.84	--	--	16.6	--	--
OU3MW-03S	OU-3 Community Road	14.3	20.0	16.0	13.1	11.2	--	--	13.2	16.0	18.3	22.53	22.00	21.60	20.4	--	--
OU3MW-03I	OU-3 Community Road	16.7	18.0	16.6	15.1	13.8	--	--	12.3	15.8	16.7	17.30	18.50	19.20	18.1	16.2	14.4
OU3MW-04S	OU-3 Community Road	19.7	18.8	15.6	13.6	11.7	10.0	--	12.1	--	--	20.40	--	--	19.3	--	--
OU3MW-04I	OU-3 Community Road	17.1	16.6	16.2	14.4	14.1	12.5	--	13.0	15.6	16.6	17.51	--	--	17.6	--	--
OU3MW-04D	OU-3 Community Road	15.1	15.6	15.6	14.4	13.3	13.9	--	13.7	16.1	17.3	17.80	16.70	17.20	16.6	14.3	14.5
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	13.8	--	13.5	--	--	17.37	--	16.10	15.4	13.7	14.2
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	13.5	--	13.6	--	--	20.17	--	--	14.8	--	--
OU3MW-05S	OU-3 Community Road	19.2	--	13.1	--	11.9	--	--	14.3	--	--	23.00	--	--	18.2	--	--
OU3MW-05I	OU-3 Community Road	16.4	--	13.9	--	14.5	--	--	15.3	--	--	20.56	--	--	17.3	--	--
OU3MW-07S	OU-3 Community Road	19.1	19.8	14.9	13.9	10.4	9.8	11.5	15.9	18.2	--	21.71	21.50	20.13	19.7	14.8	10.6
OU3MW-07I	OU-3 Community Road	16.5	17.9	15.0	14.6	12.6	11.9	12.6	15.3	16.7	17.7	18.68	19.30	18.70	19.9	14.4	15.2
OU3MW-07I2	OU-3 Community Road	15.2	16.5	14.6	14.2	12.3	12.3	13.6	15.4	17.1	20.6	18.59	17.70	19.20	18.2	14.6	12.7
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	12.1	--	12.7	16.5	19.3	18.13	17.80	16.19	17.2	14.4	11.7
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	12.4	--	12.5	--	--	18.81	--	--	16.5	--	--
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	-110	-152	-144	-137	-111	-102	-98	-108	-120	-86	--	106	166	119	249	248
MW-34S	OU-3 Community Road	-84	40	35	36	-53	-79	-88	-57	15	-126	-67	-163	23	-85	371	7
MW-34I	OU-3 Community Road	-94	-116	-109	-124	-85	-71	-93	-88	-121	-127	-61	-103	75	120	382	123
MW-34D	OU-3 Community Road	52	-126	-119	-96	45	44	-57	1	-3	-35	39	-86	-79	-91	175	93
MW-46WR	OU-3 Community Road	-100	-231	-188	-116	-107	-91	-161	-94	-89	-173	-184	-182	-172	-104	-11	0
MW-70/70S	OU-3 Community Road	-110	-113	-163	-124	-107	-79	-125	-88	-107	-181	-204	-205	-191	-65	-29	31
OU3MW-02S	OU-3 Community Road	153	270	--	--	209	--	--	213	--	--	225	--	--	181	--	--
OU3MW-02I	OU-3 Community Road	194	178	--	--	348	--	--	248	--	--	377	--	--	293	--	--
OU3MW-03S	OU-3 Community Road	-142	-81	-136	-126	-99	--	--	-19	-69	-159	-118	-153	-141	-91	--	--
OU3MW-03I	OU-3 Community Road	-153	-72	-124	-96	-57	--	--	-34	-70	-208	-62	-196	-161	-56	-42	320
OU3MW-04S	OU-3 Community Road	-107	95	46	44	34	-40	--	-51	--	--	-230	--	--	-45	--	--
OU3MW-04I	OU-3 Community Road	15	2	-11	31	131	70	--	158	67	68	129	--	--	118	--	--
OU3MW-04D	OU-3 Community Road	92	18	-133	-57	121	65	--	27	97	42	-50	-8	-43	36	236	266
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	28	--	64	--	--	107	--	41	82	273	290
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	2	--	125	--	--	17	--	--	175	--	--

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Summary of Groundwater Parameter Data
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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2011				2012											
		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
OU3MW-05S	OU-3 Community Road	47	--	167	--	106	--	--	44	--	--	18	--	--	39	--	--
OU3MW-05I	OU-3 Community Road	143	--	126	--	164	--	--	128	--	--	110	--	--	114	--	--
OU3MW-07S	OU-3 Community Road	64	-76	-70	-74	23	62	232	101	23	--	105	-17	54	46	402	108
OU3MW-07I	OU-3 Community Road	67	30	-2	7	183	160	308	211	256	175	222	150	158	--	436	445
OU3MW-07I2	OU-3 Community Road	-72	77	106	121	-42	-35	-26	24	67	228	208	162	158	--	446	231
OU3MW-07I3	OU-3 Community Road	--	--	--	--	--	-47	--	49	179	187	172	163	206	--	445	209
OU3MW-07I4	OU-3 Community Road	--	--	--	--	--	-22	--	139	--	--	190	--	--	--	--	--
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3

Summary of Groundwater Parameter Data

OU-3 Oxygen Injection System

Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2013												2014				
		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	6.11	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	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	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	5.86	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	5.77	6.48	5.78	5.48	5.69	5.46	5.67	--	5.58	5.69	5.35	5.51	5.42	5.54	6.07	5.71	5.53
MW-70/70S	OU-3 Community Road	5.82	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	5.58	--	6.22	--	--	--	--	--	--	--	--	5.49	--	--	6.46	5.62	--
OU3MW-02I	OU-3 Community Road	5.73	--	6.11	--	--	--	--	--	--	--	--	5.40	--	--	5.97	5.71	--
OU3MW-03S	OU-3 Community Road	--	--	6.28	6.38	--	6.12	5.98	6.12	6.02	--	--	5.69	--	--	6.06	5.81	--
OU3MW-03I	OU-3 Community Road	5.69	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	5.77	--	6.20	--	--	5.94	5.90	6.18	--	--	--	5.62	--	5.65	--	5.84	--
OU3MW-04I	OU-3 Community Road	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	6.08	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	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	--	--	5.87	--	--	--	--	--	--	--	--	5.65	--	6.78	--	5.84	--
OU3MW-05S	OU-3 Community Road	--	6.38	6.61	6.16	--	5.86	6.06	--	--	--	5.57	--	--	--	5.80	6.20	--
OU3MW-05I	OU-3 Community Road	--	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	5.62	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	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	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	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	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	0.493	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	0.605	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	0.383	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	0.329	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	0.670	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	0.510	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	0.343	--	0.504	--	--	--	--	--	--	--	--	0.730	--	--	0.519	0.748	--
OU3MW-02I	OU-3 Community Road	0.180	--	0.219	--	--	--	--	--	--	--	--	0.324	--	--	0.270	0.223	--
OU3MW-03S	OU-3 Community Road	--	--	0.536	0.526	--	0.600	0.605	0.556	0.476	--	--	0.593	--	--	0.537	0.687	--
OU3MW-03I	OU-3 Community Road	0.352	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	0.467	--	0.541	--	--	0.475	0.498	0.482	--	--	--	0.913	--	1.050	--	0.548	--
OU3MW-04I	OU-3 Community Road	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	0.324	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	0.350	0.404	0.354	0.335	0.382	0.324	--	0.328	--	--	--	0.595	--	0.340	--	0.321	--
OU3MW-04D3	OU-3 Community Road	--	--	0.371	--	--	--	--	--	--	--	--	0.586	--	0.363	--	0.388	--
OU3MW-05S	OU-3 Community Road	--	0.387	0.402	0.429	--	0.404	0.448	--	--	--	1.010	--	--	--	0.396	0.329	--
OU3MW-05I	OU-3 Community Road	--	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	--	0.348	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	0.365	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	0.364	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	0.345	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	0.304	--	--	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	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	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	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	0.9	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	0.0	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	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	31.0	--	31.0	--	--	--	--	--	--	--	--	22.0	--	--	14.9	25.0	--

Appendix E - Table E-3

Summary of Groundwater Parameter Data

OU-3 Oxygen Injection System

Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2013												2014				
		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-02I	OU-3 Community Road	25.0	--	40.0	--	--	--	--	--	--	--	--	17.0	--	--	32.0	17.0	--
OU3MW-03S	OU-3 Community Road	--	--	8.7	0.6	--	1.0	0.5	2.4	1.0	--	--	1.2	--	--	1.4	6.6	--
OU3MW-03I	OU-3 Community Road	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	1.8	--	5.3	--	--	0.4	0.4	4.9	--	--	--	1.4	--	1.1	--	1.4	--
OU3MW-04I	OU-3 Community Road	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	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	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	--	--	0.6	--	--	--	--	--	--	--	--	0.3	--	3.7	--	0.3	--
OU3MW-05S	OU-3 Community Road	--	7.0	14.0	2.4	--	0.9	0.9	--	--	--	0.5	--	--	--	4.4	7.6	--
OU3MW-05I	OU-3 Community Road	--	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	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	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	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	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	--	--	--	--	--	--	--	0.9	0.4	--	--	--	2.1
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	2.0	0.0	0.0	0.0	0.0	3.0	1.0	1.0	0.0
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	4.0	0.0	0.0	0.0	0.8	9.0	12.0	12.0	15.0
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	2.0	0.0	0.0	0.6	12.0	7.0	9.0	22.0	8.0
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	15.0	22.0	22.0	29.0	37.0	30.0	24.0	27.0	22.0
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	2.0	0.0	0.0	0.6	13.0	27.0	30.0	22.0	42.0
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	2.0	0.0	0.0	0.0	4.0	2.0	9.0	12.0	16.0
Temperature (degrees Celcius)																		
IO-10	OU-3 Community Road	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	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	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	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	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	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	10.1	--	8.8	--	--	--	--	--	--	--	--	11.2	--	--	9.0	10.3	--
OU3MW-02I	OU-3 Community Road	12.7	--	11.4	--	--	--	--	--	--	--	--	13.5	--	--	9.4	10.0	--
OU3MW-03S	OU-3 Community Road	--	--	8.7	--	--	18.1	20.5	20.3	21.7	--	--	14.1	--	--	6.3	8.4	--
OU3MW-03I	OU-3 Community Road	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	9.7	--	9.2	--	--	17.0	18.8	21.3	--	--	--	12.1	--	--	8.0	--	--
OU3MW-04I	OU-3 Community Road	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	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	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	--	--	15.6	--	--	--	--	--	--	--	--	12.7	--	13.3	--	12.9	--
OU3MW-05S	OU-3 Community Road	--	7.6	7.1	13.2	--	15.8	20.9	--	--	--	16.4	--	--	--	5.7	10.4	--
OU3MW-05I	OU-3 Community Road	--	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	--	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	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	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	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	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	168	202	220	172	185	159	151	--	58	81	36	13	53	119	211	207	169
MW-34S	OU-3 Community Road	-25	-25	-14	-15	--	-57	-107	-25	-8	-21	-40	150	76	-39	-26	-25	-50
MW-34I	OU-3 Community Road	137	200	187	136	148	143	96	194	107	154	140	177	112	185	197	184	205
MW-34D	OU-3 Community Road	66	54	42	30	25	36	56	82	87	70	13	93	100	17	12	13	15
MW-46WR	OU-3 Community Road	-8	-45	-12	-22	-60	-41	9	--	5	-17	-14	57	27	27	-62	-30	-22
MW-70/70S	OU-3 Community Road	-33	1	-40	-93	-51	-81	-123	--	-15	4	-35	-20	-17	-15	-100	-32	-110
OU3MW-02S	OU-3 Community Road	184	--	151	--	--	--	--	--	--	--	--	151	--	--	195	145	--
OU3MW-02I	OU-3 Community Road	215	--	226	--	--	--	--	--	--	--	--	193	--	--	125	245	--
OU3MW-03S	OU-3 Community Road	--	--	-54	-65	--	-110	-148	-78	-12	--	--	-17	--	--	-24	8	--
OU3MW-03I	OU-3 Community Road	18	-10	19	25	-21	-66	--	-8	79	21	16	--	-10	95	-89	-12	--
OU3MW-04S	OU-3 Community Road	15	--	-20	--	--	-26	-88	2	--	--	--	-13	--	19	--	-15	--
OU3MW-04I	OU-3 Community Road	130	--	119	--	--	161	143	168	186	216	--	150	--	120	--	196	--
OU3MW-04D	OU-3 Community Road	88	82	137	132	111	158	121	135	217	199	--	168	--	124	--	222	--
OU3MW-04D2	OU-3 Community Road	125	134	61	112	87	121	--	113	--	--	--	144	--	218	--	172	--
OU3MW-04D3	OU-3 Community Road	--	--	188	--	--	--	--	--	--	--	--	143	--	199	--	126	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2013												2014				
		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-05S	OU-3 Community Road	--	129	145	76	--	-29	0	--	--	--	-10	--	--	--	109	143	--
OU3MW-05I	OU-3 Community Road	--	113	85	43	119	22	56	36	--	--	201	183	154	232	199	218	--
OU3MW-07S	OU-3 Community Road	66	82	98	61	--	109	43	--	119	224	178	129	188	57	210	84	63
OU3MW-07I	OU-3 Community Road	136	271	229	187	310	178	178	254	175	229	220	195	241	178	249	252	189
OU3MW-07I2	OU-3 Community Road	255	238	221	193	323	177	145	254	182	236	210	222	263	274	267	245	167
OU3MW-07I3	OU-3 Community Road	237	238	175	--	329	167	154	246	194	217	184	172	262	274	267	208	206
OU3MW-07I4	OU-3 Community Road	191	--	--	221	--	--	--	--	--	--	--	136	129	--	--	--	143
OU3MW-19S	87 Community Road	--	--	--	--	--	--	--	--	-60	-80	-82	-32	22	121	21	77	-92
OU3MW-19I	87 Community Road	--	--	--	--	--	--	--	--	-92	-87	-91	-57	52	23	73	164	178
OU3MW-19I2	87 Community Road	--	--	--	--	--	--	--	--	88	142	130	168	228	140	116	134	154
OU3MW-20S	87 Community Road	--	--	--	--	--	--	--	--	97	103	50	205	191	223	91	113	99
OU3MW-20I	87 Community Road	--	--	--	--	--	--	--	--	-112	-111	-98	-64	72	128	147	226	203
OU3MW-20I2	87 Community Road	--	--	--	--	--	--	--	--	80	131	111	142	125	104	146	146	162

Appendix E - Table E-3

Summary of Groundwater Parameter Data

OU-3 Oxygen Injection System

Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2014								2015									
		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	
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	
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	
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	
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	
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	
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	
OU3MW-02S	OU-3 Community Road	--	--	--	5.83	--	5.97	--	--	--	5.72	--	5.78	--	--	--	--	--	
OU3MW-02I	OU-3 Community Road	--	--	--	5.61	--	5.19	--	--	--	5.28	--	5.61	--	--	--	--	--	
OU3MW-03S	OU-3 Community Road	--	5.84	--	--	--	5.52	--	--	--	5.41	--	--	5.83	--	--	--	5.19	
OU3MW-03I	OU-3 Community Road	--	5.74	5.82	6.06	5.55	5.35	--	--	--	5.38	--	--	5.87	--	--	--	--	
OU3MW-04S	OU-3 Community Road	--	--	--	6.05	--	5.82	--	--	--	5.87	--	--	5.62	--	--	--	--	
OU3MW-04I	OU-3 Community Road	--	--	--	5.86	--	5.80	--	--	--	5.60	--	--	5.93	--	--	--	--	
OU3MW-04D	OU-3 Community Road	--	--	--	5.92	--	5.83	--	--	--	5.97	--	--	5.46	--	--	--	--	
OU3MW-04D2	OU-3 Community Road	--	--	--	5.82	--	5.58	--	--	--	5.39	--	--	5.36	--	--	--	--	
OU3MW-04D3	OU-3 Community Road	--	--	--	5.69	--	5.94	--	--	--	5.47	--	--	5.50	--	--	--	--	
OU3MW-05S	OU-3 Community Road	--	4.76	--	--	--	5.79	--	--	6.19	--	--	--	5.51	--	--	--	5.06	
OU3MW-05I	OU-3 Community Road	--	--	4.91	--	--	6.09	--	--	5.90	--	--	--	5.66	--	--	--	--	
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	
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	
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	
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	
OU3MW-07I4	OU-3 Community Road	--	5.43	--	--	--	5.78	--	--	5.33	--	5.92	--	--	5.26	--	--	4.99	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
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	
OU3MW-02S	OU-3 Community Road	--	--	--	0.391	--	0.411	--	--	--	2.920	--	2.130	--	--	--	--	--	
OU3MW-02I	OU-3 Community Road	--	--	--	0.322	--	0.222	--	--	--	0.260	--	0.260	--	--	--	--	--	
OU3MW-03S	OU-3 Community Road	--	0.719	--	--	--	0.54	--	--	--	1.010	--	--	0.873	--	--	--	1.010	
OU3MW-03I	OU-3 Community Road	--	0.380	0.364	0.369	0.324	0.362	--	--	--	0.312	--	--	0.283	--	--	--	--	
OU3MW-04S	OU-3 Community Road	--	--	--	0.693	--	1.020	--	--	--	1.370	--	--	0.557	--	--	--	--	
OU3MW-04I	OU-3 Community Road	--	--	--	1.10	--	0.42	--	--	--	0.362	--	--	0.864	--	--	--	--	
OU3MW-04D	OU-3 Community Road	--	--	--	0.407	--	0.380	--	--	--	0.360	--	--	0.344	--	--	--	--	
OU3MW-04D2	OU-3 Community Road	--	--	--	0.364	--	0.384	--	--	--	0.360	--	--	0.321	--	--	--	--	
OU3MW-04D3	OU-3 Community Road	--	--	--	0.349	--	0.340	--	--	--	0.353	--	--	0.401	--	--	--	--	
OU3MW-05S	OU-3 Community Road	--	1.07	--	--	--	0.91	--	--	0.328	--	--	--	0.531	--	--	--	0.602	
OU3MW-05I	OU-3 Community Road	--	--	0.570	--	--	0.59	--	--	0.482	--	--	--	1.14	--	--	--	--	
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	
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	
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	
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	
OU3MW-07I4	OU-3 Community Road	--	0.394	--	--	--	0.39	--	--	0.535	--	0.407	--	--	0.398	--	--	0.327	
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	
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	
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	
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	0.389	0.360	0.322	0.314		
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	
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	
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	
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	
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	
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	
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	
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	
OU3MW-02S	OU-3 Community Road	--	--	--	18.5	--	15.1	--	--	--	27.37	--	22.67	--	--	--	--	--	

Appendix E - Table E-3

Summary of Groundwater Parameter Data

OU-3 Oxygen Injection System

Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2014								2015								
		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
OU3MW-02I	OU-3 Community Road	--	--	--	38.1	--	28.6	--	--	--	41.2	--	21.19	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	1.3	--	--	--	0.70	--	--	--	0.59	--	--	0.41	--	--	--	3.25
OU3MW-03I	OU-3 Community Road	--	4.9	17.0	15.1	29.9	28.0	--	--	--	33.4	--	--	47.2	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	6.57	--	2.00	--	--	--	8.50	--	--	0.50	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	27.40	--	18.00	--	--	--	44.00	--	--	19.30	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	31.83	--	25.00	--	--	--	21.23	--	--	27.20	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	6.48	--	8.00	--	--	--	0.66	--	--	0.68	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	0.43	--	1.00	--	--	--	0.62	--	--	0.44	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	8.5	--	--	--	1.80	--	--	10.40	--	--	--	1.10	--	--	--	6.63
OU3MW-05I	OU-3 Community Road	--	--	26.1	--	--	28.60	--	--	10.50	--	--	--	20.30	--	--	--	--
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
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
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
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
OU3MW-07I4	OU-3 Community Road	--	0.39	--	--	--	0.00	--	--	4.41	--	0.60	--	--	0.40	--	--	0.60
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
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
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
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
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
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
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
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
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
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
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
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
OU3MW-02S	OU-3 Community Road	--	--	--	21.12	--	13.61	--	--	--	5.37	--	13.42	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	16.96	--	13.62	--	--	--	9.21	--	11.53	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	21.5	--	--	--	14.40	--	--	--	6.35	--	--	14.18	--	--	--	16.61
OU3MW-03I	OU-3 Community Road	--	18.7	18.8	18.4	17.4	14.2	--	--	--	8.78	--	--	12.88	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	19.67	--	14.68	--	--	--	5.19	--	--	13.99	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	16.27	--	14.80	--	--	--	7.87	--	--	13.08	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	16.55	--	13.93	--	--	--	9.01	--	--	13.42	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	16.18	--	13.39	--	--	--	10.95	--	--	13.67	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	15.04	--	13.57	--	--	--	10.37	--	--	14.20	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	21.6	--	--	--	15.90	--	--	4.10	--	--	--	14.74	--	--	--	16.94
OU3MW-05I	OU-3 Community Road	--	--	20.6	--	--	15.80	--	--	8.10	--	--	--	13.80	--	--	--	--
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
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
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
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
OU3MW-07I4	OU-3 Community Road	--	14.79	--	--	--	13.23	--	--	9.00	--	12.20	--	--	16.60	--	--	15.12
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
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
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
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
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
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
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
MW-34S	OU-3 Community Road	-66	-51	-32	-68	-36	24	118	24	54	61	63	-49	-62	-38	1	14	6
MW-34I	OU-3 Community Road	205	171	190	115	173	193	208	256	210	238	257	224	178	176	257	102	61
MW-34D	OU-3 Community Road	33	16	188	150	182	195	192	287	252	221	299	239	187	184	283	172	189
MW-46WR	OU-3 Community Road	-16	-31	55	9	-16	2	54	--	-13	66	-14	127	-9	-5	30	39	0
MW-70/70S	OU-3 Community Road	-57	-61	-75	-19	-35	10	0	--	204	131	89	50	115	51	73	94	95
OU3MW-02S	OU-3 Community Road	--	--	--	201	--	251	--	--	--	253	--	206	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	247	--	270	--	--	--	267	--	240	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	-72	--	--	--	20	--	--	--	87	--	--	-5	--	--	--	-34
OU3MW-03I	OU-3 Community Road	--	6	29	15	89	172	--	--	--	260	--	--	176	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	-66	--	59	--	--	--	159	--	--	48	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	215	--	85	--	--	--	306	--	--	252	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	207	--	156	--	--	--	262	--	--	273	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	175	--	203	--	--	--	248	--	--	83	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	169	--	95	--	--	--	164	--	--	192	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2014							2015									
		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
OU3MW-05S	OU-3 Community Road	--	90	--	--	--	61	--	--	128	--	--	--	180	--	--	--	-34
OU3MW-05I	OU-3 Community Road	--	--	249	--	--	187	--	--	191	--	--	--	246	--	--	--	--
OU3MW-07S	OU-3 Community Road	136	180	69	35	125	204	114	133	290	212	168	180	202	165	211	208	78
OU3MW-07I	OU-3 Community Road	150	235	208	144	207	165	225	162	307	200	250	247	191	155	229	209	136
OU3MW-07I2	OU-3 Community Road	188	260	223	167	217	170	235	189	268	257	252	248	182	185	226	222	271
OU3MW-07I3	OU-3 Community Road	150	258	202	119	208	282	221	191	255	247	253	228	157	165	218	234	268
OU3MW-07I4	OU-3 Community Road	--	127	--	--	--	135	--	--	228	--	172	--	--	124	--	--	262
OU3MW-19S	87 Community Road	-115	-126	-20	-104	-41	-15	16	-31	39	118	-27	-82	-66	-106	-160	-5	54
OU3MW-19I	87 Community Road	277	178	179	115	164	190	215	188	147	285	186	226	156	210	129	72	180
OU3MW-19I2	87 Community Road	219	135	125	70	73	107	164	146	183	302	280	168	124	185	176	100	158
OU3MW-20S	87 Community Road	92	116	223	176	173	93	153	158	200	279	210	176	145	125	135	139	177
OU3MW-20I	87 Community Road	276	157	172	151	170	183	151	189	265	279	239	225	148	157	248	150	146
OU3MW-20I2	87 Community Road	202	135	151	125	119	117	102	163	184	275	234	224	130	114	185	157	142

