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Geotechnical
Environmental and
Water Resources
Engineering

2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Bay Shore/Brightwaters Former Manufactured Gas Plant Site

Town of Islip

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Executive Summary

This report presents the 2013/2014 annual groundwater monitoring (GM) and operations, maintenance and monitoring (OM&M) results for the Bay Shore/Brightwaters former manufactured gas plant (MGP) site located in Bay Shore, Suffolk County, New York. GM and OM&M activities include monitoring groundwater, soil vapor, and ambient air, as well as maintenance and monitoring of the dense non-aqueous phase liquid (DNAPL) recovery and groundwater treatment systems. The period for this report includes Third Quarter (Q3) 2013 through Second Quarter (Q2) 2014.

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

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

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

Remediation

Non-Aqueous Phase Liquid (NAPL) Gauging and Recovery

Light non-aqueous phase liquid (LNAPL) was present in one monitoring well (OZMW-21S) gauged over the past year (Q3 2013 through Q2 2014). The thickness ranged from 0.1 feet to 0.65feet. Trace amounts of LNAPL were first observed in the central section of Operable Unit 1 (OU-1) in one monitoring well in First Quarter (Q1) 2010, reaching a maximum thickness of approximately 2 feet in Q4 2010. DNAPL was observed in monitoring wells in the same area and further south in OU-1 during the past year at a maximum thickness of approximately 7 feet. DNAPL has historically been gauged and recovered from OU-1 since Q1 2006. Over the past year, approximately 23 gallons of DNAPL were recovered from recovery well BBRW-02, located in the vicinity of maximum product thicknesses.

Groundwater Treatment

The constituents of concern (COCs) in site groundwater consist of benzene, toluene, ethylbenzene and xylene (BTEX) and polycyclic aromatic hydrocarbons (PAHs), primarily naphthalene and 2-methylnaphthalene. Groundwater remediation systems have been installed to treat the impacted groundwater. An ozone injection system was installed in OU-1 to reduce concentrations of COCs as they pass through the perforated section of the subsurface containment barrier wall and into OU-2. Ten oxygen injection systems were installed to treat impacted groundwater in OU-1, OU-2, and OU-3. Two of these systems were installed within the past year and modifications were made to several other existing systems to address area of lingering contamination. These systems are maintained monthly. Operational parameters are adjusted to optimally treat groundwater. These systems have been effective in reducing the COCs in groundwater, as discussed below.

Hydrogeologic Setting and Groundwater Flow

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

Groundwater elevation monitoring is conducted annually to aid in monitoring the groundwater plumes, confirm groundwater flow patterns, and to assist in remedy planning. The depth to groundwater at the site is shallow, generally between approximately 2 and 12 feet below ground surface (bgs). The groundwater flow direction throughout the site is generally towards the south/southeast. The Q2 2014 groundwater elevations are near average groundwater levels measured over the past 10 years.

Groundwater Quality

The groundwater quality data indicate that remedial activities have largely been successful at reducing the overall concentrations of COCs in groundwater.

Concentrations of COCs in groundwater in OU-1, OU-2, and OU-3 have generally been significantly reduced since the implementation of remedial activities. The groundwater treatment systems have been effective at reducing the area and concentrations of impacted groundwater in OU-2. Several areas, where elevated concentrations persisted, were addressed by the installation of additional oxygen injection systems, or the modification of current systems to focus treatment on the zones with residual impacts. Additional remedial measures will continue to be evaluated, as appropriate.

Following the remedial excavations (Phases I, II & III) in OU-3, which were completed in September 2010, soil and groundwater investigations in the Brightwaters Yard, as well as in the area immediately south of the Long Island Rail Road (LIRR) tracks, were conducted in

December 2010, June 2011, and February 2012 to evaluate the post excavation IRM groundwater conditions. Replacement groundwater monitoring wells along with several new monitoring wells have been installed to further and more accurately define the impacts in the area.

In order to address the remaining impacts identified, additional remedial measures have been undertaken. Recent remedial activity in OU-3 has included the reconfiguration of the Community Road oxygen injection line (Q1 2012), targeted Oxygen Release Compound – Advanced (ORC-A) injection programs in the downgradient area in Q2 and Q3 2013, and the installation of the 87 Community Road oxygen injection system during late Q3 and early Q4 2013. Significant reductions to groundwater impacts in the vicinity and downgradient of these areas have been noted in recent sampling events. During the past year, the reductions have included the elimination of the plume in the area downgradient of Community Road.

The area of impacted groundwater in OU-4 during Q2 2014 has increased slightly since the completion of S-ISCO injection, which was initiated in Q2 2009 and completed in Q4 2009. Pre-injection conditions are depicted in the Q1 2009 plume, which is smaller than the current Q2 2014 plume. The majority of the OU-4 Excavation IRM consisted of shallow soil excavation (approximately 10 feet bgs) and was performed in Q2 and Q3 2011. The excavations were performed “in the wet” (no dewatering). Temporary increases in groundwater concentrations have typically been observed in other areas of the site following similar source material excavations, as was the case in OU-4. Decreasing concentration trends are evident in recent sampling events in the shallow and intermediate zones. No impacts have been present in the deep zone.

Future Plans

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

Non-aqueous Phase Liquid (NAPL) Gauging and Recovery

- The frequency of monitoring and DNAPL recovery in OU-1 will be evaluated on a quarterly basis.

Ozone Groundwater Treatment System

- Develop a long-term sampling plan for groundwater, soil vapor, and soil vapor extraction system effluent.

Current Oxygen Injection Systems

- The modification to existing systems will continue to be evaluated, as appropriate.

Short-term Groundwater Monitoring

- Continue evaluation of the groundwater impacts in OU-1 and OU-2, in the vicinity and immediately downgradient of the barrier wall, primarily in the shallow and deep zones.
- The groundwater monitoring network will continue to be monitored quarterly in OU-3 to monitor the effects of the recent remedial activity. Monthly monitoring is currently being performed in select wells downgradient of Union Boulevard to track historical fluctuation in that area.

Remedial Activity

Operable Unit 1

- The southern treatment line of the 60/66 North Clinton oxygen injection system will be deactivated and removed. The southern, downgradient line was replaced by a new treatment line on the northern, upgradient property boundary. Additional injection wells were also installed within the western edge of barrier wall as part of this task. The southern line remained active to ensure no gaps in groundwater treatment..

Operable Unit 2

- None

Operable Unit 3

- Due to elevated groundwater concentrations within the sheeting left in place for the LIRR excavation, the installation of additional oxygen injection wells within the sheeting are planned for during Q4 2014.
- An additional round of ORC-Advanced injections is planned for Lanier Lane in OU-3. The first and second rounds of injections were conducted in March and August 2013, respectively.

Operable Unit 4

- None

Long-term Monitoring

- Continue following the approved long-term monitoring program.

1. Introduction

This report presents the 2013/2014 Annual groundwater monitoring (GM) and operations, maintenance and monitoring (OM&M) activities for the Bay Shore/Brightwaters former manufactured gas plant (MGP) site located in Bay Shore, Suffolk County, New York. The period for this report includes third quarter (Q3) 2013 through Q2 2014. This report has been prepared in accordance with the requirements of Section 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 Corporation and the New York State Department of Environmental Conservation (NYSDEC).

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

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

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

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

- Monitoring wells which meet ambient groundwater quality standards for Class GA groundwater for individual benzene, toluene, ethylbenzene and xylene (BTEX) and polycyclic aromatic hydrocarbons (PAHs) compounds for four consecutive quarters can be reduced to annual sampling.

- For compounds with standards less than the analytical detection limits, individual BTEX or PAH compound concentrations must be reduced below detection limits for four consecutive quarters before annual sampling can be instituted.
- Monitoring wells that meet the above criteria for two consecutive years of annual sampling will be removed from the monitoring network.
- Quarterly sampling will resume at any wells where concentrations greater than 50 micrograms per liter (µg/L) of total BTEX or total PAHs are detected in annual sampling.
- Select monitoring wells associated with the ozone or oxygen injection treatment systems will continue to be monitored at least quarterly to evaluate system performance.
- A proposal to shut down an oxygen system may be considered when the groundwater quality of all monitoring wells located upgradient as far as the next treatment system and immediately downgradient of a treatment system meet the sample reduction criteria noted above.
- A treatment system will be placed back into operation if the total BTEX or total PAH concentrations found in either upgradient or downgradient wells exceed 50 µg/L during any of the four (4) quarterly sampling events.

Implementation of the monitoring reductions was initiated in Q4 2012. For this past annual monitoring period, approximately 55% of the wells on the quarterly groundwater sampling list were initially changed to annual sampling and approximately 5% were eliminated from the sampling program. The sample list is re-evaluated quarterly following the receipt of the most recent analytical results. Annual sampling is conducted during the second quarter of each year. Excluding samples related to the operation and maintenance of the ozone injection system, soil vapor sampling was eliminated. A groundwater monitoring well tracking summary is provided in **Appendix A** for the quarterly sampling events included in this report (Q3 2013 through Q2 2014).

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

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

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

1.1 Background

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

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

1.1.1 Operable Unit 1 (OU-1)

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

Table 1a – Summary of OU-1 Remedial Activity

Date	OU-1 Remedial Activity	Comment
2004	In-Situ Chemical Oxidation (ISCO) Pilot Studies	Three pilot studies were conducted using Activated Persulfate, Modified Fenton's Reagent and Activated Fenton's Reagent (GEI, 2005).
2006-Present	DNAPL Recovery	A DNAPL recovery system was installed in the offsite area south of the Long Island Rail Road (LIRR) and was implemented as a portion of the Phase I Remedial Activities performed for implementation of the Final RAP (GEI, 2006b) and documented in the DNAPL Pump Test Letter Report (KeySpan, 2006).
2006	Surfactant-Enhanced In-Situ Chemical Oxidation (S-ISCO) Pilot Study	A pilot study was conducted using a surfactant to solubilize MGP-related impacts and Sodium Persulfate to oxidize those impacts (GEI, 2007a).
February-April 2007	OU-1 Southern Cell Excavation	The southern cell excavation was included in Phase I of the OU-1 remedy performed in accordance with the Final RAP. The results are provided in the Phase I and Phase II Remedial Activities, OU-1 Bay Shore Former MGP site, Final Completion Report (Paulus, Sokolowski and Sartor Engineering, PC [PS&S], 2009).

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

1.1.2 Operable Unit 2 (OU-2)

OU-2 consists of the groundwater plume which extends south/southeast from OU-1. The NYSDEC issued a Voluntary Cleanup Program Decision Document for OU-2 in July of 2008. This document specified the installation of a minimum of three oxygen injection systems as the selected remedy for OU-2. A summary of the system installation and IRMs completed in OU-2 is presented in **Table 1b**, below.

Table 1b – Summary of OU-2 Remedial Activity

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

1.1.3 Operable Unit 3 (OU-3)

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

Table 1c – Summary of OU-3 Remedial Activity

Date	OU-3 Remedial Activity	Comment
2000	Groundwater Treatment IRM	An oxygen injection system was installed at the intersection of Union Boulevard and Lanier Lane to reduce the concentrations of MGP-related contaminants in groundwater prior to discharge into O-Co-Nee Pond (Foster Wheeler Environmental Corporation [FW], 2000).
May 2001, September 2001,-October 2004	ISCO IRMs	Three rounds of ISCO by In-Situ Oxidative Technologies, Inc. (ISOTEC) were used to treat the Brightwaters Yard groundwater plume source area (FW, 2000).
May-July 2004	Excavation IRM	A source area excavation was effective in removing 1,500 tons of source contaminated soils (PS&S, 2005).
2004	Groundwater Treatment IRM	The Brightwaters Yard oxygen injection system was installed to reduce the concentrations of MGP-related contaminants in groundwater leaving the OU-3 site boundary (PS&S, 2004).
2008	Storm Sewer Rehabilitation IRM	Sections of the storm water collection network located within OU-3 were rehabilitated. This included the replacement of catch basins and the cured in-place lining of drainage piping (GEI, 2010b)
July 2009	Brightwaters Yard Oxygen Injection System Abandonment	The Brightwaters Yard system was abandoned in support of the LIRR Excavation IRM (National Grid, 2010).

Date	OU-3 Remedial Activity	Comment
February 2010 (Phase I completed) July 2010 (Phase II completed) September 2010 (Phase III completed)	LIRR Excavation/Temporary Track Relocation IRM	Source material was removed from the OU-3 Brightwaters Yard and under the adjacent LIRR property (GEI, 2009c).
April 2010	Community Road Oxygen Injection Line	This treatment line was installed to replace the OU-3 Union Boulevard oxygen injection system (GEI, 2010a).
July 2010	OU-3 Union Boulevard Oxygen Injection System Abandonment	The system was abandoned to limit the amount of remedial equipment within the community. The Community Road oxygen injection line was installed to replace this system (National Grid, 2010).
March 2012	OU-3 Community Road Oxygen Injection Line Reconfiguration	This treatment line was reconfigured to optimize the treatment of impacted groundwater in OU-3 (National Grid, 2011).
March 2013/August 2013	ORC-Advanced Injection Program	A targeted Oxygen Release Compound – Advanced (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 Long Island Rail Road (LIRR) right-of-way.

1.1.4 Operable Unit 4 (OU-4)

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

Table 1d – Summary of OU-4 Remedial Activity

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

2. Remediation Systems

Groundwater remedial systems in operation at the site include DNAPL recovery, a combined ozone injection and soil vapor extraction system, and 10 oxygen injection systems. A description of each system, the quarter's monitoring activities, and operational data are presented in the sections below. The location of all remedial activities performed at the site is provided on **Figure 2**.

2.1 OU-1 DNAPL Recovery System and NAPL Monitoring

2.1.1 Program Scope and Purpose

A DNAPL recovery system was installed at recovery well BBRW-02 in January 2006. The location of BBRW-02 is shown on **Figure 1**. The DNAPL recovery system consists of a Blackhawk Electric Anchor Piston Pump which pumps DNAPL from BBRW-02 and discharges it to a United States Department of Transportation/United Nations approved 55-gallon steel drum. The DNAPL recovery system is operated approximately once every four weeks as of Q2 2011. A routine evaluation of DNAPL thicknesses and recovery volumes determined that recovery operations would shift from a three week schedule to a four week schedule in Q2 of 2011.

In addition to the NAPL Recovery operations, OU-1 monitoring and recovery wells are gauged quarterly for the presence of LNAPL and DNAPL.

2.1.2 OU-1 NAPL Monitoring Data

2.1.2.1 DNAPL Monitoring

DNAPL has historically been observed in OU-1 at wells BBRW-01R, BBRW-02, BBRW-06, BBRW-08, BBMW-05D, BBMW-22D, BBMW-34I2, BBMW-38I, BBMW-38I2, OZMW-21I, OZMW-21D, as well as in temporary recovery wells TG-29I2, TG-32I2, TG-32D, and TG-44I2. Temporary recovery well TG-29I2 was damaged during Q2 2012 and is no longer part of the gauging program. Between Q3 2013 and Q2 2014, thicknesses of DNAPL in OU-1 wells have remained consistent with previous monitoring data as shown in **Table 2a**, below.

Table 2a – Summary of Measured DNAPL Thickness

Well ID	Screen Interval	Average DNAPL Thickness (feet)							
		Q3 12	Q4 12	Q1 13	Q2 13	Q3 13	Q4 13	Q1 14	Q2 14
BBRW-01R	30-60	0.5	0.6	1.1	0.4	0.4	0.5	0.4	0.6
BBRW-02	58.2-78.2	5.3	6.2	6.5	5.7	6.4	6.7	6.9	6.3
BBRW-06	25-55	1.1	1.4	0.4	0.5	0.6	0.8	0.3	1.5

Well ID	Screen Interval	Average DNAPL Thickness (feet)							
		Q3 12	Q4 12	Q1 13	Q2 13	Q3 13	Q4 13	Q1 14	Q2 14
BBRW-08	65-75	2.8	NM	4.67	2.1	2.2	0.7	1.2	1.9
BBRW-09	66-76	NI	NI	Trace	Trace	0.0	0.0	0.0	0.0
BBMW-22D	64-74	4.8	4.5	4.8	4.4	4.7	3.9	3.2	3.3
BBMW-34I2	40-45	1.7	2.5	1.9	2.1	1.9	2.5	2.3	2.1
BBMW-38I	25-30	0.5	0.9	1.0	0.5	0.8	1.5	1.4	1.5
BBMW-38I2	40-45	0.9	1.2	1.5	1.1	1.3	1.6	1.6	1.4
OZMW-21I	20-30	1.4	1.7	1.1	1.5	1.1	1.8	1.4	1.2
OZMW-21D	55-60	1.5	1.4	1.5	1.4	1.6	1.7	1.6	1.3
TG-29I2	55-65	Trace	NM	NM	NM	NM*	NM*	NM*	NM*
TG-32I2	40-50	1.2	NM	2.4	2.3	2.4	0.5	1.5	3.0
TG-32D	65-75	1.7	NM	1.6	1.3	1.3	0.5	1.2	1.7
TG-44I2	55-60	1.5	NM	0.8	1.5	1.5	1.0	0.5	1.0

Notes:
NI – Not Installed
NM – Not Measured
NM* - Not measured – well damaged
Historically, DNAPL was observed at recovery well BBRW-01. This well has been abandoned.
BBMW-22D is located within 15 feet of BBRW-02. DNAPL thickness at this well is influenced by pumping operations at BBRW-02. DNAPL is not recovered at BBMW-22D.

2.1.2.2 LNAPL Monitoring

Historically, LNAPL has been observed in OU-1 in monitoring wells BBMW-34I and OZMW-25I. LNAPL has not been observed at BBMW-34I and OZMW-25I since Q3 2011. Recently LNAPL has been observed in OZMW-21S, as shown in **Table 2b**, below.

Table 2b – Summary of Measured LNAPL Thickness

Well ID	Screen Interval	Average LNAPL Thickness (feet)											
		Q3 11	Q4 11	Q1 12	Q2 12	Q3 12	Q4 12	Q1 13	Q2 13	Q3 13	Q4 13	Q1 14	Q2 14
BBMW-34I	25-30	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
OZMW-21S	5-15	NM	NM	NM	NM	NM	0.2	0.1	0.1	0.1	0.65	0.1	0.1
OZMW-25I	20-30	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

Note:
NO – Not Observed
NM – Not Measured

2.1.3 OU-1 DNAPL Recovery Data

2.1.3.1 DNAPL Recovery

Approximately 467 gallons of DNAPL have been recovered from BBRW-02 since the beginning of the recovery operations in Q1 2006. Approximately 23 gallons were removed between Q3 2013 and Q2 2014. A summary of the recovery operations are provided in **Table 2c**, below.

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

Time Period		Approximate DNAPL Thickness (feet)		Approximate DNAPL Removed
		Initial	Final	(Gallons)
Historical	Q1 2006 through Q2 2013	-	-	444.4
Q3 2013	7/3/2013	5.9	4.8	1.64
	8/2/2013	6.5	4.7	2.64
	9/5/2013	6.8	5.5	1.84
Q4 2013	10/7/2012	6.2	5.3	1.40
	11/7/2012	6.8	5.3	2.20
	12/5/2012	7.0	5.4	2.35
Q1 2014	1/16/2013	6.8	5.5	1.91
	2/13/2013	6.8	5.5	2.06
	3/14/2013	6.9	6.1	1.17
Q2 2014	4/11/2013	6.4	4.6	2.64
	5/2/2013	6.1	5.3	1.17
	6/3/2013	6.3	5.2	1.62
Totals	Q3 2013 - Q2 2014	-	-	22.65
	To Date	-	-	467.03

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

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

- The initial DNAPL thickness was consistently observed between approximately 6 and 7 feet between Q3 2013 and Q2 2014. This is generally consistent with recent historical DNAPL thickness measurements.
- The amount of DNAPL recovered during each pumping event increased from approximately 1.5 gallons to above 3.0 gallons after the operational schedule was

changed in Q2 2011 to operate once every four weeks. During the past year, product recovery varied from approximately 1.0 to 2.5 gallons per event.

2.2 OU-1 Ozone Groundwater Treatment System

2.2.1 Program Scope and Purpose

A groundwater treatment system was installed at the downgradient edge of OU-1 at 61 North Clinton Avenue. The treatment system consists of an ozone injection system and soil vapor extraction (SVE) system. The ozone injection system was installed to reduce concentrations of dissolved phase constituents of concern (COCs) prior to passing through the perforated section of the subsurface containment barrier wall. The barrier wall is located at the downgradient boundary of OU-1 and extends through the Upper Glacial aquifer to approximately 70 feet below ground surface (bgs). The 190-foot long perforated section is located parallel to Union Boulevard and extends from a depth of approximately 10 to 40 feet bgs. This perforated zone creates a window where groundwater is discharged from OU-1 to OU-2 after being treated by the ozone injection. The location of the groundwater treatment system and subsurface barrier wall are depicted on **Figure 1**.

The ozone injection system injects an air-ozone mixture at a maximum concentration of 3 percent ozone into the groundwater to destroy contaminants through in-situ chemical oxidation. The SVE system is designed to capture any potential ozone or volatile organic compounds (VOCs) that might migrate from the groundwater to the vadose zone.

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

The treatment system began operation in October 2009. Between Q3 2012 and Q2 2014, the average ozone/air mixture injected was approximately 1.5 percent ozone and 98.5 percent air.

2.2.2 Current Monitoring Activities

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

Table 2d – Current Ozone System Site Activity

Activity	Task Description	Frequency	Location of Results
Ozone System Monitoring	Routine inspection and maintenance of the system components, monitoring of operational parameters, and recording/adjusting of the injected ozone concentrations.	Weekly	Details are recorded on field logs and are not provided in this report.
SVE System Monitoring	Inspection and maintenance of the system components, recording of operational parameters, and screening of the SVE effluent.	Weekly	Details are recorded on field logs and are not provided in this report.
	Sampling of the SVE effluent before, in the middle of, and after treatment.	Monthly	Appendix B
System Performance Monitoring	Monitoring BTEX and total PAH concentrations downgradient well clusters OZMW-23 and OZMW-24.	Monthly	Figure 4, Section 4, Table 4-1, Table 4-2
	Sampling soil vapor (SV-01, SV-02, SV-03) downgradient and site ambient air.	Monthly	Section 2.2.4, Table 2-1, Appendix C
	Sampling ambient air downgradient and upgradient of system.	Monthly	Section 2.2.4, Table 2-2

2.2.3 Ozone Injection System OM&M Data

2.2.3.1 Groundwater

The ozone injection system has been effective at reducing BTEX and total PAH concentrations in groundwater. The ozone injection system treats groundwater prior to passing through the perforated window of the subsurface barrier wall, 10 to 40 feet bgs. The reduction of BTEX and total PAH concentrations are shown in the shallow and intermediate zones of the time series graphs of OZMW-23 and OZMW-24 on **Figure 4**. These monitoring well clusters are located downgradient of the system and upgradient of the subsurface barrier wall. Total PAH concentrations at OZMW-24I2 and OZMW-24D was elevated, but decreased in Q2 2014. Groundwater passing through the perforated section of the subsurface barrier wall is also treated by the OU-1 Union Boulevard oxygen injection system. Groundwater quality trends are discussed further in Section 4.

2.2.3.2 Ozone Injection System

Approximately 11 pounds of ozone were injected each day between Q3 2012 and Q2 2014. The ozone groundwater treatment system was in operation for 333 out of 365 days (91%) in the past four quarters.

- Q3 2013 – The system was operational for 84 out of 92 possible days. The system was down for eight days due to system malfunctions and maintenance.
- Q4 2013 – The system was operational for 77 out of 92 possible days. The system was down for 15 days due to system malfunctions.
- Q1 2014 – The system was operational for 81 out of 90 possible days. The system was down for nine days due to system malfunctions.
- Q2 2014 – The system was operational for 90 out of 91 possible days. The system was down for one day due to system malfunctions.

2.2.3.3 SVE System Effluent

Total VOC concentrations, measured after granular activated carbon treatment, ranged between 0.003 and 0.08 parts per million (ppm) during the past four quarters. **Appendix B** presents data collected from the SVE system effluent, before carbon treatment (OZ-PREGAC), in between carbon vessels (OZ-MGAC), and after carbon treatment (OZ-STACK).

2.2.4 Ozone Groundwater Treatment System Soil Vapor and Ambient Air Sampling

Three soil vapor points (OZSV-01, OZSV-02, and OZSV-03) are located downgradient of the ozone groundwater treatment system. These points are sampled monthly to monitor potential influence of the ozone groundwater treatment system operation on soil vapor concentrations downgradient of the barrier wall. Ambient air is monitored to determine the potential influence of the ozone groundwater treatment system on ambient air.

Soil vapor concentrations have remained generally consistent at the locations downgradient of the ozone groundwater treatment system. A majority of the compounds detected have varied within a range of 50 micrograms per cubic meter ($\mu g/m^3$) over the sampling history. Between Q3 2013 and Q2 2014, concentrations remained generally consistent with historical levels with a few notable exceptions. The concentrations of several potentially MGP-related compounds increased significantly in March 2014 at OZSV-01. They included: n-dodecane, n-decane, naphthalene, n-undecane, 1,2,4,5-tetramethlybenzene, 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene, and 1,3,5-trimehtlybenzene, in addition to acetone, a non-MGP-related compound. The increases of these compounds were not sustained during the sampling events conducted in Q2 2014. Concentrations are depicted graphically in **Appendix B**. Analytical data are provided in **Table 2-1**.

Ambient air concentrations have remained mostly consistent since the startup of the ozone groundwater treatment system. Between Q3 2013 and Q2 2014, concentrations remained consistent with historical levels. Ambient air analytical data are provided in **Table 2-2**.

2.3 Oxygen Injection Systems

2.3.1 Program Scope and Purpose

Ten oxygen injection systems are currently in operation at the site. These systems generate and inject oxygen into the subsurface to create an aerobic environment which facilitates the bioremediation of the dissolved MGP-related contaminants. Oxygen injection is used to treat impacted groundwater within OU-1, OU-2 and OU-3. The system locations are shown on **Figure 1** and presented in **Table 2e,** below.

Table 2e – Oxygen Injection System Summary

Operable Unit	Oxygen Injection System Designation	Operation Start Date	System Description
OU-1	OU-1 Union Boulevard Oxygen Injection System	February 2008	Used to treat groundwater as it passes through the perforated portion of the subsurface barrier wall. Initially installed to provide temporary treatment during the construction and startup of the ozone injection system. NYSDEC has requested that the system remain online following the installation of the ozone injection system. The system was modified during Q4 2013 to target areas of remaining impacts.
	60/66 N. Clinton Ave Oxygen Injection System	January 27, 2010	Installed as part of the Phase 4 Remedial Action to treat impacted groundwater west of the barrier wall in OU-1.
	OU-1 Union Boulevard Extension	June 16, 2011	Extension of the OU-1 Union Boulevard system installed to comply with the requirement of the OU-2 Remedial Decision Document issued by the NYSDEC in 2008. The system treats impacts east of the subsurface barrier wall.
	OU-1 North Oxygen Injection System	October 28, 2013	Installed to treat impacted groundwater in the eastern portion of OU-1.
OU-2	Garner Lane (Montauk Highway and Manatuck Lane) Oxygen Injection Lines	December 28, 2005	Installed as part of an Interim Remedial Measure in OU-2 to treat groundwater prior to discharge to Lawrence Creek. The system is comprised of two injection lines located along Montauk Highway and at the intersection of Manatuck Lane and Garner Lane. The Montauk Highway line was modified during Q4 2013 to target areas of remaining impacts.
	34 N. Clinton Ave Oxygen Injection Line	January 20, 2009	Installed to comply with the requirement of the OU-2 Remedial Decision Document issued by the NYSDEC in 2008. These systems treat groundwater at three transects in the middle of OU-2. The 33 North Clinton Avenue line was modified during Q4 2013 to target areas of remaining impacts.
	9 N. Clinton Ave Oxygen Injection Line	February 16, 2009	
	33 N. Clinton Ave/Cooper Lane Oxygen Injection Line	March 31, 2009	
		November 16, 2009	
	Plume Tail Oxygen Injection System	August 17, 2009	Installed to treat groundwater prior to discharging into Lawrence Creek.
	29 Community Road	June 14, 2011	Installed to treat the western extent of the OU-2 groundwater plume that was delineated in the 2010 Pre-Design Investigation.
OU-3	Community Road Oxygen Injection Line	April 6, 2010	Installed to replace the former Union Boulevard and Brightwaters yard systems. This treatment line is supplied by the 60/66 North Clinton Avenue oxygen injection system located within OU-1. This system was reconfigured in March 2012 to more effectively distribute oxygen to impacted areas
	87 Community Road	September 26, 2013	Installed to treat impacted groundwater in OU-3, south of the Long Island Rail Road (LIRR) right-of-way.

2.3.2 Current Monitoring Activities

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

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

Current Activity	Description	Frequency	Location of Results
Oxygen System Monitoring	Routine inspection and maintenance of the system components, monitoring of operational parameters, and recording/adjusting of the injection flow rates.	Monthly	Appendix D, E
	Monitoring of oxygen purity.	Monthly	Appendix D, E
Performance Monitoring of Oxygen Injection Systems	Monitoring of BTEX and total PAH concentrations in groundwater at upgradient and downgradient wells.	Quarterly	Section 4, Figures 4 & 5, Table 4-3 and 4-4
	Monitoring of groundwater chemistry parameters.	Monthly	Appendix F

2.3.3 Oxygen Injection System OM&M Data

2.3.3.1 System Operational Data

Approximately 705,056 pounds of oxygen were injected into OU-1, OU-2, and OU-3 from Q3 2013 through Q2 2014. All of the oxygen injection systems experienced some downtime during the past four quarters. The oxygen systems went down mainly due to power outages and mechanical issues. Injected oxygen weights are calculated in **Appendix D** for OU-1 and OU-3 systems. Oxygen weights for OU-2 systems are calculated in **Appendix E**. Injected oxygen weight and system operational data are summarized in **Table 2g**, below.

Table 2g – Oxygen Injection Systems Operations Data

Operable Unit	Oxygen Injection System/Treatment Line	System Operational Time (%)	Weight of Oxygen Injected (pounds)				Total Weight of Oxygen Injected Through Q2 2014 (Pounds)
			Q3 13	Q4 13	Q1 14	Q2 14	
OU-1	OU-1 Union Boulevard and Extension	100	16,451	18,717	18,240	13,101	353,882
	60/66 N. Clinton (O_2 to OU-1)	97	9,344	8,803	8,785	7,234	147,994
	OU-1 North	99*	0	9,781	10,834	8,905	29,520
OU-2	Garner Lane	100	55,732	24,881	24,661	20,894	863,682
	9 N. Clinton	91	18,246	14,533	13,086	9,697	315,953
	34 N. Clinton	92	18,735	16,756	14,977	16,341	385,246
OU-2	33 N. Clinton/Cooper Lane	100	21,484	20,142	22,144	18,550	445,774
	Plume Tail	100	9,372	9,116	10,252	7,680	146,311
	29 Community Road	99	20,268	22,269	21,365	16,527	186,157

Operable Unit	Oxygen Injection System/Treatment Line	System Operational Time	Weight of Oxygen Injected (pounds)				Total Weight of Oxygen Injected Through Q2 2014 (Pounds)
			Q3 13	Q4 13	Q1 14	Q2 14	
OU-3	Community Road (60/66 N. Clinton [O_2 to OU-3])	96	22,205	19,572	25,424	20,143	262,074
	87 Community Road	100*	0	14,966	13,721	11,121	39,808

*: Since system start-up

2.3.3.2 Groundwater Parameters

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

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

Operable Unit	Groundwater Interval	DO Concentrations (mg/L)			Downgradient Monitoring Wells
		Baseline Average	Historical Average	Q3 13 - Q2 14 Average	
OU-1	Shallow (0-10')	12.5	19.4	18.8	OZMW-16, OZMW-17, OZMW-18, OU2MW-50, OU2MW-57
	Intermediate (10-50')	7.0	10.2	12.9	
	Deep (50'+)	0.1	0.9	5.4	
OU-2	Shallow (0-10')	5.4	23.0	25.2	OU2MW-02, OU2MW-19, OU2MW-30, OU2MW-39, OU2MW-47, OU2MW-55
	Intermediate (10-50')	3.0	21.5	29.8	
	Deep (50'+)	5.0	14.8	17.0	
OU-3	Shallow (0-10')	10.1	7.5	12.5	OU3MW-02, 03, 04, 05, 07, IO-10, MW-34, MW-46WR, MW-70/70S
	Intermediate (10-50')	2.4	9.6	17.7	

Notes:
mg/L - milligrams per liter
'- feet

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

Operable Unit	Groundwater Interval	ORP Values (mV)			Downgradient Monitoring Wells
		Baseline Average	Historical Average	Q3 13 - Q2 14 Average	
OU-1	Shallow (0-10')	29	100	118	OZMW-16, OZMW-17, OZMW-18, OU2MW-50, OU2MW-57
	Intermediate (10-50')	63	129	141	
	Deep (50'+)	0	35	45	
OU-2	Shallow (0-10')	51	199	210	OU2MW-02, OU2MW-19, OU2MW-30, OU2MW-39, OU2MW-47, OU2MW-55
	Intermediate (10-50')	3	157	190	
	Deep (50'+)	50	149	164	
OU-3	Shallow (0-10')	-9	14	45	OU3MW-02, 03, 04, 05, 07, IO-10, MW-34, MW-46WR, MW-70/70S
	Intermediate (10-50')	32	102	170	

Notes:
mV - millivolt
'- feet

Specific trends in DO and OPR values are presented below:

- DO concentrations and ORP values in shallow, intermediate, and deep groundwater in OU-1 increased significantly from baseline values collected prior to system startup and remained elevated in the past four quarters.
- In OU-2, DO concentrations and ORP values increased significantly from baseline values collected prior to system startup and have remained elevated over the past four quarters.
- DO concentrations and ORP values in deep wells in OU-1 and the intermediate zone in OU-2 have increased during the past four quarters. This is likely due to the modification of several of the oxygen injection lines to deliver more oxygen to these zones.
- DO concentrations and ORP values in shallow and intermediate groundwater in OU-3 have continued to increase during the past four quarters. This is likely due to the reconfiguration of the OU-3 Community Road treatment line in Q1 2012 and to the system installation at 87 Community Road.

2.3.3.3 BTEX and Total PAH Concentrations

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

3. Groundwater Flow

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

3.1 Scope of Groundwater Level Monitoring Program

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

Depth to groundwater measurements were collected from a total of 345 wells, and five surface water measurements from gauging stations in Q2 2014. The distribution of these wells for each of the operable units consisted of 80, 143, 75 and 47 monitoring wells from within and in the vicinity of OU-1, OU-2, OU-3 and OU-4, respectively. The surface water elevations were obtained from surface water gauges located within OU-2 in Lawrence Lake (BBSW-07) and Lawrence Creek (OU2SW-01 and BBSW-06), in OU-3 from a surface water gauge located within the headwaters of O-Co-Nee Pond (BBSW-13), and in OU-4 from a surface water gauge located in Watchogue Creek (a.k.a., Crum's Brook) at Union Boulevard (BBSW-14). The depth to groundwater and surface water elevation measurements were collected from March 31 through April 2, 2014.

The depth to groundwater and groundwater elevation data for the site and offsite areas are provided in **Tables 3-1** through **3-8** and on **Figures 6** through **8**. The elevation data presented in the tables and figures is in reference to the North American Vertical Datum (NAVD) 88 datum. All historical groundwater elevation data, collected prior to November 2007, has been recalculated based on the November 2007, or subsequent survey data, and the NAVD 88 datum.

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

3.3 Groundwater Elevation and Flow

As depicted on **Figures 6** through **8,** the groundwater flow direction throughout the site is generally towards the south/southeast. The data provided on **Figures 7** and **8** indicate that the shallow and deep groundwater elevations and groundwater flow directions are generally similar.

Figure 9 includes hydrographs depicting the historical groundwater elevations for the period beginning in Q2 2002 through the current monitoring period (Q2 2014). The groundwater elevations are presented for select sitewide shallow, intermediate, and deep wells. Minimum and maximum historical values are summarized in Table 3a below.

Table 3a – Summary of Historical Groundwater Elevations

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

The hydrographs show regular seasonal variations in groundwater elevation throughout all screen intervals. Q2 2014 values are near, or slightly above the average values for the historical monitoring period, and are generally higher than the values for Q2 2012 and Q2 2013.

4. Groundwater Quality

In general, the OU-1/OU-2 and OU-3 areas of MGP-impacted groundwater (concentrations of BTEX and total PAH equal to or greater than 100 micrograms per liter [µg/L]) have significantly been reduced in size and concentration since the implementation of remedial activities. These reductions have been occurring since the installation of the barrier wall, source area excavations, and the operation of the ozone and oxygen injection treatment systems. Following the startup of the remedial systems in 2009, the depiction of BTEX and total PAH impacts in groundwater on **Figures 10** through **15** have been significantly refined, particularly in OU-1 and OU-3, with the installation and sampling of new groundwater monitoring well clusters. Several areas, where elevated concentrations have persisted, were addressed during the current monitoring period. The impacts were addressed by the installation of additional oxygen injection systems, or the modification of current systems to focus treatment on the zones with residual impacts. Areas of remaining impacts are being monitored and addressed, as appropriate.

For OU-3, following the remedial excavations (Phases I, II & III), which were completed in September 2010, soil and groundwater investigations in the Brightwaters Yard, as well as in the area immediately south of the LIRR tracks, were conducted in December 2010, June 2011, and February 2012 to evaluate the post excavation IRM groundwater conditions. Replacement groundwater monitoring wells, along with several new monitoring wells, have been installed to further and more accurately define the impacts in the area.

In order to address the remaining impacts identified, additional remedial measures have been undertaken. Recent remedial activity in OU-3 has included the reconfiguration of the Community Road oxygen injection line (Q1 2012), targeted Oxygen Release Compound – Advanced (ORC-A) injection programs in the downgradient area in Q2 and Q3 2013, and the installation of the 87 Community Road oxygen injection system during late Q3 and early Q4 2013. Significant reductions to groundwater impacts in the vicinity and downgradient of these areas have been noted in recent sampling events, as discussed further below. During the past year, the reductions have included the elimination of the plume in the area downgradient of Community Road.

The area of impacted groundwater in OU-4 during Q2 2014 is slightly larger than it was prior to, or following the completion of S-ISCO injection, which was initiated in Q2 2009 and completed in Q4 2009. However, in recent sampling events decreasing concentration trends are evident in the shallow and intermediate zones. No Impacts have been present in the deep zone.. The majority of the OU-4 Excavation IRM consisted of shallow soil excavation (approximately 10 feet bgs) and was performed in Q2 and Q3 2011. The excavations were performed “in the wet” (no dewatering). Temporary increases in groundwater concentrations have typically been observed in other areas of the site following similar source material excavations, as was the case in OU-4.

In the sections below, descriptions are provided for Q2 2014 BTEX and total PAH groundwater impacts, as well as for the composite plumes for each of the OUs. The Q2 2014 plume is also compared to the Q2 2013 plume and the remedial baseline Q1 2009 plume. The second quarter data set is chosen for comparison since the annual sampling round is conducted during that period each year. The annual sampling round consists of the largest number of wells and therefore, the most complete data set. These groundwater horizons include shallow (water table zone to approximately 10 feet bgs), intermediate (approximately 10 to 50 feet bgs), and deep (below approximately 50 feet bgs). In addition, any significant changes or impacts noted during the reduced sampling rounds conducted between the last complete sampling round (Q2 2013) and the current annual sampling round (Q2 2014) are discussed.

The data presented by the Q1 2009 iso-concentration lines in the plume iso-concentration maps in **Figures 10** through **15** (described below) represent the first full round of groundwater results of the current monitoring well network installed as part of the OU-2 Remedial Design. The Q1 2009 data represents the groundwater conditions prior to the start of the groundwater treatment systems in the mid-plume area. The oxygen injection lines located at 9 North Clinton Avenue, 33 North Clinton Avenue, and 34 North Clinton Avenue were started following Q1 2009. In addition, the OU-4 Cesspool Area S-ISCO IRM was initiated in Q2 2009. Therefore, this data set represents baseline conditions within OU-2 and OU-4 groundwater prior to treatment. As such, the Q1 2009 plume, throughout the remainder of this report, is referred to as the Baseline Q1 2009 Plume.

4.1 Groundwater Horizon Descriptions and Comparisons

The distribution of BTEX and total PAH concentrations within the Upper Glacial aquifer for Q2 2014 are presented in the iso-concentration maps on **Figures 10** through **15**. The iso-concentration figures for the sampling events conducted between the first annual report (Q2 2013) and the current report (Q2 2014) are provided in **Appendix G**. As discussed in Section 1 of this report, reductions to the long term groundwater monitoring program were approved by NYSDEC in August 2012. As part of the approved reductions, criteria were established to reduce sampling frequency and eliminate monitoring wells from the program provided they meet the approved criteria. Monitoring wells which were not sampled due to implementation of the reduction criteria, having been below ambient groundwater quality standards (or below detection limits for compounds whose standards are below the detection limits) for four consecutive quarterly sampling events or two consecutive annual sampling events, were assumed to be non-detect for generation of the iso-concentrations figures.

The horizontal distribution of the constituent groups in each iso-concentration figure is depicted as lines of equal concentration (iso-concentration lines). The iso-concentration lines were generated using a combination of applied methods. Initially, the lines were created by direct graphical interpolation between concentrations. These lines were then modified to factor in groundwater flow, taking into account the southeasterly flow direction and the low transverse dispersion of the Upper Glacial aquifer, as well as other local hydraulic factors that might influence groundwater flow. For the purpose of this report, the lateral extent of groundwater

impacts (plume outline) in each groundwater horizon for BTEX and total PAH is defined by the 100 µg/L contour.

Beginning in Q3 2009 and continuing through Q3 2012 when monthly sampling was discontinued in OU-1, the concentrations used for the iso-concentration maps referenced below are the latest concentrations recorded (for wells that are sampled on multiple occasions) within the reporting quarter for each respective well (excluding OU-3). Monthly samples are currently collected from multiple wells within OU-3 and analyzed for BTEX only. The full round of quarterly samples for OU-3, which currently include analysis for BTEX and PAHs, are typically collected in the first month of the quarter. The BTEX results from the full round of quarterly samples for OU-3 are presented on the summary tables and figures. The other monthly BTEX groundwater data is included in the complete analytical tables for OU-3 (**Tables 4-11** through **4-13**).

In addition to the comparisons made between the iso-concentration maps, a comparison of concentration ranges and averages between the Baseline Q1 2009 Plume, the Q2 2013 plume, and the current Q2 2014 plume is provided, where appropriate, for the impacted areas within each OU. For OU-1, the concentration comparison was conducted for the entire operable unit, as well as specifically for the wells located downgradient, or within the immediate vicinity, of the groundwater treatment systems located at the downgradient edge of the area. The downgradient wells serve to evaluate the effects of the groundwater treatment systems. Monitoring wells located on the eastern side of the upgradient area of OU-3 were not included in the concentration comparison, as the concentrations in these wells are typically low or non-detect and are not related to the impacts emanating from the central portion of OU-3. Graphical concentrations comparisons have also been included in this report for each of the OUs. The format and content of each graph is discussed within the text for each Operable Unit.

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

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

4.2 Operable Unit 1/Operable Unit 2

The groundwater plume designated as OU-2 and the source area of the plume, OU-1, are presented and evaluated together in this section, because of their dependent relationship. The remedial actions, IRMs and pilot studies that have been performed in OU-1 and OU-2 are outlined in Section 1 of this report.

4.2.1 BTEX and Total PAH Composite Plume Comparison

Figure 1 includes the Q2 2014 outline of BTEX and total PAH impacted groundwater. This composite outline denotes the horizontal extent of BTEX and total PAH from the three groundwater horizons. Also included on **Figure 1** for comparison are the outlines of the historical 2004 remedial investigation (RI) plume and the Baseline Q1 2009 Plume.

The composite Q2 2014 plume is comprised of three areas which have been divided and reduced in area from the single larger historical RI plume. Two of these areas are present, or originate in OU-1. The main area of impacts begins in the upgradient portion of OU-1, and continues downgradient into the mid-plume area of OU-2. A second area of impacts begins to the east of the capture zone of the barrier wall in the upgradient portion of OU-1 and extends downgradient to the operable unit boundary. The third area of impacts is present on the eastern side of the mid-plume area.

In comparison to the Baseline Q1 2009 Plume, the current composite Q2 2014 plume is significantly smaller in size (**Figure 1**). Significant changes to the overall outline of the composite plume from the pre-remediation depiction are summarized as follows:

- The plume is better defined throughout, particularly in OU-1, as a result of additional monitoring well installations.
- The Q2 2014 composite plume has been fragmented and is no longer continuous from OU-1 downgradient to the Manatuck Lane oxygen injection line.
- The plume has minimized in the mid-plume area and has been eliminated in the downgradient areas.

The composite Q2 2014 plume is slightly smaller than the corresponding Q2 2013 depiction (**Figure 1)**. The impacts in the eastern upgradient portion and mid-plume areas have been reduced slightly and the limited downgradient impacts present in Q2 2013 have been eliminated.

4.2.2 Groundwater Quality Horizons and Comparisons

A description of the individual depth horizons for BTEX and total PAH, and comparisons between the baseline plume and the current Q2 2014 plume are provided below. Historical BTEX and total PAH concentrations detected in each of the wells are presented in **Table 4-1**

and **Table 4-2** for OU-1 and **Tables 4-4** through **Table 4-9** for OU-2. The complete analytical results for Q3 2013 through Q2 2014 for OU-1 are presented in **Table 4-3**. The complete analytical results for Q3 2013 through Q2 2014 for OU-2 are presented in **Table 4-10**.

4.2.2.1 Shallow Zone

In OU-1/OU-2, the highest concentrations of BTEX are generally present in the shallow portion of the aquifer. Total PAH concentrations in shallow groundwater in OU-1/OU-2 are generally lower than the corresponding BTEX concentrations. As shown in the water table iso-concentration map (**Figures 10 and 11**), these impacts mainly are present in the eastern and south-central portions of OU-1.

There are currently two shallow areas of BTEX and two shallow areas total PAH impacted groundwater in OU-1, including a section upgradient of the central portion of the barrier wall, and a section to the east of the barrier wall. BTEX and total PAH impacts from the central section extend into OU-2. Impacts located east of the barrier wall, or the capture zone of the barrier wall, do not currently extend beyond the operable unit boundary.

Impacted groundwater inside the barrier wall capture zone is treated by the ozone injection system before passing through the perforated section of the barrier wall. Groundwater is then treated immediately downgradient of the barrier wall by the Union Boulevard oxygen injection system. Neither BTEX nor total PAHs were detected in shallow monitoring wells located immediately downgradient of the ozone injection system and the perforated section of the barrier wall.

Shallow BTEX and total PAH impacts to the east of the barrier wall and outside the capture zone have decreased in both size and magnitude during the past year. Impacts have been reduced in the upgradient area at monitoring wells BBMW-39S (BTEX only) and BBMW-40S. The reduced concentrations, particularly in BBMW-40S, may be the function of the high degree of variation evident in these wells in recent sampling events. The reductions near the downgradient edge of impacts in the area are likely directly attributable to the installation of the additional oxygen injection system, the OU-1 North oxygen injection line (see **Figure 2**) located to the north of the LIRR tracks, during Q3 and Q4 2013. Impacts remaining downgradient of the OU-1 North oxygen injection line will be treated by the Union Boulevard oxygen injection system as they migrate further downgradient.

Within the plume section located generally upgradient of the central portion of the barrier wall, all of the monitoring wells with concentrations above 100 µg/L were located within the capture zone of the barrier wall excluding one well, BBMW-41S. BTEX and total PAH concentrations in BBMW-41S have generally increased in recent sampling events, typically remaining above 5,000 µg/L (BTEX) and 1,000 µg/L (total PAH). The depiction of the plume to the west of the capture zone of the barrier wall is determined by the concentration in monitoring well BBMW-41S, as well as downgradient well OZMW-22SR. BTEX and total PAH concentrations in OZMW-22SR were below 100 µg/L in each of the sampling events conducted within the past year.

Farther downgradient in OU-2, BTEX concentrations in BBMW-23S, have generally remained elevated, but varied within the past year. Overall, the concentrations remain significantly below the historical average. The total PAH detections in BBMW-23S decreased slightly during the past year. These impacts do not persist past the downgradient Cooper Lane oxygen injection system. Similar to recent sampling events, the detections of BTEX and total PAH in BBMW-23S were the only shallow detections above 100 µg/L in OU-2 during Q2 2014. As an additional remedial measure, an ORC injection program was conducted to address remaining shallow impacts downgradient of the barrier wall during November 2013 as an additional remediation measure. Additional remedial measures are being considered to address the remaining impacts in the area.

Differences for shallow impacted groundwater from Q1 2009 and Q2 2014 (**Figures 10 and 11**) are summarized as follows:

- Concentrations of BTEX and total PAHs have generally decreased throughout OU-1, with the decreases particularly evident in the area downgradient, or in the immediate vicinity of, the groundwater treatment systems present near the downgradient edge of OU-1.
- The shallow groundwater plume has largely been eliminated in OU-2, with only one well with detections currently above 100 µg/L.
- A section of the shallow plume is present in Q2 2014 to the east of the barrier wall, defined by concentrations in wells installed subsequent to the Baseline Q1 2009 sampling event. This area has been reduced in size and magnitude during the past year, likely due to the installation and operation of the OU-1 North oxygen injection line.

A summary of the concentrations in OU-1/OU-2 between Q1 2009, Q2 2013, and Q2 2014 is provided in the tables below.

Table 4a – Comparison of BTEX Concentrations in Shallow Groundwater

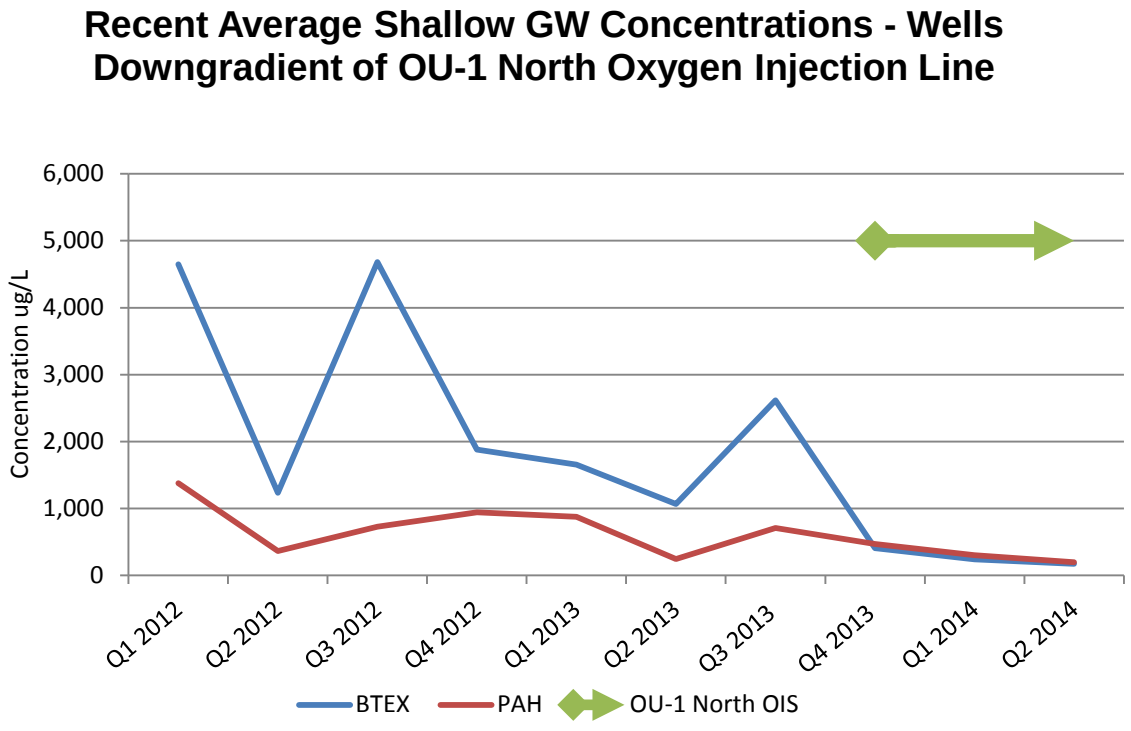
Operable Unit	Shallow Zone BTEX Concentrations (µg/L)					
	Range			Average		
	Baseline Q1 2009	Q2 2013	Q2 2014	Baseline Q1 2009	Q2 2013	Q2 2014
OU-1 (Overall)	0 – 11,947	0 – 8,730	0 – 7,622	3,270	1,203	768
OU-1 (Downgradient)*	0 – 244	0	0	96	0	0
OU-2	0 – 11,860	0 – 5,214	0 – 1,866	304	91	33

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

Operable Unit	Shallow Zone Total PAH Concentrations (µg/L)					
	Range			Average		
	Baseline Q1 2009	Q2 2013	Q2 2014	Baseline Q1 2009	Q2 2013	Q2 2014
OU-1 (Overall)	0 – 1,850	0 – 3,151	0 – 2,180	457	506	295
OU-1 (Downgradient)*	0	0	0	0	0	0
OU-2	0 – 1,673	0 – 525	0 – 187	55	9	4

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

Significant changes in shallow BTEX or PAH concentrations within the last year (since Q2 2013) are limited to decreases outside the eastern edge of the capture zone of the barrier wall in OU-1. As mentioned above, the decreases in the downgradient portion of this area are likely directly attributable to the installation of the OU-1 North oxygen injection line during Q3/Q4 2013. The graph presented below illustrates the decreases evident in monitoring wells (with historical detections) located downgradient of the newly installed OU-1 North oxygen injection system (OIS).



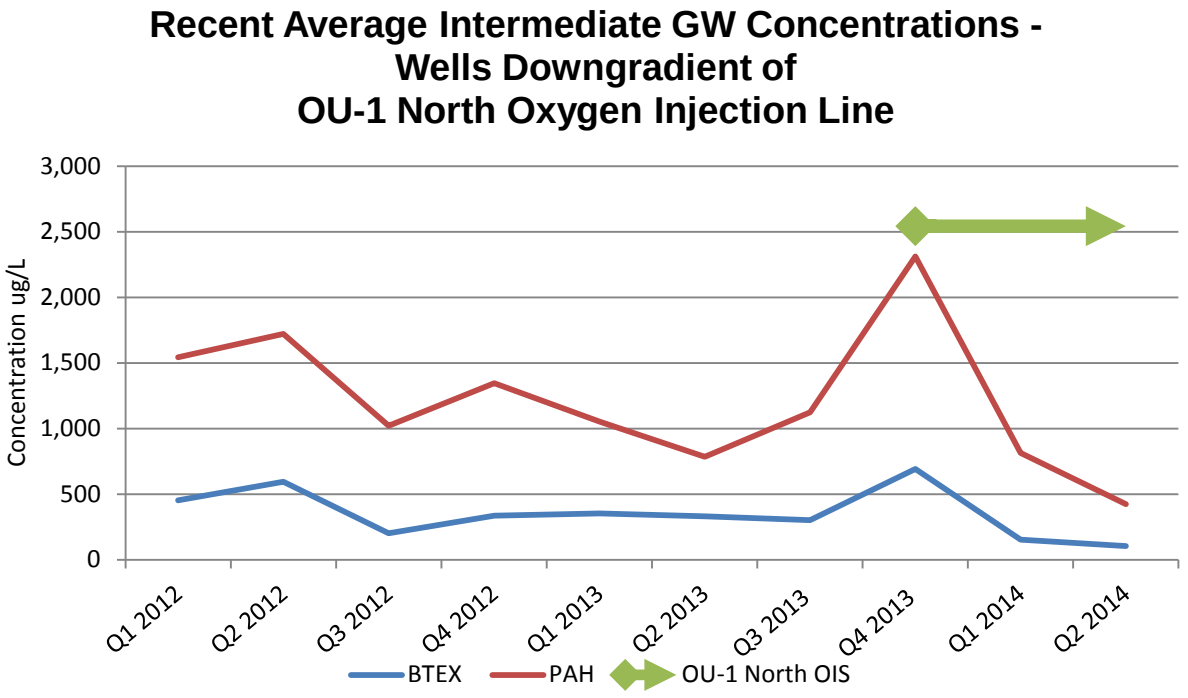
4.2.2.2 Intermediate Zone

Remedial activities, including operation of the oxygen injection systems, have divided and greatly reduced the BTEX and total PAH plumes in the intermediate zone of the aquifer's three

areas. During the past year the reductions have been significant with impacts now predominantly confined to OU-1. BTEX and total PAH concentrations above 100 µg/L in OU-2 are present in only one and two wells, respectively (**Figures 12 and 13**).

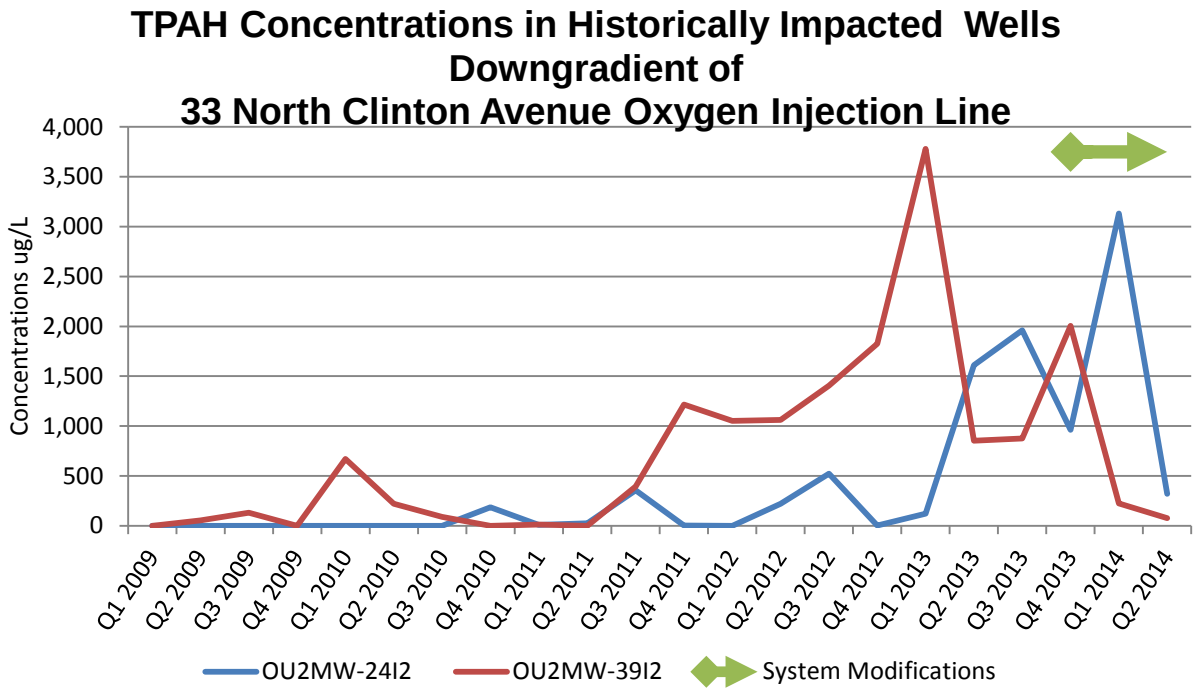
Similar to the shallow zone, the intermediate plume in OU-1 is divided into two areas, a central area behind the barrier wall, and an area located outside the eastern edge of the barrier wall or the capture zone of the barrier wall. The central section of the plume begins in the central portion of OU-1 and extends downgradient, ending roughly at the barrier wall. No detections of BTEX and total PAHs above 100 µg/L in intermediate wells located immediately downgradient of the perforated section of the subsurface barrier wall were identified during Q2 2014.

The impacted areas located to the east of the barrier wall or capture zone of the barrier wall, have been reduced in size during the past year. Historically, the impacts began in the vicinity of the LIRR tracks and extended into OU-2; however, currently the impacts are limited to the area between the LIRR tracks and Union Boulevard. Impacts in the eastern upgradient area have generally been low, but variable. Similar to the shallow zone, the reduction in impacts in this area is likely directly attributable to the installation of the OU-1 North oxygen injection line in Q3/Q4 2012. The graph below illustrates the reductions in intermediate wells downgradient of the system following installation.



As mentioned above, the intermediate impacts in OU-2 have been greatly reduced and are now limited to the mid-plume area. BTEX and total PAH impacts above 100 ug/L are limited to two wells, one of which is common to both the BTEX and total PAH impacted areas. Both wells are

located downgradient of the 33 North Clinton Avenue oxygen injection line. Although the results have been somewhat variable, the impacts in this area, particularly PAHs, have been significantly reduced in size and magnitude in recent sampling events (see graph below). Historically, the impacts in the area have been in the deeper intermediate wells screened from 45 to 50 feet bgs, particularly in monitoring wells OU2MW-24I2 and OU2MW-39I2. The reductions in this area are likely directly attributable to the modification of the 33 North Clinton Avenue oxygen injection system in Q3/Q4 2013. The modifications targeted the residual impacts in the deeper intermediate zone.



Differences for intermediate impacted groundwater from Q1 2009 (baseline) and Q2 2014 are summarized as follows (**Figures 12 and 13**):

- The Q2 2014 plume has been greatly fragmented and is currently confined to a small section of the mid-plume area.
- Concentrations have generally decreased significantly throughout the plume (see tables and graph below). The decreases are particularly evident in the areas downgradient, or in the immediate vicinity, of the groundwater treatment systems present at the downgradient edge of OU-1 and throughout the axis of the plume in OU-2. Recent decreases are evident downgradient of the new or modified groundwater treatment systems. Decreases are particularly evident downgradient of the OU-1 North and the 33 North Clinton Avenue oxygen injection lines.

Table 4c – Comparison of BTEX Concentrations in Intermediate Groundwater

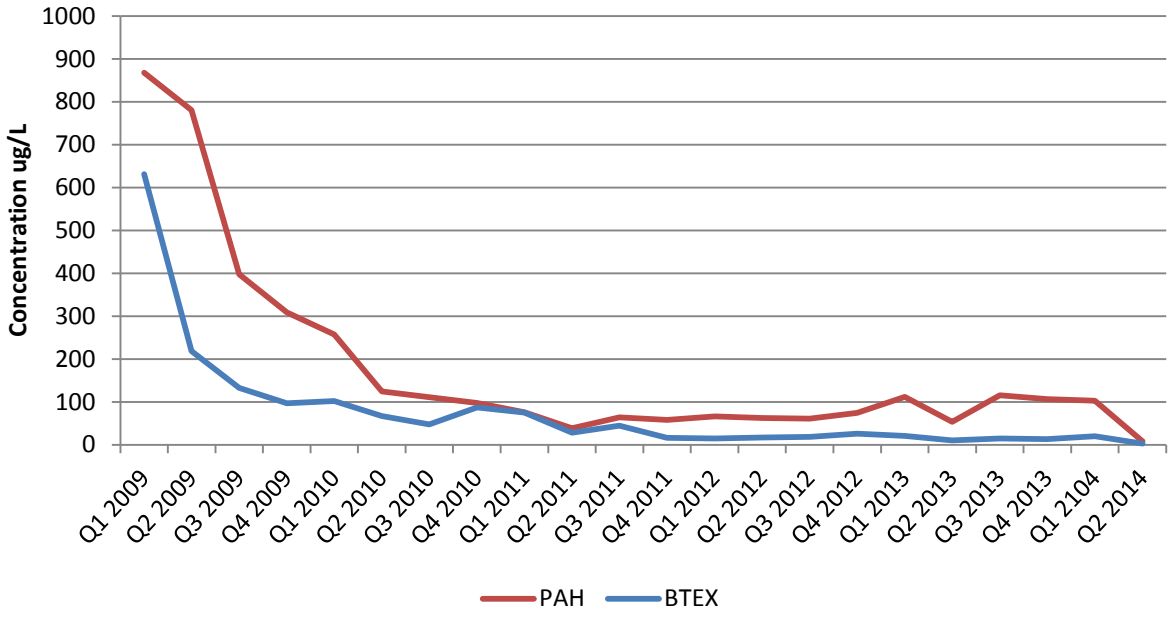
Operable Unit	Intermediate Zone BTEX Concentrations (µg/L)					
	Range			Average		
	Baseline Q1 2009	Q2 2013	Q2 2014	Baseline Q1 2009	Q2 2013	Q2 2014
OU-1 (Overall)	0 – 607	0 – 1,081	0 – 1,247	102	125	74
OU-1 (Downgradient)*	0 – 441	0 -–166	0 – 5	139	28	1
OU-2	0 – 28,040	0 – 347	0 – 105	637	11	3

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

Operable Unit	Intermediate Zone Total PAH Concentrations (µg/L)					
	Maximum			Average		
	Baseline Q1 2009	Q2 2013	Q2 2014	Baseline Q1 2009	Q2 2013	Q2 2014
OU-1 (Overall)	0 - 7,728	0 - 5,955	0 – 4,976	895	746	500
OU-1 (Downgradient)*	0 - 7,728	0 - 1,330	0 - 5	1,316	225	1
OU-2	0 - 7,147	0 – 1,610	0 - 440	877	54	8

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

OU-2 Average Intermediate Groundwater Concentrations During the Remedial Period (Q1 2009 through Present)

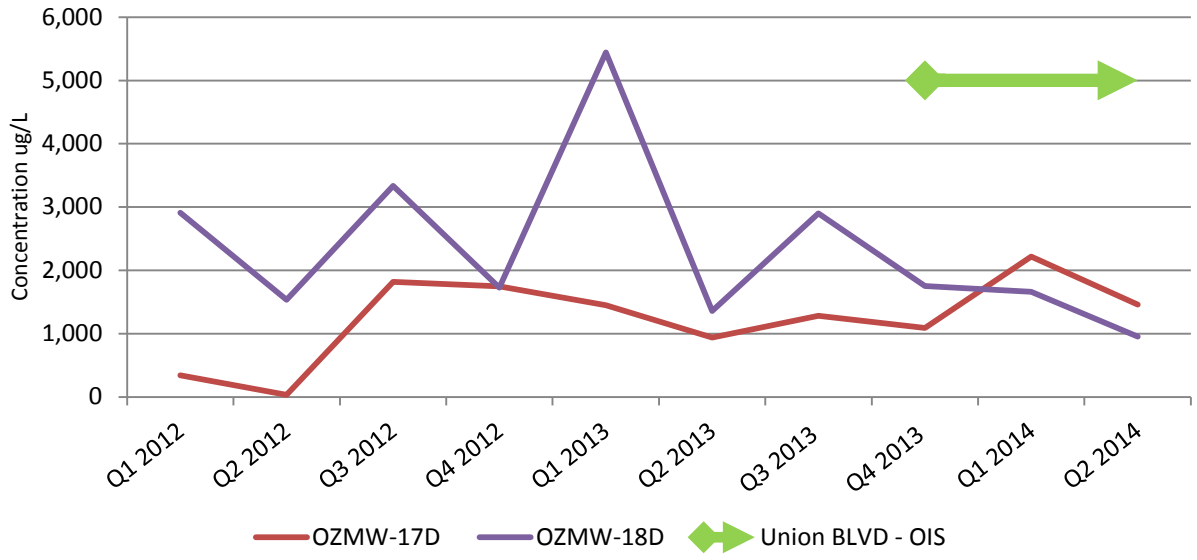


4.2.2.3 Deep Zone

In the deep groundwater (below a depth of approximately 50 feet within the Upper Glacial aquifer) of OU-1/OU-2, BTEX and total PAH impacts above 100 µg/L are primarily present in the same general areas as recent sampling events (**Figures 14** and **15**). The total PAH impacts are larger in size and generally characterized by higher concentrations than the corresponding BTEX impacted areas. These areas include behind the barrier wall in OU-1 and in the area immediately downgradient of the barrier wall. A small section of total PAH impacts are also present to the east of the barrier wall, as discussed further below. In the area immediately downgradient of the barrier wall, BTEX impacts are divided into two separate areas, while total PAH impacts are present in one continuous section, within the same area.

Historically, the concentrations in monitoring well OZMW-18D represented the only consistently elevated (above 100 µg/L) concentrations in deep monitoring wells located downgradient of the barrier wall. However, in recent sampling events, increases in total PAHs and more recently, BTEX, in monitoring well OZMW-17D are also evident. Concentrations in these wells have been variable but generally elevated (above 100 µg/L BTEX and 1,000 µg/L total PAH) in recent sampling events. Based on groundwater modeling and the elevated concentrations at this location, there appears to be a stagnation point downgradient of the barrier wall. Additional deep injection wells were installed in this area along the Union Boulevard oxygen injection line in Q3/Q4 2013 to treat these impacts. During Q2 2014, sight decreases were evident in these wells relative to Q1 2014 (see graph below) and preliminary Q3 2014 result indicate further decreases (excluding a slight increase in BTEX at OZMW-18D).

Recent Deep Zone Total PAH Concentrations - Downgradient of Union Blvd. OIS



The concentrations in these wells will be monitored going forward to determine if the decreasing trends continue, or if additional remedial measures need to be evaluated.

The increases in concentration in the area immediately downgradient of the barrier wall appear to have migrated downgradient, extending the plume in the area. As mentioned above, BTEX impacts in the area are divided, while the total PAH impacts are continuous from the area downgradient of the barrier wall to the area of the Cooper Lane and 33 North Clinton Avenue oxygen injection lines. Total PAH impacts near the Cooper Lane and 33 North Clinton Avenue oxygen injection lines have been present continuously since Q1 2011, while BTEX impacts became evident in the area Q3 2012. However, both BTEX and total PAH concentrations have been increasing in recent sampling events. The modifications to the Union Boulevard oxygen injection system are anticipated to reduce concentrations in the area in future sampling events. However, if decreasing trends are not apparent in future sampling events, additional remedial measures will be considered.

Differences for deep impacted groundwater from Q1 2009 and Q2 2014 are summarized as follows (**Figures 14** and **15**):

- The plume has been eliminated in downgradient areas of OU-2.
- A small section of total PAH impacts are present to the east of the barrier wall in Q2 2014. These impacts are defined by the concentration in one well, which was installed subsequent to the Baseline Q1 2009 sampling event.
- Concentrations have generally been decreasing throughout the plume as indicated below. Exceptions include the impacted areas noted above.

Table 4e – Comparison of BTEX Concentrations in Deep Groundwater

Operable Unit	Deep Zone BTEX Concentrations (µg/L)					
	Range			Average		
	Baseline Q1 2009	Q2 2013	Q2 2014	Baseline Q1 2009	Q2 2013	Q2 2014
OU-1 (Overall)	0 – 2,314	0 – 1,271	0 – 1,235	335	152	113
OU-1 (Downgradient)*	0 – 216	0 – 126	0 – 256	72	76	131
OU-2	0 – 569	0 – 1,860	0 – 1,470	59	58	47

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

Operable Unit	Deep Zone Total PAH Concentrations (µg/L)					
	Range			Average		
	Baseline Q1 2009	Q2 2013	Q2 2014	Baseline Q1 2009	Q2 2013	Q2 2014
OU-1 (Overall)	0 – 5,140	0 – 4,352	0 – 2,451	707	519	363
OU-1 (Downgradient)*	0 – 435	0 – 1,361	0 – 1,458	146	766	805
OU-2	0 – 7,007	0 – 2,468	0 – 3,444	455	128	151

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

No significant changes in deep impacts within the last year (since Q2 2013) have been observed. As mentioned above, decreasing trends may be developing for the deep impacted wells immediately downgradient of the barrier wall (OZMW-17D and OZMW-18D).

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

4.3 Operable Unit 3

A summary of the remedial activities conducted in OU-3 is provided in Sections 1 and 2 of this report. In addition to the ongoing oxygen injection groundwater treatment system IRMs discussed in Section 2.3, the OU-3 LIRR Excavation/Temporary Track Relocation IRM (Phases 1 and 2) was initiated in Q4 2009 and completed by Q2 2010. Additionally, the LIRR Excavation IRM, Phase 3 (Brightwaters Yard) was conducted during Q3 2010 and completed in September 2010. These excavation activities involved the removal of approximately 13,825 tons of impacted material from the Brightwaters Yard and immediately downgradient in the LIRR Right-of-Way (ROW), to depths ranging from 8 to 12 feet bgs.

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

In order to address the impacts identified, additional remedial measures have been undertaken. Recent remedial activity has included the reconfiguration of the Community Road oxygen injection line (Q1 2012), targeted Oxygen Release Compound – Advanced (ORC-A) injection programs in the downgradient area in Q2 and Q3 2013, and the installation of the 87 Community Road oxygen injection system during late Q3 and early Q4 2013. Significant reductions to groundwater impacts in the vicinity and downgradient of these areas have been noted in recent sampling events, as discussed further below. During the past year, the reductions have included the elimination of the plume in the area downgradient of Community Road.

Monitoring wells in OU-3 with elevated BTEX concentrations typically have PAH concentrations detected at significantly lower levels, therefore, BTEX concentrations can be used as an indicator of impacted groundwater and are the focus of the discussions below. The PAH data is provided in the tables and figures as referenced below. The discussion of OU-3 impacts has been divided into three areas: upgradient (Brightwater Yard), immediately south of the LIRR ROW (83 and 87 Community Road properties), and downgradient of the Community Road

oxygen injection system. The monitoring well locations are provided on **Figure 2** and the data is provided on **Tables 4-11** and **4-12**.

Additional remaining impacts have been identified in the intermediate zone within the sheeting cells left in place following the LIRR Excavation IRM, at monitoring well clusters installed within, and at the downgradient edge of the sheeting cells. The monitoring wells within these clusters, which include OU3MW-22I, OU3MW-22I2, OU3MW-23I, OU3MW-23I2, OU3MW-24I, and OU3MW-24I2, have been sampled for BTEX only and the data are included on **Tables 4-11** and **4-13.** The impacts are not included on the iso-concentrations maps since they are primarily isolated to the sheeting cells. An upgrade of the 87 Community Road oxygen injection system and installation of additional injection wells are planned for Q4 2014 to address the remaining impacts within the cells.

4.3.1 BTEX and Total PAH Composite Plume

The composite Q2 2014 plume is present in two areas. The first section begins in the southern portion of the Brightwaters Yard and continues downgradient approximately 200 feet, terminating in the area immediately south of the LIRR ROW. The plume reaches a maximum width of approximately 300 feet at the downgradient edge of the Brightwaters Yard, before narrowing in the area south of the LIRR tracks (**Figure 1**). The second area is present at the downgradient edge of the 87 Community Road property and is defined by the concentrations in one well. The division in the plume is likely directly attributable to the newly installed 87 Community Road oxygen injection system.

Significant changes to the outline of the Q2 2014 composite plume as compared to the Q1 2009 composite plume are noted as follows:

- The area of impacted groundwater in the Brightwaters Yard north of the LIRR tracks in Q2 2014 appears larger in comparison to Q1 2009. This is a result of the detected concentrations in several of additional wells installed in the area in Q4 2010 and Q2 2011, which are located farther (laterally) from the center of impacts than the wells present in the area in Q1 2009.
- The historical area of impacted groundwater has been reduced and fragmented and is no longer present in the downgradient area. Similar reductions are evident in comparison to the Q2 2013 plume.

4.3.2 Current Plume Description and Comparison to Baseline Q1 2009 Plume

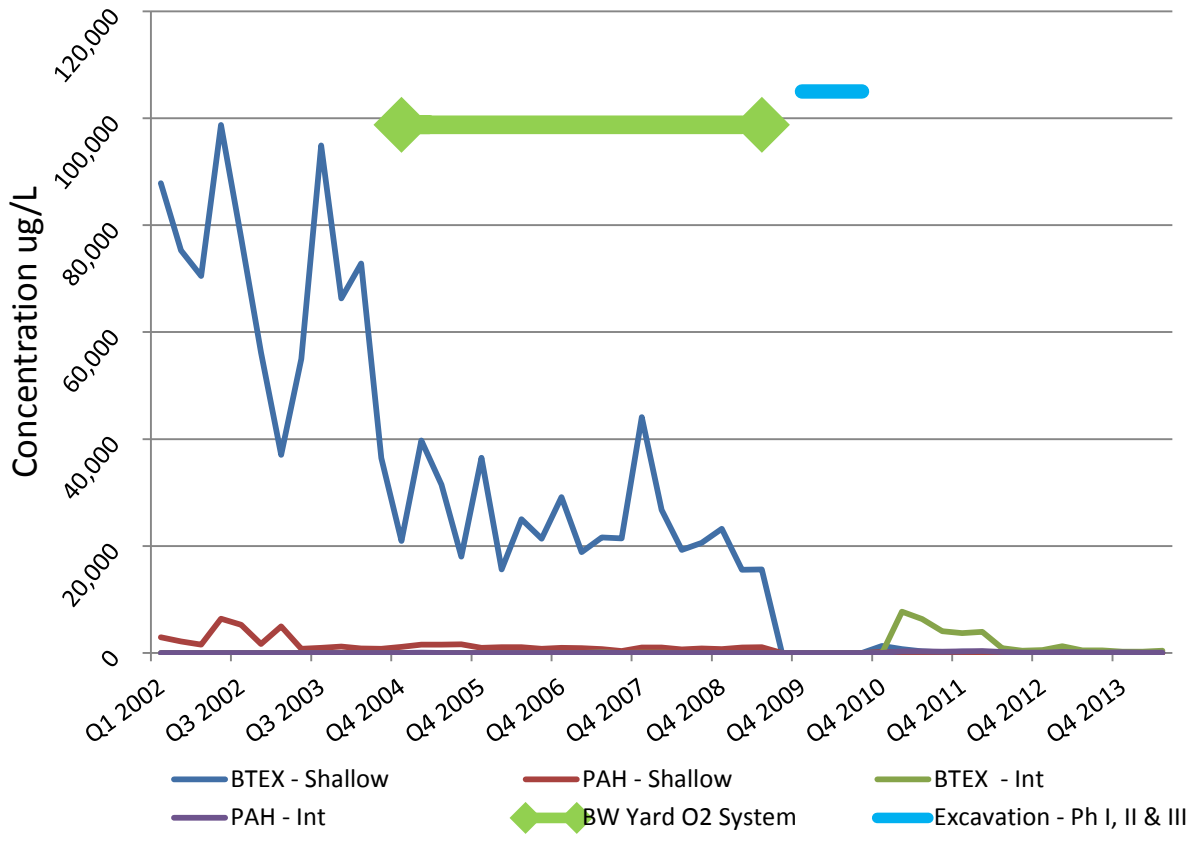
A description of the current groundwater plume configuration and a comparison of BTEX in the groundwater depth zones between Q1 2009 and Q2 2014 are provided below. Monitoring wells in OU-3 with elevated BTEX concentrations typically have PAH concentrations detected at significantly lower levels, therefore, BTEX concentrations can be used as an indicator of impacted groundwater and are the focus of the discussions below.

The BTEX and total PAH concentrations detected in the quarterly sampling round from each of the wells through Q2 2014 are presented in **Table 4-11** and **Table 4-12**. The complete analytical results for Q3 2013 through Q2 2014 are presented in **Table 4-13**. The area of BTEX and total PAH impacts above 100 µg/L for shallow zone wells in OU-3 are provided on **Figures 10** and **11**. Intermediate impacts are presented on **Figures 12** and **13**.

4.3.2.1 Upgradient Area (Brightwaters Yard)

Shallow groundwater concentrations in the Brightwaters Yard have decreased significantly since completion of source area excavations and have generally continued to decrease. Intermediate groundwater concentrations, while significantly lower than those historically observed in the shallow zone, increased following the source area excavations. The intermediate zone concentrations have been decreasing in recent sampling events. The graph presented below illustrates the decreases evident in the area in recent sampling events and highlights the periods of remedial activity in the area.

Average Shallow and Intermediate BTEX Concentrations - Brightwaters Yard



The maximum BTEX concentrations in shallow groundwater in the Brightwaters Yard prior to excavation ranged from greater than 100,000 µg/L in 2004, to 46,000 µg/L in 2009 immediately prior to excavation. The highest BTEX and PAH concentrations in Q2 2014 were detected in OU3MW-08S with detections of 1,003 µg/L and 247 µg/L, respectively. This well is located on the southwest portion of the site, west of the main source excavation area. A spot excavation was performed to remove the limited impacts in this area during the 2010 excavation IRM. The BTEX concentrations in this well, along with OU3MW-16S also located in the area, continue to fluctuate but are generally decreasing. BTEX and PAHs concentrations in the remaining shallow groundwater monitoring wells in the Brightwaters Yard in Q2 2014 were at, or near detection levels.

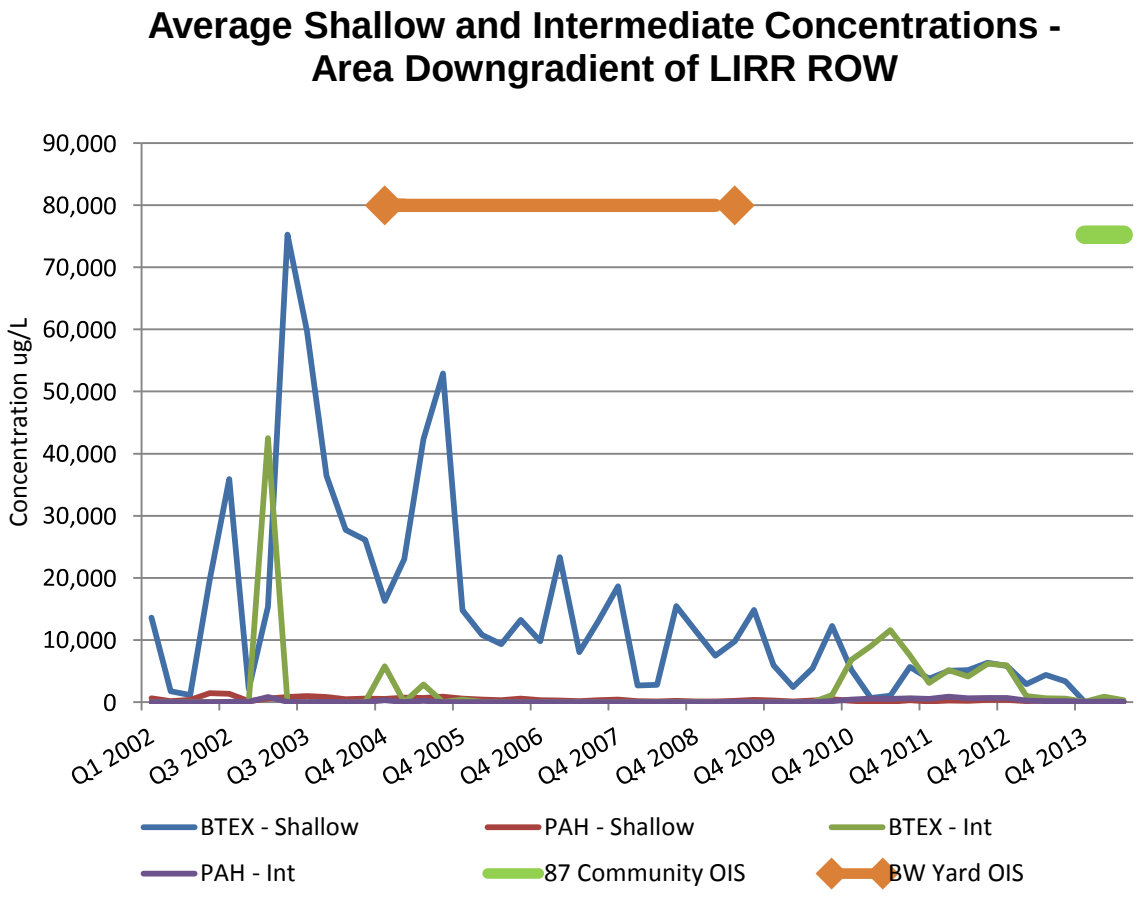
As shown in the graph above, no significant BTEX or PAH impacts were detected in intermediate groundwater in the Brightwaters Yard prior to the source area excavation in Q4 2010. In Q2 2014 elevated concentrations (above 100 µg/L) of BTEX are present in two intermediate wells, OU3MW-09I (346 µg/L) and OU3MW-10I (642 µg/L), located immediately upgradient of the LIRR excavations. BTEX concentrations in monitoring well OU3MW-09I have decreased significantly since the initial concentrations detected immediately following source area excavation (from 38,700 µg/L in Q4 2010) and have been somewhat variable but generally decreasing in recent sampling events. Concentrations in OU3MW-10I have been variable in recent sampling events. BTEX and total PAHs in the deeper intermediate well OU3MW-09I2, screened from 35 to 40 feet bgs, have remained below 100 µg/L. Concentrations of total PAHs in these wells have followed similar trends.

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

In comparison to the Baseline Q1 2009 plume, the area of BTEX impacts in the Brightwaters Yard is slightly smaller during Q2 2014, but the magnitude of impacts is significantly less. The location of the remaining impacts is adjacent to the spot excavation performed in 2010, west of the main source area excavation. In comparison to Q1 2009, maximum and average concentrations in the Brightwaters Yard have decreased by two orders of magnitude. Intermediate zone BTEX impacts have increased relative to Q1 2009, when no impacts were detected in the area. Total PAH impacts have followed similar patterns to those described above for BTEX.

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

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

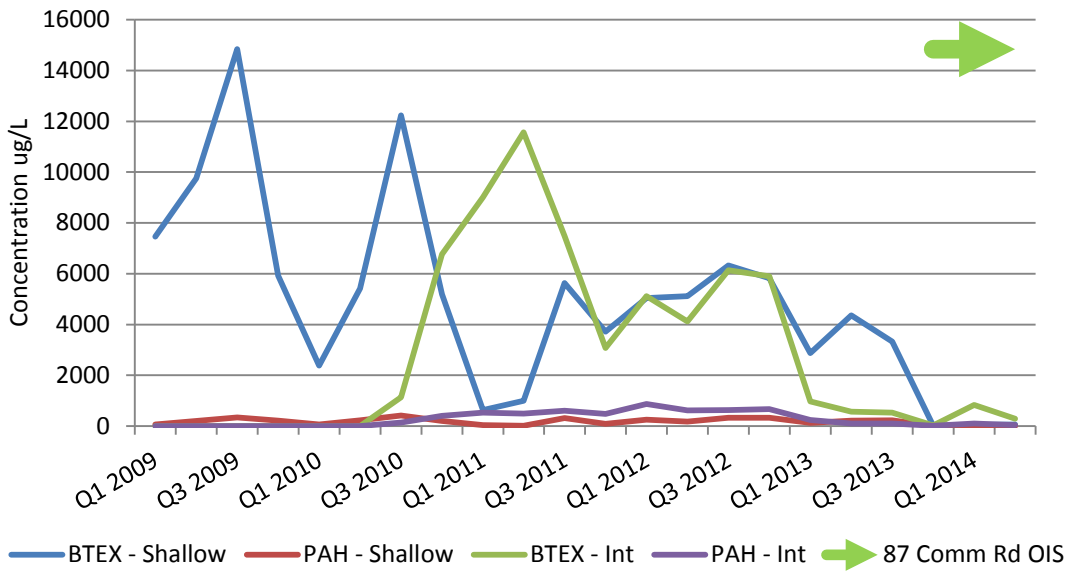


Historically, average shallow BTEX concentrations in the area have been as high as approximately 75,000 µg/L and were over 12,000 µg/L during Q3 2010 following the completion of the upgradient excavations. Following the start-up of the oxygen injection system in the area in Q4 2013, average shallow BTEX concentrations decreased by two orders of magnitude, from over 3,000 µg/L to 20 µg/L. As an example of the significant recent decreases, monitoring well OU3MW-14S, which had decreased from approximately 34,000 µg/L in its initial sampling event

(Q3 2011) to approximately 18,000 µg/L during Q3 2013, decreased to 14 µg/L after the start-up of the 87 Community Road oxygen injection system (Q4 2013) and was non-detect during Q2 2014. Lesser reductions were noted for shallow PAHs, as well as for BTEX and PAHs in the intermediate zone (as discussed below), where the pre-system operation concentrations were not nearly as high.

Intermediate zone average BTEX concentrations, which were largely non-detect in sampling events conducted prior to the excavation activity, peaked at over 11,000 µg/L during Q2 2011. Following an initial decrease after system installation during Q4 2013, intermediate concentrations rebounded during Q1 2013, but began to decrease again during Q2 2014. The graph below presents average concentrations in the area since Q1 2009, better illustrating the significant decreases evident since the system installation.

Recent Average Concentrations - 83 and 87 Community Road Properties



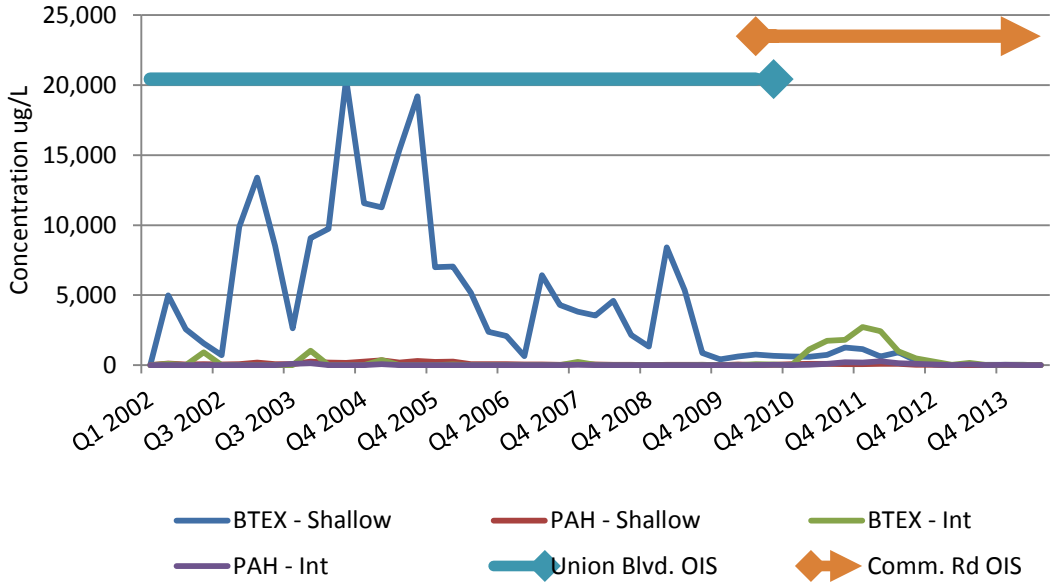
Monitoring well clusters OU3MW-19 and OU3MW-20, which are located near the downgradient edge of the 87 Community Road property, were not included in the graphs and the discussion above. Elevated concentrations in these wells, which were initially sampled during Q3 2013, were primarily identified in the shallow zone at OU3MW-19S, but were also identified in the intermediate zone at each cluster. The intermediate zone concentrations identified during the initial sampling events have decreased and are now at, or near detection levels. Elevated concentrations of BTEX and total PAHs remain at OU3MW-19S; however, decreases have been evident in recent sampling events. Further decreases are anticipated as the dissolved oxygen front from the recently installed system on the 87 Community Road property continues to migrate downgradient to the area of these wells.

In comparison to Q1 2009, shallow impacts in the area have been significantly reduced in size and magnitude. Intermediate zone impacts have increased relative to Q1 2009, when no impacts were present in the area.

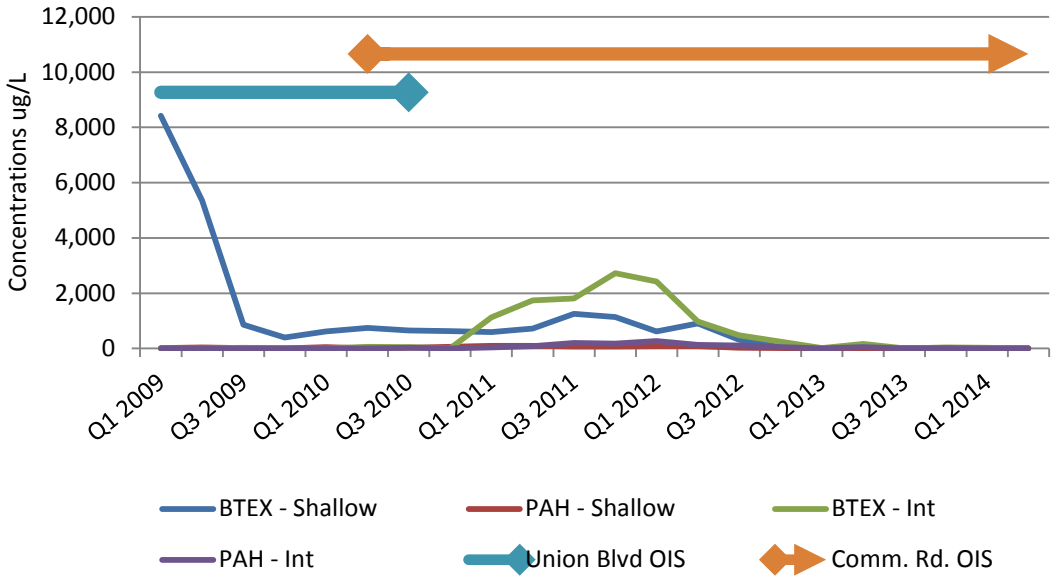
4.3.2.3 Downgradient Area

In the downgradient area, south of the Community Road oxygen injection system, significant reductions in the shallow and intermediate zone are evident as shown on the graphs below. During Q2 2014, no impacts were present above 100 µg/L in the downgradient area. The first graph illustrates decreases in concentrations from 2004 through Q1 2010 followed by increasing BTEX and PAH concentrations roughly coincident with relocation of the Union Boulevard oxygen injection system and following abandonment of the Brightwaters Yard oxygen injection system and source area excavation in late 2010. These concentrations have decreased significantly in shallow and intermediate wells in recent sampling events and no impacts were present in the area during Q2 2014.

Downgradient - Average Shallow and Intermediate GW Concentrations



Downgradient - Recent Average GW Concentrations



Elevated detections (above 100 µg/L) were limited in both the shallow and intermediate zone during the past year. Concentrations in the shallow zone above 100 µg/L in wells south of the Community Road oxygen injection line during the past year were limited to one detection of BTEX in Q4 2013. Intermediate zone detections above 100 µg/L were limited to four wells, OU3MW-03I (which exceeded 100 µg/L for BTEX through to Q1 2014, and total PAHs during Q4 2013), MW-34I (which exceeded 100 µg/L for BTEX during Q1 2014), OU3MW-05I and OU3MW-18I (which exceeded 100 µg/L for BTEX in Q2 and Q3 2013).

In Q1 2009, downgradient impacts were limited to BTEX in the shallow zone. As discussed above, these impacts were not present in the area during Q2 2014.

The recent decreases in the area are likely directly attributable to the optimization of the Community Road oxygen injection system in March 2012, as well as the targeted Oxygen Release Compound – Advanced (ORC-A) injection program conducted during Q2 and Q3 2013. Although there were no detections in either the shallow or intermediate zone above 100 µg/L during Q2 2014, concentrations in the area remain somewhat variable. Additional remedial measures, including the injection of additional ORC-A, will be considered for the area as necessary.

Changes to the groundwater concentrations for BTEX and total PAH described above are further supported in additional graphical presentations. Time series plots displaying the

graphical analytical results for wells located downgradient of the oxygen injection systems are provided on **Figures 4 & 5**.

4.4 Operable Unit 4

The injection phase of the OU-4 Cesspool Area S-ISCO IRM was initiated in Q2 2009 (April 30, 2009) and was completed in Q4 2009 (December 3, 2009). Therefore, a comparison between the Q1 2009 and Q2 2014 data provides a useful evaluation of the effectiveness of this remedy to date. Several wells in OU-4 (WCMW-11S, I, and D, WCMW-17S, I, and I2, and WCMW-18WT, S, I and I2) were not sampled in Q1 2009, but were sampled in April 2009, prior to the initiation of S-ISCO injection. For these wells, the April 2009 pre-S-ISCO data was used in the development of the Baseline Q1 2009 iso-concentration maps. In advance of, and during the OU-4 excavation IRM, which was initiated in early Q2 2011, numerous wells were abandoned. As a result, many of the wells sampled in the Baseline Q1 2009 event were not sampled in Q2 2014. The monitoring well network was re-evaluated upon the completion of the remedial work, with the re-installation and sampling of several monitoring wells conducted in Q1 2012. A summary of the remedial efforts for OU-4 is provided in Sections 1 and 2 of this report.

4.4.1 BTEX and Total PAH Composite Plume

In comparison to the OU-4 composite Baseline Q1 2009 Plume, which was indicative of conditions prior to S-ISCO injection, the OU-4 composite Q2 2014 plume depiction is slightly larger in size (**Figure 1**). In Q1 2009, the area of impacted groundwater was limited to the south-central portion of the Cesspool Area, while in Q2 2014, groundwater impacts also extend to the upgradient Cesspool Area, due to the installation of monitoring wells in this area.

The Q2 2014 composite area of impacts is smaller than the impacts depicted a year ago (Q2 2013), when they extended downgradient to the Pond Area.

4.4.2 Current Plume Description and Comparisons

As depicted on **Figures 10, 12** and **13**, there were no detections of BTEX above 100 µg/L in OU-4 during Q1 2009 or Q2 2014. As a result of the limited detections of BTEX, the evaluation of groundwater quality for OU-4 will focus on PAHs as the primary COCs for OU-4. **Figures 11** and **13** illustrate that concentrations of PAHs above 100 µg/L are present in the shallow and intermediate groundwater zones. No PAHs above 100 µg/L were detected in the deep groundwater zone (**Figure 15**). A comparison of total PAH groundwater concentrations in the shallow and intermediate zones between Q1 2009 (pre-S-ISCO), Q3 2011 (post-excavation) and Q2 2014 are provided below along with data from recent sampling events (**Table 4g**). The BTEX and total PAH concentrations detected in each of the wells through Q2 2014 are presented in **Table 4-14** and **Table 4-15**. The complete analytical results for Q3 2013 through Q2 2014 are presented in **Table 4-16**. The monitoring well locations are shown on **Figure 1**.