Appendix E - Table E-3

Summary of Groundwater Parameter Data

OU-3 Oxygen Injection System

Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2015			2016										2017			
		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
pH (SU)																		
IO-10	OU-3 Community Road	5.09	5.72	--	5.91	5.77	5.53	5.74	6.30	5.76	6.24	--	--	6.27	--	--	6.53	--
MW-34S	OU-3 Community Road	5.04	4.77	5.83	5.88	5.46	5.29	5.35	6.83	5.36	5.82	--	--	5.82	--	--	6.36	--
MW-34I	OU-3 Community Road	5.47	5.10	5.88	5.88	5.84	5.58	5.84	6.18	5.72	6.02	--	--	6.46	--	--	6.82	--
MW-34D	OU-3 Community Road	4.97	4.89	5.62	5.52	5.50	5.17	5.33	5.96	5.44	5.91	--	--	5.88	--	--	6.19	--
MW-46WR	OU-3 Community Road	4.82	4.89	4.31	5.35	5.25	5.23	5.51	5.32	4.82	5.43	--	--	5.56	--	--	5.96	--
MW-70/70S	OU-3 Community Road	4.63	5.22	5.17	5.00	5.38	4.62	4.85	5.31	4.90	5.09	--	--	5.63	--	--	5.78	--
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	6.01	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	5.86	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	5.69	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	6.37	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	6.13	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	6.59	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	6.18	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	6.10	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	6.19	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	6.15	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	6.37	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	5.50	5.54	5.67	5.55	5.13	5.15	5.59	5.80	5.51	5.96	--	--	5.95	--	--	6.11	--
OU3MW-07I	OU-3 Community Road	5.90	6.06	6.13	6.10	5.72	5.67	6.14	6.20	5.91	6.36	--	--	6.31	--	--	6.55	--
OU3MW-07I2	OU-3 Community Road	5.70	5.78	5.47	5.81	5.43	5.49	4.81	5.92	6.11	6.05	--	--	6.15	--	--	6.37	--
OU3MW-07I3	OU-3 Community Road	4.68	5.61	5.38	5.67	5.40	5.33	4.82	5.88	5.98	5.99	--	--	5.86	--	--	6.18	--
OU3MW-07I4	OU-3 Community Road	4.87	--	5.21	--	--	--	4.60	--	5.80	--	--	--	--	5.75	--	6.12	--
OU3MW-19S	87 Community Road	5.02	5.43	5.48	5.61	4.97	5.10	5.62	5.47	4.98	5.51	--	--	6.10	--	--	6.22	--
OU3MW-19I	87 Community Road	5.27	5.70	5.76	5.89	5.39	5.63	6.12	6.32	5.85	6.07	--	--	6.19	--	--	6.35	--
OU3MW-19I2	87 Community Road	5.08	5.52	5.65	5.58	4.90	5.09	5.58	5.92	5.47	5.84	--	--	6.03	--	--	6.28	--
OU3MW-20S	87 Community Road	4.86	5.08	4.81	4.71	4.75	4.78	4.25	5.25	4.86	4.94	--	--	5.26	--	--	5.66	--
OU3MW-20I	87 Community Road	5.45	6.02	5.62	5.59	5.63	5.71	5.45	6.21	5.92	6.12	--	--	6.17	--	--	6.53	--
OU3MW-20I2	87 Community Road	5.31	5.55	5.12	5.01	5.00	4.88	4.25	5.66	5.32	5.71	--	--	5.73	--	--	6.03	--
Conductivity (mS/cm)																		
IO-10	OU-3 Community Road	0.357	0.416	--	0.402	0.535	0.826	0.955	0.625	0.425	0.486	--	--	0.459	--	--	0.600	--
MW-34S	OU-3 Community Road	0.956	0.701	1.210	0.508	0.724	0.726	0.775	0.723	0.896	1.17	--	--	0.845	--	--	1.440	--
MW-34I	OU-3 Community Road	0.416	0.360	0.393	0.395	0.443	0.525	0.575	0.953	1.04	0.532	--	--	0.413	--	--	0.406	--
MW-34D	OU-3 Community Road	0.428	0.354	0.360	0.341	0.343	0.335	0.354	0.370	0.296	0.410	--	--	0.365	--	--	0.362	--
MW-46WR	OU-3 Community Road	0.995	1.050	0.619	0.907	0.954	1.530	0.762	0.685	0.551	0.981	--	--	0.776	--	--	0.856	--
MW-70/70S	OU-3 Community Road	0.480	5.280	0.397	0.486	0.390	0.483	0.577	1.540	0.610	1.10	--	--	1.000	--	--	0.558	--
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	9.05	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	0.30	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	1.16	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	0.556	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	0.879	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	0.680	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	0.356	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	0.35	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	0.37	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	0.53	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	0.43	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	0.405	0.422	0.413	0.343	0.366	0.351	0.304	0.437	0.280	0.450	--	--	0.691	--	--	0.658	--
OU3MW-07I	OU-3 Community Road	0.513	0.494	0.506	0.505	0.551	0.492	0.452	0.529	0.736	1.74	--	--	0.782	--	--	1.340	--
OU3MW-07I2	OU-3 Community Road	0.436	0.402	0.436	0.444	0.493	0.448	0.360	1.560	2.260	1.55	--	--	0.666	--	--	0.825	--
OU3MW-07I3	OU-3 Community Road	0.353	0.367	0.345	0.394	0.450	0.360	0.288	0.451	0.374	0.511	--	--	0.369	--	--	0.485	--
OU3MW-07I4	OU-3 Community Road	0.327	--	0.339	--	--	--	0.25	--	0.34	--	--	--	--	0.456	--	0.407	--
OU3MW-19S	87 Community Road	0.663	0.550	0.384	0.897	1.620	0.718	0.752	0.369	0.302	0.453	--	--	0.445	--	--	0.533	--
OU3MW-19I	87 Community Road	0.591	0.483	0.409	0.470	0.525	0.448	0.398	0.359	0.295	0.382	--	--	0.325	--	--	0.270	--
OU3MW-19I2	87 Community Road	0.690	0.498	0.375	0.364	0.408	0.363	0.335	0.386	0.317	0.447	--	--	0.398	--	--	0.378	--
OU3MW-20S	87 Community Road	0.324	0.317	0.450	0.941	0.828	0.576	0.445	0.370	0.335	0.474	--	--	0.442	--	--	0.813	--
OU3MW-20I	87 Community Road	0.492	0.467	0.497	0.465	0.503	2.210	2.910	1.910	0.731	0.595	--	--	0.629	--	--	0.827	--
OU3MW-20I2	87 Community Road	0.317	0.322	0.341	0.377	0.427	0.362	0.293	0.357	0.298	0.390	--	--	0.340	--	--	0.66	--
Dissolved Oxygen (mg/L)																		
IO-10	OU-3 Community Road	21.0	47.2	--	19.0	24.0	17.4	22.0	27.0	30.0	23.0	--	--	24.0	--	--	16.0	--
MW-34S	OU-3 Community Road	0.0	1.6	4.0	5.0	0.0	0.0	1.0	3.0	1.0	0.2	--	--	1.5	--	--	4.0	--
MW-34I	OU-3 Community Road	23.0	33.4	19.0	19.0	27.0	28.0	28.0	26.0	5.0	23.0	--	--	37.0	--	--	23.0	--
MW-34D	OU-3 Community Road	19.0	18.7	11.0	11.0	11.0	23.0	25.0	27.0	23.0	21.0	--	--	6.0	--	--	6.0	--
MW-46WR	OU-3 Community Road	0.2	7.3	2.0	0.0	6.0	4.0	8.0	6.0	3.0	0.2	--	--	4.0	--	--	3.0	--
MW-70/70S	OU-3 Community Road	0.2	1.1	3.0	0.0	5.0	0.8	1.0	2.0	2.0	0.4	--	--	1.0	--	--	4.0	--
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	19.63	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2015		2016												2017		
		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
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	16.14	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	1.01	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	21.34	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	6.81	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	19.35	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	5.70	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	3.68	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	4.70	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	5.60	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	12.62	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	24.0	31.0	22.0	21.0	23.0	24.0	25.0	33.0	31.0	32.0	--	--	22.0	--	--	19.0	--
OU3MW-07I	OU-3 Community Road	24.0	46.7	21.0	22.0	27.0	27.0	22.0	23.0	41.0	32.0	--	--	21.0	--	--	21.0	--
OU3MW-07I2	OU-3 Community Road	32.0	50.0	20.0	18.0	23.0	36.7	25.0	21.0	30.0	40.0	--	--	22.0	--	--	16.0	--
OU3MW-07I3	OU-3 Community Road	19.0	39.6	14.0	20.0	23.0	26.0	33.0	23.0	32.0	26.0	--	--	23.0	--	--	15.0	--
OU3MW-07I4	OU-3 Community Road	0.33	--	0.70	--	--	--	0.00	--	4.57	--	--	--	--	3.9	--	2.0	--
OU3MW-19S	87 Community Road	0.2	0.6	2.0	2.4	0.4	0.0	1.0	8.0	9.0	5.0	--	--	2.7	--	--	5.0	--
OU3MW-19I	87 Community Road	25.0	37.8	13.0	21.0	24.0	22.0	15.0	36.0	31.0	28.0	--	--	26.0	--	--	21.0	--
OU3MW-19I2	87 Community Road	0.4	0.7	2.4	15.0	15.0	7.0	2.0	4.0	1.0	2.0	--	--	2.0	--	--	0.6	--
OU3MW-20S	87 Community Road	23.0	34.5	21.0	25.0	26.0	27.0	23.0	19.0	26.0	27.0	--	--	21.0	--	--	28.0	--
OU3MW-20I	87 Community Road	21.0	>50	19.0	22.0	23.0	30.0	42.0	32.0	39.0	39.0	--	--	28.0	--	--	33.0	--
OU3MW-20I2	87 Community Road	0.2	0.8	0.0	7.0	10.0	10.0	3.9	3.2	1.0	1.0	--	--	2.0	--	--	2.0	--
Temperature (degrees Celcius)																		
IO-10	OU-3 Community Road	16.58	15.62	--	10.50	10.80	12.20	13.06	17.81	20.37	17.35	--	--	15.50	--	--	8.89	--
MW-34S	OU-3 Community Road	15.40	15.61	7.80	8.20	10.20	11.20	11.90	16.00	20.84	19.33	--	--	17.30	--	--	8.38	--
MW-34I	OU-3 Community Road	15.80	17.79	11.60	12.10	12.20	12.60	12.98	14.26	19.67	16.45	--	--	16.64	--	--	13.38	--
MW-34D	OU-3 Community Road	14.60	17.62	11.20	11.90	12.60	12.90	13.20	14.28	20.18	15.72	--	--	15.75	--	--	12.01	--
MW-46WR	OU-3 Community Road	14.47	13.05	10.85	6.90	11.10	15.80	15.81	20.52	23.61	23.97	--	--	14.89	--	--	8.06	--
MW-70/70S	OU-3 Community Road	15.04	14.26	10.40	6.50	10.00	11.60	11.89	18.06	20.60	19.06	--	--	16.68	--	--	8.56	--
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	16.65	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	14.85	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	16.76	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	15.24	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	14.23	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	14.55	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	15.25	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	14.48	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	14.40	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	13.54	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	14.22	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	14.96	12.60	10.20	8.10	9.70	10.90	12.21	17.48	19.17	20.38	--	--	15.75	--	--	8.78	--
OU3MW-07I	OU-3 Community Road	14.5	13.8	11.4	10.9	11.0	11.8	12.0	15.4	16.1	19.5	--	--	15.36	--	--	11.28	--
OU3MW-07I2	OU-3 Community Road	14.1	13.7	12.2	11.4	11.2	11.9	15.4	14.7	16.1	20.6	--	--	14.71	--	--	12.55	--
OU3MW-07I3	OU-3 Community Road	14.6	13.5	12.1	11.4	11.2	12.4	15.8	13.9	16.4	18.9	--	--	18.40	--	--	12.76	--
OU3MW-07I4	OU-3 Community Road	14.33	--	11.30	--	--	--	15.31	--	15.71	--	--	--	--	12.21	--	12.58	--
OU3MW-19S	87 Community Road	13.30	12.4	6.2	8.1	9.4	10.1	12.6	17.1	22.3	21.1	--	--	14.30	--	--	9.65	--
OU3MW-19I	87 Community Road	13.7	13.6	9.3	10.9	11.3	11.2	12.4	16.8	19.6	19.1	--	--	14.83	--	--	12.11	--
OU3MW-19I2	87 Community Road	12.9	13.0	8.1	10.6	12.0	12.0	10.8	17.1	20.4	19.2	--	--	14.14	--	--	12.55	--
OU3MW-20S	87 Community Road	17.0	14.1	11.3	9.0	9.8	12.3	14.9	15.7	18.9	20.7	--	--	18.05	--	--	10.62	--
OU3MW-20I	87 Community Road	15.9	14.1	12.0	11.7	11.1	12.3	16.1	15.4	17.0	19.8	--	--	14.70	--	--	13.02	--
OU3MW-20I2	87 Community Road	14.6	13.5	11.6	11.0	11.1	11.9	15.6	15.5	17.8	18.9	--	--	14.84	--	--	12.93	--
Oxidation Reduction Potential (mV)																		
IO-10	OU-3 Community Road	155	168	--	158	164	187	121	160	164	193	--	--	183	--	--	241	--
MW-34S	OU-3 Community Road	-27	46	123	170	23	13	-4	-46	-65	-57	--	--	-25	--	--	162	--
MW-34I	OU-3 Community Road	184	114	181	198	166	196	153	222	150	194	--	--	231	--	--	216	--
MW-34D	OU-3 Community Road	209	139	181	182	135	209	159	170	203	207	--	--	205	--	--	224	--
MW-46WR	OU-3 Community Road	72	82	85	53	69	38	68	25	26	16	--	--	6	--	--	-18	--
MW-70/70S	OU-3 Community Road	86	119	51	50	59	101	62	3	-4	25	--	--	-46	--	--	-70	--
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	90	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	190	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	31	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	134	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	15	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	147	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	154	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	124	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	124	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2015		2016												2017		
		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
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	-21	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	235	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	99	121	184	79	176	217	138	204	205	241	--	--	102	--	--	170	--
OU3MW-07I	OU-3 Community Road	182	210	182	196	230	204	178	200	208	303	--	--	167	--	--	242	--
OU3MW-07I2	OU-3 Community Road	205	216	228	200	242	205	275	279	308	301	--	--	193	--	--	268	--
OU3MW-07I3	OU-3 Community Road	284	208	206	188	250	194	281	267	354	297	--	--	207	--	--	295	--
OU3MW-07I4	OU-3 Community Road	269	--	163	--	--	--	239	--	127	--	--	--	--	167	--	188	--
OU3MW-19S	87 Community Road	-10	-42	-18	-24	28	16	15	26	39	20	--	--	-43	--	--	-135	--
OU3MW-19I	87 Community Road	193	200	182	200	239	205	135	165	178	311	--	--	158	--	--	219	--
OU3MW-19I2	87 Community Road	188	163	123	175	253	208	160	180	189	194	--	--	131	--	--	114	--
OU3MW-20S	87 Community Road	312	242	213	241	242	224	271	180	204	204	--	--	170	--	--	149	--
OU3MW-20I	87 Community Road	289	199	186	204	205	190	310	196	194	252	--	--	155	--	--	208	--
OU3MW-20I2	87 Community Road	247	161	117	243	189	212	318	239	236	207	--	--	150	--	--	162	--

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Summary of Groundwater Parameter Data
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Well ID	Oxygen Injection System	2017										2018	
		Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	
pH (SU)													
IO-10	OU-3 Community Road	--	6.59	--	--	6.02	--	--	6.48	--	--	--	6.89
MW-34S	OU-3 Community Road	--	6.34	--	--	5.79	--	--	4.97	--	--	--	6.43
MW-34I	OU-3 Community Road	--	6.74	--	--	6.18	--	--	6.58	--	--	--	6.47
MW-34D	OU-3 Community Road	--	6.14	--	--	5.84	--	--	5.36	--	--	--	6.41
MW-46WR	OU-3 Community Road	--	6.01	--	--	5.14	6.14	--	5.89	--	--	--	5.65
MW-70/70S	OU-3 Community Road	--	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	--	5.86	--	--	5.22	--	--	5.76	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	6.56	--	--	6.02	--	--	6.09	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	6.43	--	--	5.75	--	--	5.83	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	6.02	--	--	5.44	--	--	5.63	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	6.13	--	--	5.64	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	6.01	--	--	5.42	--	5.79	--	--	--	--	6.46
OU3MW-19I	87 Community Road	--	6.00	--	--	5.98	--	6.11	--	--	--	--	6.61
OU3MW-19I2	87 Community Road	--	6.15	--	--	5.73	--	5.93	--	--	--	--	6.65
OU3MW-20S	87 Community Road	5.10	--	--	--	4.90	--	5.40	--	--	--	--	6.00
OU3MW-20I	87 Community Road	6.04	--	--	--	5.80	--	6.31	--	--	--	--	6.85
OU3MW-20I2	87 Community Road	5.58	--	--	--	5.57	--	5.76	--	--	--	--	6.43
Conductivity (mS/cm)													
IO-10	OU-3 Community Road	--	0.405	--	--	0.743	--	--	0.378	--	--	--	0.554
MW-34S	OU-3 Community Road	--	0.545	--	--	0.954	--	--	0.724	--	--	--	0.681
MW-34I	OU-3 Community Road	--	0.394	--	--	0.614	--	--	0.378	--	--	--	0.356
MW-34D	OU-3 Community Road	--	0.279	--	--	0.427	--	--	0.403	--	--	--	0.368
MW-46WR	OU-3 Community Road	--	0.550	--	--	0.872	1.120	--	0.864	--	--	--	1.79
MW-70/70S	OU-3 Community Road	--	0.431	--	--	0.961	--	--	1.01	--	--	--	0.760
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	0.727	--	--	6.900	--	--	1.25	--	--	--	--
OU3MW-07I	OU-3 Community Road	--	0.567	--	--	1.910	--	--	1.43	--	--	--	--
OU3MW-07I2	OU-3 Community Road	--	0.679	--	--	1.020	--	--	0.865	--	--	--	--
OU3MW-07I3	OU-3 Community Road	--	0.365	--	--	0.647	--	--	0.872	--	--	--	--
OU3MW-07I4	OU-3 Community Road	--	0.299	--	--	0.835	--	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	0.608	--	--	1.020	--	0.471	--	--	--	--	0.880
OU3MW-19I	87 Community Road	--	0.400	--	--	0.693	--	0.259	--	--	--	--	0.456
OU3MW-19I2	87 Community Road	--	0.254	--	--	0.935	--	0.364	--	--	--	--	0.260
OU3MW-20S	87 Community Road	1.970	--	--	--	1.170	--	0.630	--	--	--	--	2.32
OU3MW-20I	87 Community Road	1.110	--	--	--	1.750	--	0.751	--	--	--	--	1.01
OU3MW-20I2	87 Community Road	0.88	--	--	--	1.020	--	0.478	--	--	--	--	0.758
Dissolved Oxygen (mg/L)													
IO-10	OU-3 Community Road	--	30.0	--	--	31.03	--	--	24	--	--	--	26
MW-34S	OU-3 Community Road	--	0.0	--	--	0.00	--	--	1	--	--	--	2
MW-34I	OU-3 Community Road	--	29.0	--	--	31.00	--	--	26	--	--	--	30
MW-34D	OU-3 Community Road	--	6.0	--	--	23.00	--	--	20	--	--	--	4
MW-46WR	OU-3 Community Road	--	7.0	--	--	9.00	4.37	--	4	--	--	--	5
MW-70/70S	OU-3 Community Road	--	4.0	--	--	3.00	--	--	3	--	--	--	6
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2017										2018	
		Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	
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	--	28.0	--	--	50.00	--	--	25	--	--	--	
OU3MW-07I	OU-3 Community Road	--	31.0	--	--	50.00	--	--	24	--	--	--	
OU3MW-07I2	OU-3 Community Road	--	36.0	--	--	50.00	--	--	23	--	--	--	
OU3MW-07I3	OU-3 Community Road	--	14.0	--	--	50.00	--	--	21	--	--	--	
OU3MW-07I4	OU-3 Community Road	--	0.0	--	--	0.84	--	--	--	--	--	--	
OU3MW-19S	87 Community Road	--	10.0	--	--	7.00	--	--	1	--	--	7	
OU3MW-19I	87 Community Road	--	31.0	--	--	28.00	--	25	--	--	--	25	
OU3MW-19I2	87 Community Road	--	11.0	--	--	1.00	--	1	--	--	--	3	
OU3MW-20S	87 Community Road	19.0	--	--	--	17.00	--	20	--	--	--	23	
OU3MW-20I	87 Community Road	19.0	--	--	--	30.00	--	22	--	--	--	30	
OU3MW-20I2	87 Community Road	6.0	--	--	--	2.00	--	1	--	--	--	8	
Temperature (degrees Celcius)													
IO-10	OU-3 Community Road	--	12.08	--	--	19.55	--	--	15.50	--	--	10.65	
MW-34S	OU-3 Community Road	--	11.42	--	--	19.49	--	--	18.64	--	--	7.39	
MW-34I	OU-3 Community Road	--	10.92	--	--	17.34	--	--	16.11	--	--	12.22	
MW-34D	OU-3 Community Road	--	12.02	--	--	16.52	--	--	16.47	--	--	12.31	
MW-46WR	OU-3 Community Road	--	14.37	--	--	27.00	25.74	--	16.36	--	--	8.38	
MW-70/70S	OU-3 Community Road	--	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	--	12.99	--	--	20.81	--	--	16.63	--	--	--	
OU3MW-07I	OU-3 Community Road	--	13.80	--	--	17.31	--	--	15.54	--	--	--	
OU3MW-07I2	OU-3 Community Road	--	13.75	--	--	16.70	--	--	15.05	--	--	--	
OU3MW-07I3	OU-3 Community Road	--	12.85	--	--	16.44	--	--	14.52	--	--	--	
OU3MW-07I4	OU-3 Community Road	--	14.21	--	--	16.12	--	--	--	--	--	--	
OU3MW-19S	87 Community Road	--	12.94	--	--	19.01	--	15.78	--	--	--	10.54	
OU3MW-19I	87 Community Road	--	13.32	--	--	16.30	--	15.06	--	--	--	8.88	
OU3MW-19I2	87 Community Road	--	14.18	--	--	16.12	--	14.69	--	--	--	10.96	
OU3MW-20S	87 Community Road	11.63	--	--	--	19.17	--	17.60	--	--	--	9.62	
OU3MW-20I	87 Community Road	13.00	--	--	--	16.66	--	16.05	--	--	--	11.83	
OU3MW-20I2	87 Community Road	13.97	--	--	--	16.34	--	16.21	--	--	--	12.56	
Oxidation Reduction Potential (mV)													
IO-10	OU-3 Community Road	--	198	--	--	158	--	--	140	--	--	108	
MW-34S	OU-3 Community Road	--	0	--	--	-59	--	--	66	--	--	60	
MW-34I	OU-3 Community Road	--	242	--	--	168	--	--	129	--	--	90	
MW-34D	OU-3 Community Road	--	263	--	--	152	--	--	203	--	--	89	
MW-46WR	OU-3 Community Road	--	64	--	--	59	47	--	22	--	--	15	
MW-70/70S	OU-3 Community Road	--	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	--	--	--	--	--	--	--	--	--	--	--	