Table 4g – Summary of Total PAH Concentrations in OU-4

Depth Zone	Total PAH Concentrations (µg/L)											
	Maximum						Average					
	Baseline Q1 2009	Q3 2011*	2013		2014		Baseline Q1 2009	Q3 2011*	2013		2014	
			Q3	Q4	Q1	Q2			Q3	Q4	Q1	Q2
Shallow	243	1,773	1,746	2,172	1,756	1,952	29	334	281	525	381	184
Shallow**	243	1,258	406	2,081	748	335	29	191	98	319	209	57
Intermediate	170	778	663	606	295	307	19	134	182	204	119	36

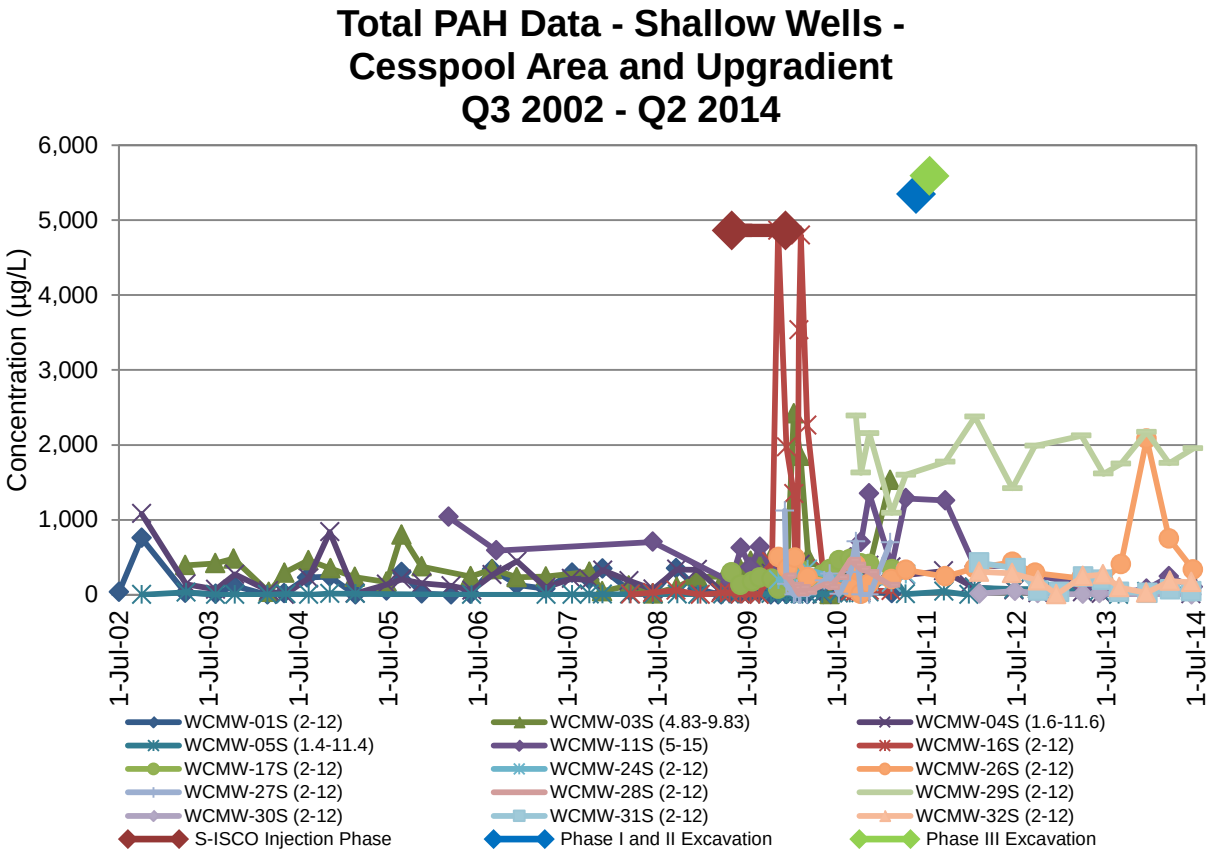
Note:
*: Completion of excavation activity
**: Excluding WCMW-29S, which was installed outside the excavation area in Q3 2010

As depicted on **Figure 11,** the area of total PAH concentrations greater than 100 µg/L in water table wells in Q2 2014 begins in the area upgradient of the Cesspool Area and extends to the downgradient edge of the Cesspool Area. Comparison of the total PAH distribution in water table wells in Q1 2009 to Q2 2014 is difficult because of the different wells sampled in each of the sampling rounds (total of 14 wells sampled in Q1 2009 and 16 in Q2 2013, but only seven in common). The data shown in **Table 4g,** indicate total PAH concentrations in water table wells have increased since Baseline Q1 2009; however, the increases are related to a limited area being largely due to the concentrations in one well, WCMW-29S. WCMW-29S was installed after S-ISCO injection was complete and is located beneath the garage currently located on the 22 Oak Street property, outside of the excavation area. The PAH concentration in this well has fluctuated between approximately 2,400 µg/L and 1,100 µg/L. During the past year the distribution of impacts in the shallow zone has remained similar. Impacts were noted in downgradient well WCMW-13S during several sampling events throughout the past year, but were not present during Q2 2014.

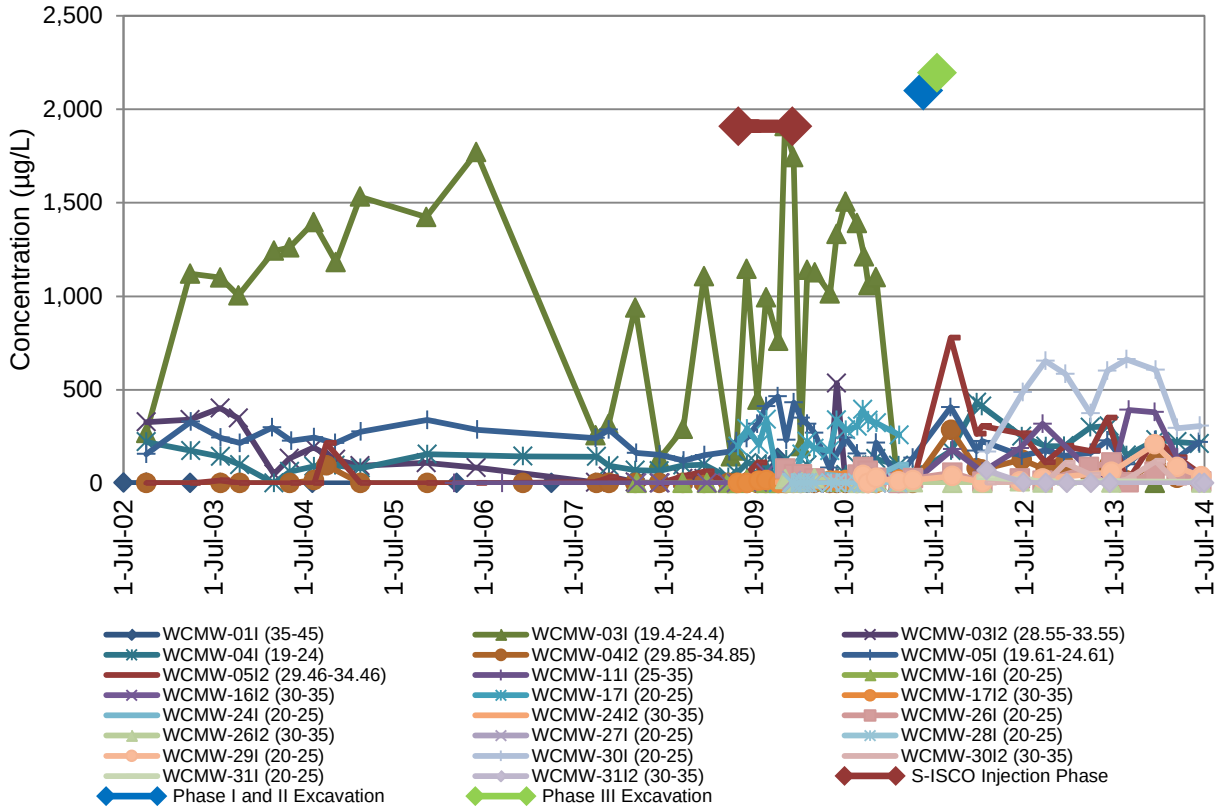
Figure 13 illustrates the total PAH concentrations greater than 100 µg/L present in intermediate zone wells in Q1 2009 and Q2 2014. Relative to the Baseline Q1 2009 sampling event, increases in total PAH concentrations in wells in the intermediate zone were identified in Q2 2014 (**Table 4g**); however, concentrations have decreased slightly since the completion of excavation (Q3 2011). Total PAH impacts in the intermediate zone in Q2 2014 are present in the Cesspool Area north of the LIRR, roughly the same area as in Q1 2009. However, in Q2 2014 the intermediate PAH impacts are larger in extent. The extent of intermediate zone PAH impacts in groundwater in Q2 2014 have decreased during the past year and are no longer present in the Pond Area.

Recent total PAH concentrations in shallow and intermediate groundwater wells in the Cesspool Area and upgradient area are provided on the time series graphs below. The time series graphs generally illustrate an increase in PAH concentrations during S-ISCO application followed by a decrease in PAH impacts after excavation was complete. The exceptions to the trend are shallow groundwater monitoring well WCMW-29S (as discussed above) and WCMW-30I. Concentrations in WCMW-26S (shown in orange), which is also located outside of the excavated area, peaked in Q1 2014, before decreasing to near average levels during Q2 2014. Concentrations in WCMW-30I, which is located on the edge of the excavation area

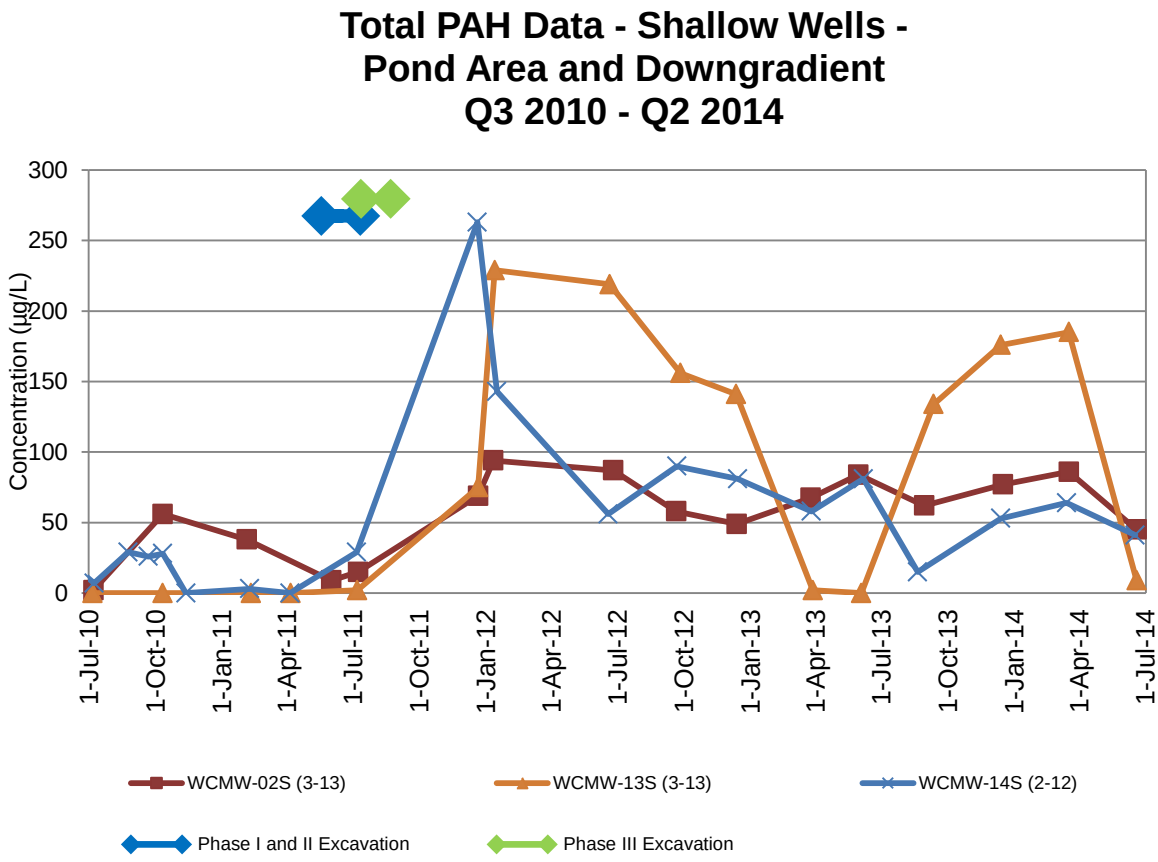
and is screened beneath the excavation zone, have generally increased since Q1 2012, but have been varied.

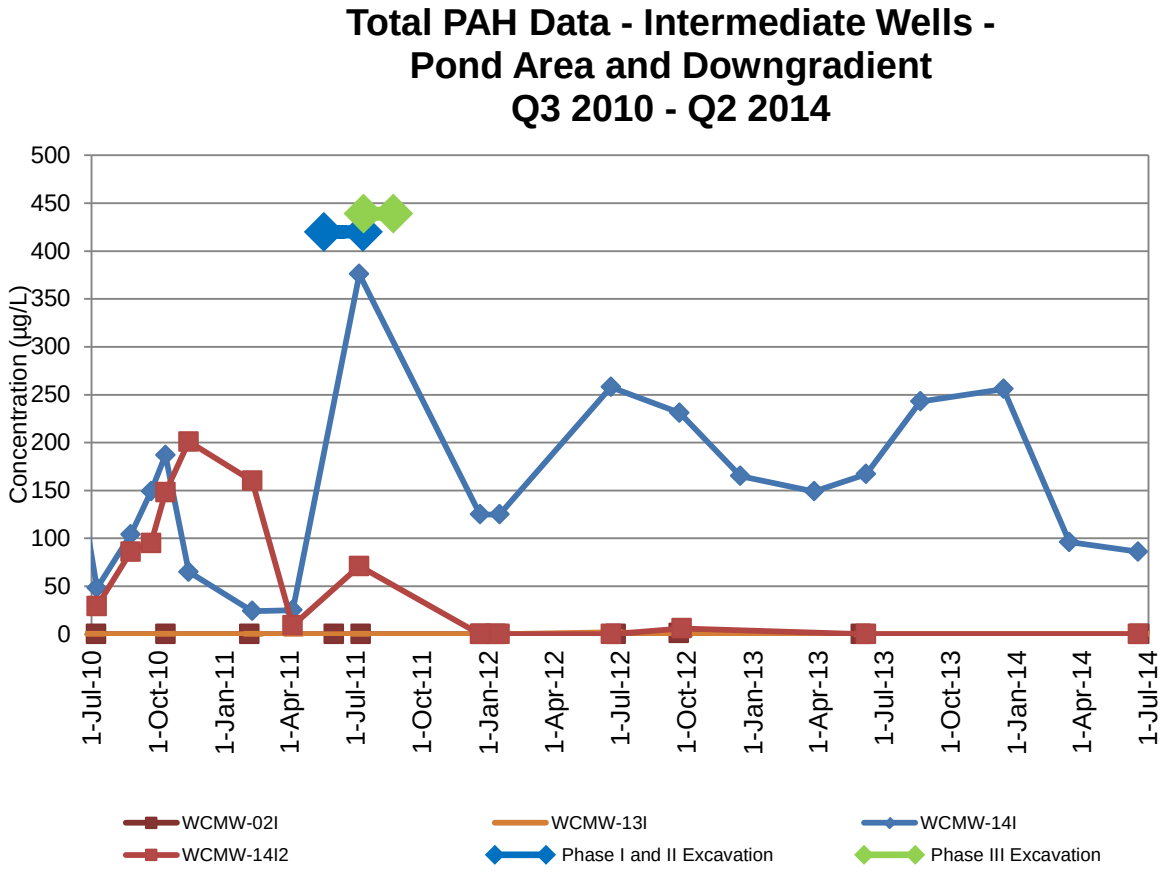


**Total PAH Data - Intermediate Wells -
Cesspool Area and Upgradient
Q3 2002 - Q2 2014**



Total PAH concentrations in shallow and intermediate groundwater in the Pond Area and downgradient generally increased following S-ISCO application and excavation. These decreases were generally followed by decreases in concentrations in most wells as shown on the graphs below. The total PAH concentrations in Q2 2014 were below 100 µg/L in all wells in the Pond Area and downgradient. Concentrations in monitoring well WCMW-14I, located on the upgradient portion of the Pond Area, south of the LIRR have generally been above 100 µg/L in recent sampling events.


Total PAH Data - Shallow Wells -
Pond Area and Downgradient
Q3 2010 - Q2 2014
Concentration (µg/L)
300
250
200
150
100
50
0
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
1-Jul-12
1-Oct-12
1-Jan-13
1-Apr-13
1-Jul-13
1-Oct-13
1-Jan-14
1-Apr-14
1-Jul-14
WCMW-02S (3-13)
WCMW-13S (3-13)
WCMW-14S (2-12)
Phase I and II Excavation
Phase III Excavation



Groundwater data from monitoring wells with BTEX or PAH impacts greater than 100 µg/L during any sampling event were included on the OU-4 time series graphs provided above.

4.5 Analysis of Sulfate Concentrations

At the request of the NYSDEC, National Grid has been monitoring sulfate concentrations within OU-1, OU-2, and OU-4 in monitoring wells upgradient and downgradient of former ISCO IRM areas. Sampling for additional sulfate analysis began in Q2 2010 and was scheduled to continue for a period of one year, ending in Q1 2011. The purpose of the sulfate sampling program was to establish baseline sulfate concentrations in groundwater and to identify any potential trends associated with remedial activities conducted at the site. The results of this investigation were originally presented in the Q1 2011 GM and OM&M Report. This initial investigation concluded that elevated sulfate concentrations in select monitoring wells exceed the NYS AWQS criteria for GA groundwater. Based on these results, sulfate sampling has continued at monitoring wells that exceed the NYS AWQS criteria for GA groundwater, as well as downgradient monitoring wells. Following the approved reductions to the long term groundwater monitoring program, the frequency of sulfate sampling was reduced to annual. A discussion of the analytical results is presented below. This data is presented in **Appendix H**.

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

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

4.5.1.1 Background Sulfate Concentrations

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

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

Historically, sulfate concentrations have been observed above the background concentration range at multiple wells within OU-1 and OU-2. A majority of the concentrations at these wells do not exceed the NYS AWQS of 250,000 µg/L. Sulfate concentrations are depicted graphically for monitoring wells with concentrations of sulfate greater than the NYS AWQS value of 250,000 µg/L in **Appendix H, Graph H-2** for OU-1 monitoring wells and **Graph H-3** for OU-2 monitoring wells.

Since sampling began in 2007, samples from 21 monitoring wells have exceeded the NYS AWQS criteria for GA groundwater; nine monitoring wells in OU-1 (BBMW-05D, BBMW-06D, BBMW-18D, BBMW-19D, BBMW-22D, OZMW-17D, OZMW-18D, OZMW-23D, and OZMW-24D) and 12 monitoring wells in OU-2 (BBMW-24D, OU2MW-19D, OU2MW-24D, OU2MW-27D, OU2MW-30D2, OU2MW-35D, OU2MW-36D, OU2MW-37D, OU2MW-39D, OU2MW-42D, OU2MW-43I, and OU2MW-43D). Concentrations at these monitoring wells have ranged from 11,700 µg/L to 2,470,000 µg/L in OU-1 and between non-detect and 841,000 µg/L in OU-2.

Twenty of the 21 monitoring wells are screened to below 60 feet bgs in the deep zone. These monitoring wells are located within or downgradient of the former ISCO pilot test injection areas. The persulfate solutions injected during the pilot test were denser than water and therefore, traveled vertically downward after injection. The density of the persulfate solution was modified during the pilot testing to attempt to reduce the vertical migration and increase the lateral migration of the injected persulfate. Monitoring wells with elevated sulfate concentrations are generally located within or downgradient of the In Situ Chemical Oxygen ISCO injection pilot test area.

Three wells in OU-1 were sampled for sulfate during the past year (Q3 2013 through Q2 2014). Of the three wells only one well, OZMW-24D, exceeds the NYS AWQS of 250,000 µg/L. Thirty six monitoring wells in OU-2 were sampled for sulfate in during the past year. Of the 69 wells,

four wells (BBMW-24D, OU2MW-30D2, OU2MW-42D, and OU2MW-43D) exceeded the NYS AWQS of 250,000 µg/L.

Graphical trends observed in **Graphs H-2** and **H-3** of **Appendix H** indicates that concentrations are declining in the wells located in OU-1 and the majority of wells in OU-2. The only increasing trend still apparent is in monitoring well OU2MW-30D2. The data indicates that sulfate is still present in the deep aquifer and may be migrating downgradient.

4.5.2 OU-4 Sulfate Concentrations

The injection phase of the OU-4 S-ISCO IRM was conducted from Q2 2009 through Q4 2009. The wells selected for sulfate analysis in Q2 2013 included wells within and immediately downgradient of the S-ISCO treatment area (WCMW-05S, 05I, 05I2; WCMW-11S, 11I, 11D; and WCMW-25I and 25D). The above wells specified for quarterly sampling in Q2 2013 differ from the wells sampled in Q2 2011 due to the abandonment of monitoring wells WCMW-01S, 01I, 01D; WCMW-03S, 03I, 03D; WCMW-16S, 16I, 16I2; WCMW-17S, 17I, and 17I2 to support the excavation IRM. The majority of the additional wells within and immediately downgradient of the S-ISCO treatment area were also sampled for sulfate once in Q2 2010. This data is provided in the table in **Appendix H** and in **Graphs H-4** through **H-6**. The well locations are provided on **Figure 1**.

4.5.2.1 Background Sulfate Concentrations

Background sulfate concentrations for OU-4 were determined based on sulfate concentrations within monitoring wells located upgradient of the S-ISCO treatment area (WCMW-19S, 19, and 19I2). The background sulfate concentrations ranged from approximately 11,000 µg/L to 40,000 µg/L. These concentrations are similar to the background concentrations observed for OU-1 and OU-2. The OU-4 sulfate background wells were sampled quarterly for sulfate from Q2 2010 through Q2 2011. The OU-4 background concentrations are depicted on **Graph H-4** of **Appendix H**. The monitoring well locations are shown on **Figure 1**.

4.5.2.2 Sulfate Concentrations Within and Immediately Downgradient of the S-ISCO Treatment Area

Sulfate concentrations are depicted graphically for monitoring wells within and immediately downgradient of the S-ISCO treatment area in **Appendix H, Graph H-5**. Historically, 10 monitoring wells had sulfate concentrations greater than the NYS AWQS value of 250,000 µg/L (WCMW-01S, WCMW-01D, WCMW-03S, WCMW-04S, WCMW-05S, WCMW-14D, WCMW-17S, WCMW-17I, WCMW-25I, and WCMW-25D). Five of these wells (WCMW-01S, WCMW-01D, WCMW-03S, WCMW-17S, and WCMW-17I) were decommissioned in support of the remedial excavation and were not sampled in Q2 2013. Sulfate sampling was discontinued at WCMW-04S and WCMW-14D following numerous detections below the NYS AWQS criteria. During the past year, sulfate sampling in OU-4 was limited to Q3 2013, at which time seven monitoring wells were sampled. There were no sulfate concentrations in exceedances of the NYS AWQS criteria for GA groundwater detected in OU-4 during the most recent sampling event.

4.5.2.3 Sulfate Concentrations Greater than 200 Feet Downgradient of the S-ISCO Treatment Area

Historical sulfate concentrations are depicted graphically for monitoring wells greater than 200 feet downgradient of the S-ISCO treatment area in **Appendix H, Graph H-6**. Historically, the only sulfate exceedances detected greater than 200 feet downgradient of the S-ISCO treatment area were in WCMW-02I in Q4 2010. The sulfate concentrations were below the NYS AWQS value of 250,000 µg/L in Q1, Q2, and Q3 2011, after which sulfate sampling was discontinued in the area.

5. Future Plans

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

5.1 Remedial Systems

5.1.1 NAPL Gauging & Recovery

- The frequency of NAPL gauging will remain on a quarterly schedule, as approved by the NYSDEC. The majority of the NAPL measured has been DNAPL. LNAPL observations have been limited to monitoring wells BBMW-34I, OZMW-21S, and OZMW-25I.
- The DNAPL recovery system operational schedule was changed in Q2 2011 so that DNAPL recovery was conducted once every four weeks. The increase in time between pumping events has allowed more DNAPL to enter the recovery well, increasing the amount of DNAPL recovered during each pumping event, and minimizing excess water purged during the recovery event. DNAPL will continue to be recovered once every four weeks.

5.1.2 Ozone Groundwater Treatment System

- Continue bi-weekly and monthly inspections.
- Continue monthly sampling of groundwater, soil vapor, and the SVE effluent.
- Continue monthly soil vapor and ambient air sampling at locations within OU-1 to monitor for potential influence to soil vapor from the ozone injection system.
- Conduct manufacturer recommended maintenance on the system components.

5.1.3 Current Oxygen Injection Systems

- Upgrade OU-3 87 Community Road system to include injection wells in the LIRR ROW, currently planned for Q4 2014.
- Continue monthly system inspections and groundwater parameter monitoring.
- Continue quarterly groundwater monitoring.
- Continue weekly system inspections.
- Conduct manufacturer recommended maintenance on the systems.

- Evaluate groundwater data in vicinity of treatment systems and optimize systems, as appropriate.

5.2 Groundwater Monitoring

5.2.1 Operable Unit 1 and Operable Unit 2

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

5.2.2 Operable Unit 3

- The groundwater monitoring network will continue to be monitored quarterly to monitor the effects of the recent remedial activity. Monthly monitoring is currently being performed in select wells downgradient of Union Boulevard to track historical fluctuation in that area.

5.2.3 Operable Unit 4

- Continue quarterly monitoring.

5.2.4 Sitewide

- Continue quarterly gauging and sampling of the groundwater monitoring well network in accordance with the approved long-term monitoring program.
- Continue to sample for sulfate at and downgradient of monitoring wells that exceed the NYS AWQS criteria for class GA groundwater.

5.3 Remedial Activity

5.3.1 Operable Unit 1

- The southern treatment line of the 60/66 North Clinton Avenue oxygen injection system will be deactivated and removed. The southern, downgradient line was replaced by a new treatment line on the northern, upgradient property boundary. Additional injection wells were also installed within the western edge of barrier wall as part of this task. The southern line remained active to ensure no gaps in groundwater treatment.

5.3.2 Operable Unit 2

- None

5.3.3 Operable Unit 3

- Due to elevated groundwater concentrations within the sheeting left in place for the LIRR excavation, the 87 Community Road oxygen injection system will be modified and additional injection wells will be installed within the sheeting to address these impacts. This work is planned for Q4 2014.

- An additional round of ORC-Advanced injections is planned for Lanier Lane in OU-3. The first and second rounds of injections were conducted in March and August 2013, respectively.

5.3.4 Operable Unit 4

- None

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Tables (compact disk only)

Tables also available at www.bayshoreworksmgp.com

Table 2-1. Soil Vapor Analytical Results
Bay Shore/Brightwaters Former MGP Site
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		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZSV-01	OZSV-01	OZSV-01	OZSV-01	OZSV-01	OZSV-01	OZSV-01	OZSV-01	OZSV-01	OZSV-01	OZSV-01	OZSV-01	OZSV-01	OZSV-02	OZDUP-25
		Sample Date	7/30/2013	8/21/2013	9/29/2013	10/29/2013	11/26/2013	12/28/2013	1/20/2014	2/28/2014	3/24/2014	4/24/2014	5/19/2014	6/25/2014	7/30/2013	7/30/2013
Analyte	Units	NYSDOH Background Outdoor Air 95th Percentile[1]															
BTEX																	
Benzene	µg/m³	5.8	**0.335 J**	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 UJ	0.639 U	0.639 U	0.639 UJ	0.639 U
Toluene	µg/m³	21	**0.445 J**	0.754 U	0.754 U	0.754 U	**0.494 J**	0.754 U	0.754 U	**0.313 J**	0.754 U	0.754 UJ	**2.42**	0.754 U	**0.294 J**	**0.264 J**
Ethylbenzene	µg/m³	1.9	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 UJ	0.869 U	0.869 U	0.869 UJ	0.869 U
o-Xylene	µg/m³	2.5	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	**0.53 J**	0.869 U	0.869 U	0.869 UJ	0.869 U
m/p-Xylene	µg/m³	3.1	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**1.22 J**	1.74 U	1.74 U	1.74 UJ	1.74 U
Other VOCs																	
Acetaldehyde	µg/m³	NE	**6.04**	**6.74**	**5.71**	**2.38 J**	**1.09 J**	**2.2 J**	4.5 UJ	**1.42 J**	**2.09 J**	**2.54 J**	**2.77 J**	**4.95**	**18.9 J**	**13.3 J**
Acetone	µg/m³	58	**3.52**	**5.42**	**6.06**	**2.27 J**	**1.43 J**	**1.63 J**	**1.16 J**	**0.732 J**	**22.7**	2.38 UJ	**4.37**	**3.61**	**5.56 J**	**7.08**
Acrolein (propenal)	µg/m³	NE	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 UJ	1.15 U	1.15 U	**0.534 J**	**0.5 J**
Allyl chloride (3-Chloropropene)	µg/m³	NE	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 UJ	0.626 U	0.626 U	0.626 UJ	0.626 U
Benzothiophene (1-Benzothiophene)	µg/m³	NE	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 UJ	2.74 U	2.74 U	2.74 UJ	2.74 U
Bromodichloromethane	µg/m³	NE	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 UJ	1.34 U	1.34 U	1.34 UJ	1.34 U
Bromoform	µg/m³	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 UJ	2.07 U	2.07 U	2.07 UJ	2.07 U
Bromomethane	µg/m³	0.9	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 UJ	0.777 U	0.777 U	0.777 UJ	0.777 U
1,3-Butadiene	µg/m³	NE	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 UJ	0.442 U	0.442 U	0.442 UJ	0.442 U
Butane	µg/m³	NE	0.475 U	**0.395 J**	**0.119 J**	0.475 U	**0.746**	**0.466 J**	0.475 U	**0.644**	**0.532**	0.475 UJ	**0.155 J**	0.475 U	0.475 UJ	**0.138 J**
t-Butyl alcohol (Tertiary Butyl Alcohol)	µg/m³	NE	0.606 U	**0.233 J**	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	**1.3**	0.606 UJ	**0.321 J**	0.606 U	**0.282 J**	**0.303 J**
Carbon disulfide	µg/m³	NE	**0.635**	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 UJ	0.623 U	0.623 U	**0.324 J**	**0.458 J**
Carbon tetrachloride	µg/m³	1	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 UJ	1.26 U	1.26 U	1.26 UJ	1.26 U
Chlorobenzene	µg/m³	0.25	**0.553 J**	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 UJ	0.921 U	0.921 U	0.921 UJ	0.921 U
Chloroethane	µg/m³	0.4	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 UJ	0.528 U	0.528 U	0.528 UJ	0.528 U
Chloroform	µg/m³	0.5	**2.6**	**2.79**	**1.8**	**1.38**	**0.689 J**	**0.405 J**	**0.322 J**	**0.322 J**	**0.43 J**	**0.889 J**	**1.85**	**5.57**	**2.9 J**	**3.06**
Chloromethane	µg/m³	4.6	0.413 U	0.413 U	0.413 U	**0.31 J**	0.413 U	0.413 U	0.413 U	0.413 U	0.413 U	0.413 UJ	**0.254 J**	**0.417**	**0.328 J**	0.413 U
2-Chlorotoluene (o-Chlorotoluene)	µg/m³	NE	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 UJ	1.04 U	1.04 U	1.04 UJ	1.04 U
Cryofluorane (Freon 114)	µg/m³	1.3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 UJ	1.4 U	1.4 U	1.4 UJ	1.4 U
Cyclohexane	µg/m³	3	**1.25**	**6.02**	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 UJ	0.688 U	0.688 U	**1.12 J**	**1.2**
n-Decane	µg/m³	3.6	1.16 U	1.16 U	**6.98**	1.16 U	**11.5**	**3.14**	**0.431 J**	**16.8**	**42.8**	**0.512 J**	**4.9**	**1.82**	1.16 UJ	1.16 U
Dibromochloromethane	µg/m³	NE	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ	1.7 U	1.7 U	1.7 UJ	1.7 U
1,2-Dibromoethane (EDB)	µg/m³	0.25	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 UJ	1.54 U	1.54 U	1.54 UJ	1.54 U
1,2-Dichlorobenzene	µg/m³	0.9	**1.23**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 U	1.2 U	**0.685 J**	1.2 U
1,3-Dichlorobenzene	µg/m³	0.7	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 UJ	1.2 U
1,4-Dichlorobenzene	µg/m³	0.8	**0.487 J**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 UJ	1.2 U
Dichlorodifluoromethane (Freon 12)	µg/m³	11	**1.72**	**1.22**	**1.79**	**2.38**	**2.15**	**1.31**	**1.86 J**	**1.39 J**	**2.3**	**1.34 J**	**1.05**	**1.04 J**	**1.26 J**	**1.18**
1,1-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 UJ	0.809 U	0.809 U	0.809 UJ	0.809 U
1,2-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 UJ	0.809 U	0.809 U	0.809 UJ	0.809 U
1,1-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 UJ	0.793 U	0.793 U	0.793 UJ	0.793 U
cis-1,2-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 UJ	0.793 U	0.793 U	0.793 UJ	0.793 U
trans-1,2-Dichloroethene	µg/m³	NE	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 UJ	0.793 U	0.793 U	0.793 UJ	0.793 U
1,2-Dichloropropane	µg/m³	0.25	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 UJ	0.924 U	0.924 U	0.924 UJ	0.924 U
cis-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 UJ	0.908 U	0.908 U	0.908 UJ	0.908 U
trans-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 UJ	0.908 U	0.908 U	0.908 UJ	0.908 U
1,4-Dioxane	µg/m³	NE	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 UJ	0.721 U	0.721 U	0.721 UJ	0.721 U
n-Dodecane	µg/m³	7.6	**2.21**	**0.975 J**	**20.3**	**1.04 J**	**1.46**	**5.41**	**0.62 J**	**2.03 J**	**281**	**2 J**	**3.09 J**	**7.38 J**	**1.09 J**	**2.86 J**
Ethanol	µg/m³	220	1.88 U	**1.44 J**	1.88 U	1.88 U	1.88 U	1.88 U	1.88 U	1.88 U	**14.8**	**2.9 J**	**1.25 J**	1.88 U	**1.44 J**	**3.47 J**
2-Ethylthiophene	µg/m³	NE	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 UJ	0.918 U	0.918 U	0.918 UJ	0.918 U
4-Ethyltoluene (p-Ethyltoluene)	µg/m³	NE	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	**1.44**	0.983 UJ	0.983 U	0.983 U	0.983 UJ	0.983 U

Table 2-1. Soil Vapor Analytical Results
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Analyte	Units	NYSDOH Background Outdoor Air 95th Percentile[1]	Operable Unit / Sample Name / Sample Date													
			OU1 OZSV-01 7/30/2013	OU1 OZSV-01 8/21/2013	OU1 OZSV-01 9/29/2013	OU1 OZSV-01 10/29/2013	OU1 OZSV-01 11/26/2013	OU1 OZSV-01 12/28/2013	OU1 OZSV-01 1/20/2014	OU1 OZSV-01 2/28/2014	OU1 OZSV-01 3/24/2014	OU1 OZSV-01 4/24/2014	OU1 OZSV-01 5/19/2014	OU1 OZSV-01 6/25/2014	OU1 OZSV-02 7/30/2013	OU1 OZDUP-25 7/30/2013
BTEX																
Benzene	µg/m³	5.8	**0.335 J**	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 UJ	0.639 U	0.639 U	0.639 UJ	0.639 U
n-Heptane	µg/m³	5.1	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 UJ	0.82 U	0.82 U	0.82 UJ	0.82 U
Hexachlorobutadiene (C-46)	µg/m³	7	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 UJ	2.13 U	2.13 U	2.13 UJ	2.13 U
n-Hexane	µg/m³	3.6	0.705 U	**0.476 J**	0.705 U	0.705 U	**0.892**	0.705 U	0.705 U	**0.233 J**	**0.222 J**	0.705 UJ	**0.233 J**	0.705 U	**0.194 J**	**0.219 J**
2-Hexanone	µg/m³	NE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 UJ	0.82 U	0.82 U	**0.938 J**	0.82 U
Indane	µg/m³	NE	0.967 U	0.967 U	0.967 UJ	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	**0.599 J**	0.967 UJ	0.967 U	0.967 U	0.967 UJ	0.967 U
Indene	µg/m³	NE	0.951 U	0.951 U	0.951 UJ	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 UJ	0.951 U	0.951 U	0.951 UJ	0.951 U
Methyl ethyl ketone (2-Butanone)	µg/m³	17	**0.59**	**0.572 J**	**0.448 J**	0.59 U	0.59 U	**0.316 J**	0.59 U	0.59 U	**3.8**	**0.189 J**	**2.67**	**1.11**	**0.973 J**	**1.3**
Methyl tert-butyl ether (MTBE)	µg/m³	5.9	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 UJ	0.721 U	0.721 U	0.721 UJ	0.721 U
4-Methyl-2-pentanone (MIBK)	µg/m³	2.9	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**1.3**	0.82 UJ	0.82 U	0.82 U	0.82 UJ	0.82 U
Methylene chloride	µg/m³	2.9	3.47 U	**1.16 J**	**1.77 J**	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	**1.05 J**	3.47 UJ	**1.61 J**	**1.5 J**	3.47 UJ	**1.3 J**
1-Methylnaphthalene	µg/m³	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 UJ	5.82 U	5.82 U	5.82 UJ	5.82 U
2-Methylnaphthalene	µg/m³	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	**1.76 J**	5.82 UJ	5.82 U	5.82 U	5.82 UJ	5.82 U
2-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 UJ	0.803 U	0.803 U	0.803 UJ	0.803 U
3-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 UJ	0.803 U	0.803 U	0.803 UJ	0.803 U
Naphthalene	µg/m³	10	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	**0.367 J**	**45**	1.05 UJ	1.05 U	1.05 U	1.05 UJ	1.05 U
n-Nonane	µg/m³	1.2	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	**0.441 J**	1.05 UJ	1.05 U	1.05 U	1.05 UJ	1.05 U
n-Octane	µg/m³	2.1	0.934 U	0.934 U	0.934 U	0.934 U	**0.509 J**	0.934 U	0.934 U	**1.24**	0.934 U	0.934 UJ	**1.85**	**0.206 J**	0.934 UJ	0.934 U
Pentane	µg/m³	NE	**0.15 J**	**0.543 J**	0.59 U	0.59 U	**0.395 J**	**0.301 J**	**0.227 J**	**0.449 J**	**0.36 J**	0.59 UJ	**0.304 J**	0.59 U	**0.18 J**	**0.192 J**
2-Propanol (Isopropyl Alcohol)	µg/m³	NE	**0.285 J**	**0.246 J**	**0.305 J**	1.23 U	1.23 U	1.23 U	1.23 U	**0.15 J**	**2.9**	1.23 UJ	**1.07 J**	1.23 U	**0.467 J**	**0.72 J**
Styrene	µg/m³	0.6	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 UJ	0.852 U	0.852 U	0.852 UJ	0.852 U
1,1,2,2-Tetrachloroethane	µg/m³	0.25	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 UJ	1.37 U	1.37 U	1.37 UJ	1.37 U
Tetrachloroethene (PCE)	µg/m³	1.6	**3.25**	**3.68**	**2.33**	**1.59**	**0.773 J**	1.36 U	1.36 U	1.36 U	**0.522 J**	**0.875 J**	**1.32 J**	**2.15**	**7.05 J**	**6.56**
1,2,4,5-Tetramethylbenzene	µg/m³	NE	1.1 U	2.74 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.74 U	**65.3**	1.1 UJ	2.74 U	1.1 U	1.1 UJ	1.1 U
Thiophene	µg/m³	NE	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 UJ	0.688 U	0.688 U	0.688 UJ	0.688 U
1,1,2-Trichloro-1,2,2-trifluoroethane (F	µg/m³	3.6	**0.529 J**	**0.537 J**	**0.475 J**	**0.429 J**	1.53 U	1.53 U	**0.445 J**	**0.483 J**	**0.399 J**	**0.583 J**	**0.437 J**	**0.483 J**	1.53 UJ	1.53 U
1,2,4-Trichlorobenzene	µg/m³	4.8	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 UJ	1.48 U	1.48 U	1.48 UJ	1.48 U
1,1,1-Trichloroethane (TCA)	µg/m³	0.7	**0.316 J**	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 UJ	1.09 U	1.09 U	**0.529 J**	**0.496 J**
1,1,2-Trichloroethane	µg/m³	0.25	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 UJ	1.09 U	1.09 U	1.09 UJ	1.09 U
Trichloroethene (TCE)	µg/m³	0.5	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 UJ	1.07 U	1.07 U	1.07 UJ	1.07 U
Trichlorofluoromethane (Freon 11)	µg/m³	6.1	**1.57**	**1.78**	**1.44**	**1.3**	**1.07 J**	**1.11 J**	**1.02 J**	**1.01 J**	**1.05 J**	**1.61 J**	**1.14**	**1.87**	**1.52 J**	**1.56**
1,2,3-Trimethylbenzene	µg/m³	0.6	0.983 U	0.983 U	0.983 UJ	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	**98.8**	0.983 UJ	0.983 U	0.983 U	0.983 UJ	0.983 U
1,2,4-Trimethylbenzene	µg/m³	2.5	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	**0.462 J**	**89.5**	0.983 UJ	**0.364 J**	0.983 U	0.983 UJ	0.983 U
1,3,5-Trimethylbenzene	µg/m³	1	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	**28.9**	0.983 UJ	0.983 U	0.983 U	0.983 UJ	0.983 U
2,2,4-Trimethylpentane (iso-Octane)	µg/m³	2	0.934 U	0.934 U	0.934 U	0.934 U	**0.509 J**	0.934 U	0.934 U	0.934 U	0.934 U	0.934 UJ	0.934 U	0.934 U	0.934 UJ	0.934 U
n-Undecane	µg/m³	2.3	**0.352 J**	1.28 U	1.28 U	1.28 U	**2.59**	**0.837 J**	**0.697 J**	**0.927 J**	**863**	1.28 UJ	**1.03 J**	**0.69 J**	1.28 UJ	**0.467 J**
Vinyl bromide (Bromoethene)	µg/m³	NE	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 UJ	0.874 U	0.874 U	0.874 UJ	0.874 U
Vinyl chloride	µg/m³	0.25	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 UJ	0.511 U	0.511 U	0.511 UJ	0.511 U
Other																
Helium	%	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2-1. Soil Vapor Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZSV-02	OZDUP-26	OZSV-02	OZDUP-27	OZSV-02	OZDUP-28	OZSV-02	OZDUP-29	OZSV-02	OZDUP-30	OZSV-02	OZSV-02	OZSV-02	OZSV-02	OZSV-02
		Sample Date	9/29/2013	9/29/2013	11/26/2013	11/26/2013	1/20/2014	1/20/2014	3/24/2014	3/24/2014	5/19/2014	5/19/2014	8/21/2013	10/29/2013	12/28/2013	2/28/2014	
Analyte	Units	NYSDOH Background Outdoor Air 95th Percentile[1]															
BTEX																	
Benzene	µg/m³	5.8	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	**0.211 J**	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	
Toluene	µg/m³	21	**0.298 J**	0.754 U	**0.867**	0.754 U	**0.328 J**	0.754 U	0.754 U	**1.91**	0.754 U	0.754 U	**0.286 J**	0.754 U	0.754 U	0.754 U	
Ethylbenzene	µg/m³	1.9	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	**0.304 J**	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	
o-Xylene	µg/m³	2.5	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	**0.591 J**	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	
m/p-Xylene	µg/m³	3.1	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**1.29 J**	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	
Other VOCs																	
Acetaldehyde	µg/m³	NE	**5.15**	**7.62**	**1.68 J**	**2.22 J**	**1.91 J**	**1.3 J**	**5.21**	**5.13**	**2.02 J**	**4.49 J**	**6.32**	**1.5 J**	**2.31 J**	**1.47 J**	
Acetone	µg/m³	58	**3.99**	**4.73**	**2.42**	**2.76**	**2.18 J**	**1.76 J**	**1.08 J**	**1.29 J**	**3.18**	**4.35**	**8.36**	**1.4 J**	**2.47**	**1.11 J**	
Acrolein (propenal)	µg/m³	NE	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	
Allyl chloride (3-Chloropropene)	µg/m³	NE	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	
Benzothiophene (1-Benzothiophene)	µg/m³	NE	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	
Bromodichloromethane	µg/m³	NE	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	
Bromoform	µg/m³	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	
Bromomethane	µg/m³	0.9	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	
1,3-Butadiene	µg/m³	NE	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	
Butane	µg/m³	NE	**1.16 J**	**0.147 J**	0.475 UJ	**2.31 J**	**0.478**	**0.397 J**	**0.209 J**	**0.164 J**	0.475 U	0.475 U	0.475 U	0.475 U	**0.951**	0.475 U	
t-Butyl alcohol (Tertiary Butyl Alcohol)	µg/m³	NE	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	
Carbon disulfide	µg/m³	NE	0.623 U	**0.149 J**	0.623 U	**0.554 J**	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	
Carbon tetrachloride	µg/m³	1	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	
Chlorobenzene	µg/m³	0.25	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	
Chloroethane	µg/m³	0.4	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	
Chloroform	µg/m³	0.5	**1.99**	**2.45**	**0.957 J**	**0.957 J**	**1.86**	**1.93**	**3.03**	**3.02**	**9.62**	**9.77**	**2.78**	**1.29**	**1.81**	**2.55**	
Chloromethane	µg/m³	4.6	0.413 U	**0.626**	0.413 U	0.413 U	0.413 U	0.413 U	0.413 U	0.413 U	0.413 U	0.413 U	**0.479**	0.413 U	0.413 U	0.413 U	
2-Chlorotoluene (o-Chlorotoluene)	µg/m³	NE	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	
Cryofluorane (Freon 114)	µg/m³	1.3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	
Cyclohexane	µg/m³	3	**0.637 J**	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	**0.561 J**	0.688 U	**0.52 J**	0.688 U	
n-Decane	µg/m³	3.6	1.16 U	**6.34**	**7.33 J**	**0.361 J**	**0.861 J**	**0.471 J**	**0.425 J**	**0.372 J**	**0.518 J**	**1.55**	1.16 U	1.16 U	1.16 U	1.16 U	
Dibromochloromethane	µg/m³	NE	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	
1,2-Dibromoethane (EDB)	µg/m³	0.25	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	
1,2-Dichlorobenzene	µg/m³	0.9	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
1,3-Dichlorobenzene	µg/m³	0.7	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
1,4-Dichlorobenzene	µg/m³	0.8	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	
Dichlorodifluoromethane (Freon 12)	µg/m³	11	**1.62**	**1.49**	**1.84**	**1.82**	**2.07 J**	**1.68 J**	**1.34**	**1.32**	**0.89 J**	**0.885 J**	**0.529 J**	**1.67**	**1.61**	**0.826 J**	
1,1-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	
1,2-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	
1,1-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	
cis-1,2-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	
trans-1,2-Dichloroethene	µg/m³	NE	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	
1,2-Dichloropropane	µg/m³	0.25	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	
cis-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	
trans-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	
1,4-Dioxane	µg/m³	NE	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	
n-Dodecane	µg/m³	7.6	**1.54 J**	**13.4 J**	**5.09 J**	1.39 UJ	1.39 U	**1.05 J**	**0.613 J**	**0.543 J**	**2.24 J**	**3.31 J**	**1.37 J**	**0.341 J**	**1.06 J**	3.48 UJ	
Ethanol	µg/m³	220	1.88 U	1.88 U	1.88 U	**1.26 J**	1.88 U	**1.96**	**1.35 J**	1.88 U	**1.08 J**	1.88 U	**1.69 J**	1.88 U	1.88 U	1.88 U	
2-Ethylthiophene	µg/m³	NE	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	
4-Ethyltoluene (p-Ethyltoluene)	µg/m³	NE	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	