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OU-3 Oxygen Injection System
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Well ID	Oxygen Injection System	2017									2018	
		Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	--	180	--	--	144	--	--	118	--	--	--
OU3MW-07I	OU-3 Community Road	--	287	--	--	222	--	--	197	--	--	--
OU3MW-07I2	OU-3 Community Road	--	285	--	--	251	--	--	230	--	--	--
OU3MW-07I3	OU-3 Community Road	--	271	--	--	241	--	--	249	--	--	--
OU3MW-07I4	OU-3 Community Road	--	184	--	--	176	--	--	--	--	--	--
OU3MW-19S	87 Community Road	--	51	--	--	27	--	136	--	--	--	103
OU3MW-19I	87 Community Road	--	270	--	--	178	--	216	--	--	--	182
OU3MW-19I2	87 Community Road	--	291	--	--	197	--	195	--	--	--	171
OU3MW-20S	87 Community Road	178	--	--	--	189	--	203	--	--	--	150
OU3MW-20I	87 Community Road	210	--	--	--	209	--	212	--	--	--	159
OU3MW-20I2	87 Community Road	193	--	--	--	183	--	137	--	--	--	152

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Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
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Well ID	Oxygen Injection System	2018									
		Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
pH (SU)											
IO-10	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--
MW-34S	OU-3 Community Road	--	--	6.28	--	--	--	--	--	--	--
MW-34I	OU-3 Community Road	--	--	6.20	--	--	--	--	--	--	--
MW-34D	OU-3 Community Road	--	--	5.90	--	--	--	--	--	--	--
MW-46WR	OU-3 Community Road	--	--	5.90	--	--	--	--	--	--	--
MW-70/70S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--
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	5.67	--	6.00	--	6.20	--	--	--	6.35	--
OU3MW-07I	OU-3 Community Road	6.17	--	6.56	--	6.56	--	--	--	6.13	--
OU3MW-07I2	OU-3 Community Road	6.01	--	6.20	--	6.28	--	--	--	6.64	--
OU3MW-07I3	OU-3 Community Road	5.79	--	5.78	--	5.93	--	--	--	5.96	--
OU3MW-07I4	OU-3 Community Road	--	--	5.98	--	6.14	--	--	--	6.84	--
OU3MW-19S	87 Community Road	--	--	5.94	--	5.77	--	--	--	5.91	--
OU3MW-19I	87 Community Road	--	--	6.43	--	6.46	--	--	--	6.31	--
OU3MW-19I2	87 Community Road	--	--	6.21	--	6.16	--	--	--	6.64	--
OU3MW-20S	87 Community Road	--	--	5.70	--	--	5.53	--	--	5.57	--
OU3MW-20I	87 Community Road	--	--	6.33	--	--	6.10	--	--	6.11	--
OU3MW-20I2	87 Community Road	--	--	5.58	--	--	5.52	--	--	5.77	--
Conductivity (mS/cm)											
IO-10	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--
MW-34S	OU-3 Community Road	--	--	0.494	--	--	--	--	--	--	--
MW-34I	OU-3 Community Road	--	--	0.449	--	--	--	--	--	--	--
MW-34D	OU-3 Community Road	--	--	0.233	--	--	--	--	--	--	--
MW-46WR	OU-3 Community Road	--	--	1.320	--	--	--	--	--	--	--
MW-70/70S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--
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	1.66	--	0.605	--	0.475	--	--	--	1.670	--
OU3MW-07I	OU-3 Community Road	1.44	--	0.599	--	0.578	--	--	--	0.893	--
OU3MW-07I2	OU-3 Community Road	0.851	--	0.541	--	0.411	--	--	--	0.482	--
OU3MW-07I3	OU-3 Community Road	0.590	--	0.476	--	0.271	--	--	--	0.201	--
OU3MW-07I4	OU-3 Community Road	--	--	0.446	--	0.158	--	--	--	0.235	--
OU3MW-19S	87 Community Road	--	--	0.264	--	0.259	--	--	--	0.267	--
OU3MW-19I	87 Community Road	--	--	0.262	--	0.195	--	--	--	0.529	--
OU3MW-19I2	87 Community Road	--	--	0.132	--	0.156	--	--	--	0.751	--
OU3MW-20S	87 Community Road	--	--	0.467	--	--	0.979	--	--	3.150	--
OU3MW-20I	87 Community Road	--	--	0.581	--	--	0.422	--	--	1.080	--
OU3MW-20I2	87 Community Road	--	--	0.364	--	--	0.516	--	--	0.234	--
Dissolved Oxygen (mg/L)											
IO-10	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--
MW-34S	OU-3 Community Road	--	--	4.0	--	--	--	--	--	--	--
MW-34I	OU-3 Community Road	--	--	25.0	--	--	--	--	--	--	--
MW-34D	OU-3 Community Road	--	--	17.0	--	--	--	--	--	--	--
MW-46WR	OU-3 Community Road	--	--	12.0	--	--	--	--	--	--	--
MW-70/70S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2018									
		Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
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	17	--	18.0	--	20.0	--	--	--	20.0	--
OU3MW-07I	OU-3 Community Road	18	--	5.0	--	16.0	--	--	--	24.0	--
OU3MW-07I2	OU-3 Community Road	17	--	18.0	--	31.0	--	--	--	35.0	--
OU3MW-07I3	OU-3 Community Road	20	--	12.0	--	24.0	--	--	--	7.0	--
OU3MW-07I4	OU-3 Community Road	--	--	2.0	--	4.0	--	--	--	0.0	--
OU3MW-19S	87 Community Road	--	--	8.0	--	29.0	--	--	--	3.0	--
OU3MW-19I	87 Community Road	--	--	16.0	--	24.0	--	--	--	16.0	--
OU3MW-19I2	87 Community Road	--	--	22.0	--	4.0	24.0	--	--	2.0	--
OU3MW-20S	87 Community Road	--	--	40.0	--	--	24.0	--	--	15.0	--
OU3MW-20I	87 Community Road	--	--	4.0	--	--	25.0	--	--	38.0	--
OU3MW-20I2	87 Community Road	--	--	--	--	--	1.0	--	--	2.0	--
Temperature (degrees Celcius)											
IO-10	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--
MW-34S	OU-3 Community Road	--	--	17.06	--	--	--	--	--	--	--
MW-34I	OU-3 Community Road	--	--	14.99	--	--	--	--	--	--	--
MW-34D	OU-3 Community Road	--	--	16.15	--	--	--	--	--	--	--
MW-46WR	OU-3 Community Road	--	--	20.49	--	--	--	--	--	--	--
MW-70/70S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--
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	7.27	--	16.06	--	23.89	--	--	--	15.36	--
OU3MW-07I	OU-3 Community Road	8.89	--	15.65	--	21.18	--	--	--	17.27	--
OU3MW-07I2	OU-3 Community Road	9.30	--	16.27	--	21.60	--	--	--	14.50	--
OU3MW-07I3	OU-3 Community Road	10.62	--	16.39	--	25.42	--	--	--	14.65	--
OU3MW-07I4	OU-3 Community Road	--	--	16.76	--	27.58	--	--	--	13.70	--
OU3MW-19S	87 Community Road	--	--	21.50	--	23.42	--	--	--	14.72	--
OU3MW-19I	87 Community Road	--	--	17.69	--	23.61	--	--	--	14.97	--
OU3MW-19I2	87 Community Road	--	--	16.52	--	25.34	--	--	--	14.03	--
OU3MW-20S	87 Community Road	--	--	17.56	--	--	24.56	--	--	16.55	--
OU3MW-20I	87 Community Road	--	--	17.99	--	--	21.63	--	--	15.75	--
OU3MW-20I2	87 Community Road	--	--	19.31	--	--	22.59	--	--	14.81	--
Oxidation Reduction Potential (mV)											
IO-10	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--
MW-34S	OU-3 Community Road	--	--	92.00	--	--	--	--	--	--	--
MW-34I	OU-3 Community Road	--	--	310.00	--	--	--	--	--	--	--
MW-34D	OU-3 Community Road	--	--	272.00	--	--	--	--	--	--	--
MW-46WR	OU-3 Community Road	--	--	100.00	--	--	--	--	--	--	--
MW-70/70S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--

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Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2018									
		Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	OU-3 Community Road	163	--	240	--	190	--	--	--	123	--
OU3MW-07I	OU-3 Community Road	243	--	228	--	215	--	--	--	365	--
OU3MW-07I2	OU-3 Community Road	280	--	262	--	234	--	--	--	250	--
OU3MW-07I3	OU-3 Community Road	298	--	274	--	223	--	--	--	331	--
OU3MW-07I4	OU-3 Community Road	--	--	214	--	177	--	--	--	186	--
OU3MW-19S	87 Community Road	--	--	155	--	83	--	--	--	82	--
OU3MW-19I	87 Community Road	--	--	224	--	189	--	--	--	284	--
OU3MW-19I2	87 Community Road	--	--	275	--	184	--	--	--	243	--
OU3MW-20S	87 Community Road	--	--	200	--	--	263	--	--	236	--
OU3MW-20I	87 Community Road	--	--	235	--	--	293	--	--	275	--
OU3MW-20I2	87 Community Road	--	--	243	--	--	228	--	--	188	--

Note:

For wells IO-10 through

Appendix E - Table E-3

Summary of Groundwater Parameter Data

OU-3 Oxygen Injection System

Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2019				2020			2021				2022		Baseline Average	Historical Average	Q3 2021 - Q2 2022 Average
		Q1	Q2	Q3	Q4	Q1	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2			
pH (SU)																	
IO-10	OU-3 Community Road	--	7.21	6.9	6.60	6.27	--	6.71	6.98	5.70	6.83	6.69	6.46	7.17	6.27	6.26	6.79
MW-34S	OU-3 Community Road	--	6.39	5.94	5.72	6.16	--	5.74	6.07	5.83	6.50	5.55	5.89	6.00	6.25	5.95	5.99
MW-34I	OU-3 Community Road	--	6.77	6.74	6.81	6.55	--	6.65	6.57	5.83	6.17	6.68	6.10	6.90	6.34	6.20	6.46
MW-34D	OU-3 Community Road	--	6.2	6.24	6.00	6.24	--	6.81	6.24	5.66	6.07	6.15	6.22	6.53	5.97	5.84	6.24
MW-46WR	OU-3 Community Road	--	5.94	6.14	5.99	5.59	--	6.12	6.60	5.70	6.47	5.94	6.05	6.44	6.03	5.78	6.23
MW-70/70S	OU-3 Community Road	--	6.17	5.81	5.77	5.57	--	5.86	6.11	6.32	5.89	5.81	--	6.46	6.07	5.85	6.05
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	6.05	6.26	6.6	6.51	6.34	6.15	6.17	6.67	6.53	5.91	7.04	6.15	5.82	5.60	5.74	6.23
OU3MW-07I	OU-3 Community Road	6.18	6.7	7.03	6.00	6.17	6.42	6.21	6.84	6.99	6.31	7.49	6.48	6.09	6.26	6.15	6.59
OU3MW-07I2	OU-3 Community Road	5.76	6.47	6.8	5.71	6.01	6.22	5.88	6.40	6.95	6.53	7.24	6.13	5.9	5.86	6.06	6.45
OU3MW-07I3	OU-3 Community Road	5.97	6.27	6.21	6.09	5.84	5.92	5.67	6.42	6.85	7.38	7.46	5.84	5.66	NS	5.87	6.59
OU3MW-07I4	OU-3 Community Road	6.09	6.05	6.26	5.91	5.72	5.83	5.62	6.19	6.79	6.37	7.39	5.87	5.67	NS	5.80	6.33
OU3MW-19S	87 Community Road	5.80	6.31	5.98	6.13	5.60	5.81	6.18	6.30	5.61	6.14	5.91	5.84	5.94	6.22	5.72	5.96
OU3MW-19I	87 Community Road	6.07	6.61	6.26	6.11	5.89	6.13	6.40	6.76	6.15	--	6.33	6.21	6.43	6.73	6.03	6.32
OU3MW-19I2	87 Community Road	6.33	6.38	5.94	6.27	6.00	5.94	6.18	6.34	5.74	6.17	6.09	5.91	6.00	5.95	5.79	6.04
OU3MW-20S	87 Community Road	5.81	5.59	5.59	5.29	5.17	5.62	5.78	6.33	5.48	5.64	5.61	5.78	5.97	5.90	5.27	5.75
OU3MW-20I	87 Community Road	6.62	6.24	6.61	6.35	6.42	6.34	6.57	7.08	6.27	6.55	6.42	6.45	6.81	6.62	6.11	6.56
OU3MW-20I2	87 Community Road	6.13	6	6.12	5.64	5.88	5.71	6.14	6.21	5.81	6.10	5.82	5.8	6.24	5.89	5.61	5.99
Conductivity (mS/cm)																	
IO-10	OU-3 Community Road	--	0.94	0.799	0.589	0.912	--	1.62	0.851	0.458	0.455	0.667	0.830	0.497	0.413	0.530	0.61
MW-34S	OU-3 Community Road	--	0.656	0.523	0.563	0.835	--	0.543	1.16	0.724	0.622	0.545	0.52	0.701	0.643	0.759	0.60
MW-34I	OU-3 Community Road	--	1.19	0.586	0.521	0.996	--	1.8	1.04	0.295	0.379	0.912	0.705	0.521	0.409	0.502	0.63
MW-34D	OU-3 Community Road	--	6.2	0.392	0.545	0.939	--	0.09	0.485	0.271	0.313	0.327	0.296	0.531	0.295	0.615	0.37
MW-46WR	OU-3 Community Road	--	1.21	0.857	0.560	1.080	--	0.954	1.11	0.698	0.366	0.811	0.678	0.637	0.792	0.974	0.62
MW-70/70S	OU-3 Community Road	--	0.543	0.586	0.572	0.686	--	0.634	0.930	0.651	0.743	0.645	--	0.586	0.485	0.678	0.66
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	0.700	1.05	0.58	1.18	1.24	0.575	0.733	0.636	0.549	0.470	0.804	0.383	0.38	0.235	0.541	0.51
OU3MW-07I	OU-3 Community Road	0.999	0.93	0.631	0.578	1.04	0.545	0.904	0.793	0.466	0.520	0.753	0.503	0.436	0.355	0.514	0.55
OU3MW-07I2	OU-3 Community Road	0.994	1.02	0.523	0.410	0.949	0.545	0.680	0.842	0.563	0.339	0.748	0.521	0.524	0.275	0.492	0.53
OU3MW-07I3	OU-3 Community Road	0.761	0.918	0.509	0.631	0.562	0.461	0.593	0.555	0.606	0.728	0.351	0.427	0.457	NS	0.414	0.49
OU3MW-07I4	OU-3 Community Road	0.301	0.661	0.36	0.750	0.447	0.393	0.439	0.492	0.464	0.290	0.405	0.498	0.383	NS	0.398	0.39
OU3MW-19S	87 Community Road	0.251	0.485	0.425	0.717	0.512	0.588	0.436	0.280	0.748	0.500	0.444	0.281	1.56	0.448	0.561	0.70
OU3MW-19I	87 Community Road	0.525	0.338	0.255	0.245	0.550	0.979	0.447	0.527	0.517	--	0.516	0.319	0.403	0.384	0.400	0.41
OU3MW-19I2	87 Community Road	0.265	0.305	0.511	0.283	0.367	0.463	0.374	0.344	0.335	0.573	0.313	0.596	0.315	0.350	0.371	0.45
OU3MW-20S	87 Community Road	0.733	0.295	1.44	2.21	1.76	1.52	2.28	1.40	0.775	1.10	1.14	0.804	1.41	0.313	0.773	1.11
OU3MW-20I	87 Community Road	0.533	0.525	0.621	0.945	0.918	0.68	0.924	0.668	0.508	0.779	0.674	0.631	0.591	0.599	0.682	0.67
OU3MW-20I2	87 Community Road	0.208	0.53	0.312	0.452	0.572	0.328	0.785	0.546	0.519	0.440	0.612	0.296	0.762	0.355	0.414	0.53
Dissolved Oxygen (mg/L)																	
IO-10	OU-3 Community Road	--	29	22	13	16	--	29	31	4	19	26	6	10	20.4	17.8	15.25
MW-34S	OU-3 Community Road	--	1	9	4	5	--	4	3	4	3	10	3	10	0.2	1.3	6.50
MW-34I	OU-3 Community Road	--	33	32	15	23	--	17	18	6	5	23	7	16	0.9	17.4	12.75
MW-34D	OU-3 Community Road	--	22	30	13	19	--	15.00	11	1.00	2	15	9	18	0.2	8.0	11.00
MW-46WR	OU-3 Community Road	--	18	17	21	29	--	16	32	8	19	22	6	22	8.7	3.6	17.25
MW-70/70S	OU-3 Community Road	--	18	18	15	20	--	11	10	8	8	18	--	10	21.6	3.4	12.00
OU3MW-02S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	22.0	23.5	--

Appendix E - Table E-3

Summary of Groundwater Parameter Data

OU-3 Oxygen Injection System

Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2019				2020			2021				2022		Baseline Average	Historical Average	Q3 2021 - Q2 2022 Average
		Q1	Q2	Q3	Q4	Q1	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2			
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	14.0	18	36	24	29	30	19	31.83	21	22	12	15	15	3.0	20.5	16.00
OU3MW-07I	OU-3 Community Road	25.0	16	29	38	22	27	20	11	10	19	19	20	15	3.2	27.4	18.25
OU3MW-07I2	OU-3 Community Road	21.0	16	33	37	23	26	25	16	7	21	20	19	16	3.3	23.3	19.00
OU3MW-07I3	OU-3 Community Road	17.0	0	15	24	26	19	22	11	13	1	3	7	12	NS	22.5	5.75
OU3MW-07I4	OU-3 Community Road	0.0	0	0	0	0	0	0.02	2	0	2	2	2	2	NS	0.9	2.00
OU3MW-19S	87 Community Road	2.0	2	16	13	3	17	2	4	3	15	13	3	2	2.0	3.7	8.25
OU3MW-19I	87 Community Road	25.0	30	28	31	19	29	26	16	10	--	22	1	17	4.0	21.1	13.33
OU3MW-19I2	87 Community Road	11.0	10	14	2	6	5	0	3	4	2	0	2	3	2.0	5.9	1.75
OU3MW-20S	87 Community Road	13.0	34	19	27	11	21	23	7	9	7	0	16	20	15.0	22.7	10.75
OU3MW-20I	87 Community Road	24.0	25	29	11	19	32	23	6	17	27	18	14	16	2.0	24.4	18.75
OU3MW-20I2	87 Community Road	1.0	22	2	0	2	1	0	1	2	2	3	2	1	2.0	4.4	2.00
Temperature (degrees Celcius)																	
IO-10	OU-3 Community Road	--	15.25	22.79	15.10	12.11	--	13.72	10.82	16.76	21.18	14.51	12.63	18.74	14.9	15.5	16.77
MW-34S	OU-3 Community Road	--	13.51	19.57	15.27	7.62	--	15.08	13.72	14.43	21.7	13.09	9.82	15.97	13.9	14.9	15.15
MW-34I	OU-3 Community Road	--	14.45	17.25	15.04	10.91	--	15.55	11.25	14.26	17.98	15.34	13.06	14.57	14.3	14.8	15.24
MW-34D	OU-3 Community Road	--	13.86	15.59	13.52	11.93	--	14.34	12.08	14.52	17.21	14.68	13.39	14.45	14.3	14.6	14.93
MW-46WR	OU-3 Community Road	--	17.63	22.23	13.98	8.87	--	12.98	10.01	20.11	24.24	12.26	9.31	20.39	15.5	16.8	16.55
MW-70/70S	OU-3 Community Road	--	13.78	21.45	13.18	9.05	--	12.7	8.59	15.29	22.29	12.87	--	16.76	13.8	15.0	17.31
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	8.48	12.33	18.69	18.05	8.32	19.85	16.37	10.93	9.84	20.41	18.19	8.71	9.96	9.7	14.9	14.32
OU3MW-07I	OU-3 Community Road	10.98	13.75	16.29	15.86	10.96	16.4	16.49	14.16	10.53	19.11	17.60	12.40	11.89	11.1	15.1	15.25
OU3MW-07I2	OU-3 Community Road	11.94	14.59	19.42	15.14	11.28	16.24	16.29	14.56	11.11	18.72	16.30	12.38	12.50	12.0	14.7	14.98
OU3MW-07I3	OU-3 Community Road	6.68	14.22	16.57	14.92	12.29	15.39	15.9	9.84	12.41	19.91	15.78	12.81	12.83	NS	14.9	15.33
OU3MW-07I4	OU-3 Community Road	7.39	14.77	17.18	14.47	12.38	15.93	15.6	11.71	12.11	19.31	15.82	12.66	12.77	NS	14.3	15.14
OU3MW-19S	87 Community Road	7.23	11.95	18.44	16.83	8.92	21.47	14.01	10.47	10.67	19.90	15.97	10.64	11.74	18.0	14.0	14.56
OU3MW-19I	87 Community Road	10.24	12.91	15.42	15.64	11.53	19.8	14.58	12.95	12.88	--	15.49	13.46	13.51	15.7	14.5	14.15
OU3MW-19I2	87 Community Road	11.41	13.29	16.39	15.51	11.66	19.13	14.03	12.52	13.83	19.37	15.29	13.46	13.77	14.9	14.3	15.47
OU3MW-20S	87 Community Road	8.40	11.47	19.10	18.47	8.90	19.73	15.28	7.72	11.07	20.12	19.14	11.83	12.16	19.2	14.7	15.81
OU3MW-20I	87 Community Road	11.79	12.37	22.16	15.04	11.26	19.51	15.61	11.9	13.08	17.88	17.11	13.76	14.02	16.7	15.0	15.69
OU3MW-20I2	87 Community Road	11.89	13.02	17.14	14.13	10.28	16.73	14.75	12.99	14.2	17.85	16.09	13.41	14.42	16.1	14.4	15.44
Oxidation Reduction Potential (mV)																	
IO-10	OU-3 Community Road	--	164	167	161	223	--	152.00	265	199	168	191	176	160	47	103	174
MW-34S	OU-3 Community Road	--	-14	54	23	71	--	91	128	92	-10	36	60	136	-117	-11	56
MW-34I	OU-3 Community Road	--	184	193	159	225	--	193	225	155	225	187	136	197	-78	121	186
MW-34D	OU-3 Community Road	--	202	279	187	209	--	195.00	165	140	205	210	133	179	86	114	182
MW-46WR	OU-3 Community Road	--	60	71	106	301	--	84	199	167	138	116	155	144	-65	-21	138
MW-70/70S	OU-3 Community Road	--	62	90	74	224	--	59	194	167	52	51	--	142	-8	-23	82
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	--

Appendix E - Table E-3
Summary of Groundwater Parameter Data
OU-3 Oxygen Injection System
Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Bay Shore/Brightwaters Former MGP Site

Well ID	Oxygen Injection System	2019				2020			2021				2022		Baseline Average	Historical Average	Q3 2021 - Q2 2022 Average
		Q1	Q2	Q3	Q4	Q1	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2			
OU3MW-05S	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	100	75	--
OU3MW-05I	OU-3 Community Road	--	--	--	--	--	--	--	--	--	--	--	--	--	113	140	--
OU3MW-07S	OU-3 Community Road	219	217	214	34	157	188	98	101	227	206	5	111	234	-139	108	139
OU3MW-07I	OU-3 Community Road	236	293	247	366	224	266	216	205	228	207	103	154	245	-56	197	177
OU3MW-07I2	OU-3 Community Road	257	317	203	368	186	287	250	215	236	196	141	177	259	18	184	193
OU3MW-07I3	OU-3 Community Road	243	332	204	237	314	269	269	284	233	158	13	196	270	NS	229	159
OU3MW-07I4	OU-3 Community Road	188	281	198	210	285	228	229	229	219	176	-1	190	248	NS	186	153
OU3MW-19S	87 Community Road	39	88	30	30	46	75	-6	60	119	26	-32	-21	161	-60	4	34
OU3MW-19I	87 Community Road	219	170	272	319	209	198	186	163	207	--	173	127	300	-92	169	200
OU3MW-19I2	87 Community Road	253	186	209	188	267	231	189	190	225	194	158	146	314	88	178	203
OU3MW-20S	87 Community Road	226	220	226	252	243	230	189	229	252	159	-9	137	305	97	187	148
OU3MW-20I	87 Community Road	217	193	215	172	245	222	122	248	247	246	152	102	293	-112	181	198
OU3MW-20I2	87 Community Road	187	228	233	181	186	223	137	169	230	250	158	146	289	80	176	211