Table 2-1. Soil Vapor Analytical Results
Bay Shore/Brightwaters Former MGP Site
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		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZSV-02	OZDUP-26	OZSV-02	OZDUP-27	OZSV-02	OZDUP-28	OZSV-02	OZDUP-29	OZSV-02	OZDUP-30	OZSV-02	OZSV-02	OZSV-02	OZSV-02	OZSV-02
		Sample Date	9/29/2013	9/29/2013	11/26/2013	11/26/2013	1/20/2014	1/20/2014	3/24/2014	3/24/2014	5/19/2014	5/19/2014	8/21/2013	10/29/2013	12/28/2013	2/28/2014	
Analyte	**Units**	**NYSDOH Background Outdoor Air 95th Percentile[1]**															
BTEX																	
Benzene	µg/m³	5.8	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	**0.211 J**	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	
n-Heptane	µg/m³	5.1	**0.398 J**	0.82 U	0.82 U	**0.516 J**	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**0.254 J**	0.82 U	
Hexachlorobutadiene (C-46)	µg/m³	7	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	
n-Hexane	µg/m³	3.6	**0.892**	0.705 U	**0.701 J**	**1.03**	**0.201 J**	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	**0.388 J**	0.705 U	
2-Hexanone	µg/m³	NE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	
Indane	µg/m³	NE	0.967 UJ	0.967 UJ	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	
Indene	µg/m³	NE	0.951 UJ	0.951 UJ	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	
Methyl ethyl ketone (2-Butanone)	µg/m³	17	**0.501 J**	**0.41 J**	0.59 U	**0.254 J**	0.59 U	0.59 U	0.59 U	0.59 U	**0.386 J**	**0.587 J**	**0.672**	0.59 U	**0.422 J**	**0.18 J**	
Methyl tert-butyl ether (MTBE)	µg/m³	5.9	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	
4-Methyl-2-pentanone (MIBK)	µg/m³	2.9	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	
Methylene chloride	µg/m³	2.9	**3.72**	3.47 U	3.47 U	3.47 U	**1.65 J**	**1.15 J**	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	3.47 U	
1-Methylnaphthalene	µg/m³	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	
2-Methylnaphthalene	µg/m³	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	
2-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	
3-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	
Naphthalene	µg/m³	10	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	**0.346 J**	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	
n-Nonane	µg/m³	1.2	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	
n-Octane	µg/m³	2.1	**0.215 J**	**0.285 J**	**1.44 J**	**0.355 J**	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	
Pentane	µg/m³	NE	**0.814**	0.59 U	0.59 UJ	**1.44 J**	**0.369 J**	**0.328 J**	**0.142 J**	0.59 U	0.59 U	0.59 U	**0.153 J**	0.59 U	**0.623**	0.59 U	
2-Propanol (Isopropyl Alcohol)	µg/m³	NE	**0.31 J**	**0.393 J**	1.23 U	1.23 U	1.23 U	1.23 U	**0.184 J**	**0.14 J**	1.23 U	1.23 U	**0.204 J**	1.23 U	1.23 U	**0.265 J**	
Styrene	µg/m³	0.6	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	
1,1,2,2-Tetrachloroethane	µg/m³	0.25	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	
Tetrachloroethene (PCE)	µg/m³	1.6	**4.71**	**5.25**	**1.93**	**2.16**	**0.861 J**	**0.97 J**	**1.32 J**	**1.24 J**	**3.1**	**3.15**	**6.75**	**2.82**	**0.882 J**	**0.604 J**	
1,2,4,5-Tetramethylbenzene	µg/m³	NE	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	1.1 U	1.1 U	2.74 U	
Thiophene	µg/m³	NE	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	
1,1,2-Trichloro-1,2,2-trifluoroethane (F	µg/m³	3.6	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	**0.414 J**	**0.437 J**	**0.406 J**	1.53 U	1.53 U	1.53 U	
1,2,4-Trichlorobenzene	µg/m³	4.8	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	
1,1,1-Trichloroethane (TCA)	µg/m³	0.7	**0.355 J**	**0.349 J**	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	**0.529 J**	1.09 U	1.09 U	1.09 U	
1,1,2-Trichloroethane	µg/m³	0.25	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	
Trichloroethene (TCE)	µg/m³	0.5	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	
Trichlorofluoromethane (Freon 11)	µg/m³	6.1	**1.41**	**1.42**	**1.08 J**	**1.06 J**	**0.938 J**	**0.905 J**	**0.983 J**	**0.955 J**	**1.14**	**1.12**	**2.45**	**1.07 J**	**0.933 J**	**0.804 J**	
1,2,3-Trimethylbenzene	µg/m³	0.6	0.983 UJ	0.983 UJ	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	
1,2,4-Trimethylbenzene	µg/m³	2.5	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	**0.846 J**	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	
1,3,5-Trimethylbenzene	µg/m³	1	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	
2,2,4-Trimethylpentane (iso-Octane)	µg/m³	2	0.934 U	0.934 U	**0.504 J**	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	
n-Undecane	µg/m³	2.3	1.28 U	1.28 U	**3.34 J**	1.28 UJ	**0.492 J**	**0.601 J**	**0.486 J**	1.28 U	1.28 U	**0.505 J**	1.28 U	1.28 U	**0.652 J**	1.28 U	
Vinyl bromide (Bromoethene)	µg/m³	NE	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	
Vinyl chloride	µg/m³	0.25	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	
Other																	
Helium	%	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Table 2-1. Soil Vapor Analytical Results
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		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZSV-02	OZSV-02	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03
		Sample Date	4/24/2014	6/25/2014	7/30/2013	8/21/2013	9/29/2013	10/29/2013	11/11/2013	11/26/2013	12/28/2013	1/20/2014	2/28/2014	3/24/2014	4/24/2014	5/19/2014
Analyte	Units	NYSDOH Background Outdoor Air 95th Percentile[1]														
BTEX																
Benzene	µg/m³	5.8	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	1.28 U	0.639 UJ	0.639 U	0.639 U	0.639 UJ	0.639 U	0.639 U	0.639 U
Toluene	µg/m³	21	0.754 U	**3.77**	**0.26 J**	**0.392 J**	0.754 U	**0.286 J**	1.51 U	**0.43 J**	0.754 U	0.754 U	**0.241 J**	**1.11**	0.754 U	**0.298 J**
Ethylbenzene	µg/m³	1.9	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	1.74 U	0.869 UJ	0.869 U	0.869 U	0.869 UJ	0.869 U	0.869 U	0.869 U
o-Xylene	µg/m³	2.5	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	1.74 U	0.869 UJ	0.869 U	0.869 U	0.869 UJ	0.869 U	0.869 U	0.869 U
m/p-Xylene	µg/m³	3.1	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	3.47 U	1.74 UJ	1.74 U	1.74 U	1.74 UJ	1.74 U	1.74 U	1.74 U
Other VOCs																
Acetaldehyde	µg/m³	NE	**3.87 J**	**4.76**	**8.54**	**8.72**	**4.05 J**	**2.56 J**	9.01 U	4.5 UJ	4.5 U	4.5 UJ	**1.65 J**	**1.68 J**	**4.7**	**5.53**
Acetone	µg/m³	58	**3.14**	**5.51**	**4.01**	**10.2**	**3.44**	**2.49**	4.75 U	**1.02 J**	**2.05 J**	**1.24 J**	**1.26 J**	**1.36 J**	**2.95**	**7.86**
Acrolein (propenal)	µg/m³	NE	1.15 U	1.15 U	**0.271 J**	**0.456 J**	1.15 U	1.15 U	2.29 U	1.15 UJ	1.15 U	1.15 U	1.15 UJ	1.15 U	1.15 U	1.15 U
Allyl chloride (3-Chloropropene)	µg/m³	NE	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	1.25 U	0.626 UJ	0.626 U	0.626 U	0.626 UJ	0.626 U	0.626 U	0.626 U
Benzothiophene (1-Benzothiophene)	µg/m³	NE	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	5.49 U	2.74 UJ	2.74 U	2.74 U	2.74 UJ	2.74 U	2.74 U	2.74 U
Bromodichloromethane	µg/m³	NE	1.34 U	1.34 U	**0.482 J**	**0.462 J**	1.34 U	1.34 U	2.68 U	1.34 UJ	1.34 U	1.34 U	1.34 UJ	1.34 U	1.34 U	1.34 U
Bromoform	µg/m³	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	4.14 U	2.07 UJ	2.07 U	2.07 U	2.07 UJ	2.07 U	2.07 U	2.07 U
Bromomethane	µg/m³	0.9	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	1.55 U	0.777 UJ	0.777 U	0.777 U	0.777 UJ	0.777 U	0.777 U	0.777 U
1,3-Butadiene	µg/m³	NE	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.885 U	0.442 UJ	0.442 U	0.442 U	0.442 UJ	0.442 U	0.442 U	0.442 U
Butane	µg/m³	NE	0.475 U	**0.231 J**	**0.447 J**	**0.119 J**	0.475 U	0.475 U	**0.214 J**	0.475 UJ	**0.654**	**0.561**	**0.131 J**	**0.214 J**	0.475 U	0.475 U
t-Butyl alcohol (Tertiary Butyl Alcohol)	µg/m³	NE	0.606 U	**0.215 J**	0.606 U	**0.185 J**	0.606 U	0.606 U	1.21 U	0.606 UJ	0.606 U	0.606 U	0.606 UJ	0.606 U	0.606 U	0.606 U
Carbon disulfide	µg/m³	NE	0.623 U	0.623 U	**0.255 J**	0.623 U	**0.118 J**	**0.315 J**	1.25 U	0.623 UJ	0.623 U	0.623 U	0.623 UJ	0.623 U	0.623 U	**0.131 J**
Carbon tetrachloride	µg/m³	1	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	2.52 U	1.26 UJ	1.26 U	1.26 U	1.26 UJ	1.26 U	1.26 U	1.26 U
Chlorobenzene	µg/m³	0.25	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	1.84 U	0.921 UJ	0.921 U	0.921 U	0.921 UJ	0.921 U	0.921 U	0.921 U
Chloroethane	µg/m³	0.4	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	1.06 U	0.528 UJ	0.528 U	0.528 U	0.528 UJ	0.528 U	0.528 U	0.528 U
Chloroform	µg/m³	0.5	**9.13**	**6.01**	**21.6**	**20**	**13.2**	**8.94**	**7.03**	**4.55 J**	**2.1**	**1.39**	**1.32 J**	**1.49**	**3.63**	**3.98**
Chloromethane	µg/m³	4.6	0.413 U	**0.256 J**	0.413 U	**0.876**	0.413 U	0.413 U	0.826 U	0.413 UJ	0.413 U	0.413 U	0.413 UJ	0.413 U	0.413 U	**0.324 J**
2-Chlorotoluene (o-Chlorotoluene)	µg/m³	NE	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	2.07 U	1.04 UJ	1.04 U	1.04 U	1.04 UJ	1.04 U	1.04 U	1.04 U
Cryofluorane (Freon 114)	µg/m³	1.3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	1.4 UJ	1.4 U	1.4 U	1.4 UJ	1.4 U	1.4 U	1.4 U
Cyclohexane	µg/m³	3	0.688 U	0.688 U	**0.874**	**0.595 J**	0.688 U	0.688 U	1.38 U	0.688 UJ	**0.444 J**	0.688 U	0.688 UJ	0.688 U	0.688 U	0.688 U
n-Decane	µg/m³	3.6	**0.448 J**	**1.03 J**	1.16 U	1.16 U	**1.12 J**	1.16 U	2.33 U	1.16 UJ	1.16 U	1.16 U	1.16 UJ	**15.1**	1.16 U	**0.879 J**
Dibromochloromethane	µg/m³	NE	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.41 U	1.7 UJ	1.7 U	1.7 U	1.7 UJ	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane (EDB)	µg/m³	0.25	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	3.07 U	1.54 UJ	1.54 U	1.54 U	1.54 UJ	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	µg/m³	0.9	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	1.2 UJ	1.2 U	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	µg/m³	0.7	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	1.2 UJ	1.2 U	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	µg/m³	0.8	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	1.2 UJ	1.2 U	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane (Freon 12)	µg/m³	11	**0.87 J**	**0.994 J**	**14.9**	**366**	**299**	**54.9**	**41.1**	**16.4 J**	**6.53**	**15.5 J**	**7.71 J**	**7.96**	**14.8**	**7.17**
1,1-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	1.62 U	0.809 UJ	0.809 U	0.809 U	0.809 UJ	0.809 U	0.809 U	0.809 U
1,2-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	1.62 U	0.809 UJ	0.809 U	0.809 U	0.809 UJ	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	1.59 U	0.793 UJ	0.793 U	0.793 U	0.793 UJ	0.793 U	0.793 U	0.793 U
cis-1,2-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	1.59 U	0.793 UJ	0.793 U	0.793 U	0.793 UJ	0.793 U	0.793 U	0.793 U
trans-1,2-Dichloroethene	µg/m³	NE	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	1.59 U	0.793 UJ	0.793 U	0.793 U	0.793 UJ	0.793 U	0.793 U	0.793 U
1,2-Dichloropropane	µg/m³	0.25	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	1.85 U	0.924 UJ	0.924 U	0.924 U	0.924 UJ	0.924 U	0.924 U	0.924 U
cis-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	1.82 U	0.908 UJ	0.908 U	0.908 U	0.908 UJ	0.908 U	0.908 U	0.908 U
trans-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	1.82 U	0.908 UJ	0.908 U	0.908 U	0.908 UJ	0.908 U	0.908 U	0.908 U
1,4-Dioxane	µg/m³	NE	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	1.44 U	0.721 UJ	0.721 U	0.721 U	0.721 UJ	0.721 U	0.721 U	0.721 U
n-Dodecane	µg/m³	7.6	**1.18 J**	**5.73 J**	**0.857 J**	**4.76**	**2.68**	1.39 U	2.79 U	1.39 UJ	**0.662 J**	**2.19**	3.48 UJ	**2.89 J**	**2.31 J**	**2.22 J**
Ethanol	µg/m³	220	1.88 U	**2.52**	**1.37 J**	**2.68**	1.88 U	1.88 U	3.77 U	1.88 UJ	1.88 U	1.88 U	1.88 UJ	1.88 U	1.88 U	**1.48 J**
2-Ethylthiophene	µg/m³	NE	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	1.84 U	0.918 UJ	0.918 U	0.918 U	0.918 UJ	0.918 U	0.918 U	0.918 U
4-Ethyltoluene (p-Ethyltoluene)	µg/m³	NE	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	1.97 U	0.983 UJ	0.983 U	0.983 U	0.983 UJ	0.983 U	0.983 U	0.983 U

Table 2-1. Soil Vapor Analytical Results
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		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZSV-02	OZSV-02	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03	OZSV-03
		Sample Date	4/24/2014	6/25/2014	7/30/2013	8/21/2013	9/29/2013	10/29/2013	11/11/2013	11/26/2013	12/28/2013	1/20/2014	2/28/2014	3/24/2014	4/24/2014	5/19/2014
Analyte	**Units**	**NYSDOH Background Outdoor Air 95th Percentile[1]**														
BTEX																
Benzene	µg/m³	5.8	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	1.28 U	0.639 UJ	0.639 U	0.639 U	0.639 UJ	0.639 U	0.639 U	0.639 U
n-Heptane	µg/m³	5.1	0.82 U	0.82 U	**0.234 J**	0.82 U	0.82 U	0.82 U	1.64 U	0.82 UJ	0.82 U	0.82 U	0.82 UJ	0.82 U	0.82 U	0.82 U
Hexachlorobutadiene (C-46)	µg/m³	7	2.13 UJ	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	4.27 U	2.13 UJ	2.13 U	2.13 U	2.13 UJ	2.13 U	2.13 UJ	2.13 U
n-Hexane	µg/m³	3.6	0.705 U	0.705 U	**0.377 J**	0.705 U	0.705 U	0.705 U	1.41 U	0.705 UJ	**0.261 J**	**0.183 J**	0.705 UJ	0.705 U	0.705 U	**0.289 J**
2-Hexanone	µg/m³	NE	0.82 U	0.82 U	**0.635 J**	0.82 U	0.82 U	0.82 U	1.64 U	0.82 UJ	0.82 U	0.82 U	0.82 UJ	0.82 U	0.82 U	0.82 U
Indane	µg/m³	NE	0.967 U	0.967 U	0.967 U	0.967 U	0.967 UJ	0.967 U	1.93 U	0.967 UJ	0.967 U	0.967 U	0.967 UJ	0.967 U	0.967 U	0.967 U
Indene	µg/m³	NE	0.951 U	0.951 U	0.951 U	0.951 U	0.951 UJ	0.951 U	1.9 U	0.951 UJ	0.951 U	0.951 U	0.951 UJ	0.951 U	0.951 U	0.951 U
Methyl ethyl ketone (2-Butanone)	µg/m³	17	**0.321 J**	**1.63**	**0.669**	**0.779**	**0.212 J**	**0.658**	1.18 U	0.59 UJ	**0.292 J**	0.59 U	**0.192 J**	**0.177 J**	**0.265 J**	**0.575 J**
Methyl tert-butyl ether (MTBE)	µg/m³	5.9	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	1.44 U	0.721 UJ	0.721 U	0.721 U	0.721 UJ	0.721 U	0.721 U	0.721 U
4-Methyl-2-pentanone (MIBK)	µg/m³	2.9	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	1.64 U	0.82 UJ	0.82 U	0.82 U	0.82 UJ	0.82 U	0.82 U	0.82 U
Methylene chloride	µg/m³	2.9	3.47 U	**1.09 J**	3.47 U	3.47 U	**1.05 J**	3.47 U	6.95 U	3.47 UJ	**1.08 J**	3.47 U	3.47 UJ	3.47 U	3.47 U	**2.87 J**
1-Methylnaphthalene	µg/m³	NE	5.82 UJ	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	11.6 U	5.82 UJ	5.82 U	5.82 U	5.82 UJ	5.82 U	5.82 UJ	5.82 U
2-Methylnaphthalene	µg/m³	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	11.6 U	5.82 UJ	5.82 U	5.82 U	5.82 UJ	5.82 U	5.82 U	5.82 U
2-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	1.61 U	0.803 UJ	0.803 U	0.803 U	0.803 UJ	0.803 U	0.803 U	0.803 U
3-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	1.61 U	0.803 UJ	0.803 U	0.803 U	0.803 UJ	0.803 U	0.803 U	0.803 U
Naphthalene	µg/m³	10	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	2.1 U	1.05 UJ	1.05 U	1.05 U	1.05 UJ	1.05 U	1.05 U	1.05 U
n-Nonane	µg/m³	1.2	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	2.1 U	1.05 UJ	1.05 U	1.05 U	1.05 UJ	1.05 U	1.05 U	1.05 U
n-Octane	µg/m³	2.1	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	1.87 U	0.934 UJ	0.934 U	0.934 U	0.934 UJ	**0.724 J**	0.934 U	0.934 U
Pentane	µg/m³	NE	0.59 U	**0.348 J**	**0.384 J**	0.59 U	0.59 U	0.59 U	1.18 U	0.59 UJ	**0.404 J**	**0.333 J**	0.59 UJ	0.59 U	0.59 U	**0.177 J**
2-Propanol (Isopropyl Alcohol)	µg/m³	NE	1.23 U	1.23 U	**0.624 J**	**0.293 J**	**4.69**	1.23 U	2.46 U	1.23 UJ	1.23 U	1.23 U	**0.528 J**	1.23 U	1.23 U	**0.583 J**
Styrene	µg/m³	0.6	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	1.7 U	0.852 UJ	0.852 U	0.852 U	0.852 UJ	0.852 U	0.852 U	0.852 U
1,1,2,2-Tetrachloroethane	µg/m³	0.25	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	2.75 U	1.37 UJ	1.37 U	1.37 U	1.37 UJ	1.37 U	1.37 U	1.37 U
Tetrachloroethene (PCE)	µg/m³	1.6	**1.51**	**3.29**	**10.9**	**11.1**	**8.21**	**5.63**	**5.09**	**3.41 J**	**1.67**	**1.67**	**1.72 J**	**2.02**	**3.45**	**5.21**
1,2,4,5-Tetramethylbenzene	µg/m³	NE	1.1 U	1.1 U	1.1 U	2.74 U	1.1 U	1.1 U	2.2 U	1.1 UJ	1.1 U	1.1 U	2.74 UJ	2.74 U	1.1 U	2.74 U
Thiophene	µg/m³	NE	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	1.38 U	0.688 UJ	0.688 U	0.688 U	0.688 UJ	0.688 U	0.688 U	0.688 U
1,1,2-Trichloro-1,2,2-trifluoroethane (F	µg/m³	3.6	**0.514 J**	**0.529 J**	1.53 U	1.53 U	1.53 U	1.53 U	3.07 U	1.53 UJ	1.53 U	1.53 U	1.53 UJ	1.53 U	1.53 U	1.53 U
1,2,4-Trichlorobenzene	µg/m³	4.8	1.48 UJ	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	2.97 U	1.48 UJ	1.48 U	1.48 U	1.48 UJ	1.48 U	1.48 UJ	1.48 U
1,1,1-Trichloroethane (TCA)	µg/m³	0.7	1.09 U	**0.327 J**	1.09 U	1.09 U	1.09 U	1.09 U	2.18 U	1.09 UJ	1.09 U	1.09 U	1.09 UJ	1.09 U	1.09 U	1.09 U
1,1,2-Trichloroethane	µg/m³	0.25	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	2.18 U	1.09 UJ	1.09 U	1.09 U	1.09 UJ	1.09 U	1.09 U	1.09 U
Trichloroethene (TCE)	µg/m³	0.5	1.07 U	**0.564 J**	1.07 U	1.07 U	**0.693 J**	1.07 U	2.15 U	1.07 UJ	1.07 U	1.07 U	1.07 UJ	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane (Freon 11)	µg/m³	6.1	**1.62**	**2.05**	**1.35**	**2.26**	**1.28**	**0.989 J**	**0.877 J**	**0.77 J**	**0.635 J**	**0.59 J**	**0.59 J**	**0.804 J**	**1.62**	**0.983 J**
1,2,3-Trimethylbenzene	µg/m³	0.6	0.983 U	0.983 U	0.983 U	0.983 U	0.983 UJ	0.983 U	1.97 U	0.983 UJ	0.983 U	0.983 U	0.983 UJ	0.983 U	0.983 U	0.983 U
1,2,4-Trimethylbenzene	µg/m³	2.5	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	1.97 U	0.983 UJ	0.983 U	0.983 U	0.983 UJ	0.983 U	0.983 U	0.983 U
1,3,5-Trimethylbenzene	µg/m³	1	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	1.97 U	0.983 UJ	0.983 U	0.983 U	0.983 UJ	0.983 U	0.983 U	0.983 U
2,2,4-Trimethylpentane (iso-Octane)	µg/m³	2	0.934 U	**0.318 J**	0.934 U	0.934 U	0.934 U	0.934 U	1.87 U	0.934 UJ	0.934 U	0.934 U	0.934 UJ	0.934 U	0.934 U	0.934 U
n-Undecane	µg/m³	2.3	1.28 U	**2.4**	1.28 U	**0.646 J**	1.28 U	1.28 U	2.56 U	1.28 UJ	**0.364 J**	**0.416 J**	1.28 UJ	**1.73**	1.28 U	**1.55**
Vinyl bromide (Bromoethene)	µg/m³	NE	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	1.75 U	0.874 UJ	0.874 U	0.874 U	0.874 UJ	0.874 U	0.874 U	0.874 U
Vinyl chloride	µg/m³	0.25	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	1.02 U	0.511 UJ	0.511 U	0.511 U	0.511 UJ	0.511 U	0.511 U	0.511 U
Other																
Helium	%	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2-1. Soil Vapor Analytical Results
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		Operable Unit	OU1	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OZSV-03	OU2SG-14	OU2SG-16	OU2SG-18	OU2SG-32	OU2SG-33	OU2SG-35	OU2SG-40	SGDUP-111113	OU2SG-41
		Sample Date	6/25/2014	11/11/2013	11/11/2013	11/11/2013	11/11/2013	11/11/2013	11/11/2013	11/11/2013	11/11/2013	11/11/2013
Analyte	Units	NYSDOH Background Outdoor Air 95th Percentile[1]										
BTEX												
Benzene	µg/m³	5.8	0.639 U	1.28 U	1.28 U	1.28 U	1.28 UJ	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U
Toluene	µg/m³	21	0.754 U	**0.935 J**	1.51 U	**0.904 J**	1.51 UJ	1.51 U	1.51 U	1.51 U	**0.52 J**	1.51 U
Ethylbenzene	µg/m³	1.9	0.869 U	1.74 U	1.74 U	1.74 U	1.74 UJ	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
o-Xylene	µg/m³	2.5	0.869 U	1.74 U	1.74 U	1.74 U	1.74 UJ	1.74 U	1.74 U	**0.869 J**	**0.877 J**	1.74 U
m/p-Xylene	µg/m³	3.1	1.74 U	3.47 U	3.47 U	3.47 U	3.47 UJ	3.47 U	3.47 U	**1.5 J**	**1.33 J**	3.47 U
Other VOCs												
Acetaldehyde	µg/m³	NE	**4.32 J**	9.01 U	9.01 U	9.01 U	9.01 UJ	9.01 UJ	9.01 U	9.01 U	9.01 U	9.01 U
Acetone	µg/m³	58	**5.44**	**1.07 J**	**1.94 J**	**1.19 J**	**2.25 J**	4.75 UJ	**1.39 J**	**1.82 J**	**2.61 J**	**1.79 J**
Acrolein (propenal)	µg/m³	NE	1.15 U	2.29 U	2.29 U	2.29 U	2.29 UJ	2.29 U	2.29 U	2.29 U	2.29 U	2.29 U
Allyl chloride (3-Chloropropene)	µg/m³	NE	0.626 U	1.25 U	1.25 U	1.25 U	1.25 UJ	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U
Benzothiophene (1-Benzothiophene)	µg/m³	NE	2.74 U	5.49 U	5.49 U	5.49 U	5.49 UJ	5.49 U	5.49 U	5.49 U	5.49 U	5.49 U
Bromodichloromethane	µg/m³	NE	1.34 U	2.68 U	2.68 U	2.68 U	2.68 UJ	2.68 U	2.68 U	2.68 U	2.68 U	2.68 U
Bromoform	µg/m³	NE	2.07 U	4.14 U	4.14 U	4.14 U	4.14 UJ	4.14 U	4.14 U	4.14 U	4.14 U	4.14 U
Bromomethane	µg/m³	0.9	0.777 U	1.55 U	1.55 U	1.55 U	1.55 UJ	1.55 U	1.55 U	1.55 U	1.55 U	1.55 U
1,3-Butadiene	µg/m³	NE	0.442 U	0.885 U	0.885 U	0.885 U	0.885 UJ	0.885 U	0.885 U	0.885 U	0.885 U	0.885 U
Butane	µg/m³	NE	0.475 U	0.951 U	0.951 U	0.951 U	**0.338 J**	**228**	0.951 U	0.951 U	**0.38 J**	**0.219 J**
t-Butyl alcohol (Tertiary Butyl Alcohol)	µg/m³	NE	0.606 U	1.21 U	1.21 U	1.21 U	1.21 UJ	1.21 U	1.21 U	**1.67**	**1.49**	1.21 U
Carbon disulfide	µg/m³	NE	0.623 U	1.25 U	**0.386 J**	**5.54**	1.25 UJ	**0.33 J**	1.25 U	**0.698 J**	**0.872 J**	**1.65**
Carbon tetrachloride	µg/m³	1	1.26 U	2.52 U	2.52 U	2.52 U	2.52 UJ	2.52 U	2.52 U	2.52 U	2.52 U	2.52 U
Chlorobenzene	µg/m³	0.25	0.921 U	1.84 U	1.84 U	1.84 U	1.84 UJ	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U
Chloroethane	µg/m³	0.4	**0.301 J**	1.06 U	1.06 U	1.06 U	1.06 UJ	1.06 U	1.06 U	1.06 U	1.06 U	1.06 U
Chloroform	µg/m³	0.5	**14.7**	1.95 U	**0.723 J**	1.95 U	**0.996 J**	**0.596 J**	**2.24**	**3.31**	**3.15**	**4.17**
Chloromethane	µg/m³	4.6	**0.213 J**	0.826 U	0.826 U	0.826 U	0.826 UJ	**0.545 J**	0.826 U	0.826 U	0.826 U	0.826 U
2-Chlorotoluene (o-Chlorotoluene)	µg/m³	NE	1.04 U	2.07 U	2.07 U	2.07 U	2.07 UJ	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Cryofluorane (Freon 114)	µg/m³	1.3	1.4 U	2.8 U	2.8 U	2.8 U	2.8 UJ	2.8 U	2.8 U	2.8 U	2.8 U	2.8 U
Cyclohexane	µg/m³	3	0.688 U	1.38 U	**0.544 J**	1.38 U	1.38 UJ	**6.2**	1.38 U	1.38 U	1.38 U	1.38 U
n-Decane	µg/m³	3.6	**2.49**	2.33 U	2.33 U	2.33 U	**3.08 J**	2.33 U	2.33 U	**1.05 J**	**4.94 J**	**0.978 J**
Dibromochloromethane	µg/m³	NE	1.7 U	3.41 U	3.41 U	3.41 U	3.41 UJ	3.41 U	3.41 U	3.41 U	3.41 U	3.41 U
1,2-Dibromoethane (EDB)	µg/m³	0.25	1.54 U	3.07 U	3.07 U	3.07 U	3.07 UJ	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U
1,2-Dichlorobenzene	µg/m³	0.9	1.2 U	2.4 U	2.4 U	2.4 U	2.4 UJ	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
1,3-Dichlorobenzene	µg/m³	0.7	1.2 U	2.4 U	2.4 U	2.4 U	2.4 UJ	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
1,4-Dichlorobenzene	µg/m³	0.8	1.2 U	2.4 U	2.4 U	2.4 U	2.4 UJ	2.4 U	2.4 U	2.4 U	2.4 U	2.4 U
Dichlorodifluoromethane (Freon 12)	µg/m³	11	**13.7 J**	**2.24**	**2.36**	**2.3**	**2.22 J**	**1.5 J**	**2.54**	**1.76 J**	**1.77 J**	**2.08**
1,1-Dichloroethane	µg/m³	0.25	0.809 U	1.62 U	1.62 U	1.62 U	1.62 UJ	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U
1,2-Dichloroethane	µg/m³	0.25	0.809 U	1.62 U	1.62 U	1.62 U	1.62 UJ	1.62 U	1.62 U	1.62 U	1.62 U	1.62 U
1,1-Dichloroethene	µg/m³	0.25	0.793 U	1.59 U	1.59 U	1.59 U	1.59 UJ	1.59 U	1.59 U	1.59 U	1.59 U	1.59 U
cis-1,2-Dichloroethene	µg/m³	0.25	0.793 U	1.59 U	1.59 U	1.59 U	1.59 UJ	1.59 U	1.59 U	1.59 U	1.59 U	1.59 U
trans-1,2-Dichloroethene	µg/m³	NE	0.793 U	1.59 U	1.59 U	1.59 U	1.59 UJ	1.59 U	1.59 U	1.59 U	1.59 U	1.59 U
1,2-Dichloropropane	µg/m³	0.25	0.924 U	1.85 U	1.85 U	1.85 U	1.85 UJ	1.85 U	1.85 U	1.85 U	1.85 U	1.85 U
cis-1,3-Dichloropropene	µg/m³	0.25	0.908 U	1.82 U	1.82 U	1.82 U	1.82 UJ	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U
trans-1,3-Dichloropropene	µg/m³	0.25	0.908 U	1.82 U	1.82 U	1.82 U	1.82 UJ	1.82 U	1.82 U	1.82 U	1.82 U	1.82 U
1,4-Dioxane	µg/m³	NE	0.721 U	1.44 U	1.44 U	1.44 U	1.44 UJ	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U
n-Dodecane	µg/m³	7.6	**13.7 J**	2.79 U	**0.724 J**	2.79 U	**2.56 J**	2.79 U	2.79 U	**0.794 J**	**2.27 J**	**4.37**
Ethanol	µg/m³	220	**3.43**	3.77 U	3.77 U	3.77 U	**2.54 J**	3.77 U	3.77 U	**7.16**	**8.44**	**13.2**
2-Ethylthiophene	µg/m³	NE	0.918 U	1.84 U	1.84 U	1.84 U	1.84 UJ	1.84 U	1.84 U	1.84 U	1.84 U	1.84 U
4-Ethyltoluene (p-Ethyltoluene)	µg/m³	NE	0.983 U	1.97 U	1.97 U	1.97 U	1.97 UJ	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U

Table 2-1. Soil Vapor Analytical Results
Bay Shore/Brightwaters Former MGP Site
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		Operable Unit	OU1	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OZSV-03	OU2SG-14	OU2SG-16	OU2SG-18	OU2SG-32	OU2SG-33	OU2SG-35	OU2SG-40	SGDUP-111113	OU2SG-41
		Sample Date	6/25/2014	11/11/2013	11/11/2013	11/11/2013	11/11/2013	11/11/2013	11/11/2013	11/11/2013	11/11/2013	11/11/2013
Analyte	Units	NYSDOH Background Outdoor Air 95th Percentile[1]										
BTEX												
Benzene	µg/m^3	5.8	0.639 U	1.28 U	1.28 U	1.28 U	1.28 UJ	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U
n-Heptane	µg/m^3	5.1	0.82 U	1.64 U	1.64 U	1.64 U	1.64 UJ	**0.467 J**	1.64 U	1.64 U	1.64 U	1.64 U
Hexachlorobutadiene (C-46)	µg/m^3	7	2.13 U	4.27 U	4.27 U	4.27 U	4.27 UJ	4.27 U	4.27 U	4.27 U	4.27 U	4.27 U
n-Hexane	µg/m^3	3.6	0.705 U	1.41 U	1.41 U	1.41 U	**0.613 J**	**5.08**	1.41 U	1.41 U	**0.634 J**	1.41 U
2-Hexanone	µg/m^3	NE	0.82 U	1.64 U	1.64 U	1.64 U	1.64 UJ	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Indane	µg/m^3	NE	0.967 U	1.93 U	1.93 U	1.93 U	1.93 UJ	1.93 U	1.93 U	1.93 U	1.93 U	1.93 U
Indene	µg/m^3	NE	0.951 U	1.9 U	1.9 U	1.9 U	1.9 UJ	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Methyl ethyl ketone (2-Butanone)	µg/m^3	17	**0.964**	1.18 U	**0.737 J**	1.18 U	**1.57 J**	1.18 U	1.18 U	1.18 U	1.18 U	1.18 U
Methyl tert-butyl ether (MTBE)	µg/m^3	5.9	0.721 U	1.44 U	1.44 U	1.44 U	1.44 UJ	1.44 U	1.44 U	1.44 U	1.44 U	1.44 U
4-Methyl-2-pentanone (MIBK)	µg/m^3	2.9	0.82 U	1.64 U	1.64 U	1.64 U	1.64 UJ	1.64 U	1.64 U	1.64 U	1.64 U	1.64 U
Methylene chloride	µg/m^3	2.9	**1.32 J**	6.95 U	6.95 U	6.95 U	6.95 UJ	6.95 U	6.95 U	6.95 U	6.95 U	6.95 U
1-Methylnaphthalene	µg/m^3	NE	5.82 U	11.6 U	11.6 U	11.6 U	11.6 UJ	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U
2-Methylnaphthalene	µg/m^3	NE	5.82 U	11.6 U	11.6 U	11.6 U	11.6 UJ	11.6 U	11.6 U	11.6 U	11.6 U	11.6 U
2-Methylthiophene	µg/m^3	NE	0.803 U	1.61 U	1.61 U	1.61 U	1.61 UJ	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U
3-Methylthiophene	µg/m^3	NE	0.803 U	1.61 U	1.61 U	1.61 U	1.61 UJ	1.61 U	1.61 U	1.61 U	1.61 U	1.61 U
Naphthalene	µg/m^3	10	1.05 U	2.1 U	2.1 U	2.1 U	2.1 UJ	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
n-Nonane	µg/m^3	1.2	1.05 U	2.1 U	2.1 U	2.1 U	2.1 UJ	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
n-Octane	µg/m^3	2.1	0.934 U	1.87 U	1.87 U	1.87 U	**1.61 J**	1.87 U	1.87 U	1.87 U	**1.88**	1.87 U
Pentane	µg/m^3	NE	0.59 U	1.18 U	**0.295 J**	1.18 U	1.18 UJ	**28.5**	1.18 U	1.18 U	**0.313 J**	**0.331 J**
2-Propanol (Isopropyl Alcohol)	µg/m^3	NE	1.23 U	2.46 U	**0.506 J**	2.46 U	**0.487 J**	2.46 U	2.46 U	**0.501 J**	**0.792 J**	**0.757 J**
Styrene	µg/m^3	0.6	0.852 U	1.7 U	1.7 U	1.7 U	1.7 UJ	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
1,1,2,2-Tetrachloroethane	µg/m^3	0.25	1.37 U	2.75 U	2.75 U	2.75 U	2.75 UJ	2.75 U	2.75 U	2.75 U	2.75 U	2.75 U
Tetrachloroethene (PCE)	µg/m^3	1.6	**7.66**	2.71 U	**1.36 J**	**1.59 J**	2.71 UJ	**1.4 J**	2.71 U	**1.07 J**	2.71 U	2.71 U
1,2,4,5-Tetramethylbenzene	µg/m^3	NE	1.1 U	2.2 U	2.2 U	2.2 U	2.2 UJ	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U
Thiophene	µg/m^3	NE	0.688 U	1.38 U	1.38 U	1.38 U	1.38 UJ	1.38 U	1.38 U	1.38 U	1.38 U	1.38 U
1,1,2-Trichloro-1,2,2-trifluoroethane (F	µg/m^3	3.6	**0.422 J**	3.07 U	3.07 U	3.07 U	3.07 UJ	3.07 U	3.07 U	3.07 U	3.07 U	3.07 U
1,2,4-Trichlorobenzene	µg/m^3	4.8	1.48 U	2.97 U	2.97 U	2.97 U	2.97 UJ	2.97 U	2.97 U	2.97 U	2.97 U	2.97 U
1,1,1-Trichloroethane (TCA)	µg/m^3	0.7	1.09 U	2.18 U	2.18 U	2.18 U	2.18 UJ	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U
1,1,2-Trichloroethane	µg/m^3	0.25	1.09 U	2.18 U	2.18 U	2.18 U	2.18 UJ	2.18 U	2.18 U	2.18 U	2.18 U	2.18 U
Trichloroethene (TCE)	µg/m^3	0.5	1.07 U	2.15 U	2.15 U	2.15 U	2.15 UJ	2.15 U	2.15 U	2.15 U	2.15 U	2.15 U
Trichlorofluoromethane (Freon 11)	µg/m^3	6.1	**1.87**	**1.19 J**	**1.24 J**	**1.06 J**	**1.47 J**	**0.539 J**	**1.12 J**	**0.798 J**	**0.91 J**	**1.11 J**
1,2,3-Trimethylbenzene	µg/m^3	0.6	0.983 U	1.97 U	1.97 U	1.97 U	1.97 UJ	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
1,2,4-Trimethylbenzene	µg/m^3	2.5	0.983 U	1.97 U	1.97 U	1.97 U	1.97 UJ	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
1,3,5-Trimethylbenzene	µg/m^3	1	0.983 U	1.97 U	1.97 U	1.97 U	1.97 UJ	1.97 U	1.97 U	1.97 U	1.97 U	1.97 U
2,2,4-Trimethylpentane (iso-Octane)	µg/m^3	2	0.934 U	1.87 U	1.87 U	1.87 U	1.87 UJ	1.87 U	1.87 U	1.87 U	1.87 U	1.87 U
n-Undecane	µg/m^3	2.3	1.28 U	2.56 U	2.56 U	2.56 U	**1.04 J**	2.56 U	2.56 U	2.56 U	**2.21 J**	2.56 U
Vinyl bromide (Bromoethene)	µg/m^3	NE	0.874 U	1.75 U	1.75 U	1.75 U	1.75 UJ	1.75 U	1.75 U	1.75 U	1.75 U	1.75 U
Vinyl chloride	µg/m^3	0.25	0.511 U	1.02 U	1.02 U	1.02 U	1.02 UJ	1.02 U	1.02 U	1.02 U	1.02 U	1.02 U
Other												
Helium	%	NE	--	--	--	--	--	--	--	0.016 U	--	--

Table 2-1. Soil Vapor Analytical Results - Notes
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Notes:

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

[1] Source: NYSDOH, October 2006. Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes reported in various locations within sampled homes in NYS, 1997-2003 as presented in Table C1. Background values for naphthalene are from the NYSDOH 1997 Control Home Database as presented in Table C3 of the NYSDOH 2006 Guidance.

Bolding indicates a detected result value

NE - not established
-- not analyzed or not applicable

Data qualifiers:
J - estimated value
U - not detected to the reporting limit shown

Table 2-2. Ambient Air Analytical Results
Bay Shore/Brightwaters Former MGP Site
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		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-7	OZAA-7
		Sample Date	7/30/2013	8/21/2013	9/29/2013	10/29/2013	11/26/2013	12/28/2013	1/20/2014	2/28/2014	3/24/2014	4/22/2014	5/19/2014	6/25/2014	7/30/2013	8/21/2013
Analyte	Units	NYSDOH Background Outdoor Air 95th Percentile[1]														
BTEX																
Benzene	µg/m³	5.8	**0.24 J**	**0.534 J**	**0.211 J**	**0.291 J**	**0.479 J**	**0.594 J**	**0.623 J**	**0.489 J**	**0.434 J**	**0.291 J**	**0.211 J**	**0.272 J**	**0.307 J**	**0.556 J**
Toluene	µg/m³	21	**0.773**	**1.6**	**0.513 J**	**1.02**	**0.889**	**0.513 J**	**0.904**	**0.539 J**	**0.497 J**	**0.268 J**	**0.426 J**	**0.252 J**	**0.577 J**	**1.71**
Ethylbenzene	µg/m³	1.9	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
o-Xylene	µg/m³	2.5	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
m/p-Xylene	µg/m³	3.1	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Other VOCs																
Acetaldehyde	µg/m³	NE	**11.5**	**12.3**	**8.47**	**3.6 J**	**3.21 J**	4.5 U	4.5 U	**2.31 J**	**4.97**	**6.41**	**8.5**	**4.52**	**4.27 J**	**5.37**
Acetone	µg/m³	58	**10.7**	**11.6**	**5.91**	**4.87**	**5.61**	**3.56**	**3.21**	**2.4**	**3.35**	**4.37**	**5.51**	**6.03**	**6.84**	**10.6**
Acrolein (propenal)	µg/m³	NE	**0.271 J**	**0.511 J**	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	**0.332 J**
Allyl chloride (3-Chloropropene)	µg/m³	NE	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzothiophene (1-Benzothiophene)	µg/m³	NE	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U
Bromodichloromethane	µg/m³	NE	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	µg/m³	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	µg/m³	0.9	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
1,3-Butadiene	µg/m³	NE	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
Butane	µg/m³	NE	**0.563**	**1.78**	**0.668**	**1.51**	**1.69**	**17.1**	**2.73**	**0.92**	**0.811**	**0.875**	**0.494**	**0.245 J**	**0.48**	**1.71**
t-Butyl alcohol (Tertiary Butyl Alcohol)	µg/m³	NE	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U
Carbon disulfide	µg/m³	NE	**0.14 J**	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	**0.125 J**	0.623 U	0.623 U	0.623 U	0.623 U	**0.109 JB**	0.623 U	0.623 U
Carbon tetrachloride	µg/m³	1	**0.359 J**	**0.44 J**	**0.434 J**	**0.384 J**	**0.44 J**	**0.409 J**	**0.352 J**	**0.434 J**	**0.377 J**	**0.465 J**	**0.453 J**	**0.459 J**	**0.359 J**	**0.434 J**
Chlorobenzene	µg/m³	0.25	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	µg/m³	0.4	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform	µg/m³	0.5	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	µg/m³	4.6	**1.14**	**1.09**	**1.16**	**0.915**	**1.03**	**1.09**	**1.15**	**1.04**	**1.07**	**1.12**	**1.1**	**1.13**	**1.03**	**1.03**
2-Chlorotoluene (o-Chlorotoluene)	µg/m³	NE	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Cryofluorane (Freon 114)	µg/m³	1.3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	µg/m³	3	**0.595 J**	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
n-Decane	µg/m³	3.6	1.16 U	**0.372 J**	1.16 U	1.16 U	**0.402 J**	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	**0.745 J**
Dibromochloromethane	µg/m³	NE	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane (EDB)	µg/m³	0.25	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	µg/m³	0.9	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	µg/m³	0.7	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	µg/m³	0.8	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane (Freon 12)	µg/m³	11	**1.97**	**1.48**	**2.21**	**2.25**	**2.47**	**2.2**	**1.14**	**1.35**	**1.57**	**1.3**	**1.25**	**2.29**	**1.94**	**1.46**
1,1-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
cis-1,2-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
trans-1,2-Dichloroethene	µg/m³	NE	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
1,2-Dichloropropane	µg/m³	0.25	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
cis-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
trans-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
1,4-Dioxane	µg/m³	NE	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
n-Dodecane	µg/m³	7.6	1.39 U	**0.376 J**	**0.376 J**	1.39 U	1.39 U	1.39 U	1.39 U	3.48 U	3.48 U	1.39 U	3.48 U	1.39 U	1.39 U	**1.18 J**
Ethanol	µg/m³	220	**3.3**	**6.52**	**2.98**	**3.17**	**3.28**	**2.11**	**3.07**	**1.38 J**	**1.84 J**	**1.49 J**	**3.03**	**1.62 J**	**2.39**	**5.78**
2-Ethylthiophene	µg/m³	NE	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U
4-Ethyltoluene (p-Ethyltoluene)	µg/m³	NE	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U

Table 2-2. Ambient Air Analytical Results
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		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-6	OZAA-7	OZAA-7
		Sample Date	7/30/2013	8/21/2013	9/29/2013	10/29/2013	11/26/2013	12/28/2013	1/20/2014	2/28/2014	3/24/2014	4/22/2014	5/19/2014	6/25/2014	7/30/2013	8/21/2013
Analyte	**Units**	**NYSDOH Background Outdoor Air 95th Percentile[1]**														
BTEX																
n-Heptane	µg/m³	5.1	0.82 U	**0.311 J**	0.82 U	0.82 U	0.82 U	**0.246 J**	**0.242 J**	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**0.373 J**
Hexachlorobutadiene (C-46)	µg/m³	7	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
n-Hexane	µg/m³	3.6	**0.955**	**0.5 J**	**0.278 J**	**0.444 J**	**1.54**	**3.24**	**0.391 J**	0.705 U	**0.219 J**	0.705 U	**0.398 J**	0.705 U	**0.321 J**	**0.493 J**
2-Hexanone	µg/m³	NE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Indane	µg/m³	NE	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U
Indene	µg/m³	NE	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
Methyl ethyl ketone (2-Butanone)	µg/m³	17	**1.16**	**1.68**	**0.557 J**	**0.519 J**	**0.416 J**	**0.475 J**	**0.51 J**	**0.466 J**	**0.879**	**0.72**	**0.805**	**0.557 J**	**0.776**	**1.24**
Methyl tert-butyl ether (MTBE)	µg/m³	5.9	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
4-Methyl-2-pentanone (MIBK)	µg/m³	2.9	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	µg/m³	2.9	**8.2**	3.47 U	**1.05 J**	3.47 U	**2.53 J**	3.47 U	3.47 U	**1.64 J**	3.47 U	3.47 U	**4.72**	3.47 U	**1.09 J**	**1.28 J**
1-Methylnaphthalene	µg/m³	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylnaphthalene	µg/m³	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
3-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
Naphthalene	µg/m³	10	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	**0.304 J**	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Nonane	µg/m³	1.2	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Octane	µg/m³	2.1	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	**0.789 J**	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
Pentane	µg/m³	NE	**0.714**	**1.67**	**0.575 J**	**1.08**	**1.05**	**0.962**	**1.2**	**0.41 J**	**0.401 J**	**0.401 J**	**0.336 J**	**0.301 J**	**0.481 J**	**1.63**
2-Propanol (Isopropyl Alcohol)	µg/m³	NE	**0.546 J**	**0.858 J**	**0.349 J**	**1.16 J**	1.23 U	1.23 U	**0.828 J**	**0.29 J**	**0.243 J**	**0.334 JB**	1.23 U	1.23 U	**0.536 J**	**0.823 J**
Styrene	µg/m³	0.6	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
1,1,2,2-Tetrachloroethane	µg/m³	0.25	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
Tetrachloroethene (PCE)	µg/m³	1.6	1.36 U	**0.522 J**	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	**0.556 J**
1,2,4,5-Tetramethylbenzene	µg/m³	NE	1.1 U	2.74 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.74 U	2.74 U	1.1 U	2.74 U	1.1 U	1.1 U	2.74 U
Thiophene	µg/m³	NE	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/m³	3.6	**0.583 J**	**0.583 J**	**0.491 J**	1.53 U	**0.544 J**	**0.445 J**	**0.422 J**	**0.437 J**	**0.506 J**	**0.506 J**	**0.521 J**	1.53 U	**0.521 J**	**0.552 J**
1,2,4-Trichlorobenzene	µg/m³	4.8	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,1,1-Trichloroethane (TCA)	µg/m³	0.7	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1,2-Trichloroethane	µg/m³	0.25	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
Trichloroethene (TCE)	µg/m³	0.5	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane (Freon 11)	µg/m³	6.1	**1.13**	**1.69**	**1.26**	**1.16**	**1.3**	**1.21**	**1.32**	**0.995 J**	**1.02 J**	**1.36**	**1.1 J**	**1.42**	**1.07 J**	**1.54**
1,2,3-Trimethylbenzene	µg/m³	0.6	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2,4-Trimethylbenzene	µg/m³	2.5	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3,5-Trimethylbenzene	µg/m³	1	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
2,2,4-Trimethylpentane (iso-Octane)	µg/m³	2	0.934 U	**0.972**	**0.509 J**	**0.378 J**	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	**0.308 J**	**1.02**
n-Undecane	µg/m³	2.3	1.28 U	**0.422 J**	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	**0.684 J**
Vinyl bromide (Bromoethene)	µg/m³	NE	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl chloride	µg/m³	0.25	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U

Table 2-2. Ambient Air Analytical Results
Bay Shore/Brightwaters Former MGP Site
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		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZAA-7	OZAA-7	OZAA-7	OZAA-7	OZAA-7	OZAA-7	OZAA-7	OZAA-7	OZAA-7	OZAA-7	OZAA-8	OZAA-8	OZAA-8	OZAA-8
		Sample Date	9/29/2013	10/29/2013	11/26/2013	12/28/2013	1/20/2014	2/28/2014	3/24/2014	4/22/2014	5/19/2014	6/25/2014	7/30/2013	8/21/2013	9/29/2013	10/29/2013
Analyte	Units	NYSDOH Background Outdoor Air 95th Percentile[1]														
BTEX																
Benzene	µg/m³	5.8	**0.275 J**	**0.323 J**	**0.696**	**0.601 J**	**0.843**	**0.518 J**	**0.431 J**	**0.636 J**	**0.243 J**	**0.233 J**	**0.246 J**	**0.489 J**	**0.176 J**	**0.383 J**
Toluene	µg/m³	21	**0.464 J**	**0.791**	**2.44**	**0.667 J**	**1.34**	**0.584 J**	**0.369 J**	**0.607 J**	**0.497 J**	**0.52 J**	**0.742 J**	**1.81**	**0.452 J**	**1.24**
Ethylbenzene	µg/m³	1.9	0.869 U	0.869 U	**0.326 J**	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
o-Xylene	µg/m³	2.5	0.869 U	0.869 U	**0.43 J**	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
m/p-Xylene	µg/m³	3.1	1.74 U	1.74 U	**1.14 J**	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**0.63 J**	1.74 U	**0.612 J**
Other VOCs																
Acetaldehyde	µg/m³	NE	**3.17 J**	**1.87 J**	**3.15 J**	4.5 U	4.5 U	**2.85 J**	**4.76**	**4.16 J**	**6.07**	**16.5**	**5.69**	**11.5**	**7.26**	**10.7**
Acetone	µg/m³	58	**6.37**	**3.73**	**9.22**	**4.63**	**3.66**	**3.52**	**2.8**	**8.69**	**5.25**	**7.03**	**9.55**	**11**	**6.32**	**6.91**
Acrolein (propenal)	µg/m³	NE	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	**0.289 J**	1.15 U	1.15 U
Allyl chloride (3-Chloropropene)	µg/m³	NE	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzothiophene (1-Benzothiophene)	µg/m³	NE	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U
Bromodichloromethane	µg/m³	NE	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	µg/m³	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	µg/m³	0.9	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
1,3-Butadiene	µg/m³	NE	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
Butane	µg/m³	NE	**0.727**	**1.17**	**2.32**	**74.6**	**3.42**	**0.899**	**0.756**	**2.01**	**0.563**	**0.409 J**	**0.773**	**1.54**	**0.658**	**2.13**
t-Butyl alcohol (Tertiary Butyl Alcohol)	µg/m³	NE	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	**0.618**
Carbon disulfide	µg/m³	NE	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	**0.131 JB**	**0.128 J**	0.623 U	0.623 U	0.623 U
Carbon tetrachloride	µg/m³	1	**0.484 J**	**0.409 J**	**0.491 J**	**0.365 J**	**0.377 J**	**0.39 J**	**0.409 J**	**0.591 J**	**0.465 J**	**0.554 J**	**0.327 J**	**0.478 J**	**0.434 J**	**0.396 J**
Chlorobenzene	µg/m³	0.25	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	µg/m³	0.4	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform	µg/m³	0.5	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	µg/m³	4.6	**1.11**	**0.971**	**1.01**	**1.08**	**1.17**	**1.02**	**1.06**	**1.48**	**1.07**	**1.22**	**1.19**	**0.921**	**1.18**	**0.962**
2-Chlorotoluene (o-Chlorotoluene)	µg/m³	NE	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Cryofluorane (Freon 114)	µg/m³	1.3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	µg/m³	3	0.688 U	0.688 U	0.688 U	**0.262 J**	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	**0.43 J**	0.688 U	0.688 U	0.688 U
n-Decane	µg/m³	3.6	1.16 U	1.16 U	**0.291 J**	1.16 U	1.16 U	**0.285 J**	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	**0.396 J**	1.16 U
Dibromochloromethane	µg/m³	NE	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane (EDB)	µg/m³	0.25	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	µg/m³	0.9	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	µg/m³	0.7	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	µg/m³	0.8	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane (Freon 12)	µg/m³	11	**2.36**	**2.35**	**2.34**	**1.97**	**1.57**	**1.34**	**1.48**	**1.43**	**2.05**	**1.68**	**2.24**	**1.56**	**2.5**	**2.21**
1,1-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
cis-1,2-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
trans-1,2-Dichloroethene	µg/m³	NE	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
1,2-Dichloropropane	µg/m³	0.25	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
cis-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
trans-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
1,4-Dioxane	µg/m³	NE	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
n-Dodecane	µg/m³	7.6	1.39 U	1.39 U	1.39 U	1.39 U	1.39 U	3.48 U	3.48 U	1.39 U	3.48 U	1.39 U	1.39 U	3.48 U	**0.836 J**	1.39 U
Ethanol	µg/m³	220	**2.58**	**2.64**	**3.77**	**2.79**	**10.3**	**1.92**	**1.28 J**	**2.13**	**1.9**	**5.01**	**3.32**	**7.01**	**2.56**	**5.62**
2-Ethylthiophene	µg/m³	NE	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U
4-Ethyltoluene (p-Ethyltoluene)	µg/m³	NE	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U

Table 2-2. Ambient Air Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZAA-7	OZAA-7	OZAA-7	OZAA-7	OZAA-7	OZAA-7	OZAA-7	OZAA-7	OZAA-7	OZAA-7	OZAA-8	OZAA-8	OZAA-8	OZAA-8
		Sample Date	9/29/2013	10/29/2013	11/26/2013	12/28/2013	1/20/2014	2/28/2014	3/24/2014	4/22/2014	5/19/2014	6/25/2014	7/30/2013	8/21/2013	9/29/2013	10/29/2013
Analyte	**Units**	**NYSDOH Background Outdoor Air 95th Percentile[1]**														
BTEX																
n-Heptane	µg/m³	5.1	0.82 U	0.82 U	**0.246 J**	**0.803 J**	**0.336 J**	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**0.652 J**
Hexachlorobutadiene (C-46)	µg/m³	7	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
n-Hexane	µg/m³	3.6	**0.257 J**	**0.254 J**	**0.726**	**16**	**1.06**	0.705 U	0.705 U	**0.367 J**	**0.289 J**	**0.211 J**	**0.317 J**	**0.916**	**0.296 J**	**0.522 J**
2-Hexanone	µg/m³	NE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Indane	µg/m³	NE	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U
Indene	µg/m³	NE	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
Methyl ethyl ketone (2-Butanone)	µg/m³	17	**0.407 J**	**0.436 J**	**0.316 J**	**0.755**	**0.664**	**0.466 J**	**0.507 J**	**0.693**	**0.613**	**0.799**	**0.926**	**1.48**	**0.504 J**	**1.34**
Methyl tert-butyl ether (MTBE)	µg/m³	5.9	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
4-Methyl-2-pentanone (MIBK)	µg/m³	2.9	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	µg/m³	2.9	3.47 U	3.47 U	**2.9 J**	**1.4 J**	**19.1**	**1.5 J**	3.47 U	**1.14 JB**	**1.28 J**	**1.73 J**	**1.29 J**	**8.58**	**1.51 J**	3.47 U
1-Methylnaphthalene	µg/m³	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylnaphthalene	µg/m³	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
3-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
Naphthalene	µg/m³	10	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Nonane	µg/m³	1.2	1.05 U	1.05 U	**0.362 J**	**2.14**	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Octane	µg/m³	2.1	0.934 U	0.934 U	0.934 U	**6.12**	0.934 U	0.934 U	0.934 U	0.934 U	**0.238 J**	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
Pentane	µg/m³	NE	**0.637**	**0.711**	**1.27**	**1.19**	**1.87**	**0.375 J**	**0.351 J**	**1.04**	**0.381 J**	**0.549 J**	**0.977**	**1.84**	**0.567 J**	**1.55**
2-Propanol (Isopropyl Alcohol)	µg/m³	NE	**1.65**	**1.47**	1.23 U	1.23 U	**1.15 J**	**0.295 J**	**0.214 J**	**0.669 JB**	1.23 U	1.23 U	**0.533 J**	**1.19 J**	**0.29 J**	**1.3**
Styrene	µg/m³	0.6	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
1,1,2,2-Tetrachloroethane	µg/m³	0.25	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
Tetrachloroethene (PCE)	µg/m³	1.6	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	**0.515 J**	1.36 U	1.36 U
1,2,4,5-Tetramethylbenzene	µg/m³	NE	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.74 U	2.74 U	1.1 U	2.74 U	1.1 U	1.1 U	2.74 U	1.1 U	1.1 U
Thiophene	µg/m³	NE	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/m³	3.6	**0.514 J**	1.53 U	**0.56 J**	**0.468 J**	**0.514 J**	**0.422 J**	**0.506 J**	**0.583 J**	**0.452 J**	**0.943 J**	**0.575 J**	**0.498 J**	**0.544 J**	1.53 U
1,2,4-Trichlorobenzene	µg/m³	4.8	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,1,1-Trichloroethane (TCA)	µg/m³	0.7	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1,2-Trichloroethane	µg/m³	0.25	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
Trichloroethene (TCE)	µg/m³	0.5	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane (Freon 11)	µg/m³	6.1	**1.46**	**1.19**	**1.38**	**1.17**	**1.32**	**1.02 J**	**1.03 J**	**1.6**	**1.13**	**1.62**	**1.23**	**1.56**	**1.36**	**1.28**
1,2,3-Trimethylbenzene	µg/m³	0.6	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2,4-Trimethylbenzene	µg/m³	2.5	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3,5-Trimethylbenzene	µg/m³	1	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
2,2,4-Trimethylpentane (iso-Octane)	µg/m³	2	**0.481 J**	0.934 U	**0.383 J**	0.934 U	**0.35 J**	0.934 U	0.934 U	**0.612 J**	0.934 U	**0.42 J**	0.934 U	**1.08**	**0.458 J**	**0.43 J**
n-Undecane	µg/m³	2.3	1.28 U	1.28 U	1.28 U	**0.671 J**	1.28 U	1.28 U	1.28 U	1.28 U	**0.377 J**	1.28 U	1.28 U	**0.39 J**	1.28 U	1.28 U
Vinyl bromide (Bromoethene)	µg/m³	NE	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl chloride	µg/m³	0.25	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U

Table 2-2. Ambient Air Analytical Results
Bay Shore/Brightwaters Former MGP Site
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		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZAA-8	OZAA-8	OZAA-8	OZAA-8	OZAA-8	OZAA-8	OZAA-8	OZAA-8	OZAA-9	OZAA-9	OZAA-9	OZAA-9	OZAA-9	OZAA-9
		Sample Date	11/26/2013	12/28/2013	1/20/2014	2/28/2014	3/24/2014	4/22/2014	5/19/2014	6/25/2014	7/30/2013	8/21/2013	9/29/2013	10/29/2013	11/26/2013	12/28/2013
Analyte	**Units**	**NYSDOH Background Outdoor Air 95th Percentile[1]**														
BTEX																
Benzene	µg/m³	5.8	**0.466 J**	**0.565 J**	**0.623 J**	**0.518 J**	**0.47 J**	**0.281 J**	**0.227 J**	0.639 U	**0.313 J**	**0.549 J**	**0.208 J**	**0.294 J**	**0.482 J**	**0.623 J**
Toluene	µg/m³	21	**0.742 J**	**0.516 J**	**0.859**	**0.701 J**	**0.49 J**	**0.252 J**	**0.471 J**	0.754 U	**0.569 J**	**1.65**	**0.513 J**	**0.969**	**1.09**	**0.678 J**
Ethylbenzene	µg/m³	1.9	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
o-Xylene	µg/m³	2.5	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
m/p-Xylene	µg/m³	3.1	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Other VOCs																
Acetaldehyde	µg/m³	NE	**2.18 J**	**4.32 J**	4.5 U	**6.59**	**5.66**	**2.95 J**	**2.25 J**	**3.44 J**	**14.6**	**4.88**	**10.4**	**5.57**	**4.23 J**	**6.72**
Acetone	µg/m³	58	**3.63**	**3.33**	**4.23**	**3.14**	**3.11**	**4.68**	**6.37**	**5.75**	**8.58**	**10.3**	**6.25**	**3.9**	**3.99**	**4.42**
Acrolein (propenal)	µg/m³	NE	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	**0.282 J**	**0.371 J**	1.15 U	1.15 U	1.15 U	1.15 U
Allyl chloride (3-Chloropropene)	µg/m³	NE	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzothiophene (1-Benzothiophene)	µg/m³	NE	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U
Bromodichloromethane	µg/m³	NE	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	µg/m³	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	µg/m³	0.9	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
1,3-Butadiene	µg/m³	NE	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
Butane	µg/m³	NE	**1.41**	**4.33**	**2.73**	**1.03**	**0.849**	**1.02**	**0.606**	**0.212 J**	**0.554**	**1.72**	**0.756**	**1.27**	**1.65**	**5.23**
t-Butyl alcohol (Tertiary Butyl Alcohol)	µg/m³	NE	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U
Carbon disulfide	µg/m³	NE	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	**0.118 JB**	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Carbon tetrachloride	µg/m³	1	**0.459 J**	**0.371 J**	**0.478 J**	**0.428 J**	**0.459 J**	**0.528 J**	**0.453 J**	**0.522 J**	**0.315 J**	**0.447 J**	**0.478 J**	**0.478 J**	**0.484 J**	**0.352 J**
Chlorobenzene	µg/m³	0.25	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	µg/m³	0.4	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform	µg/m³	0.5	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	µg/m³	4.6	**0.977**	**1**	**1.2**	**0.999**	**1.14**	**1.37**	**1.08**	**1.31**	**1.21**	**1.03**	**1.16**	**0.933**	**1**	**1.09**
2-Chlorotoluene (o-Chlorotoluene)	µg/m³	NE	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Cryofluorane (Freon 114)	µg/m³	1.3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	µg/m³	3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
n-Decane	µg/m³	3.6	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	**0.32 J**	1.16 U	1.16 U	1.16 U	1.16 U
Dibromochloromethane	µg/m³	NE	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane (EDB)	µg/m³	0.25	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	µg/m³	0.9	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	µg/m³	0.7	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	µg/m³	0.8	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane (Freon 12)	µg/m³	11	**2.33**	**1.76**	**1.54**	**1.39**	**1.79**	**1.38**	**1.21**	**2.27**	**2.5**	**1.63**	**2.42**	**2.23**	**2.47**	**1.54**
1,1-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
cis-1,2-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
trans-1,2-Dichloroethene	µg/m³	NE	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
1,2-Dichloropropane	µg/m³	0.25	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
cis-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
trans-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
1,4-Dioxane	µg/m³	NE	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
n-Dodecane	µg/m³	7.6	1.39 U	1.39 U	1.39 U	3.48 U	3.48 U	1.39 U	3.48 U	1.39 U	1.39 U	3.48 U	1.39 U	1.39 U	1.39 U	1.39 U
Ethanol	µg/m³	220	**2.83**	**2.17**	**3.22**	**1.7 J**	**1.5 J**	**1.45 J**	**1.92**	**1.58 J**	**4.37**	**5.99**	**2.79**	**3.01**	**2.83**	**2.9**
2-Ethylthiophene	µg/m³	NE	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U
4-Ethyltoluene (p-Ethyltoluene)	µg/m³	NE	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U

Table 2-2. Ambient Air Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZAA-8	OZAA-8	OZAA-8	OZAA-8	OZAA-8	OZAA-8	OZAA-8	OZAA-8	OZAA-9	OZAA-9	OZAA-9	OZAA-9	OZAA-9	OZAA-9
		Sample Date	11/26/2013	12/28/2013	1/20/2014	2/28/2014	3/24/2014	4/22/2014	5/19/2014	6/25/2014	7/30/2013	8/21/2013	9/29/2013	10/29/2013	11/26/2013	12/28/2013
Analyte	Units	NYSDOH Background Outdoor Air 95th Percentile[1]														
BTEX																
n-Heptane	µg/m³	5.1	0.82 U	0.82 U	**0.279 J**	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**0.34 J**	0.82 U	0.82 U	0.82 U	0.82 U
Hexachlorobutadiene (C-46)	µg/m³	7	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
n-Hexane	µg/m³	3.6	**0.483 J**	**0.761**	**0.363 J**	0.705 U	0.705 U	0.705 U	**0.268 J**	0.705 U	**0.405 J**	**0.652 J**	**0.419 J**	**0.441 J**	**0.423 J**	**1.06**
2-Hexanone	µg/m³	NE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Indane	µg/m³	NE	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U
Indene	µg/m³	NE	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
Methyl ethyl ketone (2-Butanone)	µg/m³	17	**0.383 J**	**0.575 J**	**0.575 J**	**0.92**	**1.01**	**0.436 J**	**0.475 J**	**0.431 J**	**1.31**	**1.15**	**0.643**	**0.519 J**	0.59 U	**0.935**
Methyl tert-butyl ether (MTBE)	µg/m³	5.9	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
4-Methyl-2-pentanone (MIBK)	µg/m³	2.9	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	µg/m³	2.9	**1.22 J**	3.47 U	3.47 U	3.47 U	3.47 U	**1.1 JB**	3.47 U	**1.58 J**	**3.14 J**	**1.44 J**	**2.97 J**	**1.91 J**	3.47 U	3.47 U
1-Methylnaphthalene	µg/m³	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylnaphthalene	µg/m³	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
3-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
Naphthalene	µg/m³	10	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Nonane	µg/m³	1.2	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Octane	µg/m³	2.1	0.934 U	**0.201 J**	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	**0.262 J**
Pentane	µg/m³	NE	**0.75**	**0.873**	**1.19**	**0.543 J**	**0.375 J**	**0.454 J**	**0.446 J**	**0.224 J**	**0.655**	**1.76**	**0.614**	**0.868**	**0.853**	**1.09**
2-Propanol (Isopropyl Alcohol)	µg/m³	NE	1.23 U	1.23 U	1.23 U	**0.248 J**	**0.202 J**	**1.44 B**	**0.971 J**	**1.07 J**	**0.469 J**	**0.836 J**	**0.376 J**	**1.24**	1.23 U	1.23 U
Styrene	µg/m³	0.6	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
1,1,2,2-Tetrachloroethane	µg/m³	0.25	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
Tetrachloroethene (PCE)	µg/m³	1.6	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U
1,2,4,5-Tetramethylbenzene	µg/m³	NE	1.1 U	1.1 U	1.1 U	2.74 U	2.74 U	1.1 U	2.74 U	1.1 U	1.1 U	2.74 U	1.1 U	1.1 U	1.1 U	1.1 U
Thiophene	µg/m³	NE	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/m³	3.6	**0.468 J**	1.53 U	**0.452 J**	**0.46 J**	**0.46 J**	**0.636 J**	**0.498 J**	**0.682 J**	**0.552 J**	**0.56 J**	**0.575 J**	**0.498 J**	**0.598 J**	**0.46 J**
1,2,4-Trichlorobenzene	µg/m³	4.8	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,1,1-Trichloroethane (TCA)	µg/m³	0.7	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1,2-Trichloroethane	µg/m³	0.25	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
Trichloroethene (TCE)	µg/m³	0.5	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane (Freon 11)	µg/m³	6.1	**1.27**	**1.23**	**1.4**	**1.04 J**	**1.08 J**	**1.52**	**1.16**	**1.69**	**1.3**	**1.64**	**1.36**	**1.26**	**1.25**	**1.21**
1,2,3-Trimethylbenzene	µg/m³	0.6	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2,4-Trimethylbenzene	µg/m³	2.5	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3,5-Trimethylbenzene	µg/m³	1	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
2,2,4-Trimethylpentane (iso-Octane)	µg/m³	2	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	**0.378 J**	**0.958**	**0.481 J**	0.934 U	0.934 U	0.934 U
n-Undecane	µg/m³	2.3	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	**0.518 J**	1.28 U	1.28 U	1.28 U	1.28 U
Vinyl bromide (Bromoethene)	µg/m³	NE	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl chloride	µg/m³	0.25	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U

Table 2-2. Ambient Air Analytical Results
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		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZAA-9	OZAA-9	OZAA-9	OZAA-9	OZAA-9	OZAA-9	OZAA-10	OZAA-10	OZAA-10	OZAA-10	OZAA-10	OZAA-10	OZAA-10	OZAA-10
		Sample Date	1/20/2014	2/28/2014	3/24/2014	4/22/2014	5/19/2014	6/25/2014	7/30/2013	8/21/2013	9/29/2013	10/29/2013	11/26/2013	12/28/2013	1/20/2014	2/28/2014
Analyte	**Units**	**NYSDOH Background Outdoor Air 95th Percentile[1]**														
BTEX																
Benzene	µg/m³	5.8	**0.684**	**0.578 J**	**0.409 J**	**0.479 J**	**0.201 J**	**0.502 J**	**0.259 J**	**0.46 J**	0.639 U	**0.335 J**	**0.415 J**	**0.546 J**	**0.601 J**	**0.489 J**
Toluene	µg/m³	21	**0.984**	**0.701 J**	**0.32 J**	**0.46 J**	**0.497 J**	**0.716 J**	**0.505 J**	**1.61**	**0.411 J**	**1.06**	**0.637 J**	**0.539 J**	**0.81**	**0.505 J**
Ethylbenzene	µg/m³	1.9	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
o-Xylene	µg/m³	2.5	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
m/p-Xylene	µg/m³	3.1	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Other VOCs																
Acetaldehyde	µg/m³	NE	4.5 U	**3.78 J**	**1.39 J**	**5.15**	**8.22**	**4.68**	**18.9**	**13.4**	**8.86**	**2.27 J**	**3.82 J**	**5.3**	4.5 U	**5.39**
Acetone	µg/m³	58	**2.8**	**3.23**	**2.47**	**10.6**	**5.15**	**7.63**	**9.29**	**11.1**	**5.49**	**4.8**	**3.78**	**4.51**	**3.54**	**2.83**
Acrolein (propenal)	µg/m³	NE	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	**0.358 J**	**0.44 J**	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U
Allyl chloride (3-Chloropropene)	µg/m³	NE	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzothiophene (1-Benzothiophene)	µg/m³	NE	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U
Bromodichloromethane	µg/m³	NE	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	µg/m³	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	µg/m³	0.9	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
1,3-Butadiene	µg/m³	NE	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
Butane	µg/m³	NE	**2.42**	**1.02**	**0.706**	**1.88**	**0.504**	**0.478**	**0.404 J**	**1.6**	**0.571**	**2.04**	**1.36**	**2.16**	**2.24**	**0.896**
t-Butyl alcohol (Tertiary Butyl Alcohol)	µg/m³	NE	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	**0.524 J**	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U
Carbon disulfide	µg/m³	NE	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	**0.109 JB**	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Carbon tetrachloride	µg/m³	1	**0.421 J**	**0.377 J**	**0.428 J**	**0.579 J**	**0.434 J**	**0.604 J**	**0.327 J**	**0.434 J**	**0.503 J**	**0.39 J**	**0.459 J**	**0.346 J**	**0.434 J**	**0.371 J**
Chlorobenzene	µg/m³	0.25	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	µg/m³	0.4	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform	µg/m³	0.5	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	µg/m³	4.6	**0.948**	**1.08**	**1.03**	**1.63**	**1.06**	**1.25**	**1.09**	**0.962**	**1.01**	**0.882**	**0.952**	**1.1**	**0.929**	**1.02**
2-Chlorotoluene (o-Chlorotoluene)	µg/m³	NE	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Cryofluorane (Freon 114)	µg/m³	1.3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	µg/m³	3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	**0.578 J**	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
n-Decane	µg/m³	3.6	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	1.16 U	**0.361 J**	1.16 U	1.16 U	1.16 U	**0.303 J**	1.16 U	1.16 U
Dibromochloromethane	µg/m³	NE	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane (EDB)	µg/m³	0.25	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	µg/m³	0.9	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	µg/m³	0.7	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	µg/m³	0.8	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane (Freon 12)	µg/m³	11	**2.6**	**1.39**	**2.15**	**1.61**	**2.05**	**1.64**	**2.14**	**1.73**	**2.04**	**2.23**	**2.43**	**1.83**	**2.78**	**1.42**
1,1-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
cis-1,2-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
trans-1,2-Dichloroethene	µg/m³	NE	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
1,2-Dichloropropane	µg/m³	0.25	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
cis-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
trans-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
1,4-Dioxane	µg/m³	NE	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
n-Dodecane	µg/m³	7.6	1.39 U	3.48 U	3.48 U	1.39 U	3.48 U	1.39 U	1.39 U	**0.362 J**	1.39 U	1.39 U	1.39 U	1.39 U	1.39 U	3.48 U
Ethanol	µg/m³	220	**2.62**	**5.11**	1.88 U	**1.92**	**2.19**	**4.45**	**4.15**	**5.88**	**2**	**3.39**	**2.88**	**2.3**	**2.64**	**1.35 J**
2-Ethylthiophene	µg/m³	NE	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U
4-Ethyltoluene (p-Ethyltoluene)	µg/m³	NE	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U

Table 2-2. Ambient Air Analytical Results
Bay Shore/Brightwaters Former MGP Site
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		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZAA-9	OZAA-9	OZAA-9	OZAA-9	OZAA-9	OZAA-9	OZAA-10	OZAA-10	OZAA-10	OZAA-10	OZAA-10	OZAA-10	OZAA-10	OZAA-10
		Sample Date	1/20/2014	2/28/2014	3/24/2014	4/22/2014	5/19/2014	6/25/2014	7/30/2013	8/21/2013	9/29/2013	10/29/2013	11/26/2013	12/28/2013	1/20/2014	2/28/2014
Analyte	**Units**	**NYSDOH Background Outdoor Air 95th Percentile[1]**														
BTEX																
n-Heptane	µg/m³	5.1	**0.299 J**	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**0.307 J**	0.82 U	0.82 U	0.82 U	0.82 U	**0.266 J**	0.82 U
Hexachlorobutadiene (C-46)	µg/m³	7	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
n-Hexane	µg/m³	3.6	**0.465 J**	**0.557 J**	0.705 U	**0.243 J**	**0.296 J**	**0.479 J**	**0.257 J**	**0.518 J**	**0.278 J**	**0.412 J**	**0.345 J**	**0.285 J**	**0.391 J**	0.705 U
2-Hexanone	µg/m³	NE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Indane	µg/m³	NE	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U
Indene	µg/m³	NE	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
Methyl ethyl ketone (2-Butanone)	µg/m³	17	**0.404 J**	**0.596**	**0.395 J**	**0.643**	**0.905**	**0.525 J**	**1.99**	**1.47**	**0.557 J**	**0.448 J**	**0.348 J**	**0.587 J**	**0.54 J**	**0.687**
Methyl tert-butyl ether (MTBE)	µg/m³	5.9	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
4-Methyl-2-pentanone (MIBK)	µg/m³	2.9	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	µg/m³	2.9	3.47 U	**13.8**	3.47 U	**1.15 JB**	**2.71 J**	**3.33 J**	**2 J**	**1.57 J**	3.47 U	3.47 U	3.47 U	**1.11 J**	3.47 U	**1.05 J**
1-Methylnaphthalene	µg/m³	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylnaphthalene	µg/m³	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
3-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
Naphthalene	µg/m³	10	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Nonane	µg/m³	1.2	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Octane	µg/m³	2.1	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
Pentane	µg/m³	NE	**1.09**	**0.617**	**0.289 J**	**0.885**	**0.363 J**	**1.1**	**0.419 J**	**1.61**	**0.478 J**	**1.29**	**0.747**	**0.868**	**0.944**	**0.372 J**
2-Propanol (Isopropyl Alcohol)	µg/m³	NE	**1.49**	**0.612 J**	**0.302 J**	**0.376 JB**	**0.322 J**	**0.954 J**	**0.551 J**	**0.85 J**	**0.27 J**	**5.24**	1.23 U	1.23 U	**0.41 J**	**0.246 J**
Styrene	µg/m³	0.6	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
1,1,2,2-Tetrachloroethane	µg/m³	0.25	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
Tetrachloroethene (PCE)	µg/m³	1.6	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U	**0.576 J**	1.36 U	1.36 U	1.36 U	1.36 U	**0.522 J**	1.36 U
1,2,4,5-Tetramethylbenzene	µg/m³	NE	1.1 U	2.74 U	2.74 U	1.1 U	2.74 U	1.1 U	1.1 U	2.74 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.74 U
Thiophene	µg/m³	NE	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/m³	3.6	**0.468 J**	**0.46 J**	**0.491 J**	**0.636 J**	**0.491 J**	**0.613 J**	**0.483 J**	**0.69 J**	**0.452 J**	**0.46 J**	**0.452 J**	**0.445 J**	1.53 U	**0.46 J**
1,2,4-Trichlorobenzene	µg/m³	4.8	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,1,1-Trichloroethane (TCA)	µg/m³	0.7	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1,2-Trichloroethane	µg/m³	0.25	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
Trichloroethene (TCE)	µg/m³	0.5	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane (Freon 11)	µg/m³	6.1	**1.08 J**	**1.03 J**	**1.12 J**	**1.6**	**1.1 J**	**1.64**	**1.12**	**1.58**	**1.18**	**1.15**	**1.3**	**1.22**	**1.14**	**0.989 J**
1,2,3-Trimethylbenzene	µg/m³	0.6	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2,4-Trimethylbenzene	µg/m³	2.5	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3,5-Trimethylbenzene	µg/m³	1	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
2,2,4-Trimethylpentane (iso-Octane)	µg/m³	2	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	**3.59**	0.934 U	**0.897 J**	**0.434 J**	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
n-Undecane	µg/m³	2.3	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U
Vinyl bromide (Bromoethene)	µg/m³	NE	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl chloride	µg/m³	0.25	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U

Table 2-2. Ambient Air Analytical Results
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		Operable Unit	OU1	OU1	OU1	OU1	OU2
		Sample Name	OZAA-10	OZAA-10	OZAA-10	OZAA-10	OU2AA-06
		Sample Date	3/24/2014	4/22/2014	5/19/2014	6/25/2014	11/11/2013
Analyte	Units	NYSDOH Background Outdoor Air 95th Percentile[1]					
BTEX							
Benzene	µg/m³	5.8	**0.358 J**	**0.272 J**	**0.179 J**	0.639 U	**0.463 J**
Toluene	µg/m³	21	**0.354 J**	**0.271 J**	**0.362 J**	0.754 U	**1.1**
Ethylbenzene	µg/m³	1.9	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
o-Xylene	µg/m³	2.5	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
m/p-Xylene	µg/m³	3.1	1.74 U	1.74 U	1.74 U	1.74 U	**0.604 J**
Other VOCs							
Acetaldehyde	µg/m³	NE	**4.05 J**	**6.43**	**2.36 J**	**14.8**	**2.95 J**
Acetone	µg/m³	58	**2.8**	**5.23**	**4.8**	**6.32**	**4.37**
Acrolein (propenal)	µg/m³	NE	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U
Allyl chloride (3-Chloropropene)	µg/m³	NE	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzothiophene (1-Benzothiophene)	µg/m³	NE	2.74 U	2.74 U	2.74 U	2.74 U	2.74 U
Bromodichloromethane	µg/m³	NE	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	µg/m³	NE	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	µg/m³	0.9	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
1,3-Butadiene	µg/m³	NE	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
Butane	µg/m³	NE	**0.694**	**1.02**	**0.395 J**	**0.242 J**	**1.54**
t-Butyl alcohol (Tertiary Butyl Alcohol)	µg/m³	NE	0.606 U	0.606 U	0.606 U	0.606 U	0.606 U
Carbon disulfide	µg/m³	NE	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Carbon tetrachloride	µg/m³	1	**0.428 J**	**0.522 J**	**0.44 J**	**0.44 J**	**0.491 J**
Chlorobenzene	µg/m³	0.25	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	µg/m³	0.4	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform	µg/m³	0.5	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	µg/m³	4.6	**1.04**	**1.51**	**1.04**	**1.3**	**0.942**
2-Chlorotoluene (o-Chlorotoluene)	µg/m³	NE	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Cryofluorane (Freon 114)	µg/m³	1.3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	µg/m³	3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
n-Decane	µg/m³	3.6	1.16 U	1.16 U	1.16 U	1.16 U	**0.437 J**
Dibromochloromethane	µg/m³	NE	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
1,2-Dibromoethane (EDB)	µg/m³	0.25	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	µg/m³	0.9	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,3-Dichlorobenzene	µg/m³	0.7	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	µg/m³	0.8	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane (Freon 12)	µg/m³	11	**1.41**	**1.95**	**1.83**	**2.15**	**2.21**
1,1-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloroethane	µg/m³	0.25	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
cis-1,2-Dichloroethene	µg/m³	0.25	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
trans-1,2-Dichloroethene	µg/m³	NE	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
1,2-Dichloropropane	µg/m³	0.25	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
cis-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
trans-1,3-Dichloropropene	µg/m³	0.25	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
1,4-Dioxane	µg/m³	NE	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
n-Dodecane	µg/m³	7.6	3.48 U	1.39 U	3.48 U	1.39 U	**1.68**
Ethanol	µg/m³	220	**1.59 J**	**1.58 J**	**1.29 J**	**2.79**	**3.71**
2-Ethylthiophene	µg/m³	NE	0.918 U	0.918 U	0.918 U	0.918 U	0.918 U
4-Ethyltoluene (p-Ethyltoluene)	µg/m³	NE	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U

Table 2-2. Ambient Air Analytical Results
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		Operable Unit	OU1	OU1	OU1	OU1	OU2
		Sample Name	OZAA-10	OZAA-10	OZAA-10	OZAA-10	OU2AA-06
		Sample Date	3/24/2014	4/22/2014	5/19/2014	6/25/2014	11/11/2013
Analyte	Units	NYSDOH Background Outdoor Air 95th Percentile[1]					
BTEX							
n-Heptane	µg/m³	5.1	0.82 U	0.82 U	0.82 U	0.82 U	**0.27 J**
Hexachlorobutadiene (C-46)	µg/m³	7	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
n-Hexane	µg/m³	3.6	0.705 U	0.705 U	0.705 U	0.705 U	**0.37 J**
2-Hexanone	µg/m³	NE	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Indane	µg/m³	NE	0.967 U	0.967 U	0.967 U	0.967 U	0.967 U
Indene	µg/m³	NE	0.951 U	0.951 U	0.951 U	0.951 U	0.951 U
Methyl ethyl ketone (2-Butanone)	µg/m³	17	**0.472 J**	**0.631**	**0.454 J**	**0.77**	**0.478 J**
Methyl tert-butyl ether (MTBE)	µg/m³	5.9	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
4-Methyl-2-pentanone (MIBK)	µg/m³	2.9	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	µg/m³	2.9	3.47 U	3.47 U	**1.09 J**	**2.96 J**	3.47 U
1-Methylnaphthalene	µg/m³	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylnaphthalene	µg/m³	NE	5.82 U	5.82 U	5.82 U	5.82 U	5.82 U
2-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
3-Methylthiophene	µg/m³	NE	0.803 U	0.803 U	0.803 U	0.803 U	0.803 U
Naphthalene	µg/m³	10	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Nonane	µg/m³	1.2	1.05 U	1.05 U	1.05 U	1.05 U	1.05 U
n-Octane	µg/m³	2.1	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
Pentane	µg/m³	NE	**0.286 J**	**0.505 J**	**0.295 J**	0.59 U	**0.932**
2-Propanol (Isopropyl Alcohol)	µg/m³	NE	**0.221 J**	**0.381 JB**	1.23 U	1.23 U	**0.61 J**
Styrene	µg/m³	0.6	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
1,1,2,2-Tetrachloroethane	µg/m³	0.25	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
Tetrachloroethene (PCE)	µg/m³	1.6	1.36 U	1.36 U	1.36 U	1.36 U	1.36 U
1,2,4,5-Tetramethylbenzene	µg/m³	NE	2.74 U	1.1 U	2.74 U	1.1 U	1.1 U
Thiophene	µg/m³	NE	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/m³	3.6	**0.437 J**	**0.575 J**	**0.491 J**	**0.69 J**	**0.498 J**
1,2,4-Trichlorobenzene	µg/m³	4.8	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,1,1-Trichloroethane (TCA)	µg/m³	0.7	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1,2-Trichloroethane	µg/m³	0.25	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
Trichloroethene (TCE)	µg/m³	0.5	1.07 U	1.07 U	1.07 U	1.07 U	1.07 U
Trichlorofluoromethane (Freon 11)	µg/m³	6.1	**1.07 J**	**1.61**	**1.09 J**	**1.74**	**1.1 J**
1,2,3-Trimethylbenzene	µg/m³	0.6	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2,4-Trimethylbenzene	µg/m³	2.5	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3,5-Trimethylbenzene	µg/m³	1	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
2,2,4-Trimethylpentane (iso-Octane)	µg/m³	2	0.934 U	0.934 U	0.934 U	**0.416 J**	**0.402 J**
n-Undecane	µg/m³	2.3	1.28 U	1.28 U	1.28 U	1.28 U	1.28 U
Vinyl bromide (Bromoethene)	µg/m³	NE	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl chloride	µg/m³	0.25	0.511 U	0.511 U	0.511 U	0.511 U	0.511 U

Table 2-2. Ambient Air Analytical Results - Notes
Bay Shore/Brightwaters Former MGP Site
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Notes:

µg/m^3 - micrograms per cubic meter
BTEX - benzene, toluene, ethylbenzene, and xylene
VOCs - volatile organic compounds

[1] Source: NYSDOH, October 2006. Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes reported in various locations within sampled homes in NYS, 1997-2003 as presented in Table C1. Background values for naphthalene are from the NYSDOH 1997 Control Home Database as presented in Table C3 of the NYSDOH 2006 Guidance.

Bolding indicates a detected result value

NE - not established

Data qualifiers:
B - Analyte detected in the associated method blank
J - estimated value
U - indicates not detected to the reporting limit for organic analysis

Table 3-1. Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Date of Measurement	Time of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-05D	3/31/2014	11:44	23.97	9.12	14.85	
BBMW-13D	3/31/2014	14:20	23.90	8.69	15.21	
BBMW-20I	3/31/2014	11:59	18.63	3.71	14.92	
BBMW-22S	3/31/2014	11:53	20.87	8.80	12.07	
BBMW-22I	3/31/2014	11:54	17.58	8.83	8.75	
BBMW-22D	3/31/2014	11:55	20.77	8.75	12.02	
BBMW-26S	3/31/2014	11:05	24.96	8.43	16.53	
BBMW-26I	3/31/2014	11:09	25.02	8.53	16.49	
BBMW-27S	3/31/2014	11:03	25.03	9.03	16.00	
BBMW-27I	3/31/2014	11:07	25.37	9.15	16.22	
BBMW-34S	3/31/2014	10:16	25.03	9.41	15.62	
BBMW-34I	3/31/2014	10:17	25.24	9.47	15.77	
BBMW-34I2	3/31/2014	10:18	25.05	9.83	15.22	
BBMW-34D	3/31/2014	10:19	25.21	9.85	15.36	
BBMW-35S	3/31/2014	14:16	24.08	9.51	14.57	
BBMW-35I	3/31/2014	14:11	24.17	9.65	14.52	
BBMW-35I2	3/31/2014	14:12	24.10	9.65	14.45	
BBMW-35D	3/31/2014	14:17	24.07	9.71	14.36	
BBMW-38S	3/31/2014	10:33	26.14	10.24	15.90	
BBMW-38I	3/31/2014	10:34	26.09	10.27	15.82	
BBMW-38I2	3/31/2014	10:35	26.16	10.31	15.85	
BBMW-38D	3/31/2014	10:36	26.08	10.29	15.79	
BBMW-39S	3/31/2014	10:21	23.99	8.91	15.08	
BBMW-39I	3/31/2014	10:22	24.03	9.04	14.99	
BBMW-39I2	3/31/2014	10:23	23.98	8.89	15.09	
BBMW-39D	3/31/2014	10:24	23.98	8.90	15.08	
BBMW-40S	3/31/2014	10:22	24.76	9.20	15.56	
BBMW-40I	3/31/2014	10:25	24.77	9.21	15.56	
BBMW-40I2	3/31/2014	10:29	24.77	9.26	15.51	
BBMW-40D	3/31/2014	10:30	24.76	9.09	15.67	
BBMW-41S	3/31/2014	10:10	24.28	8.71	15.57	
BBMW-41I	3/31/2014	10:11	24.37	8.78	15.59	
BBMW-41I2	3/31/2014	10:12	24.47	8.95	15.52	
BBMW-41D	3/31/2014	10:13	24.40	8.90	15.50	
MW-03S	3/31/2014	14:12	22.59	7.00	15.59	
MW-03D	3/31/2014	14:18	22.48	6.98	15.50	
MW-05S	3/31/2014	11:43	24.05	8.80	15.25	
MW-05D	3/31/2014	11:44	24.37	9.00	15.37	
MW-09S	3/31/2014	10:55	25.17	8.60	16.57	
MW-09I	3/31/2014	10:56	24.71	8.65	16.06	
MW-09I2	3/31/2014	10:57	25.59	8.90	16.69	
MW-09D	3/31/2014	10:58	25.51	8.89	16.62	
OZMW-16S	4/1/2014	10:35	19.88	5.51	14.37	
OZMW-16I	4/1/2014	10:39	19.90	5.18	14.72	
OZMW-16I2	4/1/2014	10:40	19.72	5.21	14.51	
OZMW-16D	4/1/2014	10:41	20.10	5.51	14.59	
OZMW-17S	4/1/2014	10:55	19.83	5.18	14.65	
OZMW-17I	4/1/2014	10:56	19.91	5.31	14.60	
OZMW-17I2	4/1/2014	10:57	19.86	5.50	14.36	
OZMW-17D	4/1/2014	10:59	19.88	5.56	14.32	
OZMW-18S	4/1/2014	10:47	19.56	5.10	14.46	
OZMW-18I	4/1/2014	10:48	19.98	5.16	14.82	
OZMW-18I2	4/1/2014	10:49	19.97	5.09	14.88	
OZMW-18D	4/1/2014	10:50	19.53	5.00	14.53	
OZMW-19S	3/31/2014	11:53	26.11	10.98	15.13	
OZMW-19I	3/31/2014	11:54	26.08	11.11	14.97	
OZMW-19I2	3/31/2014	11:55	26.08	11.51	14.57	
OZMW-19D	3/31/2014	11:56	26.08	11.20	14.88	
OZMW-21S	3/31/2014	11:47	24.38	9.21	15.17	
OZMW-21I	3/31/2014	11:48	24.38	9.20	15.18	
OZMW-21I2	3/31/2014	11:49	24.36	9.26	15.10	
OZMW-21D	3/31/2014	11:50	24.33	9.30	15.03	
OZMW-22RS	3/31/2014	13:10	22.69	7.80	14.89	
OZMW-22RI	3/31/2014	13:11	22.72	8.25	14.47	
OZMW-23S	3/31/2014	11:25	24.33	9.65	14.68	

Table 3-1. Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Date of Measurement	Time of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OZMW-23I	3/31/2014	11:26	24.32	9.71	14.61	
OZMW-23I2	3/31/2014	11:27	24.29	9.75	14.54	
OZMW-23D	3/31/2014	11:28	24.28	9.65	14.63	
OZMW-24S	3/31/2014	11:20	20.39	8.45	11.94	
OZMW-24I	3/31/2014	11:21	23.12	8.40	14.72	
OZMW-24I2	3/31/2014	11:22	23.12	8.60	14.52	
OZMW-24D	3/31/2014	11:23	23.10	8.65	14.45	
OZMW-25S	3/31/2014	11:39	24.67	9.65	15.02	
OZMW-25I	3/31/2014	11:40	24.55	9.70	14.85	
OZMW-25I2	3/31/2014	11:41	24.61	9.71	14.90	
OZMW-25D	3/31/2014	11:42	24.82	9.68	15.14	
OZMW-26S	3/31/2014	11:28	24.59	9.68	14.91	
OZMW-26I	3/31/2014	11:29	24.60	9.78	14.82	
OZMW-26I2	3/31/2014	11:30	24.60	9.76	14.84	
OZMW-26D	3/31/2014	11:31	24.60	9.91	NC	

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

Table 3-2. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Oct-92	Nov-99	Mar-02	Jun-02	Aug-02	Nov-02	Mar-03	Jul-03	Sep-03	Jan-04	Apr-04	Aug-04
BBMW-05D	64.0 - 74.0	NC	13.67	13.42	13.51	12.15	14.25	14.72	14.55	13.70	14.15	15.83	13.54
BBMW-05D2	126.5 - 136.5	NC	NC	14.00	13.82	12.30	14.72	15.54	15.07	14.51	15.10	16.23	14.38
BBMW-05D2R	127.0 - 137.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-13D	62.0 -72.0	NC	14.05	13.75	14.55	12.48	14.64	15.12	15.15	14.09	14.52	16.29	13.91
BBMW-20S	4.0 - 14.0	NC	NC	NC	12.59	11.28	13.21	13.72	13.56	12.71	13.13	14.59	12.56
BBMW-20I	35.0 - 45.0	NC	NC	NC	12.52	11.22	13.14	13.64	13.48	12.64	13.04	14.51	12.50
BBMW-20D	62.0 - 72.0	NC	NC	NC	12.62	11.32	13.25	13.76	13.62	12.93	13.33	14.80	12.76
BBMW-22S	5.0 - 10.0	NC	NC	13.26	13.34	12.01	13.99	14.52	14.35	13.51	13.92	15.54	13.34
BBMW-22I	30.0 - 40.0	NC	NC	13.26	13.34	12.02	14.01	14.52	14.36	13.42	13.94	15.52	13.33
BBMW-22D	64.0 - 74.0	NC	NC	13.26	13.34	12.01	14.01	14.55	14.37	13.61	13.98	15.52	13.37
BBMW-26S	6.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-26I	30.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-27S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-27I	30.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I2	40.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41S	6.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-03S	3.0 -13.0	13.81	14.02	13.72	14.51	12.45	14.60	15.10	15.11	14.07	14.49	16.23	13.87
MW-03D	35.0 - 45.0	13.77	14.01	13.72	14.48	12.44	14.59	15.09	15.08	14.06	14.49	16.22	13.87
MW-05S	4.0 - 14.0	17.61	13.75	13.45	13.50	12.16	14.19	14.72	14.55	13.69	14.15	15.83	13.54
MW-05D	35.5 - 45.5	18.51	14.71	14.41	14.51	13.16	15.21	15.73	15.52	14.70	15.15	15.81	13.55
MW-09S	4.0 - 14.0	15.24	15.34	NC	15.08	13.55	15.67	16.50	16.55	15.54	15.88	17.44	15.26
MW-09I	30.0 - 40.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-09I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-09D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-2. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 1 (OU-1)

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

Table 3-2. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Oct-04	Feb-05	May-05	Aug-05	Nov-05	Feb-06	May-06	Jul/Aug-06	Nov-06	Jan-07	May-07	Jul/Aug-07
BBMW-05D	64.0 - 74.0	13.99	14.66	14.55	13.32	15.08	14.95	14.46	14.19	14.63	14.51	14.91	14.23
BBMW-05D2	126.5 - 136.5	15.10	15.66	15.62	13.64	16.27	16.22	15.38	14.51	15.61	15.81	16.19	14.44
BBMW-05D2R	127.0 - 137.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-13D	62.0 -72.0	14.37	15.04	14.86	13.71	15.45	15.33	14.83	14.54	14.99	14.93	15.32	14.55
BBMW-20S	4.0 - 14.0	13.00	13.66	13.54	12.35	14.08	13.93	13.45	13.17	13.64	13.55	NC	NC
BBMW-20I	35.0 - 45.0	12.92	12.68	13.46	12.63	14.34	14.20	13.73	13.42	13.90	13.79	NC	NC
BBMW-20D	62.0 - 72.0	13.20	13.83	NC	13.00	14.70	14.55	14.10	13.78	14.28	14.20	NC	NC
BBMW-22S	5.0 - 10.0	13.79	14.44	14.34	13.13	14.93	14.75	14.26	13.97	14.43	14.34	14.73	14.08
BBMW-22I	30.0 - 40.0	13.78	14.43	14.33	13.12	14.88	14.74	14.26	13.97	14.43	14.34	14.72	14.08
BBMW-22D	64.0 - 74.0	13.83	14.42	14.36	13.16	14.96	14.76	14.27	13.98	14.49	14.41	14.46	13.70
BBMW-26S	6.0 - 16.0	NC	16.11	16.09	14.74	16.60	16.49	15.98	15.72	16.11	16.07	16.46	15.67
BBMW-26I	30.0 - 40.0	NC	16.12	16.10	14.79	16.62	16.50	15.98	15.72	16.10	16.08	16.46	15.63
BBMW-27S	5.0 - 15.0	NC	16.10	16.08	14.73	16.59	16.47	15.98	NC	16.04	16.02	16.42	15.67
BBMW-27I	30.0 - 40.0	NC	16.14	16.11	14.78	16.62	16.50	16.00	NC	16.07	16.05	16.44	15.70
BBMW-34S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-34D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I2	40.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-39D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-40D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41S	6.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-41D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-03S	3.0 -13.0	14.33	15.01	14.88	13.64	15.42	15.30	14.80	14.51	14.98	14.88	15.29	14.52
MW-03D	35.0 - 45.0	14.33	15.00	14.89	13.65	15.41	15.27	14.80	14.50	14.94	14.89	15.28	14.51
MW-05S	4.0 - 14.0	13.99	14.66	14.54	13.32	14.06	14.96	14.46	14.17	14.63	14.53	14.93	14.23
MW-05D	35.5 - 45.5	14.00	14.66	14.55	13.32	15.08	14.95	14.45	14.18	14.65	14.56	14.95	14.24
MW-09S	4.0 - 14.0	15.74	16.41	16.40	15.03	16.89	16.79	16.29	NC	16.34	16.33	16.75	15.96
MW-09I	30.0 - 40.0	NC	16.37	16.37	15.02	16.85	16.77	16.28	NC	16.34	16.32	16.72	15.94
MW-09I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW-09D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-16D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
OZMW-17S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Table 3-2. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 1 (OU-1)