1 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

Recent Iso-Concentration Maps –Q3 2021, Q4 2021, Q1 2022

[illegible]

Q3 2021

Q3 2021 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (ug/L)	Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (ug/L)
OU-1 and OU-2					
BBMW-201	35-45	1.2	OU2MW-5712	35-45	ND
BBMW-221	30-40	330.1	OZMW-181	20-30	ND
BBMW-341	25-30	547.1	OZMW-182	35-45	ND
BBMW-342	40-45	34	OZMW-171	20-30	ND
BBMW-381	25-30	4	OZMW-172	35-45	ND
BBMW-382	35-45	3	OZMW-181	20-30	ND
BBMW-411	25-30	144	OZMW-182	35-45	0.81
MW-55D	35-5+5.5	50	OZMW-191	20-30	767.9
OU2MW-025	20-25	82	OZMW-192	35-45	155.89
OU2MW-021	35-40	78	OZMW-211	20-30	350
OU2MW-06	15-25	ND	OZMW-212	35-45	42
OU2MW-111	20-25	ND	OZMW-231	20-30	ND
OU2MW-112	30-35	ND	OZMW-232	35-45	ND
OU2MW-11D	40-45	ND	OZMW-241	20-30	ND
OU2MW-121	20-25	ND	OZMW-242	35-45	145.68
OU2MW-122	30-35	ND	OZMW-251	20-30	348.9
OU2MW-12D	40-45	ND	OZMW-252	35-45	1.36
OU2MW-191	13-23	ND	OZMW-282	35-45	ND
OU2MW-192	35-45	ND	OU-3		
OU2MW-271	25-30	ND	IP-16A	14-15	ND
OU2MW-272	45-50	ND	IP-20A	14-15	ND
OU2MW-281	28-33	ND	IP-20B	24-25	851.4
OU2MW-282	40-45	ND	MW-64	19-24	144
OU2MW-291	18-23	ND	OU3MW-071	15-20	ND
OU2MW-292	30-35	ND	OU3MW-072	20-25	ND
OU2MW-29D	45-50	ND	OU3MW-073	25-30	ND
OU2MW-301	25-30	ND	OU3MW-074	35-40	ND
OU2MW-302	30-35	ND	OU3MW-091	25-30	26.75
OU2MW-303	45-50	ND	OU3MW-101	25-30	22.1
OU2MW-311	15-23	ND	OU3MW-191	20-25	ND
OU2MW-312	30-35	ND	OU3MW-192	30-35	1.5
OU2MW-391	25-30	ND	OU3MW-201	20-25	0
OU2MW-392	45-50	ND	OU3MW-202	30-35	5.3
OU2MW-401	18-23	ND	OU3MW-231P-17B	10-15	43.8
OU2MW-411	18-23	ND	OU3MW-241P-19A	10-15	2.3
OU2MW-471	20-25	ND	OU3MW-242P-19B	25-30	28.39
OU2MW-472	40-45	ND	OU-4		
OU2MW-501	25-30	ND	WCMW-051	10-11	24.81
OU2MW-502	45-50	ND	WCMW-052	25-30	45
OU2MW-571	20-30	ND	WCMW-301	20-25	7.6

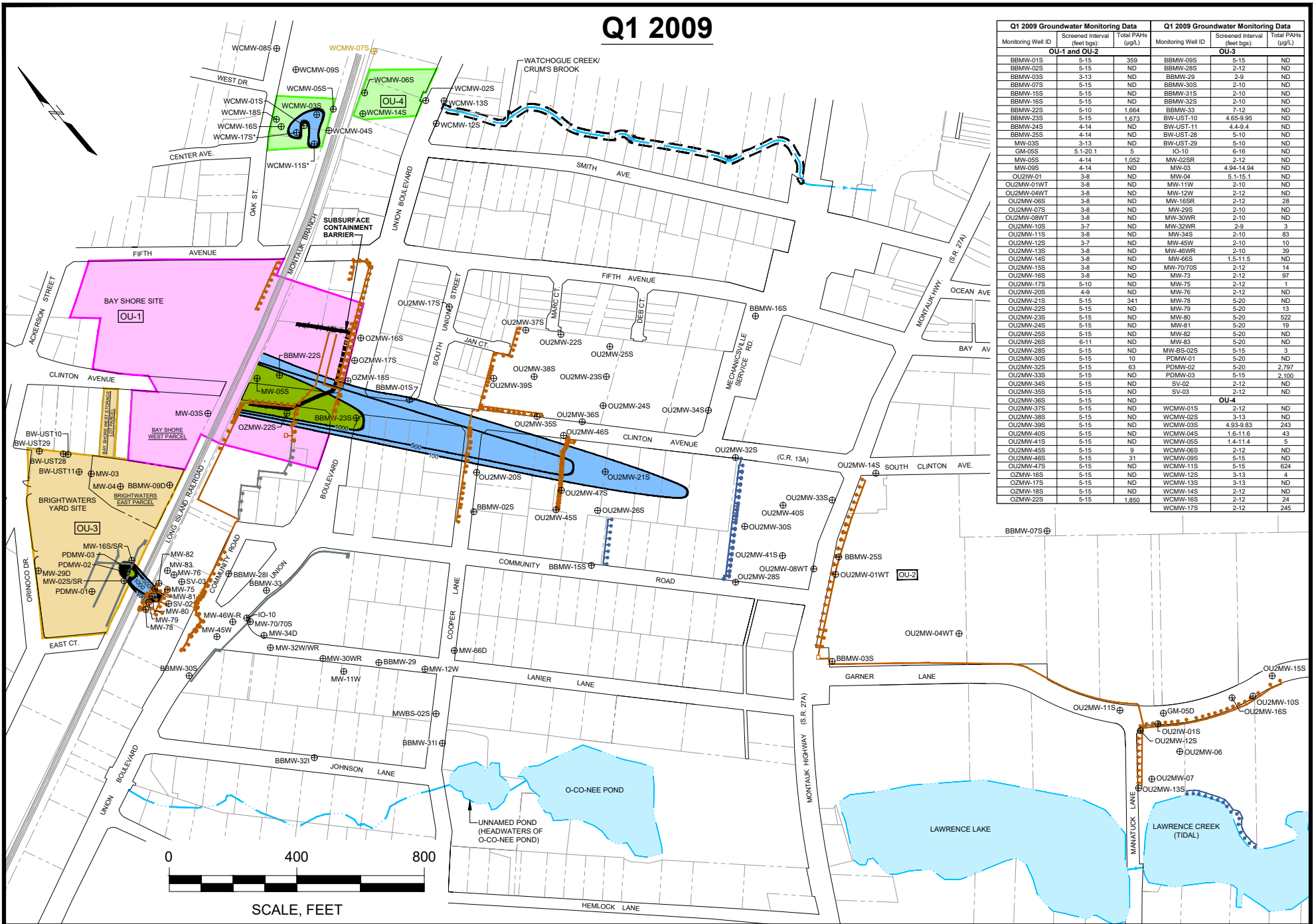
NOTE:
* INDICATES WELL NOT SAMPLED IN Q3 2021 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.

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

nationalgrid

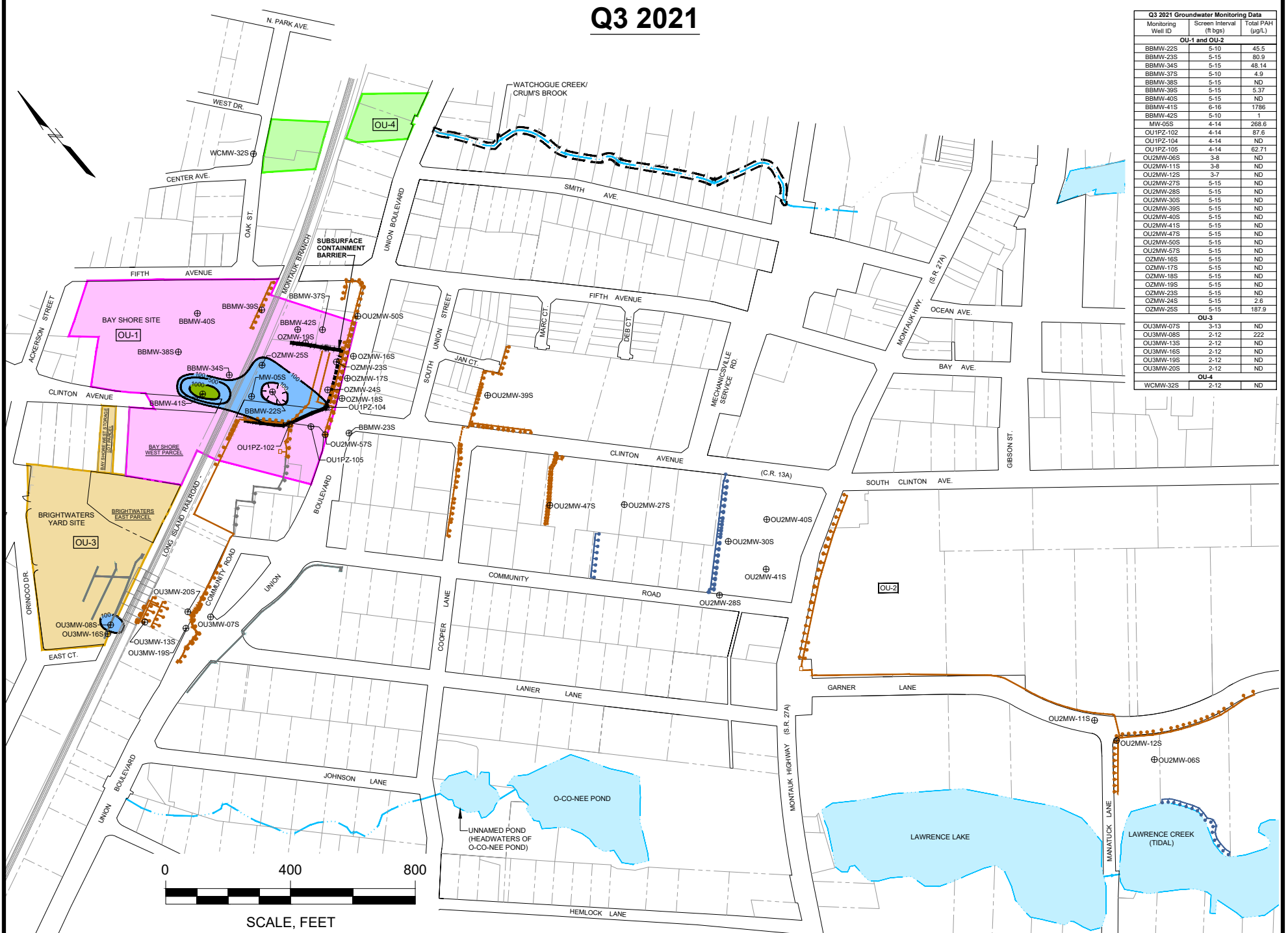
INTERMEDIATE GROUNDWATER TOTAL BTEX ISO-CONCENTRATION MAPS (10-50 FEET BGS)	
February 2022	Fig. 5

Q1 2009



Q1 2009 Groundwater Monitoring Data				Q1 2009 Groundwater Monitoring Data			
Monitoring Well ID	Screened Interval (feet)	Total PAs (ppg)		Monitoring Well ID	Screened Interval (feet)	Total PAs (ppg)	
OU-1 and OU-2				OU-3			
BBMW-015	5-15	359		BBMW-09S	5-15	ND	
BBMW-025	5-15	ND		BBMW-28S	2-12	ND	
BBMW-03S	3-13	ND		BBMW-29	2-9	ND	
BBMW-03S	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-23S	5-10	1,654		BBMW-33	7-12	ND	
BBMW-23S	5-15	1,673		BW-UST-10	4,655-95	ND	
BBMW-24S	4-14	ND		BW-UST-11	4,494-9	ND	
BBMW-25S	4-14	ND		BW-UST-12	5-10	ND	
MW-05S	2-13	ND		BW-UST-39	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	
OU2M-01	3-8	ND		MW-04	5-11.5	10	
OU2M-01WT	3-8	ND		MW-11W	2-10	ND	
OU2M-04W	3-8	ND		MW-12W	2-12	ND	
OU2M-06S	3-8	ND		MW-16SR	2-12	28	
OU2M-07S	3-8	ND		MW-29S	2-10	ND	
OU2M-08WT	3-8	ND		MW-30WR	2-12	ND	
OU2M-10S	3-7	ND		MW-32WR	2-9	3	
OU2M-11S	3-8	ND		MW-34S	2-10	83	
OU2M-12S	3-7	ND		MW-45W	5-10	10	
OU2M-13S	3-8	ND		MW-46WR	2-10	39	
OU2M-14S	3-8	ND		MW-66S	1.5-11.5	ND	
OU2M-15S	3-8	ND		MW-707BS	2-12	14	
OU2M-16S	3-8	ND		MW-72	2-12	97	
OU2M-17S	10-10	ND		MW-75	2-12	1	
OU2M-20S	4-9	ND		MW-76	2-12	ND	
OU2M-21S	5-15	341		MW-78	5-20	20	
OU2M-22S	5-15	ND		MW-79	5-20	13	
OU2M-23S	5-15	ND		MW-80	5-20	522	
OU2M-24S	5-15	ND		MW-81	5-20	19	
OU2M-25S	5-15	ND		MW-82	5-20	20	
OU2M-26S	6-11	ND		MW-83	5-10	3	
OU2M-26S	5-15	ND		MW-85-02S	5-20	ND	
OU2M-30S	5-15	10		PDMM-01	5-20	ND	
OU2M-33S	5-15	63		PDMM-02	5-20	2,797	
OU2M-33S	5-15	ND		PDMM-03	5-20	2,100	
OU2M-34S	5-15	ND		SV-02	2-12	ND	
OU2M-35S	5-15	ND		SV-03	2-12	ND	
OU2M-36S	5-15	ND		OU-4			
OU2M-37S	5-15	ND		WCMMW-01S	3-13	ND	
OU2M-37S	5-15	ND		WCMMW-02S	2-12	ND	
OU2M-39S	5-15	ND		WCMMW-03S	4,939-83	243	
OU2M-40S	5-15	ND		WCMMW-04S	1,161-11	43	
OU2M-41S	5-15	ND		WCMMW-05S	1,414-1.4	5	
OU2M-45S	5-15	9		WCMMW-06S	2-12	ND	
OU2M-46S	5-15	91		WCMMW-09S	5-15	ND	
OU2M-47S	5-15	ND		WCMMW-11S	5-15	624	
OZMW-16	5-15	ND		WCMMW-12S	3-13	4	
OZMW-17S	5-15	ND		WCMMW-13S	3-13	4	
OZMW-16S	5-15	ND		WCMMW-14S	2-12	ND	
OZMW-22S	5-15	1,850		WCMMW-16S	2-12	24	
				WCMMW-17S	2-12	245	

Q3 2021



Q3 2021 Groundwater Monitoring Data			
Monitoring Well ID	Screen Interval (ft bgs)	Total PAH (µg/L)	
OU-1 and OU-2			
BMW-222	5-10	45.5	
BMW-235	5-15	80.9	
BMW-34S	5-15	48.14	
BMW-37S	5-10	4.9	
BMW-38S	5-15	ND	
BMW-39S	5-15	5.37	
BMW-40S	5-15	ND	
BMW-41S	6-16	1786	
BMW-42S	5-10	1	
OU1P2-104	4-14	288.8	
OU1P2-102	4-14	87.8	
OU1P2-104	4-14	ND	
OU1P2-105	4-14	62.71	
OU2M-06S	3-8	ND	
OU2M-11S	3-8	ND	
OU2M-12S	3-7	ND	
OU2M-27S	5-15	ND	
OU2M-28S	5-15	ND	
OU2M-30S	5-15	ND	
OU2M-30S	5-15	ND	
OU2M-40S	5-15	ND	
OU2M-41S	5-15	ND	
OU2M-47S	5-15	ND	
OU2M-50S	5-15	ND	
OU2M-51S	5-15	ND	
OU2M-16S	5-15	ND	
OU2M-17S	5-15	ND	
OU2M-18S	5-15	ND	
OU2M-19S	5-15	ND	
OU2M-23S	5-15	ND	
OU2M-24S	5-15	2.6	
OU2M-25S	5-15	187.9	
OU-3			
OU3M-07S	3-13	ND	
OU3M-08S	2-12	222	
OU3M-13S	2-12	ND	
OU3M-16S	2-12	ND	
OU3M-19S	2-12	ND	
OU3M-20S	2-12	ND	
OU-4			
WCWM-32S	2-12	ND	

BBMW-33	EXISTING MONITORING WELL CLUSTER LOCATION		TOTAL PAH $\approx 100 \mu\text{g/L}$		OXYGEN INJECTION LINE - INSTALLED
$\mu\text{g/L}$	MICROGRAMS PER LITER				OXYGEN INJECTION LINE - SHUT OFF
PAH	POLYCYCLIC AROMATIC HYDROCARBONS		TOTAL PAH $\approx 1,000 \mu\text{g/L}$		OXYGEN INJECTION LINE - ABANDONED
					ISO-CONCENTRATION LINE ($\mu\text{g/L}$)

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

GEI 
Consultants

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

Project 1905774

February 2022

Fig. 4

Q1 2009

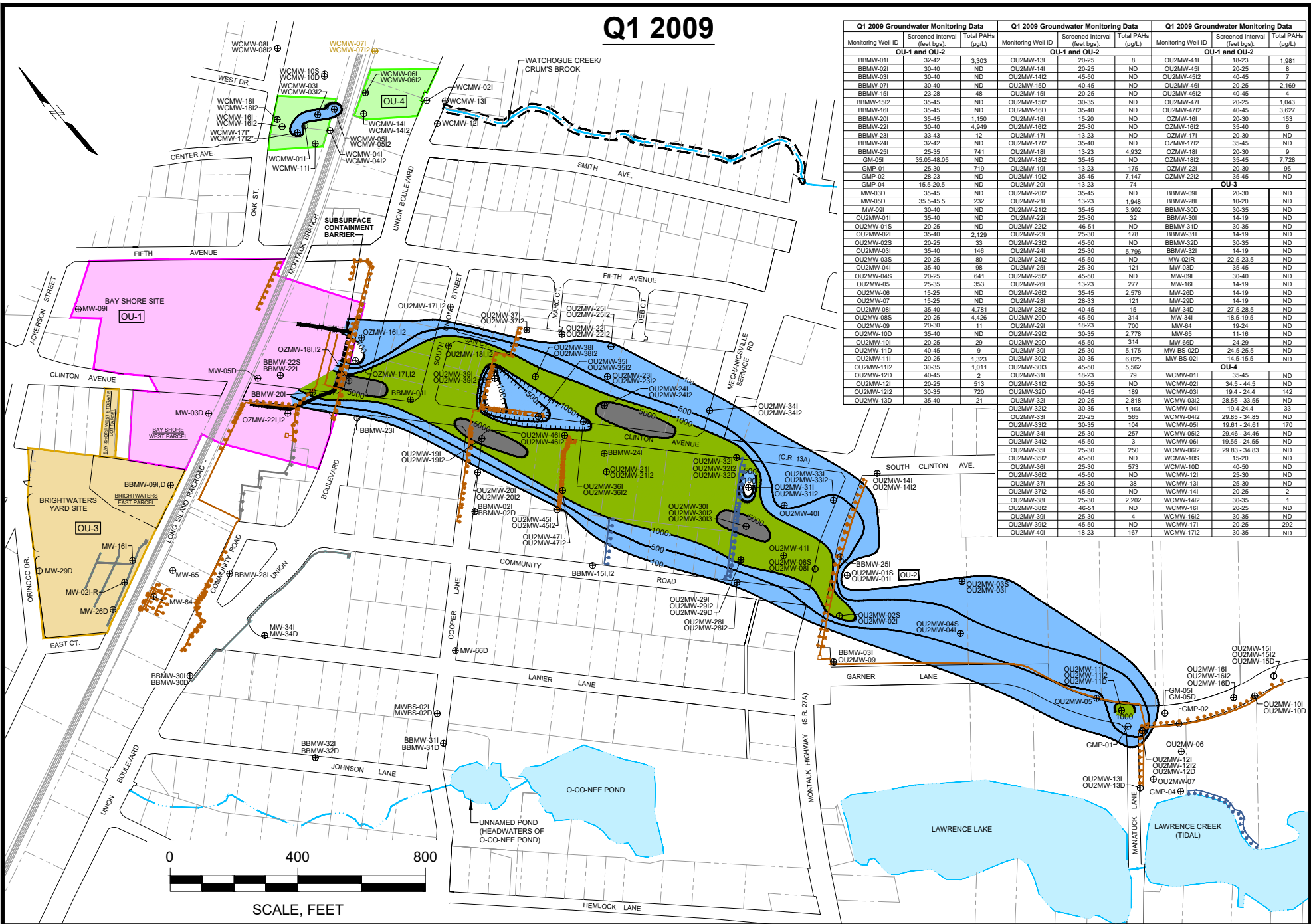
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WCMW-082
WCMW-105
WCMW-106
WCMW-051
WCMW-052
WCMW-031
WCMW-032
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WCMW-111
WCMW-181
WCMW-182
WCMW-041
WCMW-042
WCMW-091
WCMW-062
WCMW-021
WCMW-131
WCMW-121
WCMW-141
WCMW-142
WATCHOGUE CREEK/
CRUM'S BROOK
SMITH AVE
UNION BOULEVARD
CENTER AVE
OAK ST
FIFTH AVENUE
ACKERSON STREET
CLINTON AVENUE
BAY SHORE SITE
OU-1
MW-091
MW-03D
BAY SHORE WEST PARCEL
BRIGHTWATERS
YARD SITE
OU-3
MW-161
MW-29D
MW-021-R
MW-26D
ORINOCO DR
EAST CT
LONG ISLAND RAILROAD
COMMUNITY ROAD
BOULEVARD
COMMUNITY ROAD
UNION
MW-341
MW-34D
BBMW-301
BBMW-30D
BBMW-321
BBMW-32D
BBMW-311
BBMW-31D
UNNAMED POND (HEADWATERS OF O-CO-NEE POND)
O-CO-NEE POND
HEMLOCK LANE
LANIER LANE
COOPER LANE
MONTAUK HIGHWAY (S.R. 27A)
GARNER LANE
LAWRENCE LAKE
LAWRENCE CREEK (TIDAL)
OZ2MW-151
OZ2MW-152
OZ2MW-15D
OZ2MW-101
OZ2MW-10D
GMP-02
GMP-04
OZ2MW-07
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OZ2MW-131
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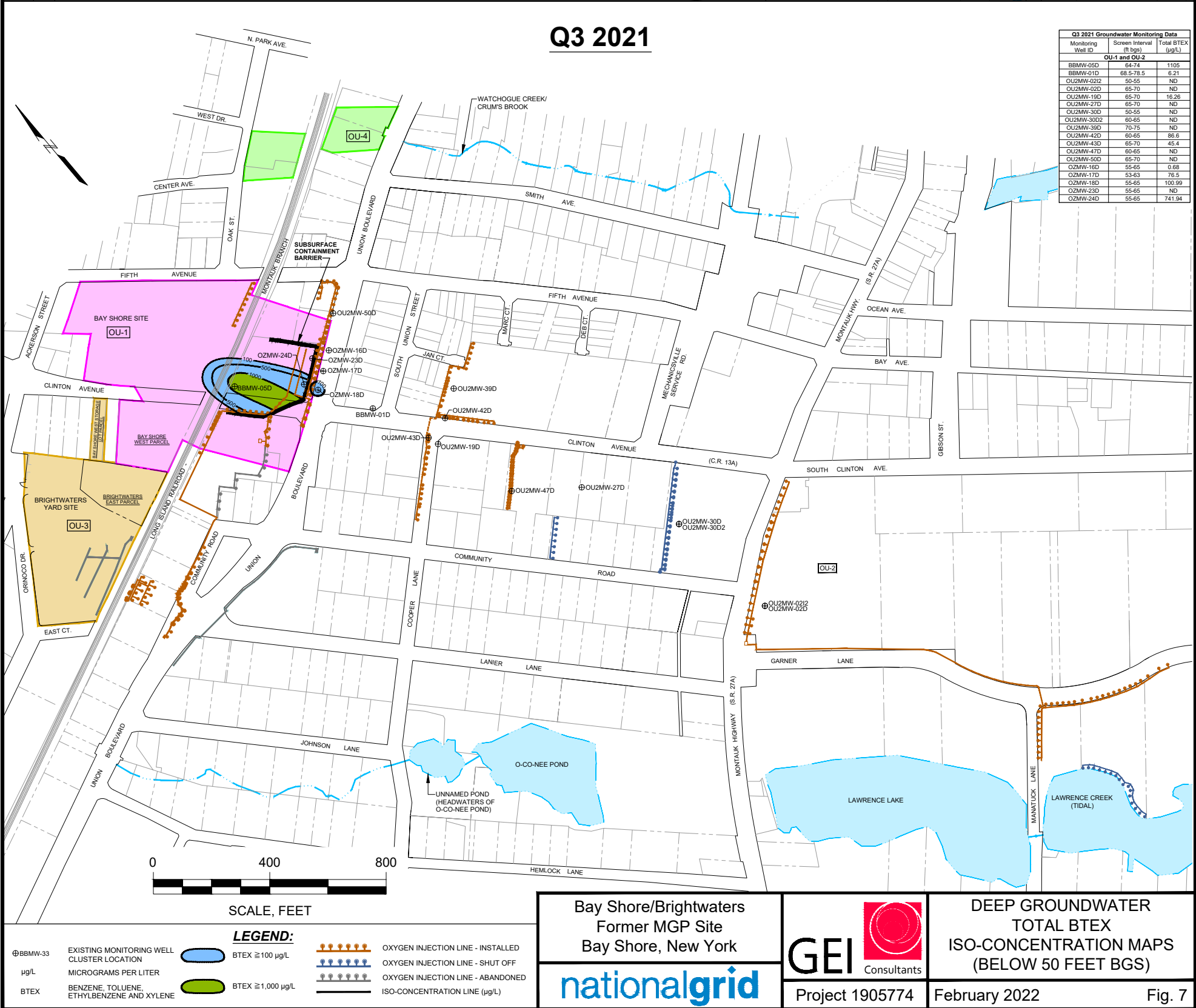
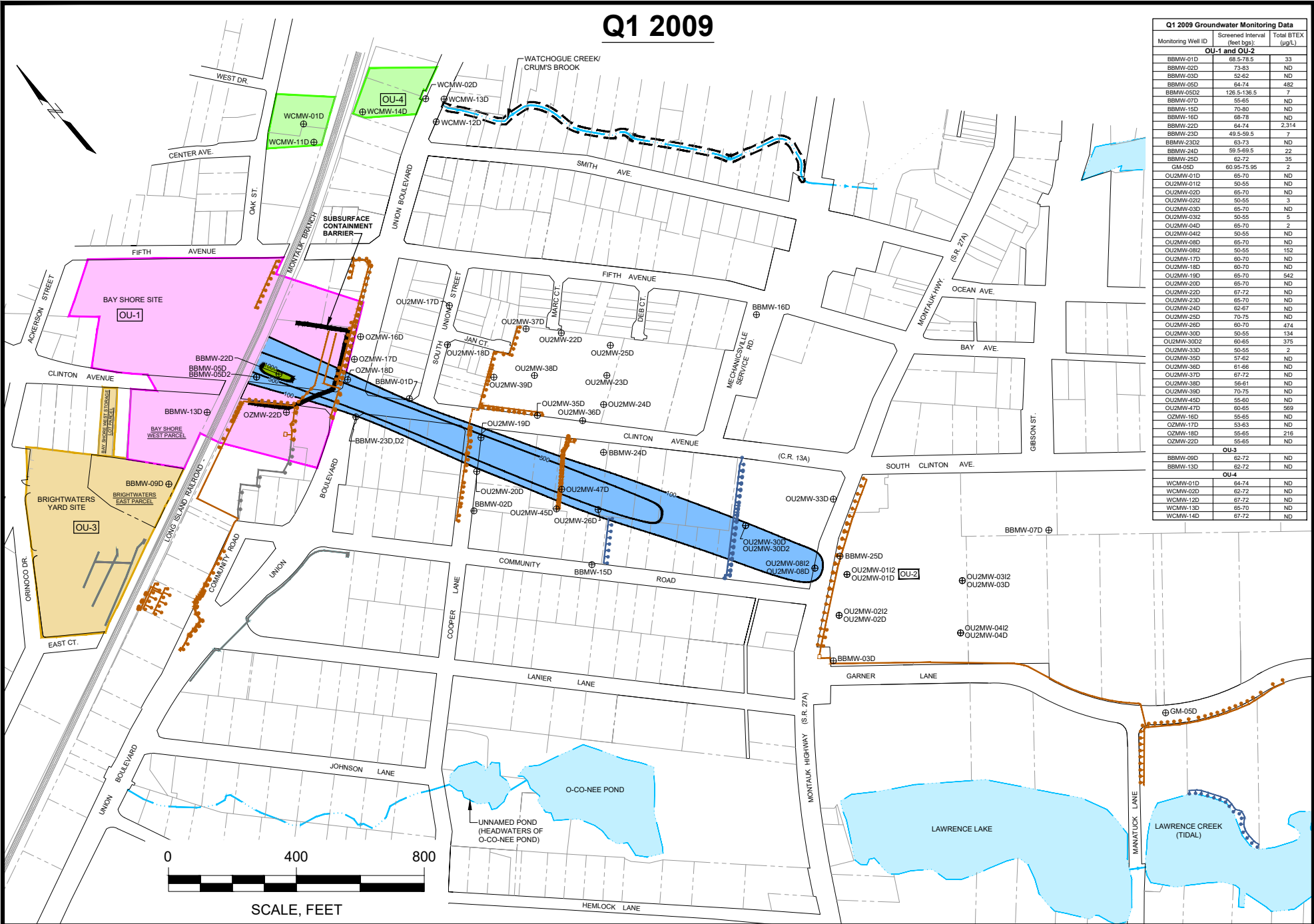
Q3 2021