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

Table 3-2. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Oct/Nov-07	Jan-08	Apr-08	Aug-08	Nov-08	Jan-09	May-09	Jul-09	Oct-09	Jan-10	Apr-10	Jul-10
BBMW-05D	64.0 - 74.0	13.41	14.27	15.01	14.01	14.54	14.60	14.91	14.82	13.69	14.70	16.40	13.63
BBMW-05D2	126.5 - 136.5	14.18	15.07	15.81	14.01	15.33	15.66	14.75	15.61	NC	NC	NC	NC
BBMW-05D2R	127.0 - 137.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-13D	62.0 -72.0	13.66	14.63	15.25	14.09	14.76	14.86	15.12	15.01	14.14	15.24	16.52	14.17
BBMW-20S	4.0 - 14.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-20I	35.0 - 45.0	NC	13.91	NC	NC	14.21	NC	NC	NC	NC	NC	14.42	11.72
BBMW-20D	62.0 - 72.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-22S	5.0 - 10.0	13.26	13.86	14.63	13.80	14.41	14.46	14.72	14.68	11.07	14.78	16.50	13.75
BBMW-22I	30.0 - 40.0	13.27	14.11	14.82	13.80	14.40	14.45	14.75	14.69	7.82	11.46	13.17	10.42
BBMW-22D	64.0 - 74.0	12.89	14.10	14.82	13.68	14.31	14.42	14.75	14.66	10.92	14.78	16.43	13.71
BBMW-26S	6.0 - 16.0	14.74	15.63	16.38	15.19	15.82	16.04	16.22	16.14	15.27	16.34	17.85	15.34
BBMW-26I	30.0 - 40.0	14.76	15.64	16.37	15.19	15.82	16.09	16.24	16.16	15.27	16.36	17.84	15.34
BBMW-27S	5.0 - 15.0	14.76	15.66	16.38	15.21	15.81	16.02	16.22	16.14	15.29	16.30	17.76	15.34
BBMW-27I	30.0 - 40.0	14.80	15.65	16.33	15.24	15.84	16.04	16.21	16.16	15.30	16.33	17.79	15.34
BBMW-34S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	14.27	15.33	16.65	14.21
BBMW-34I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.17	15.22	16.79	14.13
BBMW-34I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	14.16	15.22	16.61	14.15
BBMW-34D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	14.16	15.21	16.79	14.15
BBMW-35S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35I2	40.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-35D	63.0 - 68.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
BBMW-38S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	14.70	15.83	17.32	14.70
BBMW-38I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.63	15.69	17.22	14.64
BBMW-38I2	40.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	14.63	15.68	17.25	14.63
BBMW-38D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	14.63	15.71	17.22	14.66
BBMW-39S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	14.03	15.04	16.58	14.00
BBMW-39I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.03	15.03	16.58	14.00
BBMW-39I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	14.02	15.01	16.54	13.98
BBMW-39D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	14.02	15.03	16.55	14.00
BBMW-40S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	14.54	15.66	17.15	14.53
BBMW-40I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.55	15.58	17.08	14.55
BBMW-40I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	14.52	15.54	17.07	14.52
BBMW-40D	70.0 - 75.0	NC	NC	NC	NC	NC	NC	NC	NC	14.55	15.57	17.08	14.55
BBMW-41S	6.0 - 16.0	NC	NC	NC	NC	NC	NC	NC	NC	14.29	15.36	16.68	14.29
BBMW-41I	25.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	14.32	15.38	16.82	14.32
BBMW-41I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	14.28	15.36	16.93	14.27
BBMW-41D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	14.28	15.35	16.89	14.27
MW-03S	3.0 -13.0	13.64	14.60	15.21	14.05	14.72	14.83	15.10	15.00	14.11	15.21	16.48	14.14
MW-03D	35.0 - 45.0	13.62	14.60	15.21	14.05	14.72	14.81	15.10	14.98	14.11	15.21	16.46	14.13
MW-05S	4.0 - 14.0	13.40	14.24	15.01	13.99	9.51	14.58	14.92	14.82	13.96	14.98	16.74	13.89
MW-05D	35.5 - 45.5	13.42	14.26	14.98	14.00	9.82	14.60	14.91	14.82	14.29	15.29	17.02	14.26
MW-09S	4.0 - 14.0	14.99	15.85	16.63	15.45	16.09	16.35	16.49	16.41	15.52	16.62	18.00	15.59
MW-09I	30.0 - 40.0	15.02	15.90	16.64	15.44	16.07	16.35	16.50	16.45	15.54	16.62	18.02	15.60
MW-09I2	45.0 - 50.0	NC	NC	NC	NC	NC	NC	NC	NC	15.47	16.56	17.96	15.54
MW-09D	65.0 - 70.0	NC	NC	NC	NC	NC	NC	NC	NC	15.45	16.55	17.94	15.53
OZMW-16S	5.0 - 15.0	NC	NC	NC	13.06	13.76	13.75	14.05	13.99	NC	NC	NC	NC
OZMW-16I	20.0 - 30.0	NC	NC	NC	13.07	13.76	13.74	14.06	14.01	NC	NC	NC	NC
OZMW-16I2	35.0 - 45.0	NC	NC	NC	13.11	13.77	13.75	14.05	14.02	NC	NC	NC	NC
OZMW-16D	55.0 - 65.0	NC	NC	NC	13.05	13.81	13.77	14.05	14.02	NC	NC	NC	NC
OZMW-17S	5.0 - 15.0	NC	NC	NC	13.10	13.84	13.67	14.10	14.03	13.19	14.23	15.92	13.19

Table 3-2. Historical Water Level Measurements and Calculated Groundwater Elevations
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2013/2014 Annual GM and OM&M Report
Operable Unit No. 1 (OU-1)

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

Table 3-2. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Minimum	Average	Maximum
BBMW-05D	64.0 - 74.0	13.27	13.95	13.97	13.85	14.43	14.11	13.75	14.16	14.85	12.15	14.26	16.40
BBMW-05D2	126.5 - 136.5	NC	NC	NC	NC	NC	NC	NC	NC	NC	12.30	15.02	16.27
BBMW-05D2R	127.0 - 137.0	14.26	14.85	14.77	14.40	15.13	15.30	15.01	NC	NC	14.26	14.82	15.30
BBMW-13D	62.0 -72.0	13.73	14.46	14.46	14.37	14.20	14.67	14.27	14.70	15.21	12.48	14.64	16.52
BBMW-20S	4.0 - 14.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	11.28	13.25	14.59
BBMW-20I	35.0 - 45.0	13.17	13.93	13.98	11.21	11.23	14.07	13.71	14.11	14.92	11.21	13.32	14.92
BBMW-20D	62.0 - 72.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	11.32	13.56	14.80
BBMW-22S	5.0 - 10.0	13.37	14.04	14.37	13.99	14.17	14.23	13.88	14.23	12.07	11.07	14.03	16.50
BBMW-22I	30.0 - 40.0	10.04	10.73	11.06	10.67	11.18	11.32	10.56	10.93	8.75	7.82	13.05	15.52
BBMW-22D	64.0 - 74.0	13.18	13.01	12.97	13.80	14.35	14.46	13.72	14.09	12.02	10.92	13.95	16.43
BBMW-26S	6.0 - 16.0	14.76	15.43	15.93	15.49	15.73	15.73	15.35	15.77	16.53	14.74	15.87	17.85
BBMW-26I	30.0 - 40.0	14.77	15.51	15.93	15.50	15.74	15.73	15.34	15.78	16.49	14.76	15.87	17.84
BBMW-27S	5.0 - 15.0	14.77	15.45	15.91	15.19	15.72	15.70	15.33	15.74	16.00	14.73	15.83	17.76
BBMW-27I	30.0 - 40.0	14.78	15.48	15.94	15.50	15.75	15.70	15.35	15.77	16.22	14.78	15.87	17.79
BBMW-34S	5.0 - 15.0	13.77	14.53	14.85	14.46	14.33	14.69	14.28	14.35	15.62	13.77	14.72	16.65
BBMW-34I	25.0 - 30.0	13.75	14.44	14.76	14.37	14.99	14.93	14.51	14.53	15.77	13.75	14.80	16.79
BBMW-34I2	40.0 - 45.0	13.51	14.44	14.85	14.36	14.35	14.61	14.27	14.30	15.22	13.51	14.62	16.61
BBMW-34D	65.0 - 70.0	13.70	14.45	14.74	14.37	14.32	14.58	14.25	14.60	15.36	13.70	14.67	16.79
BBMW-35S	5.0 - 15.0	NC	NC	13.98	13.54	13.79	13.80	13.48	13.81	14.57	13.48	13.85	14.57
BBMW-35I	25.0 - 30.0	NC	NC	13.97	13.60	13.90	13.82	13.54	13.85	14.52	13.54	13.89	14.52
BBMW-35I2	40.0 - 50.0	NC	NC	13.86	13.56	13.79	13.82	13.49	13.81	14.45	13.49	13.83	14.45
BBMW-35D	63.0 - 68.0	NC	NC	13.80	13.56	13.81	13.78	13.52	13.82	14.36	13.52	13.81	14.36
BBMW-38S	5.0 - 15.0	14.15	14.98	15.68	14.94	18.72	15.19	14.75	15.18	15.90	14.15	15.54	18.72
BBMW-38I	25.0 - 30.0	14.13	14.87	15.16	14.85	18.70	15.17	14.75	15.10	15.82	14.13	15.44	18.70
BBMW-38I2	40.0 - 45.0	14.14	14.87	15.19	14.84	18.60	15.09	14.65	15.14	15.85	14.14	15.43	18.60
BBMW-38D	65.0 - 70.0	14.13	14.87	15.18	14.83	18.78	15.08	14.65	15.08	15.79	14.13	15.43	18.78
BBMW-39S	5.0 - 15.0	13.57	14.27	14.60	14.21	14.49	14.40	14.05	14.48	15.08	13.57	14.52	16.58
BBMW-39I	25.0 - 30.0	13.57	14.27	14.61	14.21	14.44	14.41	14.06	14.44	14.99	13.57	14.51	16.58
BBMW-39I2	45.0 - 50.0	13.55	14.24	14.58	14.17	14.51	14.37	14.02	14.36	15.09	13.55	14.50	16.54
BBMW-39D	65.0 - 70.0	13.57	14.26	14.58	14.71	14.42	14.40	14.05	14.47	15.08	13.57	14.55	16.55
BBMW-40S	5.0 - 15.0	14.06	14.74	15.25	14.72	14.97	14.91	14.54	15.14	15.56	14.06	15.06	17.15
BBMW-40I	25.0 - 30.0	14.05	14.77	15.14	14.74	15.06	14.96	14.57	15.03	15.56	14.05	15.05	17.08
BBMW-40I2	45.0 - 50.0	14.02	14.73	15.09	14.71	14.96	14.96	14.57	15.00	15.51	14.02	15.02	17.07
BBMW-40D	70.0 - 75.0	14.05	14.75	15.12	14.73	15.04	14.91	14.58	15.00	15.67	14.05	15.05	17.08
BBMW-41S	6.0 - 16.0	13.81	14.57	14.76	14.51	14.68	14.74	14.38	14.86	15.37	13.81	14.79	16.68
BBMW-41I	25.0 - 30.0	13.84	14.57	14.95	14.55	14.84	14.77	14.40	14.86	15.59	13.84	14.86	16.82
BBMW-41I2	45.0 - 50.0	13.83	14.58	15.10	14.50	14.97	14.75	14.40	14.80	15.52	13.83	14.87	16.93
BBMW-41D	65.0 - 70.0	13.82	14.55	14.85	14.49	14.81	14.73	14.37	14.81	15.50	13.82	14.82	16.89
MW-03S	3.0 -13.0	13.69	14.43	14.38	14.34	13.59	14.62	14.24	14.66	15.59	12.45	14.58	16.48
MW-03D	35.0 - 45.0	13.67	14.43	14.30	14.34	13.33	14.64	14.25	14.66	15.50	12.44	14.56	16.46
MW-05S	4.0 - 14.0	13.53	14.25	14.25	14.16	14.44	14.41	14.04	14.44	15.25	9.51	14.28	17.61
MW-05D	35.5 - 45.5	13.88	14.60	14.54	14.49	14.75	14.51	14.38	14.79	15.37	9.82	14.61	18.51
MW-09S	4.0 - 14.0	14.99	15.72	16.19	15.77	16.00	16.00	15.60	16.05	16.57	13.55	16.00	18.00
MW-09I	30.0 - 40.0	15.00	15.72	16.20	15.76	16.01	16.01	15.62	16.06	16.06	15.00	16.12	18.02
MW-09I2	45.0 - 50.0	14.93	15.66	16.13	15.70	15.94	15.92	15.55	16.00	16.69	14.93	16.00	17.96
MW-09D	65.0 - 70.0	14.92	15.64	16.11	15.68	15.93	15.91	15.54	15.98	16.62	14.92	15.98	17.94
OZMW-16S	5.0 - 15.0	12.86	13.49	13.48	13.43	13.74	13.63	13.29	13.57	14.37	12.86	13.61	14.37
OZMW-16I	20.0 - 30.0	12.91	13.50	13.48	13.46	13.80	13.61	13.33	13.65	14.72	12.91	13.65	14.72
OZMW-16I2	35.0 - 45.0	12.93	13.48	13.49	13.43	13.65	13.61	13.27	13.62	14.51	12.93	13.62	14.51
OZMW-16D	55.0 - 65.0	12.84	13.49	13.53	13.57	14.07	13.64	13.34	13.63	14.59	12.84	13.67	14.59
OZMW-17S	5.0 - 15.0	12.86	13.53	13.51	13.23	13.29	13.67	13.34	13.64	14.65	12.86	13.72	15.92

Table 3-2. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level											
		Oct-10	Jan-11	Apr-11	Jul-11	Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Minimum	Average	Maximum
OZMW-17I	20.0 - 30.0	12.85	13.51	13.51	12.80	13.71	13.64	13.32	13.64	14.60	12.80	13.72	15.94
OZMW-17I2	35.0 - 45.0	12.80	13.46	13.45	12.82	13.17	13.60	13.27	13.59	14.36	12.80	13.64	15.91
OZMW-17D	53.0 - 63.0	12.85	13.49	13.50	12.91	13.08	13.62	13.36	13.64	14.32	12.85	13.65	15.86
OZMW-18S	5.0 - 15.0	12.74	13.46	13.44	13.26	13.50	13.57	13.24	13.64	14.46	12.72	13.53	14.46
OZMW-18I	20.0 - 30.0	13.13	13.78	13.80	13.72	13.87	14.03	13.71	13.96	14.82	13.13	13.93	14.82
OZMW-18I2	35.0 - 45.0	13.23	13.88	13.90	13.70	13.83	14.07	13.67	14.06	14.88	13.23	13.99	14.88
OZMW-18D	55.0 - 65.0	12.78	13.41	13.42	13.31	13.34	13.57	13.22	13.67	14.53	12.78	13.54	14.53
OZMW-19S	5.0 - 15.0	13.64	14.37	14.65	14.24	14.50	14.44	14.09	14.05	15.13	13.64	14.51	16.52
OZMW-19I	20.0 - 30.0	13.31	14.02	14.31	13.94	13.78	14.14	13.79	13.99	14.97	13.31	14.21	16.37
OZMW-19I2	35.0 - 45.0	13.26	13.97	14.33	13.88	14.08	14.09	13.74	13.77	14.57	13.26	14.15	16.31
OZMW-19D	53.0 - 63.0	13.34	14.03	14.32	13.94	14.18	14.15	13.81	13.73	14.88	13.34	14.22	16.38
OZMW-21S	5.0 - 15.0	13.71	14.80	15.08	14.34	14.53	14.57	14.19	14.90	15.17	13.71	14.59	15.17
OZMW-21I	20.0 - 30.0	13.67	14.80	15.11	14.29	14.45	14.43	14.04	14.51	15.18	13.67	14.50	15.18
OZMW-21I2	35.0 - 45.0	13.60	14.37	15.13	14.24	14.45	14.56	14.10	14.51	15.10	13.60	14.45	15.13
OZMW-21D	55.0 - 65.0	13.69	14.30	15.04	14.31	14.56	14.47	14.12	15.14	15.03	13.69	14.52	15.14
OZMW-22S	5.0 - 15.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.44	14.00	14.39
OZMW-22I	20.0 - 30.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.48	14.02	14.42
OZMW-22I2	35.0 - 45.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.46	14.00	14.39
OZMW-22D	55.0 - 65.0	NC	NC	NC	NC	NC	NC	NC	NC	NC	13.42	13.97	14.38
OZMW-22RS	5.0 - 15.0	12.97	14.22	13.49	13.61	13.97	13.93	13.51	13.91	14.89	12.97	13.83	14.89
OZMW-22RI	20.0 - 30.0	12.94	13.68	13.56	13.56	13.82	13.85	13.46	14.05	14.47	12.94	13.71	14.47
OZMW-23S	5.0 - 15.0	13.05	13.78	13.79	13.63	13.86	13.87	13.55	15.25	14.68	13.05	13.94	15.25
OZMW-23I	20.0 - 25.0	13.03	13.82	13.83	13.66	13.38	13.88	13.55	15.17	14.61	13.03	13.88	15.17
OZMW-23I2	35.0 - 40.0	12.91	13.76	13.77	13.61	13.89	13.80	13.48	13.78	14.54	12.91	13.73	14.54
OZMW-23D	55.0 - 65.0	13.03	13.80	13.78	13.67	13.76	13.86	13.52	13.83	14.63	13.03	13.76	14.63
OZMW-24S	5.0 - 15.0	10.36	11.04	11.01	10.95	11.07	11.17	10.83	11.27	11.94	10.36	11.07	11.94
OZMW-24I	20.0 - 25.0	13.00	13.71	13.72	13.60	13.76	13.83	13.46	13.86	14.72	13.00	13.74	14.72
OZMW-24I2	35.0 - 40.0	13.02	13.70	13.67	13.61	13.71	13.82	13.49	13.91	14.52	13.02	13.72	14.52
OZMW-24D	55.0 - 65.0	13.04	13.72	13.75	13.71	13.80	13.88	13.50	14.02	14.45	13.04	13.76	14.45
OZMW-25S	5.0 - 15.0	13.45	14.15	14.41	14.06	14.31	14.33	14.43	14.06	15.02	13.45	14.42	16.66
OZMW-25I	20.0 - 30.0	13.42	14.15	14.27	14.05	14.15	14.29	13.84	13.87	14.85	13.42	14.31	16.63
OZMW-25I2	35.0 - 45.0	13.46	14.16	14.42	14.07	14.34	14.29	13.93	13.86	14.90	13.46	14.36	16.64
OZMW-25D	55.0 - 65.0	13.45	14.17	14.56	14.06	14.40	14.30	13.94	13.93	15.14	13.45	14.40	16.63
OZMW-26S	5.0 - 15.0	13.29	14.05	14.32	13.90	14.18	14.18	13.80	14.19	14.91	13.29	14.31	16.66
OZMW-26I	20.0 - 25.0	13.34	14.09	14.35	13.95	14.22	14.20	13.83	14.29	14.82	13.34	14.12	14.82
OZMW-26I2	35.0 - 40.0	13.32	14.09	14.37	13.95	14.22	14.17	13.84	14.25	14.84	13.32	14.12	14.84
OZMW-26D	55.0 - 65.0	13.33	14.09	14.27	13.92	14.17	14.18	13.83	NC	NC	13.33	13.97	14.27

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

Table 3-3. Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Date of Measurement	Time of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-01S	4/1/2014	10:21	19.65	5.40	14.25	
BBMW-01I	4/1/2014	10:20	19.23	5.50	13.73	
BBMW-01D	4/1/2014	10:19	19.20	5.40	13.80	
BBMW-02S	4/1/2014	13:45	16.83	4.37	12.46	
BBMW-02I	4/1/2014	13:50	16.96	4.30	12.66	
BBMW-02D	4/1/2014	13:53	17.13	4.44	12.69	
BBMW-03S	4/1/2014	10:22	11.33	2.35	8.98	
BBMW-03I	4/1/2014	10:24	11.19	2.42	8.77	
BBMW-03D	4/1/2014	10:26	11.24	2.30	8.94	
BBMW-04D	4/1/2014	10:28	19.69	6.10	13.59	
BBMW-07S	4/1/2014	10:10	12.80	6.21	6.59	
BBMW-07I	4/1/2014	10:11	12.60	6.00	6.60	
BBMW-07D	4/1/2014	10:13	12.58	6.00	6.58	
BBMW-15S	4/2/2014	14:10	15.92	4.57	11.35	
BBMW-15I	4/2/2014	14:11	15.82	5.50	10.32	
BBMW-15I2	4/2/2014	14:14	15.79	5.57	10.22	
BBMW-15D	4/2/2014	14:08	15.63	5.58	10.05	
BBMW-16S	4/2/2014	11:41	19.04	8.60	10.44	
BBMW-16I	4/2/2014	11:42	19.43	8.40	11.03	
BBMW-16D	4/2/2014	11:44	18.97	8.37	10.60	
BBMW-23S	4/2/2014	14:20	19.13	5.07	14.06	
BBMW-23I	4/2/2014	14:30	19.16	5.12	14.04	
BBMW-23D	4/2/2014	14:36	19.17	4.96	14.21	
BBMW-23D2	4/2/2014	14:37	18.61	4.62	13.99	
BBMW-24S	4/2/2014	08:00	18.14	6.10	12.04	
BBMW-24I	4/2/2014	8:05	18.01	5.97	12.04	
BBMW-24D	4/2/2014	8:10	17.76	5.80	11.96	
BBMW-25S	4/1/2014	11:00	12.80	3.20	9.60	
BBMW-25I	4/1/2014	11:01	12.79	3.21	9.58	
BBMW-25D	4/1/2014	11:03	12.70	3.23	9.47	
GM-05S	4/2/2014	09:30	5.73	2.08	3.65	
GM-05I	4/2/2014	9:32	5.92	2.12	3.80	
GM-05D	4/2/2014	9:34	7.87	2.02	5.85	Artesian
GM-06S	4/2/2014	10:40	9.52	5.10	4.42	
GM-06I	4/2/2014	10:38	9.56	5.09	4.47	
GM-06D	4/2/2014	10:35	9.66	5.21	4.45	
GM-07S	4/2/2014	11:30	10.61	7.20	3.41	
GM-07I	4/2/2014	11:36	10.53	7.32	3.21	
GM-07D	4/2/2014	11:35	10.75	7.12	3.63	
GM-08S	4/2/2014	11:57	3.90	1.92	1.98	
GM-08I	4/2/2014	11:58	4.05	2.27	1.78	
GM-08D	4/2/2014	11:59	3.91	1.90	2.01	
GM-09S	4/2/2014	11:10	3.22	1.90	1.32	
GM-09I	4/2/2014	11:12	3.41	2.01	1.40	
GM-09D	4/2/2014	11:14	3.09	1.81	1.28	
GM-10AD	4/2/2014	11:20	8.07	5.60	2.47	
GMP-01	4/2/2014	9:50	6.58	2.45	4.13	
GMP-02	4/2/2014	9:20	6.28	2.92	3.36	
GMP-04	4/2/2014	8:50	3.74	2.21	1.53	
MW-16AS	4/2/2014	12:19	16.16	4.45	11.71	
OU2-IW01S	4/1/2014	10:47	5.95	3.55	2.40	
OU2MW-01WT	4/1/2014	10:50	12.86	3.20	9.66	
OU2MW-01S	4/1/2014	10:55	12.41	3.25	9.16	
OU2MW-01I	4/1/2014	10:56	12.47	3.19	9.28	
OU2MW-01I2	4/1/2014	10:57	12.28	3.05	9.23	
OU2MW-01D	4/1/2014	11:00	12.35	3.30	9.05	
OU2MW-02S	4/1/2014	10:30	11.58	2.50	9.08	
OU2MW-02I	4/1/2014	10:37	11.59	2.21	9.38	
OU2MW-02I2	4/1/2014	10:39	11.74	2.20	9.54	
OU2MW-02D	4/1/2014	10:40	11.53	2.30	9.23	
OU2MW-03S	4/1/2014	11:30	11.23	2.91	8.32	
OU2MW-03I	4/1/2014	11:32	11.15	2.89	8.26	
OU2MW-03I2	4/1/2014	11:34	11.15	2.97	8.18	
OU2MW-03D	4/1/2014	11:36	11.14	3.01	8.13	
OU2MW-04WT	4/1/2014	11:38	10.34	2.70	7.64	

Table 3-3. Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Date of Measurement	Time of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OU2MW-04S	4/1/2014	11:30	10.18	2.75	7.43	
OU2MW-04I	4/1/2014	11:32	10.10	2.55	7.55	
OU2MW-04I2	4/1/2014	11:38	10.05	2.60	7.45	
OU2MW-04D	4/1/2014	11:40	10.08	2.66	7.42	
OU2MW-05	4/1/2014	11:00	6.32	1.40	4.92	
OU2MW-06S	4/1/2014	13:41	4.83	1.75	3.08	
OU2MW-06	4/1/2014	13:42	4.43	1.32	3.11	
OU2MW-07S	4/1/2014	13:45	5.47	2.70	2.77	
OU2MW-07	4/1/2014	13:50	5.34	2.55	2.79	
OU2MW-08WT	4/1/2014	16:00	14.93	5.25	9.68	
OU2MW-08S	4/1/2014	16:02	14.77	5.40	9.37	
OU2MW-08I	4/1/2014	16:02	14.70	5.32	9.38	
OU2MW-08I2	4/1/2014	16:07	14.78	5.35	9.43	
OU2MW-08D	4/1/2014	16:08	14.87	5.27	9.60	
OU2MW-09	4/1/2014	10:30	11.26	2.45	8.81	
OU2MW-10S	4/1/2014	8:27	5.31	2.13	3.18	
OU2MW-10I	4/1/2014	8:29	5.42	2.10	3.32	
OU2MW-10D	4/1/2014	8:30	5.43	2.21	3.22	
OU2MW-11S	4/1/2014	9:16	6.69	2.09	4.60	
OU2MW-11I	4/1/2014	9:16	6.72	2.12	4.60	
OU2MW-11I2	4/1/2014	9:18	6.53	2.05	4.48	
OU2MW-11D	4/1/2014	9:20	6.65	2.14	4.51	
OU2MW-12S	4/1/2014	8:55	5.70	1.90	3.80	
OU2MW-12I	4/1/2014	8:57	5.73	1.92	3.81	
OU2MW-12I2	4/1/2014	8:58	5.81	1.95	3.86	
OU2MW-12D	4/1/2014	8:59	5.59	1.80	3.79	
OU2MW-13S	4/1/2014	8:50	4.78	2.17	2.61	
OU2MW-13I	4/1/2014	8:51	4.81	2.27	2.54	
OU2MW-13D	4/2/2014	8:52	4.94	2.45	2.49	
OU2MW-14S	4/2/2014	6:35	14.58	4.45	10.13	
OU2MW-14I	4/2/2014	6:37	14.75	4.42	10.33	
OU2MW-14I2	4/1/2014	6:40	14.77	4.40	10.37	
OU2MW-15S	4/1/2014	8:10	4.80	1.35	3.45	
OU2MW-15I	4/1/2014	8:12	5.09	1.70	3.39	
OU2MW-15I2	4/1/2014	8:14	5.13	1.85	3.28	
OU2MW-15D	4/1/2014	8:16	5.21	7.70	-2.49	
OU2MW-16S	4/1/2014	8:38	5.44	2.00	3.44	
OU2MW-16I	4/1/2014	8:39	5.31	1.88	3.43	
OU2MW-16I2	4/1/2014	8:40	5.31	1.90	3.41	
OU2MW-16D	4/1/2014	8:41	5.61	2.20	3.41	
OU2MW-17S	4/1/2014	13:30	19.83	6.03	13.80	
OU2MW-17I	4/1/2014	13:32	19.91	6.23	13.68	
OU2MW-17I2	4/1/2014	13:34	19.86	6.21	13.65	
OU2MW-17D	4/1/2014	13:35	19.71	6.13	13.58	
OU2MW-18I	4/1/2014	9:50	19.98	6.25	13.73	
OU2MW-18I2	4/1/2014	9:52	19.97	6.29	13.68	
OU2MW-18D	4/1/2014	9:53	19.97	6.37	13.60	
OU2MW-39S	4/1/2014	9:36	21.22	8.30	12.92	
OU2MW-39I	4/1/2014	14:40	21.32	8.30	13.02	
OU2MW-39I2	4/1/2014	14:41	21.14	8.42	12.72	
OU2MW-39D	4/1/2014	14:42	21.18	8.30	12.88	
OU2MW-49S	4/1/2014	14:46	18.88	4.40	14.48	
OU2MW-49I	4/1/2014	14:47	19.09	4.37	14.72	
OU2MW-49I2	4/1/2014	14:48	18.58	4.27	14.31	
OU2MW-49D	4/1/2014	14:49	18.72	4.33	14.39	
OU2MW-50S	4/1/2014	14:50	20.97	6.57	14.40	
OU2MW-50I	4/1/2014	14:55	20.94	6.60	14.34	
OU2MW-50I2	4/1/2014	14:56	21.02	6.72	14.30	
OU2MW-50D	4/1/2014	14:57	21.09	6.78	14.31	
OU2MW-51S	4/1/2014	15:00	20.99	6.71	14.28	
OU2MW-51I	4/1/2014	15:05	20.93	6.83	14.10	
OU2MW-51I2	4/1/2014	15:02	21.00	6.70	14.30	
OU2MW-51D	4/1/2014	15:05	21.03	6.42	14.61	
OU2MW-52S	4/1/2014	15:06	5.80	3.40	2.40	
OU2MW-52I	4/1/2014	15:07	5.64	3.30	2.34	

Table 3-3. Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Date of Measurement	Time of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OU2MW-52D	4/1/2014	15:10	5.70	3.80	1.90	
OU2MW-53S	4/1/2014	15:12	4.98	2.60	2.38	
OU2MW-53I	4/1/2014	15:14	4.98	2.76	2.22	
OU2MW-53D	4/1/2014	15:20	5.08	2.22	2.86	
OU2MW-54S	4/1/2014	15:41	18.24	4.11	14.13	
OU2MW-54I	4/1/2014	15:42	18.14	4.01	14.13	
OU2MW-54I2	4/1/2014	15:43	18.06	4.07	13.99	
OU2MW-54D	4/1/2014	15:44	18.35	4.17	14.18	
OU2MW-57S	4/1/2014	15:45	19.21	4.27	14.94	
OU2MW-57I	4/1/2014	15:48	18.88	4.29	14.59	
OU2MW-57I2	4/1/2014	15:49	19.09	4.30	14.79	
OU2MW-58S	4/1/2014	15:39	20.80	6.25	14.55	
OU2MW-58I	4/1/2014	15:30	20.79	6.30	14.49	
OU2SW-01*	4/2/2014	8:55	2.65	2.00	0.65	Boat Basin
BBSW-06*	4/2/2014	8:50	2.08	1.51	0.57	Boat Basin
BBSW-07*	4/2/2014	8:40	6.83	1.81	5.02	Weir

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

Table 3-4. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

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

Table 3-4. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

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

Table 3-4. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

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

Table 3-4. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

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

Table 3-4. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

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

Table 3-4. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

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

Table 3-4. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

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

Table 3-4. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

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

Table 3-4. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

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

Table 3-4. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

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

Table 3-4. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

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

Table 3-4. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

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

Table 3-4. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level		
		Minimum	Average	Maximum
BBMW-01S	5.0 - 15.0	11.91	12.91	14.73
BBMW-01I	32.0 - 42.0	11.58	12.82	14.74
BBMW-01D	68.5 - 78.5	11.91	12.90	14.74
BBMW-02S	5.0 - 15.0	10.99	11.82	13.60
BBMW-02I	30.0 - 40.0	10.96	11.83	13.59
BBMW-02D	73.0 - 83.0	10.93	11.81	13.60
BBMW-03S	3.0 - 13.0	7.36	7.94	9.68
BBMW-03I	30.0 - 40.0	7.37	7.94	9.68
BBMW-03D	52.0 - 62.0	7.35	7.95	9.70
BBMW-04D	63.0 - 73.0	10.72	14.07	16.04
BBMW-07S	5.0 - 15.0	4.18	5.70	7.77
BBMW-07I	30.0 - 40.0	5.13	5.72	7.76
BBMW-07D	55.0 - 65.0	5.11	5.72	7.73
BBMW-15S	5.0 - 15.0	9.71	10.55	12.16
BBMW-15I	35.0 - 45.0	9.66	10.49	12.13
BBMW-15I2	23.0 - 28.0	9.66	10.46	12.09
BBMW-15D	70.0 -80.0	9.66	10.48	12.11
BBMW-16S	5.0 - 15.0	9.04	10.14	14.62
BBMW-16I	35.0 - 45.0	9.05	10.11	15.14
BBMW-16D	68.0 - 78.0	9.03	10.01	12.89
BBMW-23S	5.0 - 15.0	10.35	13.16	15.14
BBMW-23I	33.0 - 43.0	10.48	13.15	15.09
BBMW-23D	49.5 - 59.5	10.29	13.17	15.13
BBMW-23D2	63.0 - 73.0	10.31	13.11	15.13
BBMW-24S	4.0 - 14.0	9.41	11.00	12.89
BBMW-24I	32.0 - 42.0	9.44	10.92	12.70
BBMW-24D	59.5 - 69.5	9.44	10.89	12.63
BBMW-25S	4.0 - 14.0	7.23	8.33	10.40
BBMW-25I	25.0 - 35.0	7.25	8.34	10.37
BBMW-25D	62.0 - 72.0	7.18	8.33	10.35
GM-03S	6.78 - 21.78	8.94	9.67	10.83
GM-03I	30.03 - 45.03	8.76	9.54	10.67
GM-03D	53.18 - 68.18	8.86	9.64	10.77
GM-05S	5.1 - 20.1	2.12	2.99	4.57
GM-05I	35.05 - 48.05	2.28	3.16	4.82
GM-05D	60.95 - 75.95	5.53	7.56	9.04
GM-06S	8.97 - 23.97	2.59	3.50	5.56
GM-06I	35.40 - 40.40	2.60	3.54	5.57
GM-06D	60.05 - 75.05	2.71	3.52	5.57
GM-07S	9.75 - 24.75	1.40	2.59	4.41
GM-07I	29.6 - 44.6	1.32	2.59	4.39
GM-07D	50.3 - 65.3	1.52	2.64	4.36
GM-08S	6.35 - 21.35	0.37	1.06	2.81
GM-08I	29.95 - 44.95	0.53	1.06	2.81
GM-08D	48.25 - 63.25	0.26	1.05	2.80
GM-09S	20.0 - 25.0	0.26	0.73	1.63
GM-09I	40.0 - 45.0	0.26	0.73	1.73
GM-09D	48.35 - 63.35	0.02	0.82	1.73
GM-10AD	unknown	1.08	1.77	3.43

Table 3-4. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level		
		Minimum	Average	Maximum
GMP-01	25.0 - 30.0	2.97	3.46	5.40
GMP-02	18.0 - 23.0	2.24	2.75	4.76
GMP-04	15.5 - 20.5	0.47	1.33	2.80
MW-16AS	3.0 - 13.0	9.93	10.81	12.48
OU2-IW01S	3.0 - 8.0	0.95	2.83	4.97
OU2MW-01WT	3.0 - 8.0	7.74	8.52	10.29
OU2MW-01S	20.0 - 25.0	7.56	8.34	10.18
OU2MW-01I	35.0 - 40.0	7.56	8.45	10.25
OU2MW-01I2	50.0 - 55.0	7.55	8.30	9.16
OU2MW-01D	65.0 - 70.0	8.12	9.54	11.74
OU2MW-02S	20.0 - 25.0	7.50	8.31	9.99
OU2MW-02I	35.0 - 40.0	7.52	8.30	10.03
OU2MW-02I2	50.0 - 55.0	7.10	8.26	9.99
OU2MW-02D	65.0 - 70.0	7.71	8.44	10.14
OU2MW-03S	20.0 - 25.0	6.12	6.84	8.84
OU2MW-03I	35.0 - 40.0	6.14	6.84	8.86
OU2MW-03I2	50.0 - 55.0	6.12	6.77	8.32
OU2MW-03D	65.0 - 70.0	6.64	8.15	10.63
OU2MW-04WT	3.0 - 8.0	5.91	6.47	8.55
OU2MW-04S	20.0 - 25.0	5.60	6.46	8.37
OU2MW-04I	35.0 - 40.0	5.94	6.51	8.58
OU2MW-04I2	50.0 - 55.0	5.88	6.50	8.55
OU2MW-04D	65.0 - 70.0	5.99	6.52	8.56
OU2MW-05	25.0 - 35.0	-1.05	3.92	6.14
OU2MW-06S	3.0 - 8.0	1.28	2.26	4.07
OU2MW-06	25.0 - 35.0	0.81	2.25	4.11
OU2MW-07S	3.0 - 8.0	1.50	2.10	3.67
OU2MW-07	15.0 - 25.0	1.45	2.03	3.79
OU2MW-08WT	3.0 - 8.0	7.87	8.55	10.26
OU2MW-08S	20.0 - 25.0	7.85	8.58	10.28
OU2MW-08I	35.0 - 40.0	7.87	8.57	10.24
OU2MW-08I2	50.0 - 55.0	7.89	8.64	10.27
OU2MW-08D	65.0 - 70.0	8.31	9.32	11.06
OU2MW-09	20.0 - 30.0	6.96	7.94	9.67
OU2MW-10S	3.0 - 7.0	0.91	2.38	4.52
OU2MW-10I	20.0 - 25.0	1.00	2.38	4.55
OU2MW-10D	35.0 - 40.0	1.03	2.37	4.50
OU2MW-11S	3.0 - 8.0	3.29	3.75	5.83
OU2MW-11I	20.0 - 25.0	3.26	3.75	5.76
OU2MW-11I2	30.0 - 35.0	3.24	3.68	5.75
OU2MW-11D	40.0 - 45.0	3.11	3.68	5.70
OU2MW-12S	3.0 - 7.0	2.63	3.07	5.02
OU2MW-12I	20.0 - 25.0	2.66	3.15	5.18
OU2MW-12I2	30.0 - 35.0	2.61	3.11	5.07
OU2MW-12D	40.0 - 45.0	2.53	3.08	5.04
OU2MW-13S	3.0 - 8.0	1.47	2.15	3.72
OU2MW-13I	20.0 - 25.0	1.54	2.16	3.70
OU2MW-13D	35.0 - 40.0	1.58	2.16	3.68
OU2MW-14S	3.0 - 8.0	7.64	8.26	10.06
OU2MW-14I	20.0 - 25.0	7.99	8.55	10.30
OU2MW-14I2	40.0 - 45.0	7.99	8.58	10.35

Table 3-4. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level		
		Minimum	Average	Maximum
OU2MW-15S	3.0 - 8.0	1.68	2.41	4.58
OU2MW-15I	20.0 - 25.0	1.97	2.49	4.58
OU2MW-15I2	30.0 - 35.0	2.00	2.43	4.56
OU2MW-15D	40.0 - 45.0	2.02	2.48	4.53
OU2MW-16S	3.0 - 8.0	2.11	2.63	4.73
OU2MW-16I	15.0 - 20.0	2.12	2.57	4.63
OU2MW-16I2	25.0 - 30.0	2.04	2.54	4.66
OU2MW-16D	35.0 - 40.0	2.14	2.65	4.67
OU2MW-17S	5.0 - 10.0	12.05	12.78	13.56
OU2MW-17I	13.0 - 23.0	12.07	12.83	13.50
OU2MW-17I2	35.0 - 45.0	12.05	12.79	13.47
OU2MW-17D	60.0 - 70.0	12.05	12.70	13.35
OU2MW-18I	13.0 - 23.0	12.04	12.85	13.83
OU2MW-18I2	35.0 - 45.0	11.99	12.79	13.79
OU2MW-18D	60.0 - 70.0	12.02	12.79	13.87
OU2MW-39S	5.0 - 15.0	11.22	12.15	13.88
OU2MW-39I	25.0 - 30.0	11.20	12.12	13.86
OU2MW-39I2	45.0 - 50.0	11.19	12.28	15.26
OU2MW-39D	70.0 - 75.0	11.19	12.02	13.85
OU2MW-49S	3.0 - 13.0	12.51	13.31	13.66
OU2MW-49I	25.0 - 30.0	12.91	13.62	13.99
OU2MW-49I2	45.0 - 50.0	12.50	13.13	13.58
OU2MW-49D	63.0 - 68.0	12.49	13.12	13.57
OU2MW-50S	5.0 - 15.0	13.24	13.45	13.55
OU2MW-50I	25.0 - 30.0	13.14	13.36	13.52
OU2MW-50I2	45.0 - 50.0	13.23	13.42	13.53
OU2MW-50D	65.0 - 70.0	13.25	13.48	13.57
OU2MW-51S	5.0 - 15.0	13.29	13.38	13.47
OU2MW-51I	25.0 - 30.0	13.20	13.36	13.47
OU2MW-51I2	45.0 - 50.0	13.25	13.43	13.53
OU2MW-51D	61.0 - 66.0	13.27	13.39	13.46
OU2MW-52S	3.0 - 8.0	0.58	1.84	3.17
OU2MW-52I	20.0 - 25.0	0.27	1.74	3.36
OU2MW-52D	35.0 - 40.0	0.40	1.73	3.35
OU2MW-53S	3.0 - 8.0	0.34	1.34	3.12
OU2MW-53I	20.0 - 25.0	0.36	1.25	2.31
OU2MW-53D	35.0 - 40.0	0.51	1.21	1.84
OU2MW-54S	5.0 - 15.0	12.29	12.99	13.42
OU2MW-54I	25.0 - 30.0	12.22	13.14	14.94
OU2MW-54I2	40.0 - 45.0	12.25	12.79	13.18
OU2MW-54D	60.0 - 65.0	12.26	13.07	13.35
OU2MW-57S	5.0 - 15.0	12.40	13.13	13.61
OU2MW-57I	20.0 - 30.0	12.42	12.97	13.46
OU2MW-57I2	35.0 - 45.0	12.43	13.14	13.44
OU2MW-58S	5.0 - 15.0	12.72	13.09	13.71
OU2MW-58I	25.0 - 30.0	12.60	12.97	13.14

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

Table 3-5. Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 3 (OU-3)

Well ID	Date of Measurement	Time of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-09S	3/31/2014	14:19	21.93	6.12	15.81	
BBMW-09I	3/31/2014	14:20	22.01	6.18	15.83	
BBMW-09D	3/31/2014	14:21	22.43	6.23	16.20	
BBMW-28S	3/31/2014	13:20	16.43	1.45	14.98	
BBMW-28I	4/2/2014	13:20	16.43	1.55	14.88	
BBMW-29	4/1/2014	11:46	15.82	2.80	13.02	
BBMW-30S	4/1/2014	14:08	16.02	1.75	14.27	
BBMW-30I	4/1/2014	14:09	15.69	2.03	13.66	
BBMW-30D	4/1/2014	14:10	16.53	1.98	14.55	
BBMW-31S	4/1/2014	13:42	13.49	1.70	11.79	
BBMW-31I	4/1/2014	13:45	13.33	1.50	11.83	
BBMW-31D	4/1/2014	13:49	13.37	1.70	11.67	
BBMW-32S	4/1/2014	13:56	14.44	1.40	13.04	
BBMW-32I	4/1/2014	13:52	15.50	1.45	14.05	
BBMW-32D	4/1/2014	13:58	14.54	1.39	13.15	
BBMW-33	4/1/2014	14:54	16.58	3.90	12.68	
GM-02AS	4/1/2014	13:35	20.79	9.41	11.38	
GM-02AI	4/1/2014	13:36	20.75	9.25	11.50	
GM-02AD	4/1/2014	13:37	20.74	9.20	11.54	
MW-01S	4/1/2014	14:50	19.34	2.60	16.74	
MW-01D	4/1/2014	14:51	19.48	2.70	16.78	
MW-03	4/1/2014	15:02	19.30	3.09	16.21	
MW-04	4/1/2014	15:03	19.16	3.31	15.85	
MW-29S	4/1/2014	14:41	18.34	1.20	17.14	
MW-29D	4/1/2014	14:42	18.44	1.60	16.84	
MW-30WR	4/1/2014	11:40	14.83	1.40	13.43	
MW-32W/WR	4/1/2014	11:12	14.65	0.60	14.05	
MW-34S	4/1/2014	11:12	15.69	1.10	14.59	
MW-34I	4/1/2014	11:20	15.73	1.07	14.66	
MW-34D	4/1/2014	11:15	15.58	1.09	14.49	
MW-45W	4/1/2014	14:21	15.20	1.00	14.20	
MW-46W-R	4/1/2014	14:25	15.40	1.00	14.40	
MW-64	4/1/2014	10:18	16.03	0.70	15.33	
MW-65	4/2/2014	13:54	15.62	0.10	15.52	
MW-73	3/31/2014	13:37	15.75	0.60	15.15	
MW-73I	4/2/2014	13:26	16.32	1.75	14.57	
MW-75	4/1/2014	10:25	16.09	0.80	15.29	
MW-75I	4/1/2014	10:26	16.07	0.70	15.37	
MW-76	4/2/2014	13:56	15.15	0.30	14.85	
MW-78	4/2/2014	13:33	15.04	0.10	14.94	
MW-79	4/2/2014	13:36	15.32	0.4	14.92	
MW-80	4/1/2014	10:15	15.60	0.10	15.50	
MW-81	4/1/2014	10:16	15.47	0.30	15.17	
MW-82	4/2/2014	13:42	15.01	0.20	14.81	
MW-83	4/2/2014	13:49	15.02	0.30	14.72	
MWBS-02S	4/1/2014	11:52	13.58	1.30	12.28	
MWBS-02I	4/1/2014	11:53	13.46	2.00	11.46	
MWBS-02D	4/1/2014	11:59	13.54	1.40	12.14	
OU3MW-01S	4/1/2014	13:17	15.56	1.50	14.06	
OU3MW-02S	4/1/2014	14:17	15.16	0.60	14.56	
OU3MW-02I	4/1/2014	14:18	15.14	0.50	14.64	
OU3MW-04S	4/1/2014	11:27	14.80	0.90	13.90	
OU3MW-04I	4/1/2014	11:28	14.76	1.00	13.76	
OU3MW-04D	4/1/2014	11:29	14.84	1.20	13.64	
OU3MW-05S	4/1/2014	11:34	15.96	2.14	13.82	
OU3MW-05I	4/1/2014	11:35	15.90	2.00	13.90	
OU3MW-08S	3/31/2014	14:33	21.28	5.61	15.67	
OU3MW-08I	3/31/2014	14:34	21.42	5.73	15.69	
OU3MW-09S	3/31/2014	14:37	21.31	5.21	16.10	
OU3MW-09I	3/31/2014	14:38	21.41	5.51	15.90	
OU3MW-09I2	3/31/2014	14:39	21.24	5.38	15.86	
OU3MW-10S	3/31/2014	14:41	21.70	5.71	15.99	
OU3MW-10I	3/31/2014	14:42	21.70	5.75	15.95	
OU3MW-11S	3/31/2014	14:26	21.64	5.61	16.03	
OU3MW-11I	3/31/2014	14:27	21.62	5.73	15.89	

Table 3-5. Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 3 (OU-3)

Well ID	Date of Measurement	Time of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OU3MW-12S	3/31/2014	14:46	22.05	5.38	16.67	
OU3MW-12I	3/31/2014	14:47	22.07	5.41	16.66	
OU3MW-13S	4/1/2014	10:14	15.51	0.10	15.41	
OU3MW-14S	4/1/2014	10:16	15.91	0.70	15.21	
OU3MW-15S	4/2/2014	13:57	15.38	0.30	15.08	
OU3MW-16S	3/31/2014	14:51	21.42	5.69	15.73	
PDMW-01	4/1/2014	15:06	19.29	3.34	15.95	
SV-02	3/31/2014	13:45	17.37	1.85	15.52	
SV-02I	3/31/2014	13:46	17.63	2.10	15.53	
SV-02I2	3/31/2014	13:42	17.49	2.15	15.34	
BBSW-13*	4/1/2014	13:43	13.07	2.16	10.91	Cooper Lane near unnamed pond

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

Table 3-6. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 3 (OU-3)

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

Table 3-6. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 3 (OU-3)

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

Table 3-6. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 3 (OU-3)

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

Table 3-6. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 3 (OU-3)

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

Table 3-6. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 3 (OU-3)

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

Table 3-6. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 3 (OU-3)

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

Table 3-6. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 3 (OU-3)