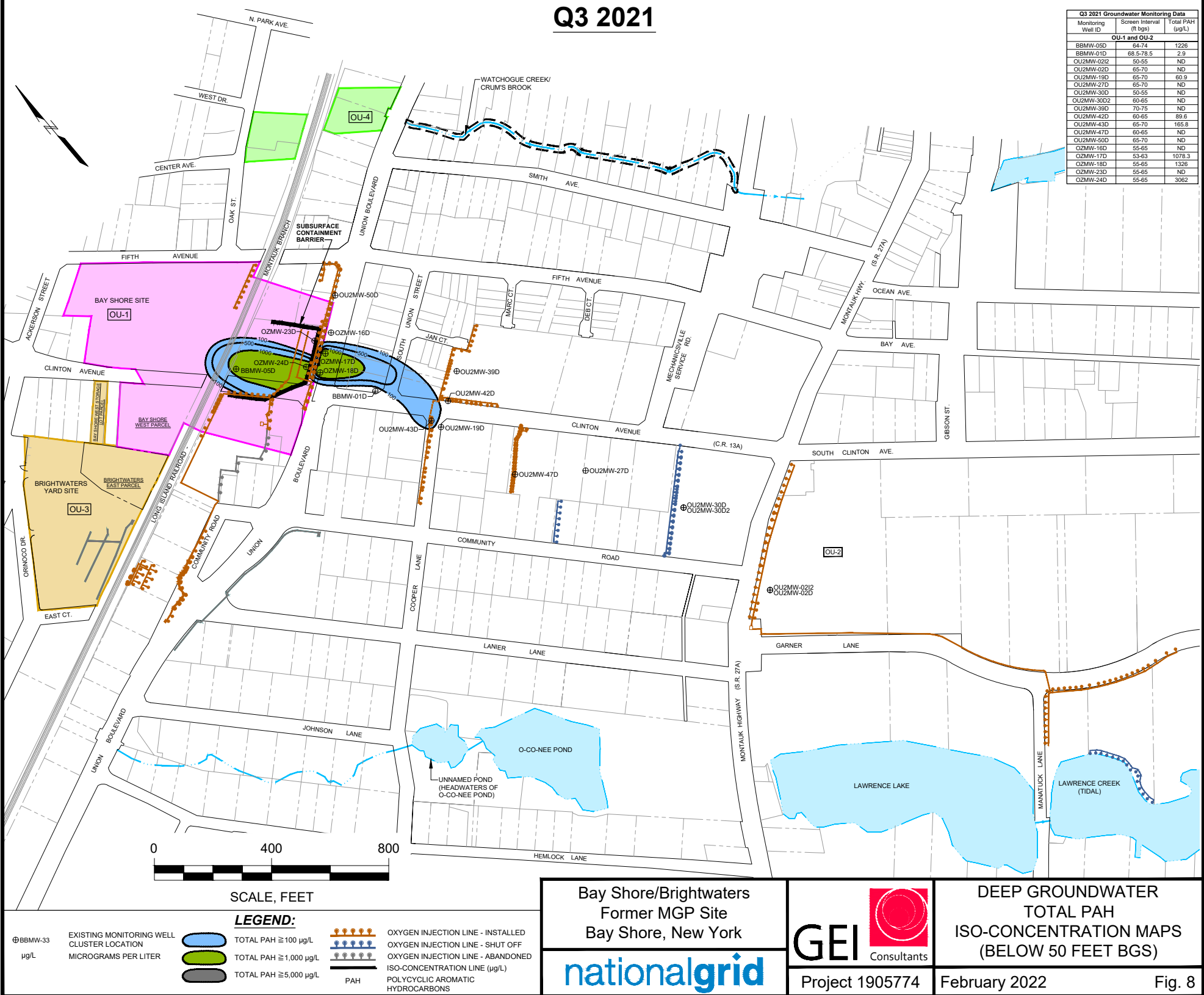
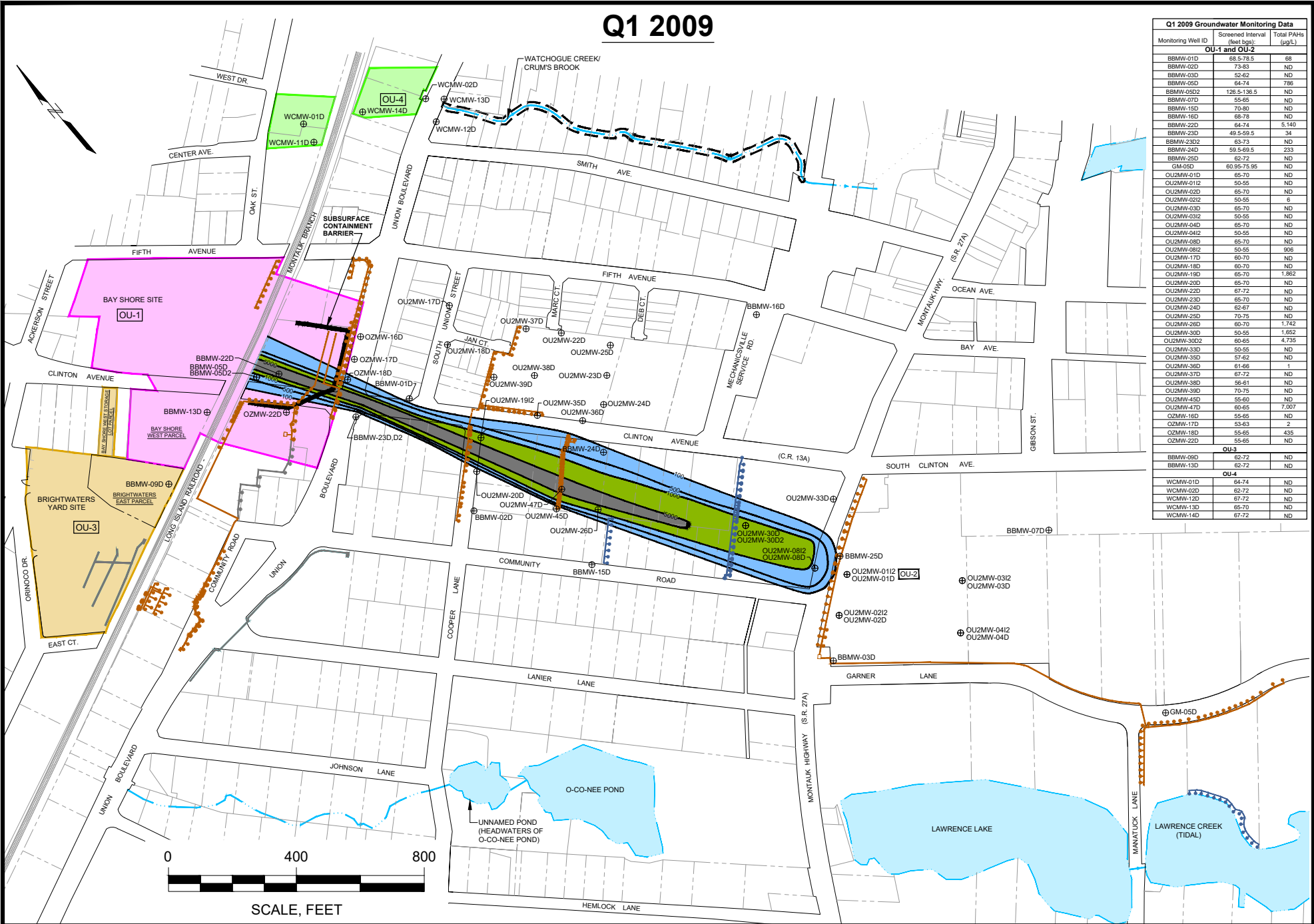
Q3 2021 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
BMW-201	35-45	1.2
BMW-221	30-40	330.1
BMW-341	25-30	547.1
BMW-342	40-45	34
BMW-381	25-30	4
BMW-382	35-45	3
BMW-411	25-30	144
MW-250	35.5-45.5	50
OZMW-02S	20-25	82
OZMW-06	15-25	ND
OZMW-111	20-25	ND
OZMW-112	30-35	ND
OZMW-11D	40-45	ND
OZMW-121	20-25	ND
OZMW-122	30-35	ND
OZMW-12D	40-45	ND
OZMW-191	13-23	ND
OZMW-192	35-45	ND
OZMW-271	25-30	ND
OZMW-272	45-50	ND
OZMW-281	28-33	ND
OZMW-282	40-45	ND
OZMW-291	18-23	ND
OZMW-292	30-35	ND
OZMW-29D	45-50	ND
OZMW-301	25-30	ND
OZMW-302	30-35	ND
OZMW-303	45-50	ND
OZMW-311	18-23	ND
OZMW-312	30-35	ND
OZMW-401	ND	ND
OZMW-402	ND	ND
OZMW-411	18-23	ND
OZMW-412	30-35	ND
OZMW-471	ND	ND
OZMW-472	ND	ND
OZMW-473	ND	ND
OZMW-474	ND	ND
OZMW-475	ND	ND
OZMW-476	ND	ND
OZMW-477	ND	ND
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OZMW-570	ND	ND
OZMW-571	ND	ND
OZMW-572	ND	ND
OZMW-573	ND	ND
OZMW-574	ND	ND
OZ		

Fig. 5







[illegible]

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-07S	5-15	ND		BBMW-33S	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	11,880		BW-U3T-10	4,655-95	ND	
BBMW-24S	4-14	ND		BW-U3T-11	4,654-95	ND	
BBMW-25S	4-14	ND		BW-U3T-28	5-10	ND	
GM-05S	5.1-20.1	8		BW-U3T-29	5-10	ND	
MW-03S	3-13	24		IC-10	6-16	ND	
MW-04S	4-14	9,600		MW-02SR	2-12	812	
OU2IW-01	3-8	ND		MW-03	4,944-144	6	
OU2MW-01WT	3-8	ND		MW-04	5.1-15.1	ND	
OU2MW-04WT	3-8	ND		MW-09S	4-14	ND	
OU2MW-05S	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-36S	3-8	ND		MW-46WR	5-20	525	
OU2MW-16S	3-8	ND		MW-46S	15.1-15	ND	
OU2MW-17S	5-10	ND		MW-7070S	2-12	1,124	
OU2MW-20S	4-9	ND		MW-73	2-12	7,100	
OU2MW-21S	5-15	870		MW-75	2-12	565	
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-35S	5-15	ND		WM-80	5-20	55,400	
OU2MW-36S	6-11	ND		MW-81	5-20	287	
OU2MW-28S	5-15	ND		MW-82	5-20	6,151	
OU2MW-30S	5-15	3		WM-83	5-20	ND	
OU2MW-32S	5-15	ND		MW-85S-02S	5-12	98	
OU2MW-33S	5-15	ND		PDMM-01	5-20	ND	
OU2MW-34S	5-15	ND		PDMM-02	5-20	59,210	
OU2MW-36S	5-15	9		PDMM-03	5-15	14,511	
OU2MW-38S	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		WCWM-01S	2-12	3	
OU2MW-40S	5-15	ND		WCWM-02S	3-13	ND	
OU2MW-41S	5-15	8		WCWM-03S	4	3,940-83	
OU2MW-46S	5-15	80		WCWM-04S	16.1-16	31	
OU2MW-46S	5-15	422		WCWM-05S	14.1-14	ND	
OU2MW-47S	5-15	146		WCWM-06S	2-12	ND	
OU2MW-48S	5-15	ND		WCWM-07S	5-15	ND	
OU2MW-17S	5-15	141		WCWM-12S	3-13	ND	
OU2MW-18S	5-15	244		WCWM-13S	3-13	ND	
OU2MW-22S	5-15	11,947		WCWM-14S	2-12	ND	

Q4 2021

Map showing the O-Co-Nee River watershed area, including monitoring wells, property boundaries, and water bodies. The map includes a scale bar (0 to 800 feet) and a north arrow.

Key locations and features:

- Monitoring wells: BBMW-39S, BBMW-40S, BBMW-37S, BBMW-42S, OZMW-25S, OZMW-22S, MW-05S, BBMW-34S, BBMW-41S, OUIPZ-101, OUIPZ-102, OUIPZ-103, OUIPZ-105, OZMW-19S, OZMW-16S, OZMW-23S, OZMW-17S, OZMW-24S, OZMW-18S, OUIPZ-103, OUIPZ-104, OZMW-47S, OZMW-27S, OZMW-30S, OZMW-41S, OZMW-28S, OZMW-19S, OZMW-23S, OZMW-24S, OZMW-25S, OZMW-26S, OZMW-27S, OZMW-28S, OZMW-29S, OZMW-30S, OZMW-31S, OZMW-32S, OZMW-33S, OZMW-34S, OZMW-35S, OZMW-36S, OZMW-37S, OZMW-38S, OZMW-39S, OZMW-40S, OZMW-41S, OZMW-42S, OZMW-43S, OZMW-44S, OZMW-45S, OZMW-46S, OZMW-47S, OZMW-48S, OZMW-49S, OZMW-50S, OZMW-51S, OZMW-52S, OZMW-53S, OZMW-54S, OZMW-55S, OZMW-56S, OZMW-57S, OZMW-58S, OZMW-59S, OZMW-60S, OZMW-61S, OZMW-62S, OZMW-63S, OZMW-64S, OZMW-65S, OZMW-66S, OZMW-67S, OZMW-68S, OZMW-69S, OZMW-70S, OZMW-71S, OZMW-72S, OZMW-73S, OZMW-74S, OZMW-75S, OZMW-76S, OZMW-77S, OZMW-78S, OZMW-79S, OZMW-80S, OZMW-81S, OZMW-82S, OZMW-83S, OZMW-84S, OZMW-85S, OZMW-86S, OZMW-87S, OZMW-88S, OZMW-89S, OZMW-90S, OZMW-91S, OZMW-92S, OZMW-93S, OZMW-94S, OZMW-95S, OZMW-96S, OZMW-97S, OZMW-98S, OZMW-99S, OZMW-100S.
- Water bodies: O-Co-Nee River, Lawrence Lake, O-Co-Nee Pond, Unnamed Pond (Headwaters of O-Co-Nee Pond), Lawrence Creek (Tidal).
- Property boundaries: Brightwaters Yard Site, Brightwaters East Parcel, Bay Shore Site, Bay Shore West Parcel.
- Streets: N Park Ave, Center Ave, Union Blvd, Union Street, Jan Ct, Marc Ct, Des Ct, Clinton Avenue, Fifth Avenue, South Clinton Ave, Garner Lane, Hemlock Lane, Johnson Lane, Cooper Lane, Community Road, C.R. 13A, Montauk Hwy (S.R. 27A), Manatuck Lane, Gibson St, Ocean Ave, Bay Ave, Mechanicsville Service Rd.

Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	1940.1
BBMW-23S	5-15	1006.9
BBMW-34S	5-15	113.01
BBMW-37S	5-10	5.68
BBMW-38S	5-15	5.4
BBMW-39S	5-15	13.8
BBMW-40S	5-15	5.8
BBMW-41S	6-16	3706.6
BBMW-42S	5-10	3.7
MW-05S	4-14	945.7
OUIPZ-101	4-14	1340
OUIPZ-102	4-14	152.5
OUIPZ-103	4-14	65.38
OUIPZ-105	4-14	27.3
OZMW-12S	3-7	ND
OZMW-27S	5-15	ND
OZMW-28S	5-15	ND
OZMW-30S	5-15	ND
OZMW-39S	5-15	ND
OZMW-40S	5-15	ND
OZMW-41S	5-15	ND
OZMW-47S	5-15	ND
OZMW-50S	5-15	ND
OZMW-57S	5-15	3.2
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	170.48
OZMW-23S	5-15	ND
OZMW-24S	5-15	0.48
OZMW-25S	5-15	1079.3
OU-3		
MW-83	5-20	ND
OZMW-07S	3-13	ND
OZMW-08S	2-12	1221
OZMW-16S	2-12	1.82
OZMW-19S	2-12	3.1
OZMW-20S	2-12	1.4

Q4 2021 Groundwater Monitoring Data			
Monitoring Well	Screen Interval (ft bgs)	Total BTEX (µg/L)	
OU-1 and OU-2			
BBMW-22	5-10	1940.1	
BBMW-23S	5-15	1006.9	
BBMW-34S	5-15	113.01	
BBMW-37S	5-10	5.68	
BBMW-38S	5-15	5.4	
BBMW-40S	5-15	13.8	
BBMW-40S	5-15	5.8	
BBMW-41S	6-16	3706.6	
BBMW-42S	5-10	3.7	
MW-26S	4-14	945.7	
OU1PZ-01	4-14	1340	
OU1PZ-02	4-14	152.5	
OU1PZ-103	4-14	65.38	
OU1PZ-05	4-14	27.3	
OU2MW-12S	3-7	ND	
OU2MW-27S	5-15	ND	
OU2MW-28S	5-15	ND	
OU2MW-30S	5-15	ND	
OU2MW-39S	5-15	ND	
OU2MW-40S	5-15	ND	
OU2MW-41S	5-15	ND	
OU2MW-43	5-15	ND	
OU2MW-57S	5-15	ND	
OU2MW-16S	5-15	3.2	
OU2MW-17S	5-15	ND	
OU2MW-18S	5-15	ND	
OU2MW-19S	5-15	170.48	
OU2MW-23S	5-15	ND	
OU2MW-24S	5-15	0.48	
OU2MW-25S	5-15	1079.3	
OU-3			
MW-83	5-20	ND	
OU3MW-07S	3-13	ND	
OU3MW-08S	2-12	1221	
OU3MW-16S	2-12	1.82	
OU3MW-19S	2-12	3.1	
OU3MW-20S	2-12	ND	

Fig. 3

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[illegible]

Q1 2009 Groundwater Monitoring Data			Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet)	Total PAHs (µg/L)	Monitoring Well ID	Screened Interval (feet)	Total PAHs (µg/L)
OU-1 and OU-2			OU-3		
BMW-01S	5-15	359	BMW-09S	5-15	ND
BMW-02S	5-15	ND	BMW-28S	2-12	ND
BMW-03S	3-13	ND	BMW-29	2-9	ND
BMW-07S	5-15	1,673	BMW-30S	2-10	ND
BMW-15S	5-15	ND	BMW-31S	2-10	ND
BMW-16S	5-15	ND	BMW-32S	2-10	ND
BMW-22S	5-10	1,664	BMW-33	7-12	ND
BMW-23S	5-15	1,673	BW-UST-ID	4,654-6,619	ND
BMW-24S	4-14	ND	BW-UST-11	4-4.94	ND
BMW-25S	4-14	ND	BW-UST-28	5-10	ND
MW-03S	3-13	ND	BW-UST-39	5-10	ND
QM-03S	5-120.1	5	ID-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
OUZWN-01	3-8	ND	MW-04	5.1-15.1	ND
OUZWN-1WT	3-8	ND	MW-11W	2-10	ND
OUZWN-4WT	3-8	ND	MW-12W	2-12	ND
OUZWN-06S	3-8	ND	MW-16SR	2-12	28
OUZWN-07S	3-8	ND	MW-20S	2-10	ND
OUZWN-48WT	3-8	ND	MW-30WR	2-9	ND
OUZWN-10S	3-7	ND	MW-32WR	2-9	3
OUZWN-11S	3-8	ND	MW-34S	2-10	83
OUZWN-12S	3-7	ND	MW-45W	2-10	10
OUZWN-13S	3-8	ND	MW-46WR	2-10	30
OUZWN-14S	3-8	ND	MW-66S	1.5-11.5	ND
OUZWN-15S	3-8	ND	MW-707S	2-12	14
OUZWN-16S	3-8	ND	MW-73	97	97
OUZWN-17S	5-10	ND	MW-75	2-12	1
OUZWN-20S	4-9	ND	MW-76	2-12	ND
OUZWN-21S	5-15	341	MW-78	5-20	ND
OUZWN-22S	5-15	ND	MW-79	13	ND
OUZWN-23S	5-15	ND	MW-80	5-20	522
OUZWN-24S	5-15	ND	MW-81	5-20	13
OUZWN-25S	5-15	ND	MW-82	5-20	ND
OUZWN-26S	5-11	ND	MW-83	5-20	ND
OUZWN-28S	5-15	ND	MW-B5-02S	5-15	3
OUZWN-30S	5-15	10	PDMM-01	5-20	ND
OUZWN-32S	5-15	83	PDMM-02	5-20	2,797
OUZWN-33S	5-15	ND	PDMM-03	5-20	2,109
OUZWN-34S	5-15	ND	SV-02	2-12	ND
OUZWN-35S	5-15	ND	SV-03	5-15	ND
OUZWN-36S	5-15	ND	OU-4		
OUZWN-37S	5-15	ND	WCMM-01S	2-12	ND
OUZWN-38S	5-15	ND	WCMM-02S	3-13	ND
OUZWN-39S	5-15	ND	WCMM-03S	4,93-8,93	243
OUZWN-40S	5-15	ND	WCMM-04S	18-11.8	43
OUZWN-41S	5-15	ND	WCMM-05S	1.4-11.4	ND
OUZWN-45S	5-15	9	WCMM-06S	2-12	ND
OUZWN-46S	5-15	31	WCMM-09S	5-15	ND
OUZWN-47S	5-15	ND	WCMM-11S	5-15	624
OWM-16S	5-15	ND	WCMM-12S	3-13	ND
OWM-17S	5-15	ND	WCMM-13S	3-13	ND
OWM-18S	5-15	ND	WCMM-14S	2-12	ND
OWM-22S	5-15	1,890	WCMM-16S	2-12	24
			WCMM-17S	2-12	245

Q4 2021

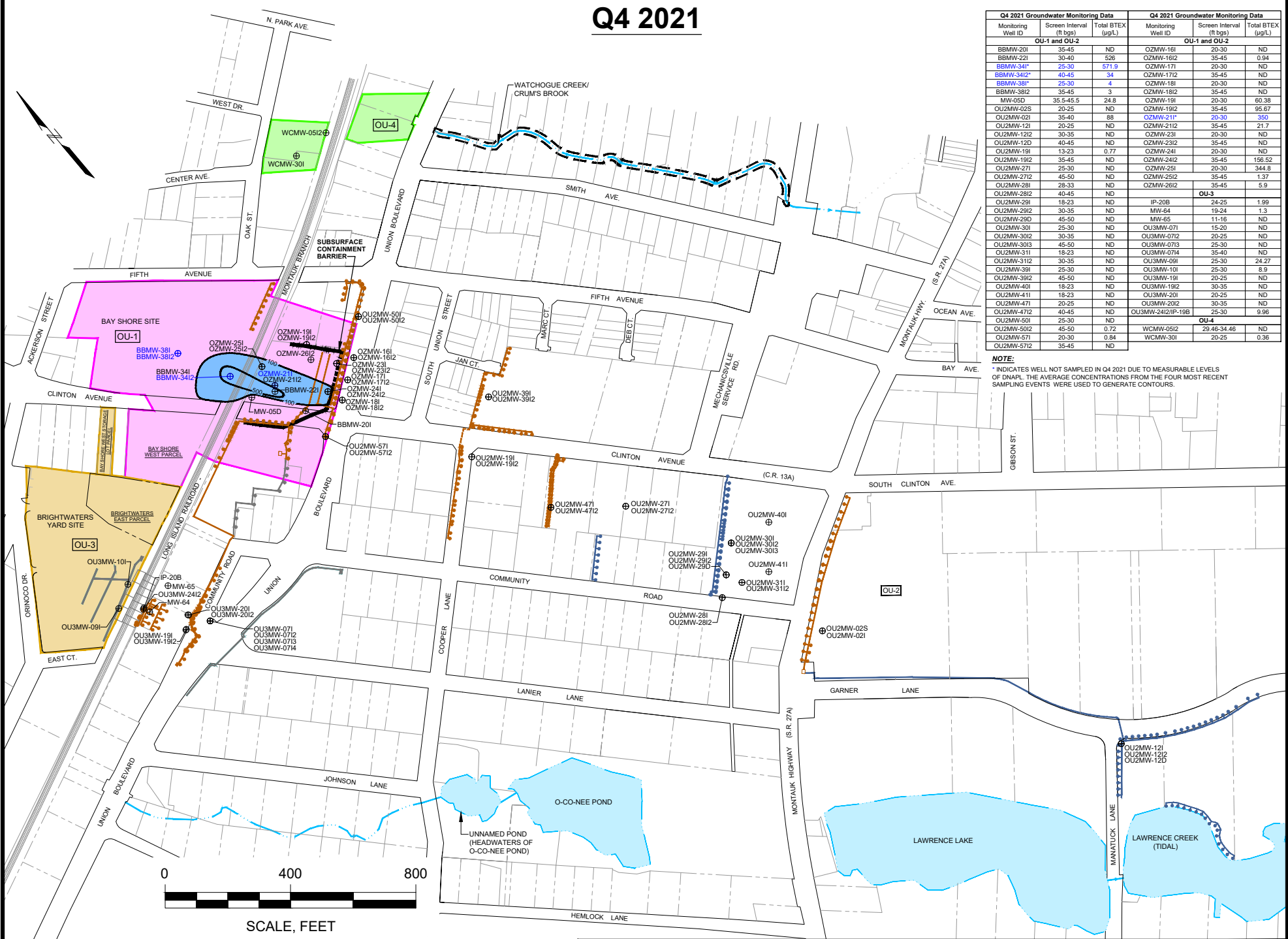
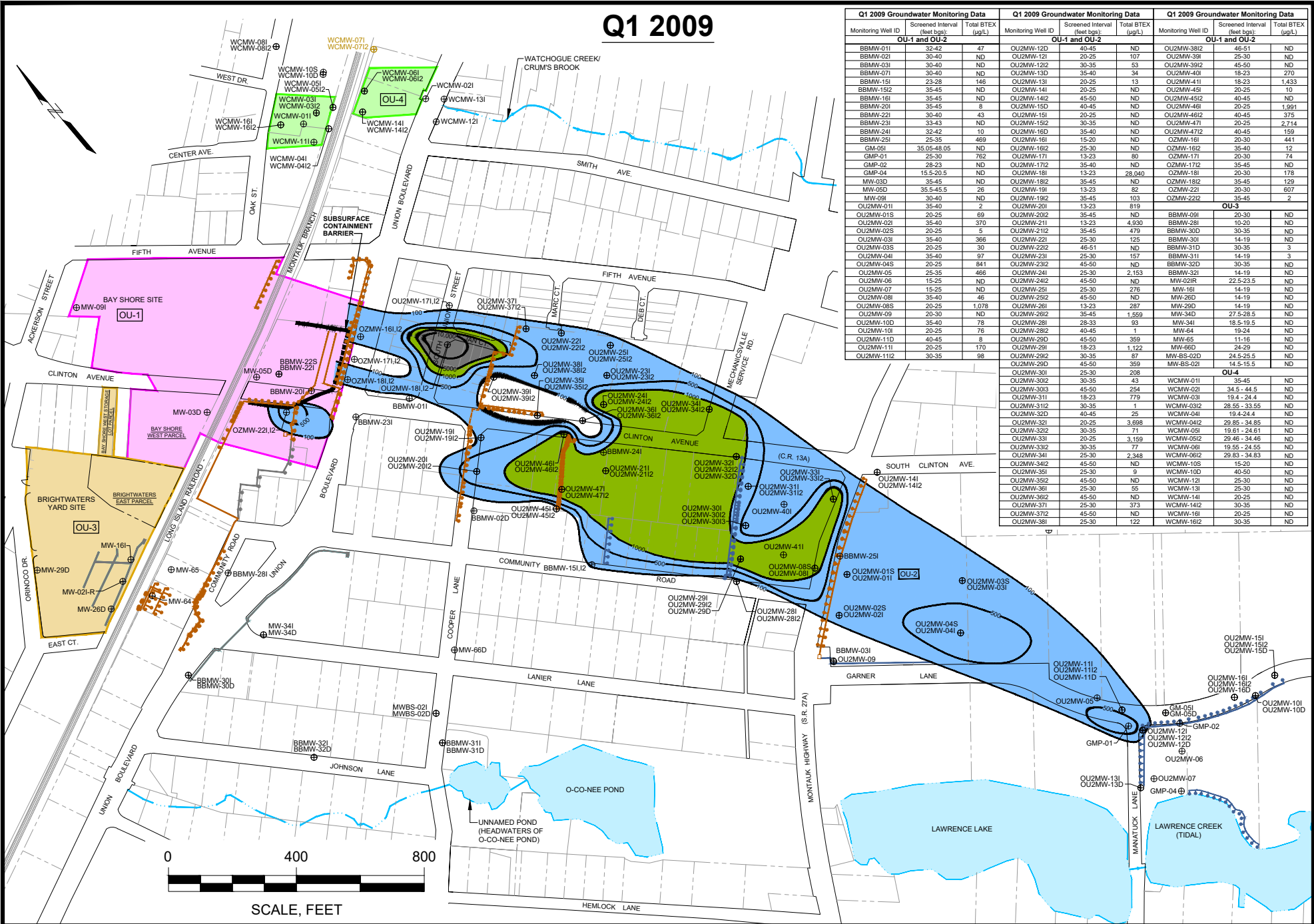
Q4 2021 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAH (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	122.3
BBMW-23S	5-15	75.1
BBMW-34S	5-15	70.2
BBMW-37S	5-10	1.7
BBMW-38S	5-15	ND
BBMW-39S	5-15	2
BBMW-40S	5-15	ND
BBMW-41S	6-16	922.3
BBMW-42S	5-10	2.8
MW-05S	4-14	106.3
OU1PZ-101	4-14	468.7
OU1PZ-102	4-14	52.3
OU1PZ-103	4-14	9.15
OU1PZ-105	4-14	5.02
OU2MW-12S	3-7	ND
OU2MW-27S	5-15	ND
OU2MW-28S	5-15	ND
OU2MW-30S	5-15	ND
OU2MW-39S	5-15	ND
OU2MW-40S	5-15	ND
OU2MW-41S	5-15	ND
OU2MW-47S	5-15	ND
OU2MW-50S	5-15	ND
OU2MW-57S	5-15	2.5
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	7.9
OZMW-23S	5-15	ND
OZMW-34S	5-15	ND
OZMW-25S	5-15	99
OU-3		
MW-83	5-20	ND
OU3MW-07S	3-13	ND
OU3MW-08S	2-12	81.4
OU3MW-16S	2-12	1.3
OU3MW-19S	2-12	ND
OU3MW-20S	2-12	ND

Q4 2021 Groundwater Monitoring Data			
Monitoring Well ID	Screen Interval (ft-bgs)	Screen Interval (ft-bgs)	Total PAH (µg/L)
BBMW-22S	-5.15	ND	122.3
BBMW-23S	-5.15	75.1	
BBMW-34S	-5.15	70.2	
BBMW-37S	-5.10	1.7	
BBMW-38S	-5.15	ND	
BBMW-40S	-5.15	2	
BBMW-40S	-5.15	ND	
BBMW-41S	-6.16	922.3	
BBMW-42S	-5.10	2.8	
MW-05S	-4.14	106.7	
OU1P2-102	-4.14	52.3	
OU1P2-103	-4.14	9.15	
OU1P2-105	-4.14	50.2	
OU2MW-12S	-3.7	ND	
OU2MW-27S	-5.15	ND	
OU2MW-35S	-5.15	ND	
OU2MW-30S	-5.15	ND	
OU2MW-39S	-5.15	ND	
OU2MW-40S	-5.15	ND	
OU2MW-41S	-5.15	ND	
OU2MW-47S	-5.15	ND	
OU2MW-50S	-5.15	ND	
OU2MW-57S	-5.15	2.5	
OU2MW-16S	-5.15	ND	
OU2MW-17S	-5.15	ND	
OU2MW-18S	-5.15	ND	
OU2MW-19S	-5.15	7.9	
OU2MW-23S	-5.15	ND	
OU2MW-24S	-5.15	ND	
OU2MW-25S	-5.15	99	
OU3			
MW-83	-5.20	ND	
OU3MW-07S	-3.13	ND	
OU3MW-08S	-2.12	81.4	
OU3MW-16S	-2.12	1.3	
OU3MW-18S	-2.12	ND	
OU3MW-20S	-2.12	ND	

Fig. 4

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LEGEND:

- EXISTING MONITORING WELL CLUSTER LOCATION
- WELL NOT SAMPLED IN Q4 2021 DUE TO MEASURABLE LEVELS OF DNAPL
- µg/L MICROGRAMS PER LITER
- NOTE: WINDOWED SECTION OF THE SUBSURFACE CONTAINMENT BARRIER WALL CONSTRUCTED BETWEEN APPROXIMATELY 8 AND 38 FEET BELOW GROUND SURFACE (BGS).
- BTEX ≥ 100 µg/L
- BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE
- OXYGEN INJECTION LINE - INSTALLED
- OXYGEN INJECTION LINE - SHUT OFF
- OXYGEN INJECTION LINE - ABANDONED
- ISO-CONCENTRATION LINE (µg/L)

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

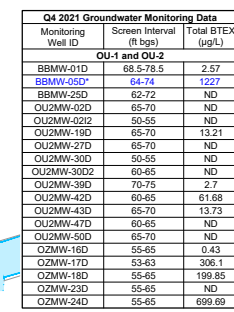
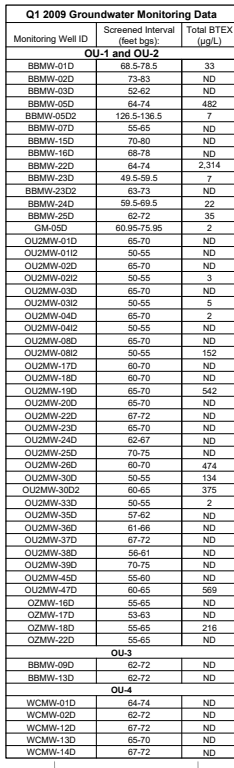
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GEI Consultants

Project 1905774 June 2022

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

Fig. 5



NOTE:
* INDICATES WELL NOT SAMPLED IN Q4 2021 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.

LEGEND:

OXYGEN INJECTION LINE - INSTA
OXYGEN INJECTION LINE - SHUT
OXYGEN INJECTION LINE - ABAND
ISO-CONCENTRATION LINE ($\mu\text{g/L}$)

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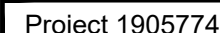
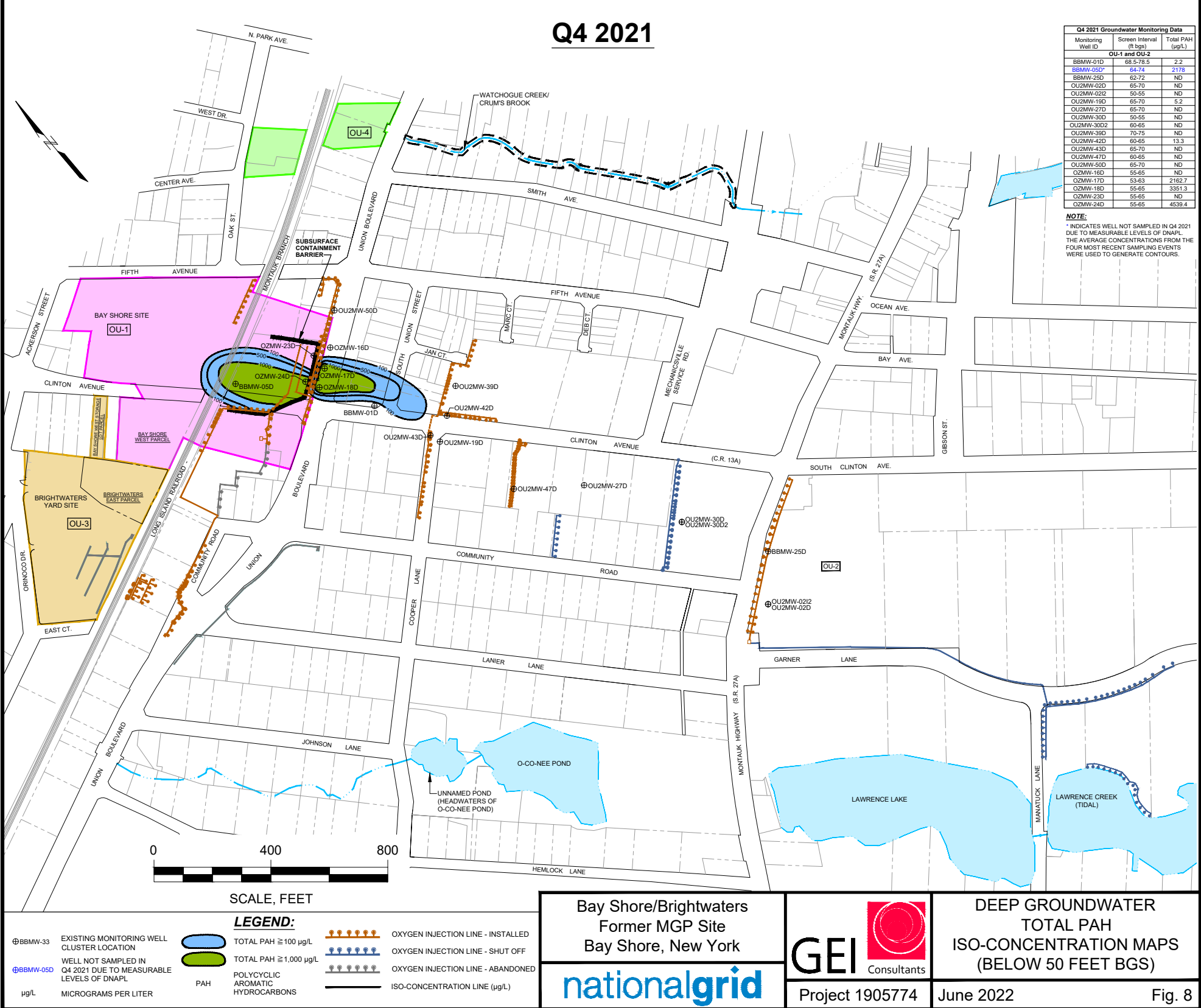
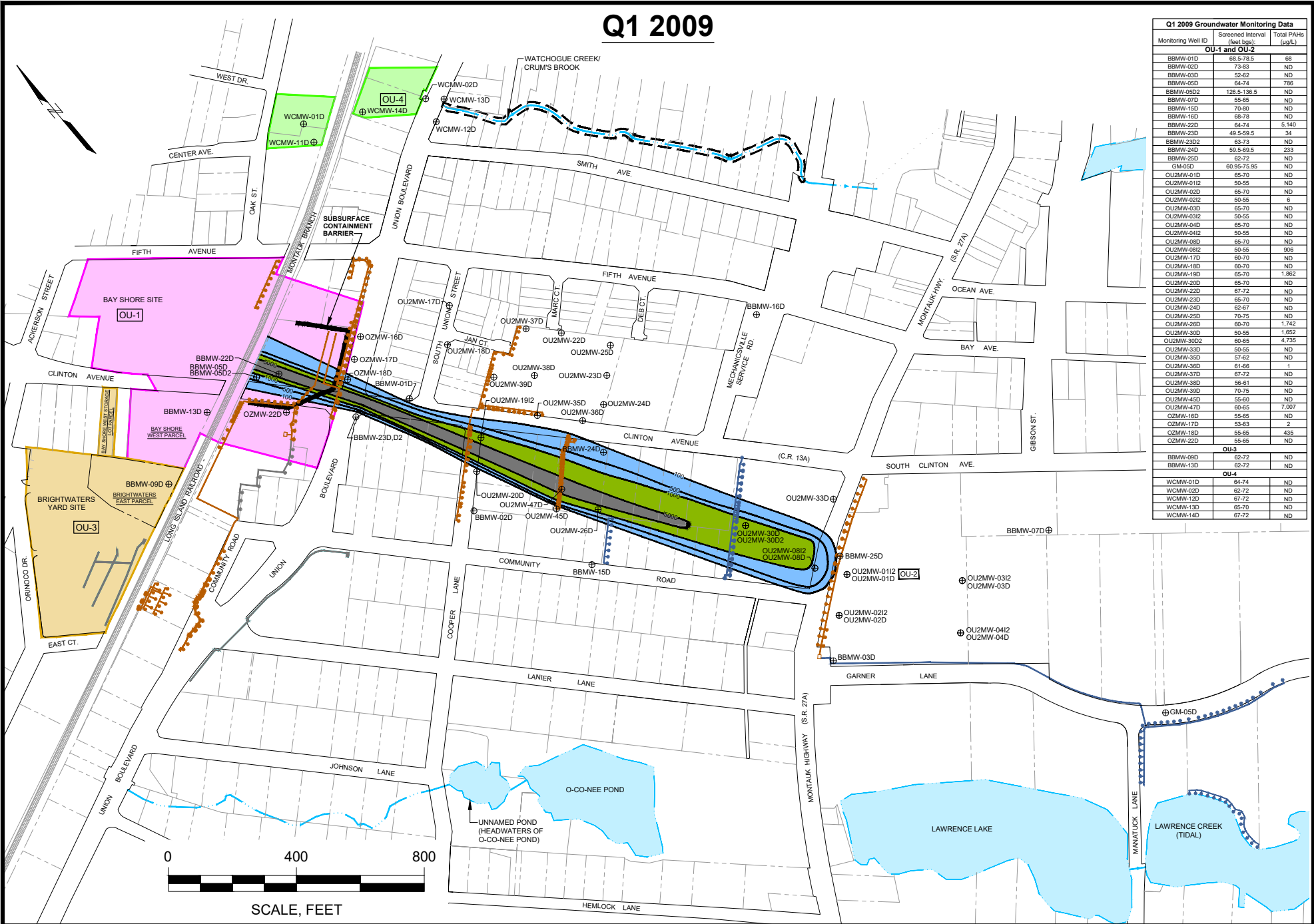