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

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

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

Table 3-6. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level							
		Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Minimum	Average	Maximum
BBMW-09S	5.0 - 15.0	14.70	14.23	14.26	NC	15.81	12.61	14.71	16.78
BBMW-09I	30.0 - 40.0	14.81	14.78	14.36	14.52	15.83	12.60	14.74	16.77
BBMW-09D	62.0 - 72.0	14.80	15.14	14.38	14.93	16.20	12.61	14.77	16.76
BBMW-28S	2.0 - 12.0	13.86	13.81	13.51	13.93	14.98	12.89	13.86	15.33
BBMW-28I	10.0 - 20.0	14.13	14.06	13.48	13.86	14.88	12.88	13.87	15.32
BBMW-29	2.0 - 9.0	12.11	13.09	11.85	12.20	13.02	11.28	12.12	13.51
BBMW-30S	2.0 - 10.0	14.02	13.87	13.49	13.85	14.27	12.93	13.75	15.10
BBMW-30I	14.0 -19.0	13.48	13.40	13.48	13.67	13.66	12.92	13.67	15.13
BBMW-30D	30.0 - 35.0	14.24	14.14	13.47	13.83	14.55	12.91	13.76	15.11
BBMW-31S	2.0 - 10.0	11.08	11.13	11.02	11.19	11.79	10.38	11.04	12.27
BBMW-31I	14.0 -19.0	11.13	11.11	10.90	10.97	11.83	10.37	11.00	12.20
BBMW-31D	30.0 - 35.0	11.00	10.97	10.80	11.10	11.67	10.38	11.00	12.21
BBMW-32S	2.0 - 10.0	11.76	12.34	12.10	12.33	13.04	11.58	12.25	13.62
BBMW-32I	14.0 -19.0	13.35	13.38	13.11	13.42	14.05	12.59	13.28	14.66
BBMW-32D	30.0 - 35.0	12.33	12.34	12.18	12.47	13.15	11.56	12.31	13.63
BBMW-33	7.0 - 12.0	13.38	14.26	13.10	13.41	12.68	12.56	13.50	14.93
GM-02AS	8.91 - 23.91	10.99	10.98	10.51	10.87	11.38	9.94	10.70	12.21
GM-02AI	35.24 - 50.24	10.73	10.76	10.52	10.89	11.50	9.96	10.69	12.22
GM-02AD	59.8 - 74.8	10.84	10.73	10.72	11.06	11.54	10.06	10.90	12.44
MW-01S	4.0 - 14.0	16.07	16.04	15.66	16.16	16.74	13.64	16.05	17.99
MW-01D	35.0 - 45.0	16.11	16.13	15.69	16.16	16.78	13.66	16.07	18.03
MW-02S/SR	2.0 -12.0	NC	NC	NC	NC	NC	13.02	14.96	16.47
MW-02I/R	22.5 - 23.5	NC	NC	NC	NC	NC	13.83	15.36	20.02
MW-03	4.94 - 14.94	15.44	15.46	15.05	15.52	16.21	13.18	15.40	17.58
MW-04	5.1 - 15.1	15.19	15.17	14.78	15.17	15.85	12.98	15.24	19.16
MW-16S/SR	2.0 - 10.0	NC	NC	NC	NC	NC	12.35	14.83	16.47
MW-16I	14.0 - 19.0	NC	NC	NC	NC	NC	12.70	14.93	16.08
MW-29S	5.0 - 10.0	15.50	15.76	15.40	15.82	17.14	13.55	15.77	17.84
MW-29D	14.0 - 19.0	15.80	15.82	15.36	15.86	16.84	13.53	15.77	17.44
MW-30W	2.0 - 10.0	NC	NC	NC	NC	NC	14.57	15.26	15.89
MW-30WR	2.0 - 10.0	12.70	12.12	12.44	12.73	13.43	11.83	13.47	15.40
MW-32W/WR	2.0 - 10.0	13.22	11.91	12.91	13.26	14.05	11.91	13.11	13.72
MW-34S	2.0 - 10.0	13.69	13.62	13.28	13.66	14.59	12.72	13.62	15.09
MW-34I	18.5 - 19.5	13.58	13.65	13.25	13.65	14.66	12.74	13.59	15.06
MW-34D	27.5 - 28.5	13.49	13.58	13.26	13.64	14.49	12.68	13.61	15.07
MW-45W	2.0 - 10.0	13.62	13.42	13.50	13.66	14.20	12.79	13.69	15.16
MW-46W-R	2.0 - 10.0	13.60	13.47	13.26	13.43	14.40	13.26	13.41	13.60
MW-64	19.0 - 24.0	14.44	14.39	14.06	14.46	15.33	13.49	14.48	15.77
MW-65	11.0 - 16.0	13.88	14.38	14.06	14.48	15.52	13.44	14.26	14.88
MW-73	2.0 - 12.0	14.35	14.42	14.03	14.28	15.15	13.41	14.16	14.54
MW-73I	2.0 - 12.0	14.38	14.33	14.01	14.32	14.57	14.01	14.26	14.38
MW-75	2.0 - 12.0	14.43	14.39	14.01	14.96	15.29	13.24	14.24	14.96
MW-75I	22.0 - 27.0	14.35	14.28	13.95	15.07	15.37	13.95	14.41	15.07
MW-76	2.0 - 12.0	NC	NC	13.92	14.37	14.85	13.92	14.15	14.37
MW-78	5.0 - 20.0	14.44	14.42	14.08	14.54	14.94	14.08	14.35	14.60
MW-79	5.0 - 20.0	14.43	14.39	14.04	14.46	14.92	14.04	14.31	14.54
MW-80	5.0 - 20.0	14.37	14.40	14.09	14.43	15.50	13.48	14.22	14.65
MW-81	5.0 - 20.0	13.47	14.36	14.03	14.43	15.17	13.47	14.16	14.55
MW-82	5.0 - 20.0	14.51	14.40	14.07	14.40	14.81	14.07	14.31	14.63
MW-83	5.0 - 20.0	14.45	14.33	14.07	14.58	14.72	14.07	14.30	14.58

Table 3-6. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level							
		Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Minimum	Average	Maximum
MWBS-02S	5.0 - 15.0	11.45	11.41	10.91	11.27	12.28	10.18	11.19	11.70
MWBS-02I	14.5 - 15.5	11.29	11.34	11.15	11.68	11.46	10.54	11.19	11.68
MWBS-02D	24.5 - 25.5	11.20	11.41	10.83	11.64	12.14	10.39	11.16	11.73
OU3MW-01S	3.0 - 13.0	14.49	14.04	NC	NC	14.06	13.14	14.03	15.28
OU3MW-02S	3.0 - 13.0	13.91	13.83	13.44	13.76	14.56	12.88	13.62	15.05
OU3MW-02I	15.0 - 20.0	13.34	13.40	13.33	13.67	14.64	12.81	13.48	15.05
OU3MW-04S	1.5 - 11.5	12.96	12.93	12.65	13.00	13.90	12.17	12.91	14.42
OU3MW-04I	16.0 - 21.0	12.86	12.92	12.63	12.97	13.76	12.15	12.88	14.39
OU3MW-04D	26.0 - 31.0	12.89	12.93	12.61	12.97	13.64	12.09	12.86	14.38
OU3MW-05S	2.0 - 12.0	NC	12.03	12.71	13.09	13.82	12.03	12.61	13.09
OU3MW-05I	15.0 - 20.0	NC	11.95	12.67	13.08	13.90	11.95	12.57	13.08
OU3MW-08S	2.0 - 12.0	14.68	14.78	14.42	14.80	15.67	14.42	14.66	14.89
OU3MW-08I	25.0 - 30.0	14.97	14.78	14.44	14.80	15.69	14.44	14.71	14.97
OU3MW-09S	2.0 - 12.0	15.00	15.01	14.58	14.91	16.10	14.58	14.83	15.02
OU3MW-09I	25.0 - 30.0	14.90	14.89	14.47	14.99	15.90	14.47	14.76	14.99
OU3MW-09I2	35.0 - 40.0	14.87	14.85	14.43	14.72	15.86	14.43	14.72	14.87
OU3MW-10S	2.0 - 12.0	14.99	14.98	14.56	14.82	15.99	14.56	14.80	15.02
OU3MW-10I	25.0 - 30.0	14.93	14.89	14.49	14.90	15.95	14.49	14.76	14.97
OU3MW-11S	2.0 - 12.0	14.83	14.81	14.40	14.84	16.03	14.40	14.69	14.94
OU3MW-11I	25.0 - 30.0	14.81	14.75	14.39	14.77	15.89	14.39	14.66	14.91
OU3MW-12S	2.0 - 12.0	15.11	15.09	14.66	15.05	16.67	14.66	14.96	15.19
OU3MW-12I	25.0 - 30.0	NC	17.82	17.47	14.73	16.66	14.73	15.81	17.82
OU3MW-13S	20. - 12.0	13.63	14.36	14.07	14.44	15.41	13.63	14.13	14.44
OU3MW-14S	2.0 - 12.0	NC	14.36	14.00	14.40	15.21	14.00	14.25	14.40
OU3MW-15S	2.0 - 12.0	14.38	14.34	14.01	14.59	15.08	14.01	14.33	14.59
OU3MW-16S	2.0 - 16.0	14.81	14.80	14.39	14.90	15.73	14.39	14.73	14.90
PDMW-01	5.0 - 20.0	15.17	15.33	14.71	15.22	15.95	14.71	15.04	15.33
SV-02	2.0 - 12.0	14.97	14.53	14.17	14.77	15.52	14.03	14.50	14.97
SV-02I	22.0 - 27.0	14.31	14.20	13.88	16.22	15.53	13.88	14.65	16.22
SV-02I2	35.0 - 40.0	14.26	14.21	13.90	15.86	15.34	13.90	14.56	15.86

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

Table 3-7. Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 4 (OU-4)

Well ID	Date of Measurement	Time of Measurement	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
WCMW-02S	4/2/2014	10:05	15.34	1.90	13.44	
WCMW-02I	4/1/2013	10:06	15.23	2.25	12.98	
WCMW-02D	4/1/2013	10:07	15.15	2.36	12.79	
WCMW-04S	4/1/2013	8:50	19.27	5.20	14.07	
WCMW-04I	4/1/2013	8:49	19.21	5.35	13.86	
WCMW-04I2	4/1/2013	8:48	19.16	5.25	13.91	
WCMW-05S	4/1/2013	8:55	18.46	2.45	16.01	
WCMW-05I	4/1/2013	8:57	18.27	2.51	15.76	
WCMW-05I2	4/1/2013	8:57	18.39	2.76	15.63	
WCMW-06S	4/1/2013	9:40	17.13	2.86	14.27	
WCMW-06I	4/1/2013	9:41	17.30	3.21	14.09	
WCMW-06I2	4/1/2013	9:42	17.43	3.45	13.98	
WCMW-07S	4/1/2013	10:51	NS	2.93	NC	
WCMW-07I	4/1/2013	10:52	NS	2.68	NC	
WCMW-07I2	4/1/2013	10:53	NS	2.75	NC	
WCMW-08S	4/1/2013	11:08	17.64	2.68	14.96	
WCMW-08I	4/1/2013	11:09	17.72	2.55	15.17	
WCMW-08I2	4/1/2013	11:10	17.76	2.60	15.16	
WCMW-09S	NM	--	18.02	NM	NC	Abandoned
WCMW-10S	4/2/2014	9:00	17.44	3.56	13.88	
WCMW-10D	4/2/2014	9:01	17.36	3.73	13.63	
WCMW-11S	4/2/2014	8:20	18.87	4.31	14.56	
WCMW-11I	4/2/2014	8:21	19.18	4.45	14.73	
WCMW-11D	4/2/2014	8:22	19.02	4.55	14.47	
WCMW-12S	4/2/2014	10:29	16.88	3.98	12.90	
WCMW-12I	4/2/2014	10:26	17.19	4.21	12.98	
WCMW-12D	4/2/2014	10:27	17.15	4.01	13.14	
WCMW-13S	4/2/2014	10:16	15.11	2.55	12.56	
WCMW-13I	4/2/2014	10:17	15.41	2.51	12.90	
WCMW-13D	4/2/2014	10:18	15.38	2.41	12.97	
WCMW-14S	4/2/2014	9:50	16.97	3.81	13.16	
WCMW-14I	4/2/2014	9:51	16.98	4.06	12.92	
WCMW-14I2	4/2/2014	9:52	17.01	4.23	12.78	
WCMW-14D	4/2/2014	9:53	17.04	3.29	13.75	
WCMW-18WT	4/2/2014	11:23	17.00	2.93	14.07	
WCMW-18S	4/2/2014	11:20	17.20	2.23	14.97	
WCMW-18I	4/2/2014	11:22	17.22	2.35	14.87	
WCMW-18I2	4/2/2014	11:21	17.22	2.81	14.41	
WCMW-19S	4/2/2014	9:19	16.68	1.45	15.23	
WCMW-19I	4/2/2014	9:20	16.92	1.50	15.42	
WCMW-19I2	4/2/2014	9:21	16.64	1.90	14.74	
WCMW-22S	4/2/2014	NC	18.66	NC	NC	Inaccessible
WCMW-22I	4/2/2014	NC	18.36	NC	NC	Inaccessible
WCMW-23S	4/2/2014	NC	19.13	NC	NC	Inaccessible
WCMW-23I	4/2/2014	NC	19.06	NC	NC	Inaccessible
WCMW-25I	4/2/2014	15:05	18.65	4.25	14.40	
WCMW-25D	4/2/2014	15:06	18.61	4.51	14.10	
WCMW-26S	4/2/2014	8:11	20.08	3.93	16.15	
WCMW-26I	4/2/2014	8:12	20.73	4.21	16.52	
WCMW-26I2	4/2/2014	8:13	20.98	4.02	16.96	
WCMW-29S	4/2/2014	9:09	18.08	3.34	14.74	
WCMW-29I	4/2/2014	9:10	18.09	3.40	14.69	
BBSW-14*	4/2/2014	10:17	15.05	3.39	11.66	Watchogue Creek at Union Blvd.

Notes:

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

Table 3-8. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 4 (OU-4)

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

Table 3-8. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 4 (OU-4)

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

Table 3-8. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 4 (OU-4)

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

Table 3-8. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 4 (OU-4)

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

Table 3-8. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 4 (OU-4)

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

Table 3-8. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 4 (OU-4)

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

Table 3-8. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level								
		Jul-11	Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Minimum	Average	Maximum
WCMW-02S	3.0 - 13.0	12.87	12.71	13.32	15.34	13.04	13.44	12.25	13.26	15.34
WCMW-02I	34.5 - 44.5	12.82	12.64	13.24	15.23	13.07	12.98	12.28	13.23	15.23
WCMW-02D	62.0 - 72.0	12.86	12.85	13.40	15.15	13.28	12.79	12.34	13.28	15.15
WCMW-04S	1.5 - 11.5	13.89	14.71	14.16	19.27	14.08	14.07	13.10	14.30	19.27
WCMW-04I	19.0 - 24.0	13.80	14.60	13.99	19.21	14.00	13.86	13.10	14.27	19.21
WCMW-04I2	29.85 - 34.85	13.79	14.20	14.07	19.16	14.11	13.91	13.21	14.32	19.16
WCMW-05S	1.4 - 11.4	14.02	14.21	14.30	18.46	13.16	16.01	13.16	14.39	18.46
WCMW-05I	19.61 - 24.61	14.16	13.88	14.07	18.27	14.04	15.76	13.16	14.34	18.27
WCMW-05I2	29.46 - 34.46	14.43	14.01	14.07	18.39	14.04	15.63	13.17	14.39	18.39
WCMW-06S	2.0 - 12.0	NC	8.08	NC	17.13	13.59	14.27	8.08	13.80	17.13
WCMW-06I	19.55 - 24.55	13.59	8.19	NC	17.30	13.70	14.09	8.19	13.80	17.30
WCMW-06I2	29.83 - 34.83	13.59	8.36	NC	17.43	13.82	13.98	8.36	13.93	17.43
WCMW-07S	2.76 - 12.76	NC	NC	NC	NC	NC	NC	0.00	0.00	0.00
WCMW-07I	18.9 - 23.9	NC	NC	NC	NC	NC	NC	0.00	0.00	0.00
WCMW-07I2	28.95 - 33.95	NC	NC	NC	NC	NC	NC	0.00	0.00	0.00
WCMW-08S	4.2 - 9.2	13.37	14.64	14.58	17.64	14.74	14.96	13.37	14.81	17.64
WCMW-08I	19.2 - 24.2	13.37	14.71	14.68	17.72	14.75	15.17	13.37	14.86	17.72
WCMW-08I2	26.9 - 31.9	13.44	14.67	14.73	17.76	14.77	15.16	13.44	14.84	17.76
WCMW-09S	5.0 - 15.0	NC	14.93	NC	NC	NC	NC	13.64	14.64	15.98
WCMW-10S	15.0 - 20.0	14.07	13.81	14.14	17.44	14.23	13.88	13.47	14.54	17.44
WCMW-10D	40.0 - 50.0	14.04	13.89	14.15	17.36	14.07	13.63	13.42	14.47	17.36
WCMW-11S	5.0 - 15.0	NC	13.96	14.09	18.87	14.16	14.56	9.06	14.23	18.87
WCMW-11I	25.0 - 35.0	NC	14.29	14.11	19.18	14.34	14.73	13.64	14.99	19.18
WCMW-11D	50.0 - 60.0	NC	14.22	14.10	19.02	14.01	14.47	13.31	14.83	19.02
WCMW-12S	3.0 - 13.0	12.91	13.06	12.91	16.88	13.27	12.90	12.71	13.43	16.88
WCMW-12I	25.0 - 30.0	12.97	13.32	13.27	17.19	13.25	12.98	12.71	13.51	17.19
WCMW-12D	65.0 - 70.0	12.99	13.16	13.30	17.15	13.23	13.14	12.76	13.52	17.15
WCMW-13S	3.0 - 13.0	11.17	13.22	13.19	15.11	12.55	12.56	11.17	13.08	15.11
WCMW-13I	25.0 - 30.0	11.52	13.40	13.38	15.41	13.11	12.90	11.52	13.26	15.41
WCMW-13D	65.0 - 70.0	11.45	13.23	13.23	15.38	13.20	12.97	11.45	13.26	15.38
WCMW-14S	2.0 - 12.0	13.54	12.00	NC	16.97	13.66	13.16	12.00	13.97	16.97
WCMW-14I	20.0 - 25.0	13.76	11.93	NC	16.98	13.69	12.92	11.93	14.02	16.98
WCMW-14I2	30.0 - 35.0	13.74	11.93	NC	17.01	13.67	12.78	11.93	14.01	17.01
WCMW-14D	67.0 - 72.0	13.83	12.54	NC	17.04	13.89	13.75	12.42	14.19	17.04
WCMW-18WT	2.0 - 7.0	NC	14.17	14.49	17.00	14.55	14.07	13.61	14.74	17.00
WCMW-18S	2.0 - 12.0	NC	14.41	14.49	17.20	14.49	14.97	13.83	14.87	17.20
WCMW-18I	20.0 - 25.0	NC	14.51	14.50	17.22	14.46	14.87	13.81	14.87	17.22
WCMW-18I2	30.0 - 35.0	NC	14.47	14.49	17.22	14.46	14.41	13.80	14.81	17.22
WCMW-19S	2.0 - 12.0	14.59	14.77	14.80	16.68	14.77	15.23	14.15	15.09	16.68
WCMW-19I	20.0 - 25.0	14.58	15.04	14.81	16.92	14.82	15.42	14.13	15.13	16.92
WCMW-19I2	30.0 - 35.0	14.56	14.78	14.83	16.64	14.76	14.74	14.13	15.02	16.64

Table 3-8. Historical Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level								
		Jul-11	Oct-11	Jan-12	Apr-12	Apr-13	Apr-14	Minimum	Average	Maximum
WCMW-22S	2.0 - 12.0	14.00	NC	NC	NC	NC	NC	13.52	14.53	15.90
WCMW-22I	25.0 - 30.0	13.95	NC	NC	NC	NC	NC	13.47	14.38	15.76
WCMW-23S	3.0 - 13.0	13.72	13.34	NC	NC	NC	NC	13.25	13.98	15.62
WCMW-23I	25.0 - 30.0	13.73	13.36	NC	NC	NC	NC	13.23	13.99	15.64
WCMW-25I	30.0 - 35.0	13.73	13.66	13.79	18.65	9.67	14.40	9.67	13.97	18.65
WCMW-25D	55.0 - 60.0	13.72	13.60	13.79	18.61	9.62	14.10	9.62	13.90	18.61
WCMW-26S	2.0 - 12.0	15.50	15.76	15.70	20.08	15.72	16.15	15.00	16.29	20.08
WCMW-26I	20.0 - 25.0	16.06	16.22	16.22	20.73	16.33	16.52	15.57	16.83	20.73
WCMW-26I2	30.0 - 35.0	16.31	16.61	16.45	20.98	16.55	16.96	15.79	17.11	20.98
WCMW-29S	2.0 - 12.0	13.99	14.09	14.25	18.08	14.30	14.74	13.64	14.62	18.08
WCMW-29I	20.0 - 25.0	14.01	14.06	14.24	18.09	14.34	14.69	13.58	14.60	18.09

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

Table 4-1. Summary of Historical BTEX Groundwater Analysis Results
Bay Shore/Brightwaters Former MPG Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
BBMW-05D	64.0 - 74.0	--	--	1,523	943	--	0	600	--	--	1,890	--	--
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	16	0	--	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	--	--	0	0	--	--	--	--	--	0	--	--
BBMW-20S	4.0 - 14.0	--	--	--	15,140	--	6,190	11,700	--	--	10,876	--	10,120
BBMW-20I	35.0 - 45.0	--	--	--	40	--	193	170	--	--	110	--	142
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
BBMW-22I	30.0 - 40.0	--	--	--	36	--	25	22	--	28	13	--	--
BBMW-22D	64.0 - 74.0	--	--	--	8,600	--	5,028	6,297	--	--	2,370	--	--
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
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
BBMW-36I	25.0 - 30.0	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	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-1. Summary of Historical BTEX Groundwater Analysis Results
Bay Shore/Brightwaters Former MPG Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
BBMW-43I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-43I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	361	15	19	26	--	--	--	45	20	0	0	33
MW-03D	35.0 - 45.0	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	--	--
MW-05D	35.5 - 45.5	253	15	39	3	--	0	17	--	--	0	--	--
MW-09S	4.0 - 14.0	0	--	29	--	0	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	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-1. Summary of Historical BTEX Groundwater Analysis Results
Bay Shore/Brightwaters Former MPG Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
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. Summary of Historical BTEX Groundwater Analysis Results
Bay Shore/Brightwaters Former MPG Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct
BBMW-05D	64.0 - 74.0	--	680	--	--	--	890	1,267	3,150	553	1,597	613	21
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	--	--	0	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-20S	4.0 - 14.0	--	--	--	--	5,655	--	--	19,133	12,900	173	4,144	2,677
BBMW-20I	35.0 - 45.0	--	--	--	--	104	--	--	165	125	105	0	29
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	1,540	1,800	1,359
BBMW-22S	5.0 - 10.0	14,500	11,670	16,900	9,200	--	12,370	10,300	--	--	10,850	10,420	14,810
BBMW-22I	30.0 - 40.0	--	16	--	--	--	16	--	--	--	0	43	37
BBMW-22D	64.0 - 74.0	--	1,650	--	--	--	1,020	--	--	--	1,558	1,580	2,807
BBMW-26S	6.0 - 16.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-26I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-27S	5.0 - 15.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-27I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35D	63.0 -68.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-36I	25.0 - 30.0	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	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-1. Summary of Historical BTEX Groundwater Analysis Results
Bay Shore/Brightwaters Former MPG Site
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Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct
BBMW-43I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-43I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	35	--	180	34	0	132	31	250	10	0	111	116
MW-03D	35.0 - 45.0	--	--	--	--	--	0	--	--	--	0	0	0
MW-05S	4.0 - 14.0	--	24,395	--	--	--	14,197	17,327	18,100	24,600	48,430	15,905	12,929
MW-05D	35.5 - 45.5	--	0	--	--	--	12	0	0	0	0	18	22
MW-09S	4.0 - 14.0	0	--	--	--	--	0	--	--	--	0	0	0
MW-09I	30.0 - 40.0	--	--	--	--	--	0	--	--	--	0	0	2
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	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-1. Summary of Historical BTEX Groundwater Analysis Results
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Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct
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	--	--	--	--	--	--	--	--	--	--	--	--

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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jul	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
BBMW-05D	64.0 - 74.0	399	717	727	790	1,414	482	880	1,016	1,029	933	893	850
BBMW-05D2/D2R	126.5 - 136.5	--	0	--	--	--	7	--	--	--	--	--	0
BBMW-13D	62.0 - 72.0	0	0	--	--	--	0	--	--	--	0	2	0
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35.0 - 45.0	13	8	5	6	8	8	3	5	10	12	10	3
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	7,150	5,816	7,340	9,140	10,770	10,730	7,820	9,600	10,010	9,920	9,280	7,350
BBMW-22I	30.0 - 40.0	32	31	32	38	42	43	111	199	170	164	257	218
BBMW-22D	64.0 - 74.0	3,126	2,356	3,126	4,810	2,835	2,314	4,329	4,010	1,692	921	1,893	1,972
BBMW-26S	6.0 - 16.0	0	0	--	--	--	0	--	--	--	0	--	--
BBMW-26I	30.0 - 40.0	--	0	--	--	--	8	--	--	--	0	--	--
BBMW-27S	5.0 - 15.0	0	0	0	0	0	0	0	1	0	0	0	0
BBMW-27I	30.0 - 40.0	--	0	--	--	--	0	0	--	--	0	--	--
BBMW-34S	5.0 - 15.0	--	--	--	--	--	--	--	749	885	634	696	843
BBMW-34I	25.0 - 30.0	--	--	--	--	--	--	--	3,109	3,547	2,360	2,714	3,757
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	196	192	174	219	229
BBMW-34D	65.0 - 70.0	--	--	--	--	--	--	--	8	0	0	0	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	--	7	8	24	7
BBMW-36I	25.0 - 30.0	0	0	0	0	0	0	0	--	0	0	0	0
BBMW-37S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5.0 - 15.0	--	--	--	--	--	--	--	49	9	3	4	186
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	9	7	10	6	9
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	7	8	7	6	6
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-39S	5.0 - 15.0	--	--	--	--	--	--	--	9,755	5,970	8,580	3,341	5,362
BBMW-39I	25.0 - 30.0	--	--	--	--	--	--	--	0	0	0	210	0
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	1	0	0	0	0
BBMW-40S	5.0 - 15.0	--	--	--	--	--	--	--	5,069	5,987	1	10	6,390
BBMW-40I	25.0 - 30.0	--	--	--	--	--	--	--	5	12	26	12	0
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	3	0	0
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	37	19	4	0	1
BBMW-41S	6.0 - 16.0	--	--	--	--	--	--	--	6,819	2,192	4,407	3,773	3,099
BBMW-41I	25.0 - 30.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	2	1	0	0	0
BBMW-41D	65.0 - 70.0	--	--	--	--	--	--	--	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	--	--	--	--	--	--	--	--	--	--	--	--

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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jul	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
BBMW-43I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-43I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	18	30	5	--	--	34	28	--	--	30	7	20
MW-03D	35.0 - 45.0	0	0	--	--	--	0	0	--	--	0	0	0
MW-05S	4.0 - 14.0	18,130	15,095	8,060	14,554	2,304	9,600	2,655	7,891	9,341	7,150	1,311	3,333
MW-05D	35.5 - 45.5	0	0	0	7	5	26	29	22	15	7	14	25
MW-09S	4.0 - 14.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-09I	30.0 - 40.0	--	4	--	--	--	0	--	--	--	0	0	4
MW-09I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0
MW-09D	65.0 - 70.0	--	--	--	--	--	--	--	0	0	0	0	0
OU1PZ-101	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--
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
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	0	1	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	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	2,082	308
OU2MW-57I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	4,716	71
OU2MW-57I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	0
OZMW-16S	5.0 - 15.0	--	4,685	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
OZMW-16I2	35.0 - 45.0	--	3	4	8	2	12	92	686	468	464	558	855
OZMW-16D	55.0 - 65.0	--	0	0	0	0	0	0	0	0	0	0	0
OZMW-17S	5.0 - 15.0	--	1,664	78	52	25	141	17	337	35	0	0	0
OZMW-17I	20.0 - 30.0	--	1,316	82	23	40	74	42	67	9	0	0	0
OZMW-17I2	35.0 - 45.0	--	0	0	0	0	0	36	8	14	35	0	0
OZMW-17D	53.0 - 63.0	--	0	0	0	0	0	0	0	4	15	0	1
OZMW-18S	5.0 - 15.0	--	3,160	54	212	24	244	0	5	1	0	0	0
OZMW-18I	20.0 - 30.0	--	3,600	169	25	84	178	149	449	0	0	0	0
OZMW-18I2	35.0 - 45.0	--	201	95	57	123	129	50	104	63	7	5	1
OZMW-18D	55.0 - 65.0	--	77	31	79	147	216	94	389	612	384	424	186
OZMW-19S	5.0 - 15.0	--	--	--	--	--	--	--	--	391	0	86	73

Table 4-1. Summary of Historical BTEX Groundwater Analysis Results
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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jul	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
OZMW-19I	20.0 - 30.0	--	--	--	--	--	--	--	--	1,143	992	973	914
OZMW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	827	1,105	1,332	1,111
OZMW-19D	55.0 - 65.0	--	--	--	--	--	--	--	--	76	14	0	49
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	8,270	4,406	5,400	6,960
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	428	542	342	446
OZMW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	145	134	115	177
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	10	6	14	12
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
OZMW-22I/22IR	20.0 - 30.0	--	0	0	0	0	607	43	17	8	--	564	214
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
OZMW-23I	20.0 - 30.0	--	--	--	--	--	--	--	--	8	0	0	0
OZMW-23I2	35.0 - 45.0	--	--	--	--	--	--	--	--	11	1	0	0
OZMW-23D	55.0 - 65.0	--	--	--	--	--	--	--	--	20	33	24	0
OZMW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	25	13	13	5
OZMW-24I	20.0 - 30.0	--	--	--	--	--	--	--	--	22	0	0	0
OZMW-24I2	35.0 - 45.0	--	--	--	--	--	--	--	--	140	143	191	143
OZMW-24D	55.0 - 65.0	--	--	--	--	--	--	--	--	1,595	1,387	1,164	721
OZMW-25S	5.0 - 15.0	--	--	--	--	--	--	1,691	1,724	2,883	3,070	2,365	2,226
OZMW-25I	20.0 - 30.0	--	--	--	--	--	--	198	248	257	310	291	355
OZMW-25I2	35.0 - 45.0	--	--	--	--	--	--	91	177	158	141	196	306
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	0	0	0	0	0	0
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	44	18	5	24
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	9	0	0	0
OZMW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	393	159	48	100
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--	--	--	0	0	0	0

Table 4-1. Summary of Historical BTEX Groundwater Analysis Results
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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2010	2011				2012				2013		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
BBMW-05D	64.0 - 74.0	884	1,211	1,041	14	4	99	929	839	866	1,326	914	628
BBMW-05D2/D2R	126.5 - 136.5	0	0	14	0	0	5	0	0	--	--	--	--
BBMW-13D	62.0 - 72.0	0	0	--	--	--	0	--	--	--	--	--	--
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35.0 - 45.0	1	27	114	6	10	6	10	8	0	5	2	19
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	5,860	10,540	9,110	2,834	8,720	8,669	7,586	8,096	7,511	5,962	6898	6864
BBMW-22I	30.0 - 40.0	251	270	231	256	279	171	340	223	124	213	385	125
BBMW-22D	64.0 - 74.0	1,781	2,102	1,842	501	1,962	1,221	1,702	1,671	1,132	1,230	1271	--
BBMW-26S	6.0 - 16.0	--	0	--	--	--	0	--	--	--	--	--	--
BBMW-26I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	--	--	--
BBMW-27S	5.0 - 15.0	0	0	0	0	0	0	0	0	--	--	0	--
BBMW-27I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	--	--	--
BBMW-34S	5.0 - 15.0	534	587	586	413	626	554	322	244	266	100	374	218
BBMW-34I	25.0 - 30.0	3,177	2,272	1,894	1,544	1,239	2,158	1,105	1,290	1,248	1,202	1081	1233
BBMW-34I2	40.0 - 45.0	283	171	154	135	82	101	102	44	43	39	44	--
BBMW-34D	65.0 - 70.0	0	0	14	0	0	3	5	0	0	0	0	--
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	--	--	0	--
BBMW-35I2	45.0 - 50.0	--	0	0	0	0	0	0	0	--	--	0	--
BBMW-35D	63.0 -68.0	--	0	2	0	0	0	0	0	--	--	0	--
BBMW-36S	5.0 - 15.0	6	6	0	6	0	7	6	3	--	--	8	--
BBMW-36I	25.0 - 30.0	0	0	0	0	0	0	0	0	--	--	0	--
BBMW-37S	5.0 - 10.0	--	--	--	--	271	251	257	--	244	202	75	16
BBMW-37I	20.0 - 30.0	--	--	--	--	1,082	1,208	1,657	--	991	709	773	702
BBMW-37I2	35.0 - 45.0	--	--	--	--	412	341	352	--	216	267	189	249
BBMW-37D	55.0 - 65.0	--	--	--	--	8	0	0	--	0	0	0	--
BBMW-38S	5.0 - 15.0	432	1	5	187	9	4	5	4	303	162	497	394
BBMW-38I	25.0 - 30.0	3	4	12	3	5	4	2	2	3	3	7	--
BBMW-38I2	40.0 - 45.0	4	11	6	4	11	8	7	0	0	6	7	--
BBMW-38D	65.0 - 70.0	0	0	0	0	12	0	0	0	0	0	0	--
BBMW-39S	5.0 - 15.0	5,720	3,615	3,430	3,365	10,700	11,900	2,503	9,250	5,253	6,120	3528	10110
BBMW-39I	25.0 - 30.0	0	2	0	1	35	0	12	0	0	0	199	356
BBMW-39I2	45.0 - 50.0	0	0	0	0	5	0	0	0	0	0	0	0
BBMW-39D	65.0 - 70.0	0	28	0	2	1	23	0	0	0	0	0	--
BBMW-40S	5.0 - 15.0	3,589	170	119	2,797	0	0	0	68	1,012	2,016	3035	1815
BBMW-40I	25.0 - 30.0	1	11	2	67	7	1	23	1	0	6	2	0
BBMW-40I2	45.0 - 50.0	0	0	15	0	622	2,478	2,302	2,425	0	0	0	0
BBMW-40D	70.0 - 75.0	0	0	0	0	0	0	0	0	--	--	0	--
BBMW-41S	6.0 - 16.0	1,856	2,819	11,320	5,325	4,689	4,410	4,015	6,915	5,520	6,216	8730	9437
BBMW-41I	25.0 - 30.0	0	0	56	348	0	0	202	315	0	0	0	25
BBMW-41I2	45.0 - 50.0	0	0	0	0	0	0	0	0	--	--	0	--
BBMW-41D	65.0 - 70.0	0	0	0	0	0	0	0	0	--	--	0	--
BBMW-42S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	76	48	28
BBMW-42I	15.0-25.0	--	--	--	--	--	--	--	--	--	516	778	315
BBMW-42I2	35.0-45.0	--	--	--	--	--	--	--	--	--	407	332	334
BBMW-43S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	0	0	0

Table 4-1. Summary of Historical BTEX Groundwater Analysis Results
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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2010	2011				2012				2013		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
BBMW-43I	15.0-25.0	--	--	--	--	--	--	--	--	--	446	40	284
BBMW-43I2	35.0-45.0	--	--	--	--	--	--	--	--	--	1	0	0
MW-03S	3.0 - 13.0	12	4	15	1	29	16	9	23	4	5	15	24
MW-03D	35.0 - 45.0	--	0	--	--		0	--	--	--	--	--	--
MW-05S	4.0 - 14.0	6,653	8,398	5,165	4,901	7,344	5,832	6,736	3,214	5,117	4,014	4714	2078
MW-05D	35.5 - 45.5	15	17	343	457	19	14	11	10	154	8	260	13
MW-09S	4.0 - 14.0	0	0	0	0	0	0	0	0	--	--	0	--
MW-09I	30.0 - 40.0	--	0	--	--	--	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	0	0	0	0	0	0	0	0	--	--	0	--
OU2MW-48I	25.0 - 30.0	0	0	0	0	0	0	0	0	--	--	0	--
OU2MW-48I2	45.0 - 50.0	0	0	0	0	0	0	0	0	--	--	0	--
OU2MW-48D	65.0 - 70.0	0	0	0	0	0	0	0	0	--	--	0	--
OU2MW-49S	3.0 - 13.0	0	0	0	0	0	0	0	0	--	--	0	--
OU2MW-49I	25.0 - 30.0	0	0	0	0	0	0	0	0	--	--	0	--
OU2MW-49I2	45.0 - 50.0	0	0	0	0	0	0	0	0	--	--	0	--
OU2MW-49D	63.0 - 68.0	0	0	0	0	0	0	0	0	--	--	0	--
OU2MW-50S	5.0 - 15.0	--	274	239	0	0	39	10	0	0	0	0	0
OU2MW-50I	25.0 - 30.0	--	1	0	1	0	0	0	0	0	0	4	0
OU2MW-50I2	45.0 - 50.0	--	0	2	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
OU2MW-51S	5.0 - 15.0	--	7	6	7	9	6	2	2	4	0	0	--
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	310	242	322	98	174	97	94	82	50	20	26	21
OU2MW-57I	20.0 - 30.0	44	32	114	0	0	28	4	4	0	0	0	0
OU2MW-57I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-16S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-16I	20.0 - 30.0	44	8	1	18	0	1	157	4	3	0	0	0
OZMW-16I2	35.0 - 45.0	634	683	671	603	88	466	553	53	282	18	166	3
OZMW-16D	55.0 - 65.0	0	0	0	0	0	0	0	0	3	0	0	0
OZMW-17S	5.0 - 15.0	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	2	0	0	0
OZMW-17I2	35.0 - 45.0	0	5	0	0	0	0	0	0	0	0	0	0
OZMW-17D	53.0 - 63.0	0	0	0	0	23	15	0	302	295	445	101	71
OZMW-18S	5.0 - 15.0	0	0	0	0	0	0	0	0	2	0	0	0
OZMW-18I	20.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	221
OZMW-18I2	35.0 - 45.0	6	0	0	0	4	7	1	24	0	6	0	0
OZMW-18D	55.0 - 65.0	222	273	158	218	204	274	201	434	203	351	126	0
OZMW-19S	5.0 - 15.0	493	698	137	4	41	1,792	947	113	146	228	618	321

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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2010	2011				2012				2013		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
OZMW-19I	20.0 - 30.0	689	664	670	606	413	647	535	297	451	501	441	460
OZMW-19I2	35.0 - 45.0	924	697	608	1,188	353	528	1,016	519	368	685	574	323
OZMW-19D	55.0 - 65.0	17	17	20	9	68	0	0	46	22	17	0	0
OZMW-21S	5.0 - 15.0	6,730	6,730	7,540	2,903	5,420	5,330	4,283	6,110	6,384	2,122	5471	--
OZMW-21I	20.0 - 30.0	465	418	407	459	365	453	431	399	366	326	309	--
OZMW-21I2	35.0 - 45.0	153	175	112	190	175	102	105	380	145	82	57	96
OZMW-21D	55.0 - 65.0	3	5	4	10	7	0	0	0	0	0	1	--
OZMW-22S/22SR	5.0 - 15.0	1,075	1,251	435	614	405	469	263	417	42	225	167	73
OZMW-22I/22IR	20.0 - 30.0	24	15	0	23	216	191	68	28	72	34	23	2
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	13	0	0
OZMW-23I	20.0 - 30.0	0	0	0	0	0	1	0	0	0	6	0	0
OZMW-23I2	35.0 - 45.0	0	2	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
OZMW-24S	5.0 - 15.0	4	6	0	1	2	0	1	4	0	4	0	0
OZMW-24I	20.0 - 30.0	0	0	0	0	0	24	4	0	0	6	0	0
OZMW-24I2	35.0 - 45.0	129	158	131	111	674	220	176	181	137	249	194	106
OZMW-24D	55.0 - 65.0	876	1,525	1,394	1,215	1,034	984	946	1,023	809	946	930	583
OZMW-25S	5.0 - 15.0	1,145	1,015	2,444	774	1,180	1,468	711	2,278	765	0	1893	818
OZMW-25I	20.0 - 30.0	340	285	409	370	416	477	441	265	299	529	427	420
OZMW-25I2	35.0 - 45.0	149	100	152	239	37	41	104	90	24	26	91	232
OZMW-25D	55.0 - 65.0	0	0	17	0	0	0	0	8	0	11	0	9
OZMW-26S	5.0 - 15.0	11	5	0	0	0	0	0	9	--	--	0	--
OZMW-26I	20.0 - 30.0	0	0	0	7	9	29	79	34	76	1	7	0
OZMW-26I2	35.0 - 45.0	200	155	26	47	89	35	5	47	27	12	0	2
OZMW-26D	55.0 - 65.0	0	0	1	0	1	0	0	0	--	--	0	--

Table 4-1. Summary of Historical BTEX Groundwater Analysis Results
Bay Shore/Brightwaters Former MPG Site
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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)							
		Sampling Date			Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2013	2014						
		Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-05D	64.0 - 74.0	941	1059	1235	0	3,150	887	0	3,150
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	0	16	3	0	16
BBMW-13D	62.0 - 72.0	--	--	--	0	2	0	0	2
BBMW-20S	4.0 - 14.0	--	--	--	173	19,133	8,973	173	19,133
BBMW-20I	35.0 - 45.0	0	0	91	0	193	40	0	193
BBMW-20D	62.0 - 72.0	--	--	--	1,359	9,639	3,569	1,359	9,639
BBMW-22S	5.0 - 10.0	7644	5506	7430	2,834	25,800	10,615	2,834	25,800
BBMW-22I	30.0 - 40.0	186	176	160	0	385	133	0	385
BBMW-22D	64.0 - 74.0	--	--	--	501	8,600	2,522	501	8,600
BBMW-26S	6.0 - 16.0	--	--	--	0	0	0	0	0
BBMW-26I	30.0 - 40.0	--	--	--	0	8	1	0	8
BBMW-27S	5.0 - 15.0	--	--	0	0	1	0	0	1
BBMW-27I	30.0 - 40.0	--	--	--	0	0	0	0	0
BBMW-34S	5.0 - 15.0	139	165	90	100	885	470	90	885
BBMW-34I	25.0 - 30.0	946	672	1247	672	3,757	1,924	672	3,757
BBMW-34I2	40.0 - 45.0	--	--	--	39	283	138	39	283
BBMW-34D	65.0 - 70.0	--	--	0	0	14	2	0	14
BBMW-35S	5.0 - 15.0	--	--	0	0	0	0	0	0
BBMW-35I	25.0 - 30.0	--	--	0	0	0	0	0	0
BBMW-35I2	45.0 - 50.0	--	--	0	0	0	0	0	0
BBMW-35D	63.0 -68.0	--	--	0	0	2	0	0	2
BBMW-36S	5.0 - 15.0	--	--	0	0	24	2	0	24
BBMW-36I	25.0 - 30.0	--	--	0	0	0	0	0	0
BBMW-37S	5.0 - 10.0	137	7	4	7	271	162	4	271
BBMW-37I	20.0 - 30.0	3922	103	42	103	3,922	1,239	42	3,922
BBMW-37I2	35.0 - 45.0	272	96	6	96	412	266	6	412
BBMW-37D	55.0 - 65.0	--	--	1	0	8	1	0	8
BBMW-38S	5.0 - 15.0	604	305	451	1	604	166	1	604
BBMW-38I	25.0 - 30.0	--	--	--	2	12	6	2	12
BBMW-38I2	40.0 - 45.0	--	--	--	0	11	6	0	11
BBMW-38D	65.0 - 70.0	--	--	6	0	12	1	0	12
BBMW-39S	5.0 - 15.0	954	623	580	623	11,900	5,794	580	11,900
BBMW-39I	25.0 - 30.0	0	0	0	0	356	43	0	356
BBMW-39I2	45.0 - 50.0	--	--	0	0	5	0	0	5
BBMW-39D	65.0 - 70.0	--	--	0	0	28	3	0	28
BBMW-40S	5.0 - 15.0	816	572	0	0	6,390	1,761	0	6,390
BBMW-40I	25.0 - 30.0	0	1	4	0	67	9	0	67
BBMW-40I2	45.0 - 50.0	0	--	0	0	2,478	436	0	2,478
BBMW-40D	70.0 - 75.0	--	--	0	0	37	4	0	37
BBMW-41S	6.0 - 16.0	3009	4015	7622	1,856	11,320	5,188	1,856	11,320
BBMW-41I	25.0 - 30.0	0	0	0	0	348	50	0	348
BBMW-41I2	45.0 - 50.0	--	--	0	0	2	0	0	2
BBMW-41D	65.0 - 70.0	--	--	0	0	0	0	0	0
BBMW-42S	5.0 - 10.0	346	44	63	28	346	108	28	346
BBMW-42I	15.0-25.0	515	8	9	8	778	426	8	778
BBMW-42I2	35.0-45.0	606	269	103	269	606	390	103	606
BBMW-43S	5.0 - 10.0	0	0	0	0	0	0	0	0

Table 4-1. Summary of Historical BTEX Groundwater Analysis Results
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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)							
		Sampling Date			Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2013	2014						
		Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-43I	15.0-25.0	184	22	0	22	446	195	0	446
BBMW-43I2	35.0-45.0	0	0	4	0	1	0	0	4
MW-03S	3.0 - 13.0	1	2	11	0	361	42	0	361
MW-03D	35.0 - 45.0	--	--	--	0	0	0	0	0
MW-05S	4.0 - 14.0	3713	3610	3400	1,311	48,430	13,121	1,311	48,430
MW-05D	35.5 - 45.5	8	10	13	0	457	46	0	457
MW-09S	4.0 - 14.0	--	--	0	0	29	1	0	29
MW-09I	30.0 - 40.0	--	--	--	0	4	1	0	4
MW-09I2	45.0 - 50.0	--	--	--	0	0	0	0	0
MW-09D	65.0 - 70.0	--	--	--	0	0	0	0	0
OU1PZ-101	4.0 - 14.0	--	1,242	3675	1,242	1,242	1,242	1,242	3,675
OU1PZ-102	4.0 - 14.0	--	15	25	15	15	15	15	25
OU1PZ-103	4.0 - 14.0	--	982	367	982	982	982	367	982
OU1PZ-104	4.0 - 14.0	--	6	14	6	6	6	6	14
OU1PZ-105	4.0 - 14.0	--	950	1250	950	950	950	950	1,250
OU2MW-48S	3.0 - 13.0	--	--	1	0	8	1	0	8
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	0	1	0	0	1
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	274	43	0	274
OU2MW-50I	25.0 - 30.0	24	0	2	0	24	2	0	24
OU2MW-50I2	45.0 - 50.0	0	0	0	0	2	0	0	2
OU2MW-50D	65.0 - 70.0	0	0	0	0	0	0	0	0
OU2MW-51S	5.0 - 15.0	--	--	0	0	9	4	0	9
OU2MW-51I	25.0 - 30.0	--	--	0	0	0	0	0	0
OU2MW-51I2	45.0 - 50.0	--	--	0	0	3	0	0	3
OU2MW-51D	61.0 - 66.0	--	--	0	0	0	0	0	0
OU2MW-57S	5.0 - 15.0	77	16	18	16	2,082	251	16	2,082
OU2MW-57I	20.0 - 30.0	0	0	0	0	4,716	313	0	4,716
OU2MW-57I2	35.0 - 45.0	0	0	0	0	0	0	0	0
OZMW-16S	5.0 - 15.0	0	0	0	0	4,685	187	0	4,685
OZMW-16I	20.0 - 30.0	2	0	0	0	775	121	0	775
OZMW-16I2	35.0 - 45.0	286	10	5	2	855	307	2	855
OZMW-16D	55.0 - 65.0	0	0	0	0	3	0	0	3
OZMW-17S	5.0 - 15.0	0	0	0	0	1,664	94	0	1,664
OZMW-17I	20.0 - 30.0	0	0	0	0	1,316	66	0	1,316
OZMW-17I2	35.0 - 45.0	0	0	0	0	36	4	0	36
OZMW-17D	53.0 - 63.0	122	684	256	0	684	83	0	684
OZMW-18S	5.0 - 15.0	0	0	0	0	3,160	148	0	3,160
OZMW-18I	20.0 - 30.0	0	0	0	0	3,600	195	0	3,600
OZMW-18I2	35.0 - 45.0	0	0	0	0	201	35	0	201
OZMW-18D	55.0 - 65.0	136	291	138	0	612	229	0	612
OZMW-19S	5.0 - 15.0	188	291	43	0	1,792	365	0	1,792

Table 4-1. Summary of Historical BTEX Groundwater Analysis Results
Bay Shore/Brightwaters Former MPG Site
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Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)							
		Sampling Date			Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2013	2014						
		Oct-Dec	Jan-Mar	Apr-Jun					
OZMW-19I	20.0 - 30.0	240	329	333	240	1,143	609	240	1,143
OZMW-19I2	35.0 - 45.0	506	563	563	323	1,332	735	323	1,332
OZMW-19D	55.0 - 65.0	20	9	4	0	76	21	0	76
OZMW-21S	5.0 - 15.0	--	--	--	2,122	8,270	5,604	2,122	8,270
OZMW-21I	20.0 - 30.0	--	--	--	309	542	410	309	542
OZMW-21I2	35.0 - 45.0	177	135	74	57	380	148	57	380
OZMW-21D	55.0 - 65.0	--	--	--	0	14	5	0	14
OZMW-22S/22SR	5.0 - 15.0	16	76	25	16	11,947	2,914	16	11,947
OZMW-22I/22IR	20.0 - 30.0	0	0	5	0	607	90	0	607
OZMW-22I2	35.0 - 45.0	--	--	--	0	2	0	0	2
OZMW-22D	55.0 - 65.0	--	--	--	0	0	0	0	0
OZMW-23S	5.0 - 15.0	0	0	0	0	13	1	0	13
OZMW-23I	20.0 - 30.0	0	0	0	0	8	1	0	8
OZMW-23I2	35.0 - 45.0	0	0	0	0	11	1	0	11
OZMW-23D	55.0 - 65.0	0	0	0	0	33	4	0	33
OZMW-24S	5.0 - 15.0	0	0	0	0	25	4	0	25
OZMW-24I	20.0 - 30.0	0	2	0	0	24	3	0	24
OZMW-24I2	35.0 - 45.0	82	139	172	82	674	184	82	674
OZMW-24D	55.0 - 65.0	642	743	611	583	1,595	1,029	583	1,595
OZMW-25S	5.0 - 15.0	1317	663	1047	0	3,070	1,521	0	3,070
OZMW-25I	20.0 - 30.0	575	509	571	198	575	371	198	575
OZMW-25I2	35.0 - 45.0	118	26	55	24	306	125	24	306
OZMW-25D	55.0 - 65.0	1	0	0	0	17	2	0	17
OZMW-26S	5.0 - 15.0	0	--	0	0	44	8	0	44
OZMW-26I	20.0 - 30.0	0	4	7	0	79	14	0	79
OZMW-26I2	35.0 - 45.0	57	24	3	0	393	79	0	393
OZMW-26D	55.0 - 65.0	0	--	0	0	1	0	0	1