Fig. 7



Q1 2009

Q1 2009 Groundwater Monitoring Data

Monitoring Well ID	Screened Interval (feet bgs)	Total BTEX (µg/L)
BMW-01S	5-15	284
BMW-02S	5-15	ND
BMW-03S	3-13	ND
BMW-07S	5-15	ND
BMW-16S	5-15	ND
BMW-22S	5-10	10,730
BMW-23S	5-15	11,860
BMW-24S	4-14	ND
BMW-25S	4-14	ND
GM-06S	5.1-20.1	8
MW-00S	3-13	34
MW-05S	4-14	9,600
OU2W-01	3-8	ND
OU2MW-01WT	3-8	ND
OU2MW-04WT	3-8	ND
OU2MW-06S	3-8	ND
OU2MW-07S	3-8	ND
OU2MW-08WT	3-8	ND
OU2MW-10S	3-7	ND
OU2MW-11S	3-8	ND
OU2MW-12S	3-7	ND
OU2MW-13S	3-8	ND
OU2MW-14S	3-8	ND
OU2MW-15S	3-8	ND
OU2MW-16S	3-8	ND
OU2MW-17S	5-10	ND
OU2MW-20S	4-9	ND
OU2MW-21S	5-15	870
OU2MW-22S	5-15	2
OU2MW-23S	5-15	ND
OU2MW-24S	5-15	23
OU2MW-25S	5-15	ND
OU2MW-26S	6-11	ND
OU2MW-28S	5-15	ND
OU2MW-30S	5-15	3
OU2MW-32S	5-15	ND
OU2MW-33S	5-15	ND
OU2MW-34S	5-15	ND
OU2MW-35S	5-15	9
OU2MW-36S	5-15	ND
OU2MW-37S	5-15	ND
OU2MW-38S	5-15	ND
OU2MW-39S	5-15	ND
OU2MW-40S	5-15	ND
OU2MW-41S	5-15	8
OU2MW-45S	5-15	422
OU2MW-46S	5-15	146
OU2MW-47S	5-15	ND
OU2MW-48WT	5-15	ND
OU2MW-49S	5-15	244
OU2MW-50S	5-15	11,947
OU2MW-01WT	3-8	ND
OU2MW-04WT	3-8	ND
OU2MW-11S	3-8	ND
OU2MW-15S	3-8	ND
OU2MW-16S	3-8	ND
OU2MW-17S	3-8	ND
OU2MW-18S	3-8	ND
OU2MW-19S	3-8	ND
OU2MW-20S	3-8	ND
OU2MW-21S	3-8	ND
OU2MW-22S	3-8	ND
OU2MW-23S	3-8	ND
OU2MW-24S	3-8	ND
OU2MW-25S	3-8	ND
OU2MW-26S	3-8	ND
OU2MW-27S	3-8	ND
OU2MW-28S	3-8	ND
OU2MW-29S	3-8	ND
OU2MW-30S	3-8	ND
OU2MW-31S	3-8	ND
OU2MW-32S	3-8	ND
OU2MW-33S	3-8	ND
OU2MW-34S	3-8	ND
OU2MW-35S	3-8	ND
OU2MW-36S	3-8	ND
OU2MW-37S	3-8	ND
OU2MW-38S	3-8	ND
OU2MW-39S	3-8	ND
OU2MW-40S	3-8	ND
OU2MW-41S	3-8	ND
OU2MW-42S	3-8	ND
OU2MW-43S	3-8	ND
OU2MW-44S	3-8	ND
OU2MW-45S	3-8	ND
OU2MW-46S	3-8	ND
OU2MW-47S	3-8	ND
OU2MW-48WT	3-8	ND
OU2MW-49S	3-8	ND
OU2MW-50S	3-8	ND

Q1 2009 Groundwater Monitoring Data

Monitoring Well ID	Screened Interval (feet bgs)	Total BTEX (µg/L)
BMW-09S	5-15	ND
BMW-28S	2-12	ND
BMW-29	2-9	ND
BMW-30S	2-10	ND
BMW-31S	2-10	2
BMW-32S	2-10	ND
BMW-33	7-12	ND
BW-UST-10	4.65-9.95	ND
BW-UST-11	2.4-4	ND
BW-UST-28	5-10	ND
BW-UST-29	5-10	ND
IO-10	6-16	ND
MW-02SR	2-12	

Q1 2009 Groundwater Monitoring Data				Q1 2009 Groundwater Monitoring Data			
Monitoring Well ID	Screened Interval (feet/bis)	Total BTEX (μg/L)		Monitoring Well ID	Screened Interval (feet/bis)	Total BTEX (μg/L)	
OU-1 and OU-2				OU-4			
BBMW-015	5-15	284		BBMW-09S	5-15	ND	
BBMW-02S	5-15	ND		BBMW-28S	2-12	ND	
BBMW-03S	5-13	ND		BBMW-29	2-6	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	2	
BBMW-22S	5-10	10,730		BBMW-33	7-12	ND	
BBMW-23S	5-15	11,960		BW-UST-10	5-10	ND	
BBMW-24S	5-14	ND		BW-UST-11	4.4-9.4	ND	
BBMW-25S	4-14	ND		BW-UST-28	5-10	ND	
GM-6S	5,120-1.8	8		BW-UST-29	5-10	ND	
MM-03S	3-15	34		MD-10	6-10	ND	
MM-5S	4-14	9,600		MM-Q2SR	5-12	812	
OLUW-01	3-8	ND		MM-03	4.8-14.94	6	
OLUW-01WT	3-8	ND		MM-04	5,151-15	ND	
OLUW-06WT	3-8	ND		MM-09S	4-14	ND	
OLUW-08S	3-8	ND		MM-11W	2-10	ND	
OLUW-07S	3-8	ND		MM-12W	2-12	2	
OLUW-08WT	3-8	ND		MM-16SR	2-12	3,275	
OLUW-10S	3-7	ND		MM-09S	2-10	ND	
OLUW-11S	3-8	ND		MM-30WR	2-10	ND	
OLUW-12S	3-7	ND		MM-32WR	2-9	232	
OLUW-13S	3-8	ND		MM-34S	2-10	6,336	
OLUW-14S	3-8	ND		MM-45W	2-10	4,210	
OLUW-15S	3-8	ND		MM-46WR	2-10	525	
OLUW-16S	3-8	ND		MM-66S	1,511-15	ND	
OLUW-17S	5-10	ND		MM-7070S	2-12	1,124	
OLUW-20S	4-9	ND		MM-73	2-12	7,100	
OLUW-21S	5-15	870		MM-75	2-12	560	
OLUW-22S	5-15	2		MM-76	2-12	ND	
OLUW-23S	5-15	ND		MM-78	5-20	2,590	
OLUW-24S	5-15	23		MM-79	5-20	10,100	
OLUW-25S	5-15	ND		MM-80	50-200	55,200	
OLUW-26S	6-11	ND		MM-81	5-20	257	
OLUW-28S	5-15	ND		MM-82	5-20	6,15	
OLUW-30S	3-15	3		MM-83	5-20	ND	
OLUW-32S	5-15	ND		MM-B5-02S	5-15	98	
OLUW-33S	5-15	ND		PMOM-01	5-20	ND	
OLUW-34S	5-15	ND		PMOM-02	5-20	59,210	
OLUW-35S	5-15	9		PCMW-03	5-15	14,511	
OLUW-36S	5-15	ND		SV-02	2-12	28	
OLUW-37S	5-15	ND		SV-03	2-12	29	
OLUW-38S	5-15	23		OU-4			
OLUW-39S	5-15	ND		WCWM-01S	2-12	3	
OLUW-40S	5-15	ND		WCWM-02S	3-15	ND	
OLUW-41S	5-15	8		WCWM-03S	4.93-8.83	33	
OLUW-45S	5-15	60		WCWM-04S	1.6-11.16	21	
OLUW-46S	5-15	422		WCWM-05S	1.4-1.14	ND	
OLUW-47S	5-15	146		WCWM-06S	2-12	ND	
OLUW-16S	5-15	ND		WCWM-09S	5-15	ND	
OLUW-17S	5-15	141		WCWM-12S	3-13	ND	
OLUW-18S	5-15	244		WCWM-13S	3-13	ND	
OLUW-22S	5-15	141,947		WCWM-14S	2-12	ND	
				WCWM-16S	2-12	ND	

Q1 2022 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgl)	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	1675.7
BBMW-23S	5-15	786.8
BBMW-27S	5-15	ND
BBMW-34S	5-15	39.2
BBMW-37S	5-10	3.53
BBMW-38S	5-15	54.95
BBMW-39S	5-15	86.65
BBMW-41S	6-16	3205.4
BBMW-42S	5-10	9.3
MW-05S	4-14	718.8
MW-09S	4-14	ND
OUIPZ-101	4-14	872
OUIPZ-102	4-14	16.83
OUIPZ-103	4-14	689.2
OUIPZ-104	4-14	ND
OUIPZ-105	4-14	10.68
OUMW-12S	3-7	ND
OUMW-27S	5-15	ND
OUMW-28S	5-15	ND
OUMW-30S	5-15	ND
OUMW-36S	5-15	ND
OUMW-40S	5-15	ND
OUMW-41S	5-15	ND
OUMW-47S	5-15	ND
OUMW-50S	5-15	ND
OUMW-57S	5-15	0.57
OUMW-16S	5-15	ND
OUMW-17S	5-15	ND
OUMW-18S	5-15	ND
OUMW-19S	5-15	360
OUMW-23S	5-15	ND
OUMW-24S	5-15	0.48
OUMW-25S	5-15	1334.1
OU-3		
MW-83	5-20	ND
OUSMW-07S	3-13	ND
OUSMW-08S	2-12	1248
OUSMW-13S	2-12	ND
OUSMW-16S	2-12	37
OUSMW-19S	2-12	1.7
OUSMW-20S	2-12	ND

Q1 2022 Groundwater Monitoring Data			
Monitoring Well ID	Screen Interval (ft/bgs)	Total BTEX (µg/L)	
OU-1 and OU-2			
BBMW-22-5	5-10	167.5	
BBMW-23-5	5-15	786.8	
BBMW-27-5	5-15	ND	
BBMW-34-5	5-15	29.1	
BBMW-37-5	5-10	2.53	
BBMW-38-5	5-15	54.95	
BBMW-39-5	5-15	86.65	
BBMW-41-5	6-16	3205.4	
BBMW-42-5	5-10	9.3	
MMW-05-5	4-14	718.8	
MMW-09-5	4-14	ND	
OU1PZ-10-1	4-14	87.2	
OU1PZ-10-2	4-14	16.93	
OU1PZ-10-3	4-14	589.2	
OU1PZ-10-4	4-14	ND	
OU1PZ-10-5	4-14	10.68	
OU2MM-12-5	3-7	ND	
OU2MM-27-5	5-15	ND	
OU2MM-38-5	5-15	ND	
OU2MM-39-5	5-15	ND	
OU2MM-39-5	5-15	ND	
OU2MM-41-5	5-15	ND	
OU2MM-47-5	5-15	ND	
OU2MM-50-5	5-15	ND	
OU2MM-57-5	5-15	0.57	
OZMW-16-5	5-15	ND	
OZMW-17-5	5-15	ND	
OZMW-18-5	5-15	ND	
OZMW-19-5	5-15	369	
OZMW-23-5	5-15	ND	
OZMW-24-5	5-15	0.48	
OZMW-25-5	5-15	1334.1	
OU-3			
MMW-83	5-20	ND	
OU3MMW-07-5	3-13	ND	
OU3MMW-08-5	2-12	1248	
OU3MMW-13-5	2-12	ND	
OU3MMW-16-5	2-12	37	
OU3MMW-19-5	2-12	1.7	
OU3MMW-20-5	2-12	ND	

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

Project 1905774

August 2022

Fig. 3

Q1 2022 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAH (µg/L)
OU-1 and OU-2		
BBMW-22S	5-10	1754.59
BBMW-23S	5-15	4.4
BBMW-27S	5-15	ND
BBMW-34S	5-15	61.5
BBMW-37S	5-10	ND
BBMW-38S	5-15	46.7
BBMW-39S	5-15	ND
BBMW-41S	6-16	1289.9
BBMW-42S	5-10	0.99
MW-05S	4-14	674.4
MW-09S	4-14	ND
OU1PZ-101	4-14	22.1
OU1PZ-102	4-14	ND
OU1PZ-103	4-14	126.8
OU1PZ-104	4-14	ND
OU1PZ-105	4-14	53.8
OU2MW-12S	3-7	ND
OU2MW-27S	5-15	ND
OU2MW-28S	5-15	ND
OU2MW-30S	5-15	ND
OU2MW-39S	5-15	ND
OU2MW-40S	5-15	ND
OU2MW-41S	5-15	ND
OU2MW-47S	5-15	ND
OU2MW-50S	5-15	ND
OU2MW-57S	5-15	2.1
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-19S	5-15	3.4
OZMW-23S	5-15	ND
OZMW-24S	5-15	ND
OZMW-25S	5-15	ND
OZMW-26S	5-15	158.2
OU-3		
MW-83	5-20	ND
OU3MW-07S	3-13	ND
OU3MW-08S	2-12	172.8
OU3MW-13S	2-12	ND
OU3MW-16S	2-12	6.9
OU3MW-19S	2-12	ND
OU3MW-20S	2-12	ND

Bay Shore/Brightwaters Former MGP Site Bay Shore, New York		WATER TABLE GROUNDWATER TOTAL PAH ISO-CONCENTRATION MAPS (0-10 FEET BGS)	
	Project 1905774	August 2022	Fig. 4

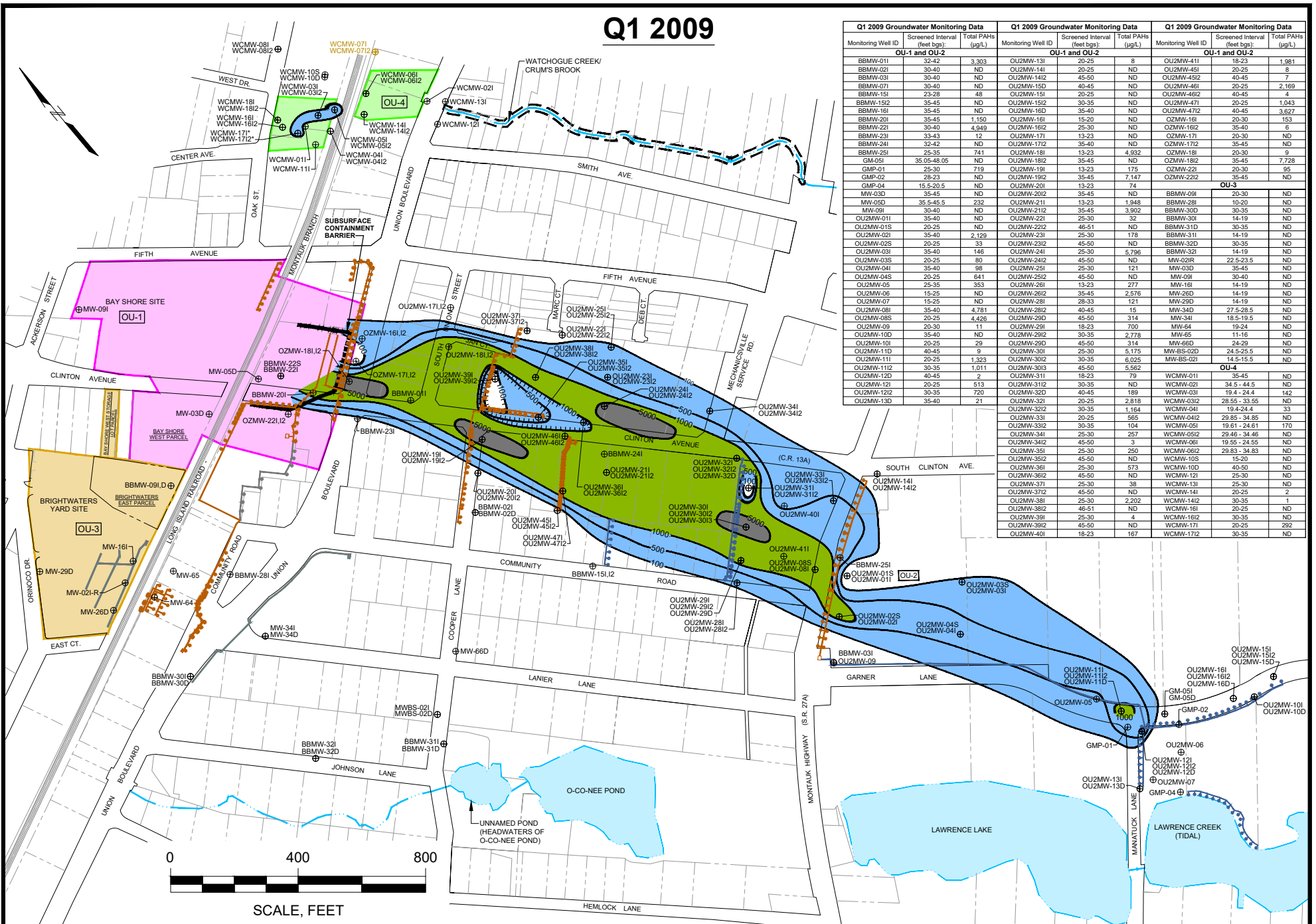
Q1 2022 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total BYEX (µg/L)
OU-1 and OU-2		
BBMW-201	35-45	ND
BBMW-221	30-40	ND
BBMW-271	30-40	ND
BBMW-341	25-30	590.7
BBMW-3412*	40-45	34
BBMW-381*	25-30	4
BBMW-3812*	35-45	3
BBMW-411	25-30	1
MW-05D	35.5-45.5	25.2
MW-091	30-40	ND
OZMW-025	20-25	ND
OZMW-021	35-40	5.6
OZMW-121	20-25	ND
OZMW-1212	30-35	ND
OZMW-120	40-45	ND
OZMW-181	13-23	ND
OZMW-1912	35-45	ND
OZMW-271	25-30	ND
OZMW-2712	45-50	ND
OZMW-281	28-33	ND
OZMW-2812	40-45	ND
OZMW-291	18-23	ND
OZMW-2912	30-35	ND
OZMW-290	45-50	ND
OZMW-301	25-30	ND
OZMW-3012	30-35	ND
OZMW-3013	45-50	ND
OZMW-311	18-23	ND
OZMW-3112	30-35	ND
OZMW-391	25-30	ND
OZMW-3912	45-50	ND
OZMW-401	18-23	ND
OZMW-411	18-23	ND
OZMW-471	20-25	ND
OZMW-4712	40-45	ND
OZMW-501	25-30	ND
OZMW-5012	45-50	0.46
OU-3		
IP-20B		24-25
MW-65		19-24
MW-66		11-16
OUMW-071		15-20
OUMW-0712		20-25
OUMW-0713		25-30
OUMW-0714		35-40
OUMW-091		25-30
OUMW-101		25-30
OUMW-191		20-25
OUMW-1912		30-35
OUMW-201		20-25
OUMW-2012		30-35
OUMW-231P-17B		10-15
OUMW-2412P-19B		25-30
OUMW-501		20-25
OUMW-5012		20-25

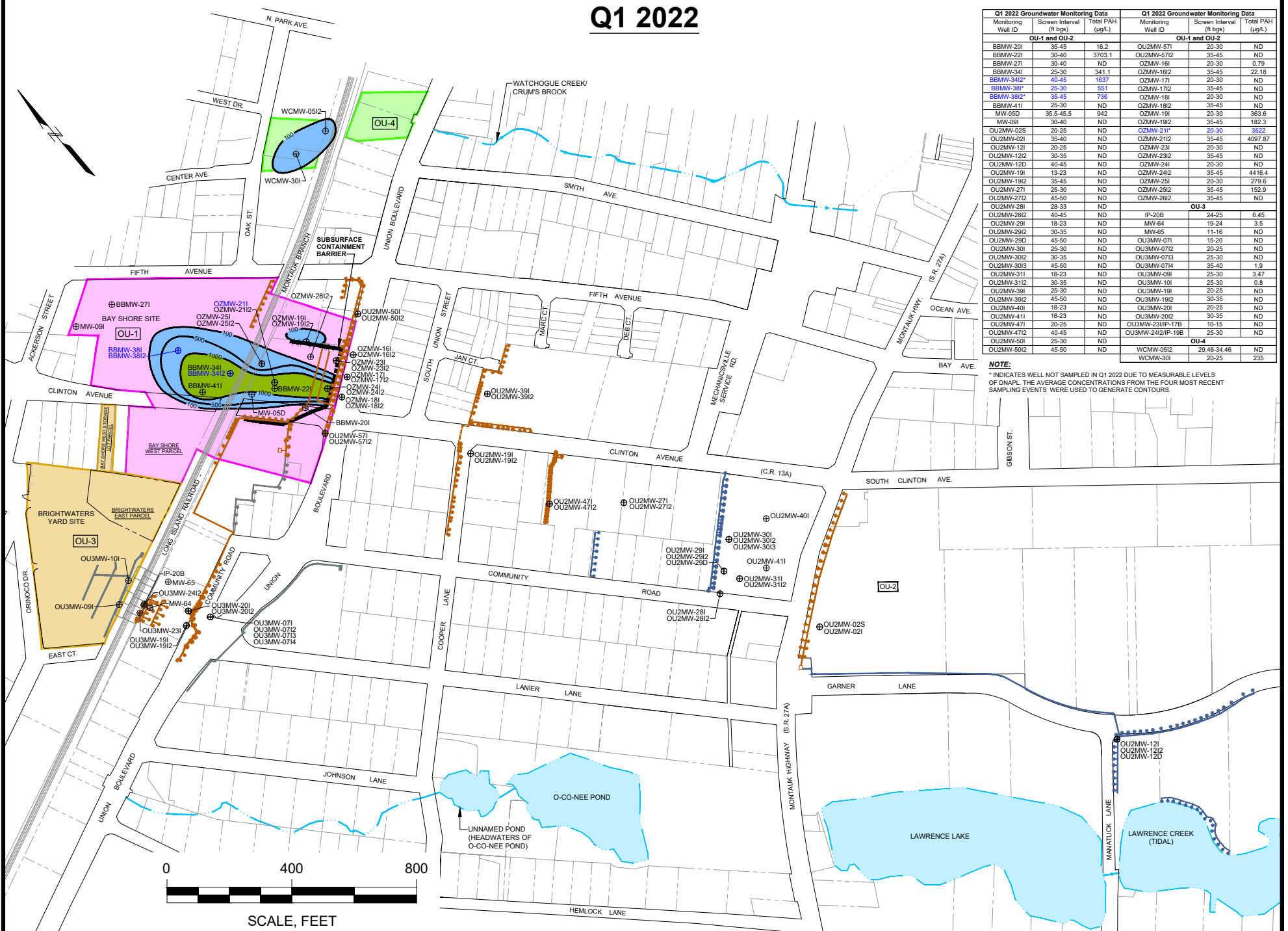
NOTE: * INDICATES WELL NOT SAMPLED IN Q1 2022 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.

Fig. 5

Q1 2009



Q1 2022



BBMW-33	EXISTING MONITORING WELL CLUSTER LOCATION		TOTAL PAH ≥ 100 $\mu\text{g/L}$
BBMW-381	WELL NOT SAMPLED IN Q1 2022 DUE TO MEASURABLE LEVELS OF DNAPL		TOTAL PAH $\geq 1,000$ $\mu\text{g/L}$
$\mu\text{g/L}$	MICROGRAMS PER LITER		TOTAL PAH $\geq 5,000$ $\mu\text{g/L}$

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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Project 1905774

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

August 2022

Fig. 6

Q1 2009

Q1 2009 Groundwater Monitoring Data

Monitoring Well ID	Screened Interval (feet bgs)	Total BTE (ug/L)
OU-1 and OU-2		
BBMW-01D	63-73	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-01D2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-02D2	50-55	3
OU2MW-03D	65-70	ND
OU2MW-03D2	50-55	5
OU2MW-04D	65-70	2
OU2MW-04D2	50-55	ND
OU2MW-08D	65-70	ND
OU2MW-08D2	50-55	152
OU2MW-17D	60-70	ND
OU2MW-18D	60-70	ND
OU2MW-19D	60-70	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-19D	55-65	ND
OZMW-20D	62-72	ND
OZMW-21D	62-72	ND
OZMW-22D	62-72	ND
OZMW-23D	62-72	ND
OZMW-24D	62-72	ND
OZMW-25D	62-72	ND
OZMW-26D	62-72	ND
OZMW-27D	62-72	ND
OZMW-28D	62-72	ND
OZMW-29D	62-72	ND
OZMW-30D	62-72	ND
OZMW-31D	62-72	ND
OZMW-32D	62-72	ND
OZMW-33D	62-72	ND
OZMW-34D	62-72	ND
OZMW-35D	62-72	ND
OZMW-36D	62-72	ND
OZMW-37D	62-72	ND
OZMW-38D	62-72	ND
OZMW-39D	62-72	ND
OZMW-40D	62-72	ND
OZMW-41D	62-72	ND
OZMW-42D	62-72	ND
OZMW-43D	62-72	ND
OZMW-44D	62-72	ND
OZMW-45D	62-72	ND
OZMW-46D	62-72	ND
OZMW-47D	62-72	ND
OZMW-48D	62-72	ND
OZMW-49D	62-72	ND
OZMW-50D	62-72	ND
OZMW-51D	62-72	ND
OZMW-52D	62-72	ND
OZMW-53D	62-72	ND
OZMW-54D	62-72	ND
OZMW-55D	62-72	ND
OZMW-56D	62-72	ND
OZMW-57D	62-72	ND
OZMW-58D	62-72	ND
OZMW-59D	62-72	ND
OZMW-60D	62-72	ND
OZMW-61D	62-72	ND
OZMW-62D	62-72	ND
OZMW-63D	62-72	ND
OZMW-64D	62-72	ND
OZMW-65D	62-72	ND
OZMW-66D	62-72	ND
OZMW-67D	62-72	ND
OZMW-68D	62-72	ND
OZMW-69D	62-72	ND
OZMW-70D	62-72	ND
OZMW-71D	62-72	ND
OZMW-72D	62-72	ND
OZMW-73D	62-72	ND
OZMW-74D	62-72	ND
OZMW-75D	62-72	ND
OZMW-76D	62-72	ND
OZMW-77D	62-72	ND
OZMW-78D	62-72	ND
OZMW-79D	62-72	ND
OZMW-80D	62-72	ND
OZMW-81D	62-72	ND
OZMW-82D	62-72	ND
OZMW-83D	62-72	ND
OZMW-84D	62-72	ND
OZMW-85D	62-72	ND
OZMW-86D	62-72	ND
OZMW-87D	62-72	ND
OZMW-88D	62-72	ND
OZMW-89D	62-72	ND
OZMW-90D	62-72	ND
OZMW-91D	62-72	ND
OZMW-92D	62-72	ND
OZMW-93D	62-72	ND
OZMW-94D	62-72	ND
OZMW-95D	62-72	ND
OZMW-96D	62-72	ND
OZMW-97D	62-72	ND
OZMW-98D	62-72	ND
OZMW-99D		

Q1 2009 Groundwater Monitoring Data			
Monitoring Well	OU-1 and OU-2	Screened Interval (feet bgs)	Total BTEX (µg/L)
BBMW-01D	OU-1	65-75.5	33
BBMW-02D	OU-1	73-83	ND
BBMW-03D	OU-1	52-62	ND
BBMW-05D	OU-1	64-74	482
BBMW-05D2	OU-1	126.7-138.5	7
BBMW-07D	OU-1	55-65	ND
BBMW-15D	OU-1	70-80	ND
BBMW-16D	OU-1	66-76	ND
BBMW-22D	OU-1	69-74	2,314
BBMW-23D	OU-1	49-55.5	7
BBMW-23D2	OU-1	63-73	ND
BBMW-24D	OU-1	59-549.5	25
BBMW-25D	OU-1	65-75	38
GM-05D	OU-2	60.95-75.5	2
OU2MW-01D	OU-2	65-70	ND
OU2MW-01D2	OU-2	50-55	ND
OU2MW-02D	OU-2	65-70	ND
OU2MW-02D2	OU-2	50-55	3
OU2MW-03D	OU-2	65-70	ND
OU2MW-03D2	OU-2	55-55	2
OU2MW-04D	OU-2	65-70	5
OU2MW-04D2	OU-2	50-55	ND
OU2MW-06D	OU-2	65-70	ND
OU2MW-06D2	OU-2	50-55	152
OU2MW-07D	OU-2	65-70	ND
OU2MW-16D	OU-2	65-70	ND
OU2MW-16D	OU-2	65-70	542
OU2MW-20D	OU-2	65-70	ND
OU2MW-22D	OU-2	67-72	ND
OU2MW-23D	OU-2	65-70	ND
OU2MW-24D	OU-2	62-67	ND
OU2MW-25D	OU-2	70-75	ND
OU2MW-25D	OU-2	70-74	474
OU2MW-30D	OU-2	50-55	134
OU2MW-30D2	OU-2	60-65	375
OU2MW-33D	OU-2	55-65	2
OU2MW-33D	OU-2	57-60	ND
OU2MW-36D	OU-2	61-66	ND
OU2MW-37D	OU-2	67-72	ND
OU2MW-38D	OU-2	56-61	ND
OU2MW-38D	OU-2	70-74	ND
OU2MW-45D	OU-2	55-60	ND
OU2MW-47D	OU-2	60-65	569
OU2MW-16D	OU-2	55-65	ND
OU2MW-17D	OU-2	53-63	ND
OU2MW-18D	OU-2	55-65	216
OU2MW-22D	OU-2	55-65	ND
OU-3			
BBMW-09D	OU-3	62-72	ND
BBMW-13D	OU-3	62-72	ND
OU-4			
WCMMW-01D	OU-4	64-74	ND
WCMMW-02D	OU-4	62-72	ND
WCMMW-12D	OU-4	67-72	ND
WCMMW-13D	OU-4	65-70	ND
WCMMW-14D	OU-4	67-72	ND

Q1 2022 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total BTI (µg/L)
OU-1 and OU-2		
BBMW-01D	63.5-78.5	0.45
BBMW-05D	64-74	1284
OU2MW-02D	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-19D	65-70	5.87
OU2MW-27D	65-70	ND
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-39D	70-75	ND
OU2MW-42D	60-65	77.4
OU2MW-43D	65-70	15.6
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OZMW-16D	55-65	0.93
OZMW-17D	53-63	294
OZMW-18D	55-65	135.85
OZMW-23D	55-65	ND
OZMW-24D	55-65	711.2

NOTE:
 *INDICATES WELL NOT SAMPLED IN Q1 2022
 DUE TO MEASURABLE LEVELS OF DNAPL
 THE AVERAGE CONCENTRATIONS FROM THE
 FOUR MOST RECENT SAMPLING EVENTS
 WERE USED TO GENERATE CONTOURS.

Q1 2022 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total BTEX (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	0.45
BBMW-05D*	<u>64-74</u>	<u>1264</u>
OU2MW-02D	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-19D	65-70	5.87
OU2MW-27D	65-70	ND
OU2MW-30D	50-55	ND
OU2MW-30D2	60-65	ND
OU2MW-32D	60-65	ND
OU2MW-42D	60-65	77.4
OU2MW-43D	65-70	15.6
OU2MW-47D	60-65	ND
OU2MW-50D	65-70	ND
OU2MW-16D	55-65	0.93
OU2MW-18D	55-65	244
OU2MW-18D	55-65	135.85
OU2MW-23D	55-65	ND
OU2MW-24D	55-65	711.2

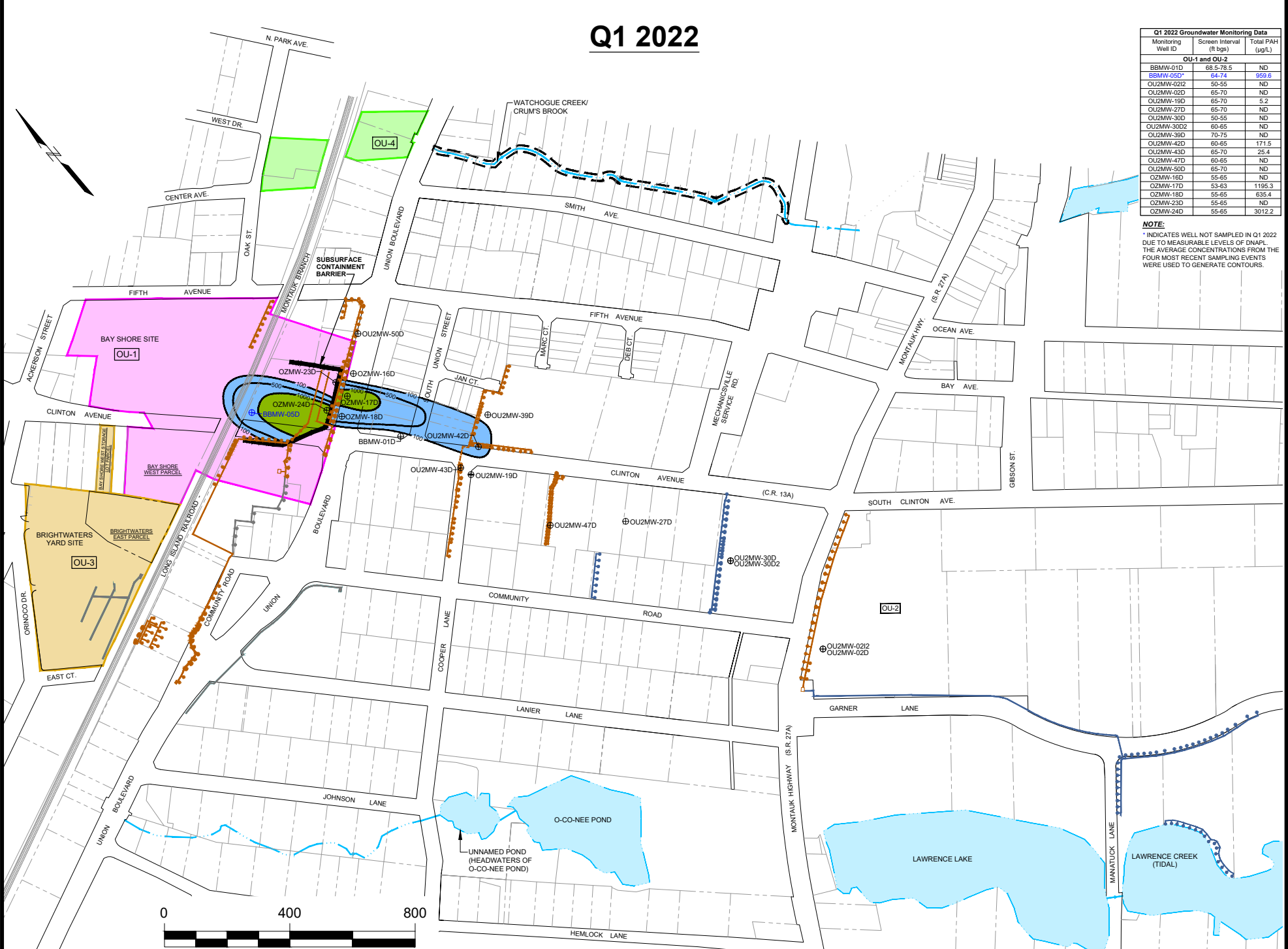
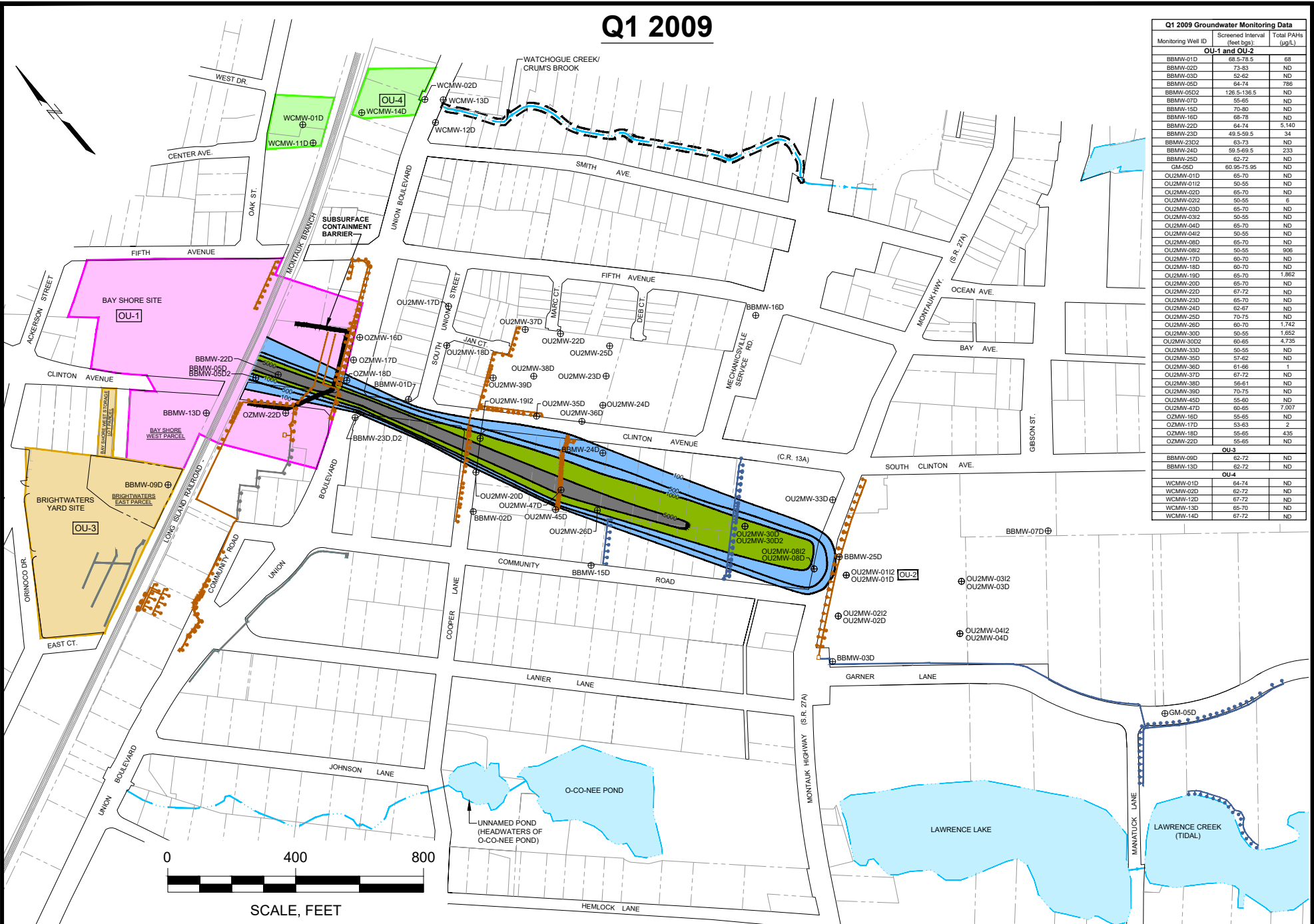
NOTE:

NOTE:
* INDICATES WELL NOT SAMPLED IN Q1 2022
DUE TO MEASURABLE LEVELS OF DNAPL.
THE AVERAGE CONCENTRATIONS FROM THE
FOUR MOST RECENT SAMPLING EVENTS
WERE USED TO GENERATE CONTOURS.

LEGEND:					
09B8MW-33	EXISTING MONITORING WELL CLUSTER LOCATION		BTEX ≥ 100 µg/L		OXYGEN INJECTION LINE - INSTALLED
09B8MW-05D	WELL NOT SAMPLED IN Q1 2022 DUE TO MEASURABLE LEVELS OF DNAPL		BTEX ≥ 1,000 µg/L		OXYGEN INJECTION LINE - SHUT OFF
			BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE		OXYGEN INJECTION LINE - ABANDONED
µg/L	MICROGRAMS PER LITER	BTEX			ISO-CONCENTRATION LINE (µg/L)

Bay Shore/Brightwaters Former MGP Site Bay Shore, New York	 GEI Consultants	DEEP GROUNDWATER TOTAL BTEX ISO-CONCENTRATION MAPS (BELOW 50 FEET BGS)
	Project 1905774	August 2022

Fig. 7



⊕BBMW-33

EXISTING MONITORING WELL CLUSTER LOCATION

⊕BBMW-05D

WELL NOT SAMPLED IN Q1 2022 DUE TO MEASURABLE LEVELS OF DNAPL

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)

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

nationalgrid

GEI

Consultants

Project 1905774

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

August 2022

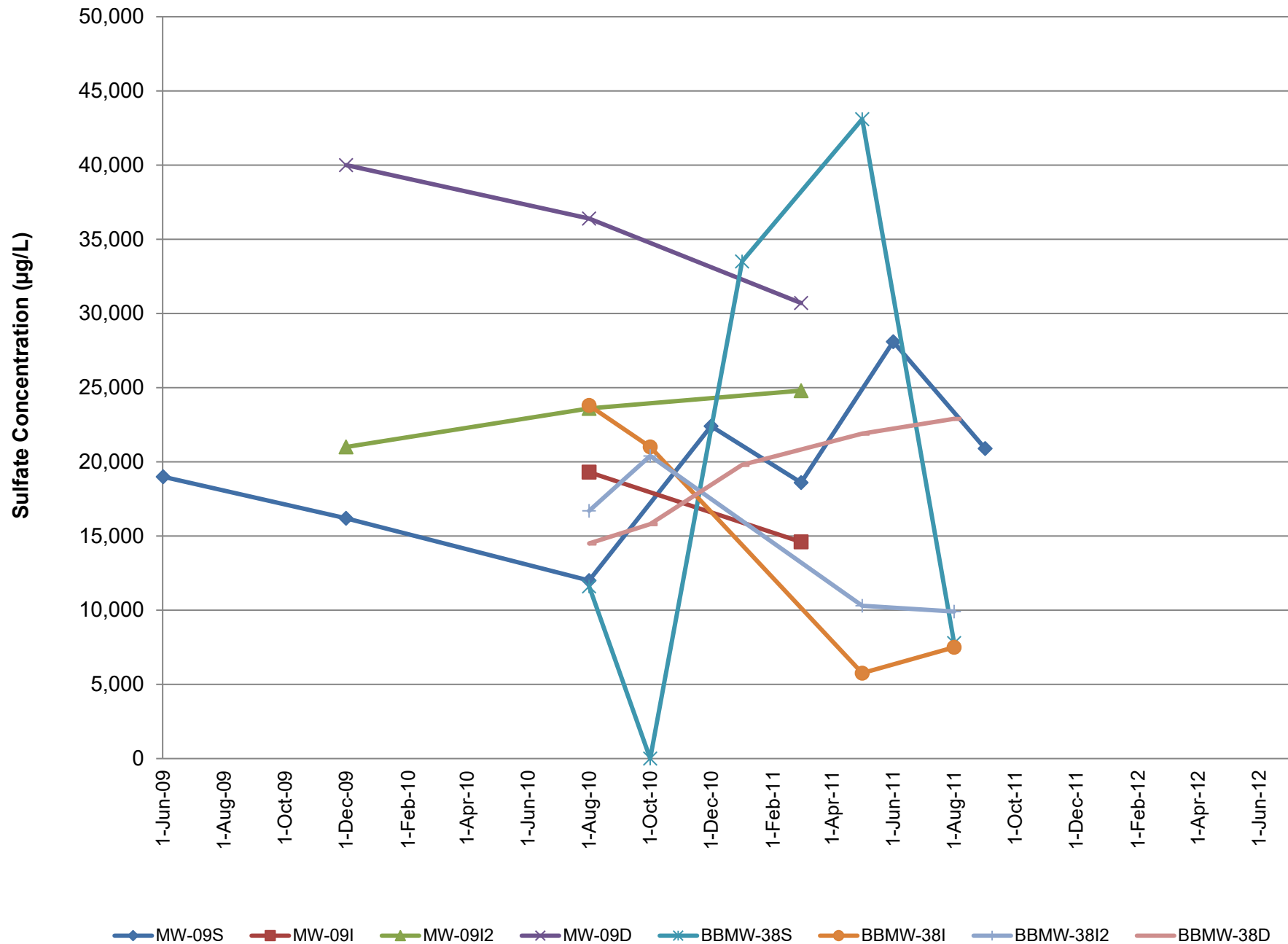
Fig. 8

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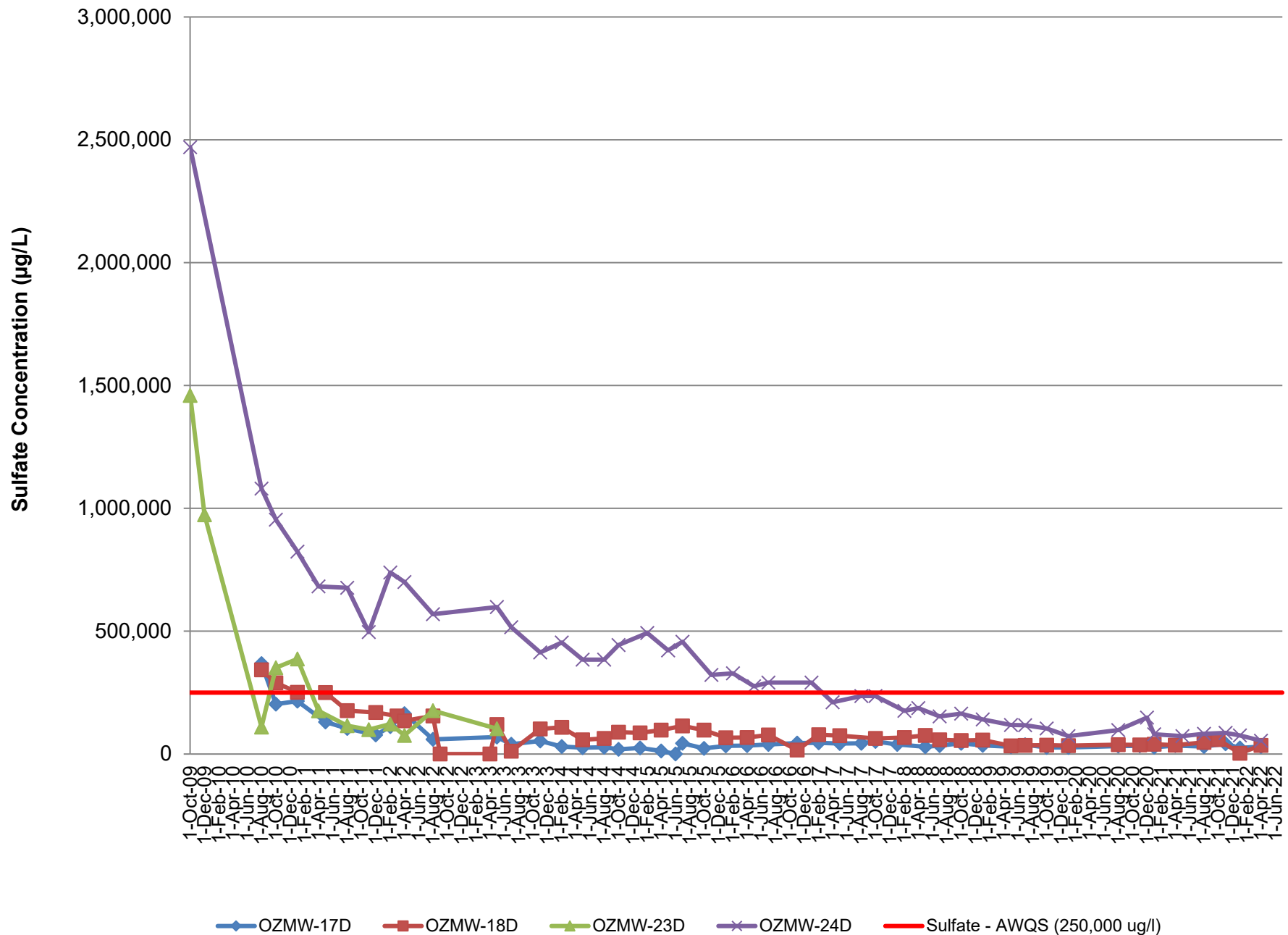
Appendix G

Summary of Sulfate Concentrations

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



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



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