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

Table 4-2. Summary of Historical Total PAH Groundwater Analysis Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
BBMW-05D	64.0 - 74.0	--	--	3,249	4,181	--	2,247	1,800	--	--	3,187	--	--
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	147	0	--	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	--	--	0	40	--	--	--	--	--	0	--	--
BBMW-20S	4.0 - 14.0	--	--	--	2,248	--	3,080	15,000	--	--	3,408	--	1,758
BBMW-20I	35.0 - 45.0	--	--	--	7,134	--	7,900	7,400	--	--	6,939	--	6,956
BBMW-20D	62.0 - 72.0	--	--	--	14,594	--	7,300	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	--	--	--	3,954	--	3,700	2,500	3,608	--	2,400	2,042	4,460
BBMW-22I	30.0 - 40.0	--	--	--	8,810	--	8,000	3,500	--	--	7,240	--	--
BBMW-22D	64.0 - 74.0	--	--	--	11,436	--	8,808	5,300	--	--	145,100	--	--
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35D	63.0-68.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-42S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-42I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-42I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-43S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-2. Summary of Historical Total PAH Groundwater Analysis Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
BBMW-43I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-43I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	620	17	1,425	104	--	--	--	120	20	0	28	25
MW-03D	35.0 - 45.0	0	0	0	0	--	--	--	--	--	184	--	--
MW-05S	4.0 - 14.0	5,514	2,360	2,964	2,682	--	2,100	1,600	--	--	2,783	--	--
MW-05D	35.5 - 45.5	4,292	3,959	4,944	2,501	--	4,560	2,600	--	--	3,214	--	--
MW-09S	4.0 - 14.0	0	--	0	--	0	74	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	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-2. Summary of Historical Total PAH Groundwater Analysis Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		1992	1999		2002			2003			2004		
		Sep	Sep	Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
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. Summary of Historical Total PAH Groundwater Analysis Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct
BBMW-05D	64.0 - 74.0	--	3,109	--	--	--	2,924	352	4,492	2,386	2,371	1,233	40
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	--	--	0	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-20S	4.0 - 14.0	--	--	--	--	2,483	--	--	1,365	2,179	1,819	1,343	860
BBMW-20I	35.0 - 45.0	--	--	--	--	8,636	--	--	7,722	5,749	7,160	2,189	2,033
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	2,289	4,688	5,460
BBMW-22S	5.0 - 10.0	4,780	2,640	143	4,549	--	4,131	2,214	--	--	1,634	2,931	3,629
BBMW-22I	30.0 - 40.0	--	5,865	--	--	--	7,114	--	--	--	4,696	4,283	4,879
BBMW-22D	64.0 - 74.0	--	4,418	--	--	--	6,288	--	--	--	2,725	3,310	5,374
BBMW-26S	6.0 - 16.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-26I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	0	0	1
BBMW-27S	5.0 - 15.0	--	--	--	--	--	0	--	--	--	0	0	0
BBMW-27I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	0	0	0
BBMW-34S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-35D	63.0-68.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-37D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-42S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-42I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-42I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-43S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-2. Summary of Historical Total PAH Groundwater Analysis Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct
BBMW-43I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-43I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	0	--	0	21	0	25	11	0	0	0	0	9
MW-03D	35.0 - 45.0	--	--	--	--	--	0	--	--	--	0	0	0
MW-05S	4.0 - 14.0	--	2,144	--	--	--	2,220	1,647	2,493	1,652	1,647	1,294	1,630
MW-05D	35.5 - 45.5	--	2,842	--	--	--	2,456	435	1,984	3,122	1,113	142	55
MW-09S	4.0 - 14.0	0	--	--	--	--	0	--	--	--	0	0	0
MW-09I	30.0 - 40.0	--	--	--	--	--	0	--	--	--	0	0	2
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	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-2. Summary of Historical Total PAH Groundwater Analysis Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2004	2005				2006				2007		
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct
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. Summary of Historical Total PAH Groundwater Analysis Results
Bay Shore/Brightwaters Former MGP Site
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Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
BBMW-05D	64.0 - 74.0	930	981	1,203	1,555	1,165	786	2,767	186	1,704	2,711	1,400	2,098
BBMW-05D2/D2R	126.5 - 136.5	--	0	--	--	--	0	--	--	--	--	--	0
BBMW-13D	62.0 - 72.0	0	0	--	--	--	0	--	--	--	0	0	0
BBMW-20S	4.0 - 14.0	--	--	--	--	--	0	--	--	--	--	--	--
BBMW-20I	35.0 - 45.0	452	75	48	348	165	1,150	137	657	78	157	37	471
BBMW-20D	62.0 - 72.0	--	--	--	--	--	0	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	3,189	24	25	1,961	1,972	1,664	986	2,329	3,239	4,564	3,290	3,210
BBMW-22I	30.0 - 40.0	5,212	5,536	4,290	4,686	4,680	4,949	6,539	4,155	5,071	5,634	6,469	4,653
BBMW-22D	64.0 - 74.0	8,516	4,257	4,894	6,442	5,681	5,140	8,539	5,411	3,812	4,425	4,301	5,276
BBMW-26S	6.0 - 16.0	24	0	--	--	--	0	--	--	--	0	--	--
BBMW-26I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	0	--	--
BBMW-27S	5.0 - 15.0	0	0	0	2	0	0	0	0	0	0	0	0
BBMW-27I	30.0 - 40.0	--	0	--	--	--	0	0	--	--	0	--	--
BBMW-34S	5.0 - 15.0	--	--	--	--	--	--	--	969	524	612	440	468
BBMW-34I	25.0 - 30.0	--	--	--	--	--	--	--	2,223	1,887	3,283	1,592	2,562
BBMW-34I2	40.0 - 45.0	--	--	--	--	--	--	--	2,033	2,126	2,219	1,643	1,534
BBMW-34D	65.0 - 70.0	--	--	--	--	--	--	--	478	256	237	148	120
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	2	2	23
BBMW-36I	25.0 - 30.0	--	--	--	--	--	--	--	--	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	--	--	--	--	--	--	--	13	14	0	25	50
BBMW-38I	25.0 - 30.0	--	--	--	--	--	--	--	131	1,075	732	660	212
BBMW-38I2	40.0 - 45.0	--	--	--	--	--	--	--	706	931	211	574	116
BBMW-38D	65.0 - 70.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-39S	5.0 - 15.0	--	--	--	--	--	--	--	914	488	1,627	18	761
BBMW-39I	25.0 - 30.0	--	--	--	--	--	--	--	45	1	0	231	2
BBMW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-39D	65.0 - 70.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-40S	5.0 - 15.0	--	--	--	--	--	--	--	1,322	73	0	0	4,533
BBMW-40I	25.0 - 30.0	--	--	--	--	--	--	--	51	3	24	8	25
BBMW-40I2	45.0 - 50.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-40D	70.0 - 75.0	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-41S	6.0 - 16.0	--	--	--	--	--	--	--	3,264	623	1,532	5	764
BBMW-41I	25.0 - 30.0	--	--	--	--	--	--	--	0	0	0	0	0
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	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-42I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-42I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-43S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-2. Summary of Historical Total PAH Groundwater Analysis Results
Bay Shore/Brightwaters Former MGP Site
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Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
BBMW-43I	15.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-43I2	35.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	0	0	0	--	--	0	0	--	--	1	0	3
MW-03D	35.0 - 45.0	2	0	--	--	--	0	0	--	--	0	0	0
MW-05S	4.0 - 14.0	1,431	1,699	144	1,306	7	1,052	1	226	1,879	2,080	309	1,279
MW-05D	35.5 - 45.5	741	2,644	390	1,988	107	232	9	138	711	809	742	1,996
MW-09S	4.0 - 14.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-09I	30.0 - 40.0	--	4	--	--	--	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	--	--	--	--	--	--	3	4	0	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	0	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	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	375	70
OU2MW-57I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	72	0
OU2MW-57I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	0
OZMW-16S	5.0 - 15.0	--	830	2	0	0	0	0	0	0	0	0	0
OZMW-16I	20.0 - 30.0	--	1,447	39	22	440	153	72	1,167	31	0	0	0
OZMW-16I2	35.0 - 45.0	--	0	219	0	159	6	178	2,002	2,844	160	809	171
OZMW-16D	55.0 - 65.0	--	1	0	0	0	0	0	1	1	0	0	0
OZMW-17S	5.0 - 15.0	--	1,963	1	0	0	0	0	0	1	0	0	0
OZMW-17I	20.0 - 30.0	--	5,197	5	0	0	0	12	0	3	0	0	0
OZMW-17I2	35.0 - 45.0	--	7	0	2	0	0	62	0	7	6	0	0
OZMW-17D	53.0 - 63.0	--	27	0	0	3	2	0	4	65	391	12	5
OZMW-18S	5.0 - 15.0	--	569	15	0	2	0	0	0	0	0	0	0
OZMW-18I	20.0 - 30.0	--	2,312	625	7	600	9	149	68	15	1	0	0
OZMW-18I2	35.0 - 45.0	--	8,178	7,353	11,417	10,065	7,728	8,917	10,984	7,375	676	88	36
OZMW-18D	55.0 - 65.0	--	1,684	461	0	1,279	435	1,166	1,586	2,031	1,515	629	890
OZMW-19S	5.0 - 15.0	--	--	--	--	--	--	--	--	409	44	74	241

Table 4-2. Summary of Historical Total PAH Groundwater Analysis Results
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Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2007	2008				2009				2010		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
OZMW-19I	20.0 - 30.0	--	--	--	--	--	--	--	--	4,299	2,849	2,632	2,982
OZMW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	5,346	4,551	1,409	4,346
OZMW-19D	55.0 - 65.0	--	--	--	--	--	--	--	--	471	485	0	245
OZMW-21S	5.0 - 15.0	--	--	--	--	--	--	--	--	4,403	2,697	3,466	5,177
OZMW-21I	20.0 - 30.0	--	--	--	--	--	--	--	--	4,402	6,135	5,202	5,315
OZMW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	4,012	5,131	4,742	5,972
OZMW-21D	55.0 - 65.0	--	--	--	--	--	--	--	--	952	933	707	684
OZMW-22S/22SR	5.0 - 15.0	--	2,191	2,555	1,449	1,684	1,850	971	2,406	1,108	--	1,347	1,588
OZMW-22I/22IR	20.0 - 30.0	--	0	0	1	0	95	0	3	7	--	220	4
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	0	1	0
OZMW-23I	20.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0
OZMW-23I2	35.0 - 45.0	--	--	--	--	--	--	--	--	6	0	0	0
OZMW-23D	55.0 - 65.0	--	--	--	--	--	--	--	--	38	51	26	3
OZMW-24S	5.0 - 15.0	--	--	--	--	--	--	--	--	6	0	160	0
OZMW-24I	20.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0
OZMW-24I2	35.0 - 45.0	--	--	--	--	--	--	--	--	4,805	5,033	5,122	3,128
OZMW-24D	55.0 - 65.0	--	--	--	--	--	--	--	--	5,323	4,857	5,198	2,399
OZMW-25S	5.0 - 15.0	--	--	--	--	--	--	4,595	3,968	3,480	2,919	3,550	3,504
OZMW-25I	20.0 - 30.0	--	--	--	--	--	--	3,276	849	4,046	3,756	3,252	292
OZMW-25I2	35.0 - 45.0	--	--	--	--	--	--	29	51	162	482	730	162
OZMW-25D	55.0 - 65.0	--	--	--	--	--	--	0	0	54	96	33	0
OZMW-26S	5.0 - 15.0	--	--	--	--	--	--	--	--	1	0	0	3
OZMW-26I	20.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0
OZMW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	60	23	0	0
OZMW-26D	55.0 - 65.0	--	--	--	--	--	--	--	--	0	7	0	0

Table 4-2. Summary of Historical Total PAH Groundwater Analysis Results
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Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2010	2011				2012				2013		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
BBMW-05D	64.0 - 74.0	1,556	2,751	2,004	0	0	78	2,052	1,409	1,412	3,244	1380	1441
BBMW-05D2/D2R	126.5 - 136.5	0	0	0	0	0	0	0	0	--	--	--	--
BBMW-13D	62.0 - 72.0	0	0	--	--	--	1	--	--	--	--	--	--
BBMW-20S	4.0 - 14.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35.0 - 45.0	15	516	47	1	497	633	706	489	354	688	371	388
BBMW-20D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5.0 - 10.0	2,584	2,744	4,284	1,574	576	3,388	2,628	2,790	4,110	2,561	2775	3646
BBMW-22I	30.0 - 40.0	5,761	5,237	6,417	5,304	4,215	7,155	7,755	2,505	4,656	3,930	3731	4026
BBMW-22D	64.0 - 74.0	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	--	--	--	--	--	--
BBMW-26I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	--	--	--
BBMW-27S	5.0 - 15.0	0	0	0	0	0	0	0	0	--	--	0	--
BBMW-27I	30.0 - 40.0	--	0	--	--	--	0	--	--	--	--	--	--
BBMW-34S	5.0 - 15.0	409	556	435	195	370	540	111	128	100	121	95	109
BBMW-34I	25.0 - 30.0	2,390	2,175	2,922	2,783	2,428	3,307	2,208	1,870	2,000	1,695	1929	1198
BBMW-34I2	40.0 - 45.0	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	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	3	4	3	0	0	0	15	0	--	--	2	--
BBMW-36I	25.0 - 30.0	0	0	0	0	0	0	0	0	--	--	0	--
BBMW-37S	5.0 - 10.0	--	--	--	--	520	270	511	--	367	217	0	12
BBMW-37I	20.0 - 30.0	--	--	--	--	2,506	1,655	2,228	--	1,363	860	110	1697
BBMW-37I2	35.0 - 45.0	--	--	--	--	1,219	1,234	1,186	--	599	1,222	111	903
BBMW-37D	55.0 - 65.0	--	--	--	--	7	0	0	--	0	0	0	--
BBMW-38S	5.0 - 15.0	69	4	6	14	5	2	0	0	49	20	46	81
BBMW-38I	25.0 - 30.0	691	761	275	365	468	653	510	766	435	620	381	--
BBMW-38I2	40.0 - 45.0	202	402	603	759	167	983	998	773	297	1,155	718	--
BBMW-38D	65.0 - 70.0	0	0	0	2	0	0	0	0	0	0	0	--
BBMW-39S	5.0 - 15.0	150	0	1,344	1,220	405	2,988	62	1,283	1,906	2,674	34	2088
BBMW-39I	25.0 - 30.0	0	78	4	29	14	39	29	46	17	33	0	433
BBMW-39I2	45.0 - 50.0	0	0	0	0	0	0	16	0	0	0	0	0
BBMW-39D	65.0 - 70.0	0	0	0	0	0	3	0	0	0	0	0	--
BBMW-40S	5.0 - 15.0	899	0	8	3,314	0	0	0	30	1,548	2,421	2654	2548
BBMW-40I	25.0 - 30.0	5	37	13	100	17	34	41	46	11	29	18	38
BBMW-40I2	45.0 - 50.0	0	0	0	0	0	0	2,264	1,950	0	0	0	0
BBMW-40D	70.0 - 75.0	0	0	0	0	0	0	0	0	--	--	0	--
BBMW-41S	6.0 - 16.0	0	421	2,372	3,693	782	1,449	1,167	1,006	617	2,213	1888	2473
BBMW-41I	25.0 - 30.0	0	0	28	47	0	0	54	68	0	0	0	16
BBMW-41I2	45.0 - 50.0	0	0	0	0	0	0	0	2	--	--	0	--
BBMW-41D	65.0 - 70.0	0	0	0	0	0	0	0	2	--	--	0	--
BBMW-42S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	608	286	403
BBMW-42I	15.0-25.0	--	--	--	--	--	--	--	--	--	1,181	1107	666
BBMW-42I2	35.0-45.0	--	--	--	--	--	--	--	--	--	2,504	1163	2090
BBMW-43S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	0	0	0

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Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2010	2011				2012				2013		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
BBMW-43I	15.0-25.0	--	--	--	--	--	--	--	--	--	552	53	262
BBMW-43I2	35.0-45.0	--	--	--	--	--	--	--	--	--	0	0	0
MW-03S	3.0 - 13.0	0	0	2	0	2	2	0	7	0	0	0	2
MW-03D	35.0 - 45.0	--	0	--	--		0	--	--	--	--	--	--
MW-05S	4.0 - 14.0	1,149	1,076	582	1,807	17	1,680	886	1,250	1,306	1,516	1063	507
MW-05D	35.5 - 45.5	1,039	1,094	1,064	2,620	789	2,242	843	1,611	1,254	1,617	1137	1944
MW-09S	4.0 - 14.0	0	0	0	0	0	0	0	0	--	--	0	--
MW-09I	30.0 - 40.0	--	0	--	--	--	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	0	0	0	0	0	0	0	0	--	--	0	--
OU2MW-48I	25.0 - 30.0	0	0	0	0	0	0	0	0	--	--	0	--
OU2MW-48I2	45.0 - 50.0	0	0	0	0	0	0	0	0	--	--	0	--
OU2MW-48D	65.0 - 70.0	0	0	0	0	0	0	0	0	--	--	0	--
OU2MW-49S	3.0 - 13.0	0	0	0	0	0	0	0	0	--	--	0	--
OU2MW-49I	25.0 - 30.0	0	0	0	0	0	0	0	0	--	--	0	--
OU2MW-49I2	45.0 - 50.0	0	0	0	0	0	0	0	0	--	--	0	--
OU2MW-49D	63.0 - 68.0	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
OU2MW-50I	25.0-30.0	--	0	0	9	4	1	2	0	0	0	0	2
OU2MW-50I2	45.0-50.0	--	0	2	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
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	268	3	235	127	0	94	87	69	31	0	64	66
OU2MW-57I	20.0 - 30.0	0	0	16	0	18	13	15	13	21	27	13	18
OU2MW-57I2	35.0 - 45.0	0	0	0	0	0	0	0	0	0	0	0	0
OZMW-16S	5.0 - 15.0	0	0	0	0	2	0	1	6	0	0	0	0
OZMW-16I	20.0 - 30.0	0	3	0	8	5	0	18	13	0	0	0	0
OZMW-16I2	35.0 - 45.0	422	5,792	1,195	3,138	542	2,192	1,973	151	1,220	8	1330	1
OZMW-16D	55.0 - 65.0	0	11	2	24	68	18	3	0	1	0	0	0
OZMW-17S	5.0 - 15.0	1	0	0	0	0	0	0	0	0	0	0	0
OZMW-17I	20.0 - 30.0	0	0	0	0	0	1	0	0	13	0	0	0
OZMW-17I2	35.0 - 45.0	0	9	0	0	9	2	0	18	0	0	0	13
OZMW-17D	53.0 - 63.0	5	8	8	10	725	345	33	1,821	1,750	1,451	937	1283
OZMW-18S	5.0 - 15.0	0	0	0	0	0	0	1	0	7	0	0	0
OZMW-18I	20.0 - 30.0	0	0	0	0	0	0	14	0	0	0	0	0
OZMW-18I2	35.0 - 45.0	30	249	0	0	12	56	222	955	61	139	17	98
OZMW-18D	55.0 - 65.0	1,328	1,642	594	2,635	1,907	2,913	1,536	3,337	1,729	5,445	1361	2898
OZMW-19S	5.0 - 15.0	214	1,016	242	55	244	881	517	173	558	8	659	334

Table 4-2. Summary of Historical Total PAH Groundwater Analysis Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2010	2011				2012				2013		
		Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep
OZMW-19I	20.0 - 30.0	3,529	2,814	2,048	2,065	2,708	4,325	3,620	1,188	3,790	2,635	3396	3501
OZMW-19I2	35.0 - 45.0	382	4,856	1,761	7,531	272	2,016	3,258	2,854	2,303	1,552	1929	1689
OZMW-19D	55.0 - 65.0	398	557	178	661	75	36	25	294	41	55	8	28
OZMW-21S	5.0 - 15.0	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	6,052	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	5,259	2,648	6,727	5,458	5,163	5,757	6,158	5,128	4,620	3,747	5955	4298
OZMW-21D	55.0 - 65.0	494	332	409	453	195	157	162	183	89	56	147	--
OZMW-22S/22SR	5.0 - 15.0	6	6	110	61	1	122	8	122	0	3	11	5
OZMW-22I/22IR	20.0 - 30.0	0	1	0	20	1	89	28	16	39	11	8	0
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5.0 - 15.0	0	0	1	1	1	0	0	1	0	17	0	0
OZMW-23I	20.0 - 30.0	0	0	0	0	0	0	0	1	0	6	0	0
OZMW-23I2	35.0 - 45.0	0	7	0	0	0	0	0	0	0	0	0	0
OZMW-23D	55.0 - 65.0	3	0	1	0	0	3	0	1	0	0	1	0
OZMW-24S	5.0 - 15.0	0	5	47	9	8	17	12	11	7	32	2	3
OZMW-24I	20.0 - 30.0	0	0	0	0	0	208	14	0	0	47	0	0
OZMW-24I2	35.0 - 45.0	3,405	4,719	5,641	5,416	1,228	3,527	4,819	2,656	4,228	4,502	4999	2517
OZMW-24D	55.0 - 65.0	3,219	3,383	5,508	3,042	4,121	3,300	3,090	2,846	2,075	3,309	3137	2527
OZMW-25S	5.0 - 15.0	6,452	79	3,783	4,336	237	3,228	1,842	3,306	4,753	69	2432	529
OZMW-25I	20.0 - 30.0	6,045	1,886	3,289	3,887	1,857	3,721	4,022	4,223	3,996	3,748	3767	3507
OZMW-25I2	35.0 - 45.0	881	588	585	1,040	149	322	696	402	324	328	492	1039
OZMW-25D	55.0 - 65.0	69	82	100	47	73	85	55	41	67	133	60	66
OZMW-26S	5.0 - 15.0	2	4	2	1	1	5	0	0	--	--	1	--
OZMW-26I	20.0 - 30.0	0	0	0	0	0	52	22	26	182	0	0	0
OZMW-26I2	35.0 - 45.0	176	61	0	41	163	54	17	96	38	27	0	2
OZMW-26D	55.0 - 65.0	0	0	5	1	4	0	2	0	--	--	0	--

Table 4-2. Summary of Historical Total PAH Groundwater Analysis Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)							
		Sampling Date			Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2013	2014						
		Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-05D	64.0 - 74.0	2841	2382	2045	0	4,492	1,836	0	4,492
BBMW-05D2/D2R	126.5 - 136.5	--	--	--	0	147	11	0	147
BBMW-13D	62.0 - 72.0	--	--	--	0	40	2	0	40
BBMW-20S	4.0 - 14.0	--	--	--	0	15,000	2,962	0	15,000
BBMW-20I	35.0 - 45.0	93	350	258	1	8,636	2,128	1	8,636
BBMW-20D	62.0 - 72.0	--	--	--	0	14,594	5,722	0	14,594
BBMW-22S	5.0 - 10.0	6024	3803	2180	24	6,024	2,839	24	6,024
BBMW-22I	30.0 - 40.0	6084	4348	4319	2,505	8,810	5,354	2,505	8,810
BBMW-22D	64.0 - 74.0	--	--	--	2,725	145,100	9,922	2,725	145,100
BBMW-26S	6.0 - 16.0	--	--	--	0	24	2	0	24
BBMW-26I	30.0 - 40.0	--	--	--	0	1	0	0	1
BBMW-27S	5.0 - 15.0	--	--	0	0	2	0	0	2
BBMW-27I	30.0 - 40.0	--	--	--	0	0	0	0	0
BBMW-34S	5.0 - 15.0	117	430	96	95	969	354	95	969
BBMW-34I	25.0 - 30.0	2606	2501	3039	1,198	3,307	2,293	1,198	3,307
BBMW-34I2	40.0 - 45.0	--	--	--	1,431	2,335	1,903	1,431	2,335
BBMW-34D	65.0 - 70.0	--	--	54	45	478	148	45	478
BBMW-35S	5.0-15.0	--	--	0	0	0	0	0	0
BBMW-35I	25.0-30.0	--	--	0	0	2	0	0	2
BBMW-35I2	45.0-50.0	--	--	0	0	0	0	0	0
BBMW-35D	63.0-68.0	--	--	0	0	0	0	0	0
BBMW-36S	5.0 - 15.0	--	--	0	0	23	4	0	23
BBMW-36I	25.0 - 30.0	--	--	0	0	0	0	0	0
BBMW-37S	5.0 - 10.0	383	4	16	0	520	254	0	520
BBMW-37I	20.0 - 30.0	8853	846	204	110	8,853	2,235	110	8,853
BBMW-37I2	35.0 - 45.0	877	319	15	111	1,234	852	15	1,234
BBMW-37D	55.0 - 65.0	--	--	4	0	7	1	0	7
BBMW-38S	5.0 - 15.0	234	162	142	0	234	42	0	234
BBMW-38I	25.0 - 30.0	--	--	--	131	1,075	546	131	1,075
BBMW-38I2	40.0 - 45.0	--	--	--	116	1,155	600	116	1,155
BBMW-38D	65.0 - 70.0	--	--	13	0	2	0	0	13
BBMW-39S	5.0 - 15.0	137	142	154	0	2,988	960	0	2,988
BBMW-39I	25.0 - 30.0	4	2	0	0	433	53	0	433
BBMW-39I2	45.0 - 50.0	--	--	0	0	16	1	0	16
BBMW-39D	65.0 - 70.0	--	--	0	0	3	0	0	3
BBMW-40S	5.0 - 15.0	1808	528	0	0	4,533	1,141	0	4,533
BBMW-40I	25.0 - 30.0	16	30	25	3	100	29	3	100
BBMW-40I2	45.0 - 50.0	0	--	0	0	2,264	234	0	2,264
BBMW-40D	70.0 - 75.0	--	--	0	0	0	0	0	0
BBMW-41S	6.0 - 16.0	1613	1925	2112	0	3,693	1,464	0	3,693
BBMW-41I	25.0 - 30.0	0	0	0	0	68	11	0	68
BBMW-41I2	45.0 - 50.0	--	--	0	0	4	0	0	4
BBMW-41D	65.0 - 70.0	--	--	0	0	4	0	0	4
BBMW-42S	5.0 - 10.0	720	539	446	286	720	511	286	720
BBMW-42I	15.0-25.0	1110	80	9	80	1,181	829	9	1,181
BBMW-42I2	35.0-45.0	1625	496	104	496	2,504	1,576	104	2,504
BBMW-43S	5.0 - 10.0	0	0	0	0	0	0	0	0

Table 4-2. Summary of Historical Total PAH Groundwater Analysis Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)							
		Sampling Date			Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2013	2014						
		Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-43I	15.0-25.0	48	3	0	3	552	184	0	552
BBMW-43I2	35.0-45.0	0	0	7	0	0	0	0	7
MW-03S	3.0 - 13.0	1	0	2	0	1,425	58	0	1,425
MW-03D	35.0 - 45.0	--	--	--	0	184	10	0	184
MW-05S	4.0 - 14.0	1546	1789	1115	1	5,514	1,520	1	5,514
MW-05D	35.5 - 45.5	1476	1775	1513	9	4,944	1,689	9	4,944
MW-09S	4.0 - 14.0	--	--	0	0	74	2	0	74
MW-09I	30.0 - 40.0	--	--	--	0	4	1	0	4
MW-09I2	45.0 - 50.0	--	--	--	0	0	0	0	0
MW-09D	65.0 - 70.0	--	--	--	0	0	0	0	0
OU1PZ-101	4.0 - 14.0	--	365	814	365	365	365	365	814
OU1PZ-102	4.0 - 14.0	--	0	0	0	0	0	0	0
OU1PZ-103	4.0 - 14.0	--	779	311	779	779	779	311	779
OU1PZ-104	4.0 - 14.0	--	0	2	0	0	0	0	2
OU1PZ-105	4.0 - 14.0	--	322	369	322	322	322	322	369
OU2MW-48S	3.0 - 13.0	--	--	0	0	4	0	0	4
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	0	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	3	0	0	120	18	0	120
OU2MW-50I	25.0-30.0	66	3	0	0	66	7	0	66
OU2MW-50I2	45.0-50.0	0	1	0	0	2	0	0	2
OU2MW-50D	65.0-70.0	0	0	0	0	3	0	0	3
OU2MW-51S	5.0-15.0	--	--	4	0	26	8	0	26
OU2MW-51I	25.0-30.0	--	--	0	0	5	1	0	5
OU2MW-51I2	45.0-50.0	--	--	0	0	0	0	0	0
OU2MW-51D	61.0-66.0	--	--	0	0	2	0	0	2
OU2MW-57S	5.0 - 15.0	72	85	47	0	375	103	0	375
OU2MW-57I	20.0 - 30.0	0	26	44	0	72	16	0	72
OU2MW-57I2	35.0 - 45.0	0	0	0	0	0	0	0	0
OZMW-16S	5.0 - 15.0	2	0	0	0	830	34	0	830
OZMW-16I	20.0 - 30.0	0	0	0	0	1,447	137	0	1,447
OZMW-16I2	35.0 - 45.0	97	26	1	0	5,792	985	0	5,792
OZMW-16D	55.0 - 65.0	0	11	1	0	68	6	0	68
OZMW-17S	5.0 - 15.0	2	0	0	0	1,963	79	0	1,963
OZMW-17I	20.0 - 30.0	2	3	0	0	5,197	209	0	5,197
OZMW-17I2	35.0 - 45.0	0	0	5	0	62	5	0	62
OZMW-17D	53.0 - 63.0	1089	2218	1458	0	2,218	488	0	2,218
OZMW-18S	5.0 - 15.0	0	0	0	0	569	24	0	569
OZMW-18I	20.0 - 30.0	0	0	0	0	2,312	152	0	2,312
OZMW-18I2	35.0 - 45.0	2	32	0	0	11,417	2,988	0	11,417
OZMW-18D	55.0 - 65.0	1751	1661	957	0	5,445	1,697	0	5,445
OZMW-19S	5.0 - 15.0	641	536	182	8	1,016	380	8	1,016

Table 4-2. Summary of Historical Total PAH Groundwater Analysis Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)							
		Sampling Date			Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2013	2014						
		Oct-Dec	Jan-Mar	Apr-Jun					
OZMW-19I	20.0 - 30.0	3079	3114	1631	1,188	4,325	3,032	1,188	4,325
OZMW-19I2	35.0 - 45.0	5205	2470	2269	272	7,531	2,985	272	7,531
OZMW-19D	55.0 - 65.0	193	326	275	0	661	226	0	661
OZMW-21S	5.0 - 15.0	--	--	--	1,152	6,618	4,279	1,152	6,618
OZMW-21I	20.0 - 30.0	--	--	--	2,458	7,522	4,877	2,458	7,522
OZMW-21I2	35.0 - 45.0	6515	4630	4476	2,648	6,727	5,107	2,648	6,727
OZMW-21D	55.0 - 65.0	--	--	--	56	952	397	56	952
OZMW-22S/22SR	5.0 - 15.0	1	5	5	0	2,555	734	0	2,555
OZMW-22I/22IR	20.0 - 30.0	0	0	0	0	220	23	0	220
OZMW-22I2	35.0 - 45.0	--	--	--	0	0	0	0	0
OZMW-22D	55.0 - 65.0	--	--	--	0	49	6	0	49
OZMW-23S	5.0 - 15.0	0	0	0	0	25	3	0	25
OZMW-23I	20.0 - 30.0	0	0	0	0	6	0	0	6
OZMW-23I2	35.0 - 45.0	0	0	0	0	7	1	0	7
OZMW-23D	55.0 - 65.0	0	0	2	0	51	7	0	51
OZMW-24S	5.0 - 15.0	4	1	0	0	160	18	0	160
OZMW-24I	20.0 - 30.0	0	2	0	0	208	15	0	208
OZMW-24I2	35.0 - 45.0	5521	3549	3092	1,228	5,641	4,156	1,228	5,641
OZMW-24D	55.0 - 65.0	4297	2594	2451	2,075	5,508	3,568	2,075	5,508
OZMW-25S	5.0 - 15.0	5255	3058	2022	69	6,452	3,069	69	6,452
OZMW-25I	20.0 - 30.0	3787	3167	2244	292	6,045	3,319	292	6,045
OZMW-25I2	35.0 - 45.0	640	285	229	29	1,040	469	29	1,040
OZMW-25D	55.0 - 65.0	43	22	0	0	133	56	0	133
OZMW-26S	5.0 - 15.0	1	--	0	0	5	2	0	5
OZMW-26I	20.0 - 30.0	0	2	4	0	182	16	0	182
OZMW-26I2	35.0 - 45.0	65	53	0	0	176	49	0	176
OZMW-26D	55.0 - 65.0	0	--	0	0	7	1	0	7

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

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-05D	BBMW-05D	BBMW-05D	BBMW-05D	BBMW-20I	BBMW-20I	BBMW-20I	BBMW-20I	BBMW-22S	BBMW-22S	BBMW-22S	BBMW-22S
		Start Depth	64	64	64	64	35	35	35	35	5	5	5	5
		End Depth	74	74	74	74	45	45	45	45	10	10	10	10
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	07/25/13	11/07/13	01/10/14	04/11/14	07/12/13	12/04/13	03/11/14	06/11/14	07/12/13	11/07/13	01/29/14	05/02/14
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	**9**	**13**	**9**	**15 D**	**4**	1 U	1 U	**14**	**19**	**100**	**72**	**350 D**
Toluene	µg/L	5	**170**	**260 D**	**260 D**	**340 D**	1 U	1 U	1 U	**3**	**45**	**44**	**34**	**380 D**
Ethylbenzene	µg/L	5	**59**	**88**	**110**	**120 D**	**7**	1 U	1 U	**40**	**3100**	**3500 D**	**2700 D**	**3400 D**
Total Xylene	µg/L	5	**390**	**580**	**680 D**	**760 D**	**8**	1 U	1 U	**34**	**3700**	**4000 D**	**2700 D**	**3300 D**
Total BTEX (ND=0)	µg/L	NE	**628**	**941**	**1059**	**1235**	**19**	ND	ND	**91**	**6864**	**7644**	**5506**	**7430**
NYSDEC PAH17														
Acenaphthene	µg/L	20*	**3 J**	**5 J**	**4 J**	**5 J**	**3 J**	10 U	**3 J**	**4 J**	**150 J**	**240 DJ**	**160 DJ**	**130 DJ**
Acenaphthylene	µg/L	NE	**60**	**34**	**72**	**82 DJ**	**40**	**12**	**36**	**41**	**30**	**47**	**16**	**16**
Anthracene	µg/L	50*	**5 J**	**5 J**	**7 J**	**7 J**	**1 J**	10 U	10 U	**3 J**	**8 J**	**10**	**8 J**	**6 J**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	**2 J**	**3 J**	**3 J**	**2 J**	10 U	10 U	10 U	10 U	**3 J**	**4 J**	**3 J**	**2 J**
Fluorene	µg/L	50*	**11**	**13**	**14**	**15**	**6 J**	**2 J**	**6 J**	**5 J**	**65**	**51**	**35**	**38**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**130 J**	**250 DJ**	**250 DJ**	**200 DJ**	**31**	**6 J**	**25**	**17**	**640**	**710 DJ**	**540 D**	**450 DJ**
Naphthalene	µg/L	10*	**1200**	**2500 D**	**2000 D**	**1700 D**	**300**	**71**	**270 D**	**180 D**	**2700**	**4900 D**	**3000 D**	**1500 D**
Phenanthrene	µg/L	50*	**27**	**28**	**29**	**31**	**7 J**	**2 J**	**10**	**8 J**	**46**	**57**	**37**	**35**
Pyrene	µg/L	50*	**3 J**	**3 J**	**3 J**	**3 J**	10 U	10 U	10 U	10 U	**4 J**	**5 J**	**4 J**	**3 J**
Total PAH (17) (ND=0)	µg/L	NE	**1441**	**2841**	**2382**	**2045**	**388**	**93**	**350**	**258**	**3646**	**6024**	**3803**	**2180**
Total Metals														
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-05D	BBMW-05D	BBMW-05D	BBMW-05D	BBMW-20I	BBMW-20I	BBMW-20I	BBMW-20I	BBMW-22S	BBMW-22S	BBMW-22S	BBMW-22S
		Start Depth	64	64	64	64	35	35	35	35	5	5	5	5
		End Depth	74	74	74	74	45	45	45	45	10	10	10	10
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	07/25/13	11/07/13	01/10/14	04/11/14	07/12/13	12/04/13	03/11/14	06/11/14	07/12/13	11/07/13	01/29/14	05/02/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-22I	BBMW-22I	BBMW-22I	BBMW-22I	BBMW-27S	BBMW-34S	BBMW-34S	BBMW-34S	BBMW-34S	BBMW-34I	BBMW-34I	BBMW-34I
		Start Depth	30	30	30	30	5	5	5	5	5	25	25	25
		End Depth	40	40	40	40	15	15	15	15	15	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	07/12/13	11/07/13	01/29/14	05/02/14	06/13/14	07/17/13	12/03/13	01/08/14	04/10/14	07/17/13	12/03/13	01/08/14
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	**69**	**63**	**70**	**70**	1 U	**48**	**57**	**25**	**41**	**150**	**69**	**37**
Toluene	µg/L	5	**16**	**15**	**13**	**18**	1 U	**2**	**3**	**2**	**2**	**13**	**7**	**5**
Ethylbenzene	µg/L	5	**20**	**58**	**52**	**38**	1 U	**140**	**39**	**92**	**27**	**550**	**480 D**	**330 D**
Total Xylene	µg/L	5	**20**	**50**	**41**	**34**	1 U	**28**	**40**	**46**	**20**	**520**	**390**	**300**
Total BTEX (ND=0)	µg/L	NE	**125**	**186**	**176**	**160**	ND	**218**	**139**	**165**	**90**	**1233**	**946**	**672**
NYSDEC PAH17														
Acenaphthene	µg/L	20*	**160 J**	**250 DJ**	**180 DJ**	**190 DJ**	10 U	**30**	**35**	**61**	**26**	**120**	**160 DJ**	**150 DJ**
Acenaphthylene	µg/L	NE	**7 J**	**7 J**	**2 J**	**7 J**	10 U	**1 J**	10 U	**1 J**	**1 J**	**7 J**	**3 J**	**4 J**
Anthracene	µg/L	50*	**7 J**	**39**	**6 J**	**9 J**	10 U	**5 J**	**5 J**	**5 J**	**6 J**	**8 J**	**12**	**13**
Benzo(a)anthracene	µg/L	0.002*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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
Benzo(a)pyrene	µg/L	ND	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	**2 J**	**2 J**	**1 J**	**2 J**	10 U	**2 J**	**2 J**	**2 J**	10 U	**3 J**	**3 J**	**4 J**
Fluorene	µg/L	50*	**43 J**	**43**	**43**	**54**	10 U	**19**	**20**	**30**	**19**	**46**	**64**	**58**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**960 J**	**1100 D**	**980 D**	**1000 D**	10 U	10 U	10 U	10 U	10 U	**470**	**990 D**	**1100 D**
Naphthalene	µg/L	10*	**2800 J**	**4600 D**	**3100 D**	**3000 D**	10 U	**14**	**16**	**290 D**	**3 J**	**490**	**1300 D**	**1100 D**
Phenanthrene	µg/L	50*	**45 J**	**41**	**36**	**54**	10 U	**35**	**36**	**38**	**38**	**50**	**69**	**66**
Pyrene	µg/L	50*	**2 J**	**2 J**	10 U	**3 J**	10 U	**3 J**	**3 J**	**3 J**	**3 J**	**4 J**	**5 J**	**6 J**
Total PAH (17) (ND=0)	µg/L	NE	**4026**	**6084**	**4348**	**4319**	ND	**109**	**117**	**430**	**96**	**1198**	**2606**	**2501**
Total Metals														
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-22I	BBMW-22I	BBMW-22I	BBMW-22I	BBMW-27S	BBMW-34S	BBMW-34S	BBMW-34S	BBMW-34S	BBMW-34I	BBMW-34I	BBMW-34I
		Start Depth	30	30	30	30	5	5	5	5	5	25	25	25
		End Depth	40	40	40	40	15	15	15	15	15	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	07/12/13	11/07/13	01/29/14	05/02/14	06/13/14	07/17/13	12/03/13	01/08/14	04/10/14	07/17/13	12/03/13	01/08/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	BBMW-34I	BBMW-34D	BBMW-35S	BBMW-35I	BBMW-35I2	BBMW-35D	BBMW-36S	BBMW-36I	BBMW-37S	BBMW-37S	BBMW-37S	BBMW-37S
			Start Depth	25	65	5	25	45	63	5	25	5	5	5	5
			End Depth	30	70	15	30	50	68	15	30	10	10	10	10
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	04/10/14	04/10/14	04/08/14	04/08/14	04/08/14	04/08/14	05/20/14	05/20/14	07/11/13	12/03/13	03/11/14	04/08/14
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	**58 D**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	1 U	1 U
Toluene	µg/L	5	**9 D**	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	µg/L	5	**630 D**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**7**	**51**	**1**	1 U	
Total Xylene	µg/L	5	**550 D**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**9**	**84**	**6**	**4**	
Total BTEX (ND=0)	µg/L	NE	**1247**	ND	ND	ND	ND	ND	ND	ND	**16**	**137**	**7**	**4**	
NYSDEC PAH17															
Acenaphthene	µg/L	20*	**170 DJ**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**13**	10 U	**1 J**
Acenaphthylene	µg/L	NE	**3 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	
Anthracene	µg/L	50*	**14**	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(a)anthracene	µg/L	0.002*	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(b)fluoranthene	µg/L	0.002*	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(k)fluoranthene	µg/L	0.002*	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chrysene	µg/L	0.002*	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dibenz(a,h)anthracene	µg/L	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	
Fluoranthene	µg/L	50*	**5 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Fluorene	µg/L	50*	**64**	**8 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
2-Methylnaphthalene	µg/L	NE	**1300 D**	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**76 DJ**	10 U	**4 J**	
Naphthalene	µg/L	10*	**1400 D**	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	**12**	**290 D**	**4 J**	**11**	
Phenanthrene	µg/L	50*	**69**	**30**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Pyrene	µg/L	50*	**7 J**	**4 J**	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)	µg/L	NE	**3039**	**54**	ND	ND	ND	ND	ND	ND	**12**	**383**	**4**	**16**	
Total Metals															
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--	
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--	
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--	
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--	
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--	
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--	
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--	
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--	

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-34I	BBMW-34D	BBMW-35S	BBMW-35I	BBMW-35I2	BBMW-35D	BBMW-36S	BBMW-36I	BBMW-37S	BBMW-37S	BBMW-37S	BBMW-37S
		Start Depth	25	65	5	25	45	63	5	25	5	5	5	5
		End Depth	30	70	15	30	50	68	15	30	10	10	10	10
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/10/14	04/10/14	04/08/14	04/08/14	04/08/14	04/08/14	05/20/14	05/20/14	07/11/13	12/03/13	03/11/14	04/08/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-37I	BBMW-37I	BBMW-37I	BBMW-37I	BBMW-37I2	BBMW-37I2	BBMW-37I2	BBMW-37I2	BBMW-37D	BBMW-38S	BBMW-38S	BBMW-38S	
		Start Depth	20	20	20	20	35	35	35	35	55	5	5	5	
		End Depth	30	30	30	30	45	45	45	45	65	15	15	15	
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	
		Sample Date	07/11/13	12/03/13	03/11/14	04/08/14	07/11/13	12/03/13	03/17/14	04/08/14	04/08/14	07/25/13	12/03/13	01/08/14	
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	**37**	**300 D**	1 U	1 U	**34**	**42**	**7**	1 U	1 U	**11**	**64**	**11**	
Toluene	µg/L	5	**5**	**22**	1 U	1 U	**5**	**4**	**1**	1 U	1 U	**3**	**10**	**4**	
Ethylbenzene	µg/L	5	**480**	**2500 D**	**61**	**16**	**100**	**140**	**51**	1 U	1 U	**140**	**220 D**	**130**	
Total Xylene	µg/L	5	**180**	**1100 D**	**42**	**26**	**110**	**86**	**37**	**6**	**1**	**240**	**310**	**160**	
Total BTEX (ND=0)	µg/L	NE	**702**	**3922**	**103**	**42**	**249**	**272**	**96**	**6**	**1**	**394**	**604**	**305**	
NYSDEC PAH17															
Acenaphthene	µg/L	20*	**110 J**	**270 DJ**	**120 DJ**	**59**	**130 J**	**140 DJ**	**68**	**9 J**	10 U	10 U	**2 J**	**2 J**	
Acenaphthylene	µg/L	NE	**7 J**	**10**	**3 J**	10 U	**2 J**	**4 J**	**12**	10 U	10 U	10 U	**1 J**	**1 J**	
Anthracene	µg/L	50*	**7 J**	**11**	**10**	**6 J**	**11**	**11**	**12**	**1 J**	10 U	10 U	**2 J**	**2 J**	
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dibenz(a,h)anthracene	µg/L	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	
Fluoranthene	µg/L	50*	**2 J**	**3 J**	**3 J**	**2 J**	**3 J**	**3 J**	**3 J**	10 U	10 U	10 U	10 U	10 U	
Fluorene	µg/L	50*	**29**	**61**	**54**	**30**	**13**	**16**	**16**	**2 J**	10 U	**1 J**	**3 J**	**3 J**	
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
2-Methylnaphthalene	µg/L	NE	**190 J**	**520 DJ**	**110 DJ**	**35**	**8 J**	**2 J**	**4 J**	10 U	10 U	**6 J**	**18**	**17**	
Naphthalene	µg/L	10*	**1300**	**7900 D**	**480 D**	**31**	**660**	**610 D**	**140 D**	**1 J**	**4 J**	**72**	**200 D**	**130 D**	
Phenanthrene	µg/L	50*	**49**	**74**	**62**	**38**	**71**	**86 DJ**	**59**	10 U	10 U	**2 J**	**7 J**	**6 J**	
Pyrene	µg/L	50*	**3 J**	**4 J**	**4 J**	**3 J**	**5 J**	**5 J**	**5 J**	**2 J**	10 U	10 U	**1 J**	**1 J**	
Total PAH (17) (ND=0)	µg/L	NE	**1697**	**8853**	**846**	**204**	**903**	**877**	**319**	**15**	**4**	**81**	**234**	**162**	
Total Metals															
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--	
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--	
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--	
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--	
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--	
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--	
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--	
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--	

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-37I	BBMW-37I	BBMW-37I	BBMW-37I	BBMW-37I2	BBMW-37I2	BBMW-37I2	BBMW-37I2	BBMW-37D	BBMW-38S	BBMW-38S	BBMW-38S
		Start Depth	20	20	20	20	35	35	35	35	55	5	5	5
		End Depth	30	30	30	30	45	45	45	45	65	15	15	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	07/11/13	12/03/13	03/11/14	04/08/14	07/11/13	12/03/13	03/17/14	04/08/14	04/08/14	07/25/13	12/03/13	01/08/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-38S	BBMW-38D	BBMW-39S	BBMW-39S	BBMW-39S	BBMW-39S	BBMW-39I	BBMW-39I	BBMW-39I	BBMW-39I	BBMW-39I2	BBMW-39I2	BBMW-39I2
		Start Depth	5	65	5	5	5	5	25	25	25	25	45	45	45
		End Depth	15	70	15	15	15	15	30	30	30	30	50	50	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/10/14	04/10/14	07/11/13	12/05/13	01/09/14	04/07/14	07/11/13	12/04/13	01/09/14	04/07/14	07/11/13	04/07/14	
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	**16**	1 U	**7200**	**510 D**	**430 D**	**260 D**	**100**	1 U	1 U	1 U	1 U	1 U	
Toluene	µg/L	5	**5**	1 U	**110 J**	**4**	**1**	5 U	**16**	1 U	1 U	1 U	1 U	1 U	
Ethylbenzene	µg/L	5	**190**	**3**	**1700**	**290 D**	**120**	**190 D**	**140**	1 U	1 U	1 U	1 U	1 U	
Total Xylene	µg/L	5	**240**	**3**	**1100**	**150**	**72**	**130 D**	**100**	1 U	1 U	1 U	1 U	1 U	
Total BTEX (ND=0)	µg/L	NE	**451**	**6**	**10110**	**954**	**623**	**580**	**356**	ND	ND	ND	ND	ND	
NYSDEC PAH17															
Acenaphthene	µg/L	20*	**1 J**	10 U	**42**	**51**	**4 J**	**4 J**	**37**	**3 J**	**1 J**	10 U	10 U	10 U	
Acenaphthylene	µg/L	NE	**1 J**	10 U	**2 J**	**1 J**	10 U	10 U	**16**	10 U	10 U	10 U	10 U	10 U	
Anthracene	µg/L	50*	**1 J**	10 U	**1 J**	**4 J**	10 U	10 U	**4 J**	10 U	10 U	10 U	10 U	10 U	
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dibenz(a,h)anthracene	µg/L	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	
Fluoranthene	µg/L	50*	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Fluorene	µg/L	50*	**2 J**	10 U	**13**	**24**	**1 J**	**1 J**	**16**	**1 J**	10 U	10 U	10 U	10 U	
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
2-Methylnaphthalene	µg/L	NE	**14**	**7 J**	**220 J**	**23**	**7 J**	**9 J**	**90**	10 U	10 U	10 U	10 U	10 U	
Naphthalene	µg/L	10*	**120 D**	**6 J**	**1800**	**12**	**130 D**	**140 D**	**240**	10 U	10 U	10 U	10 U	10 U	
Phenanthrene	µg/L	50*	**3 J**	10 U	**10**	**18**	10 U	10 U	**29**	10 U	**1 J**	10 U	10 U	10 U	
Pyrene	µg/L	50*	10 U	10 U	10 U	**3 J**	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	
Total PAH (17) (ND=0)	µg/L	NE	**142**	**13**	**2088**	**137**	**142**	**154**	**433**	**4**	**2**	ND	ND	ND	
Total Metals															
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--	
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--	
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--	
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--	
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--	
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--	
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--	
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--	

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-38S	BBMW-38D	BBMW-39S	BBMW-39S	BBMW-39S	BBMW-39S	BBMW-39I	BBMW-39I	BBMW-39I	BBMW-39I	BBMW-39I2	BBMW-39I2
		Start Depth	5	65	5	5	5	5	25	25	25	25	45	45
		End Depth	15	70	15	15	15	15	30	30	30	30	50	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/10/14	04/10/14	07/11/13	12/05/13	01/09/14	04/07/14	07/11/13	12/04/13	01/09/14	04/07/14	07/11/13	04/07/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-39D	BBMW-40S	BBMW-40S	DUP-08 Q4	BBMW-40S	BBMW-40S	BBMW-40I	BBMW-40I	BBMW-40I	BBMW-40I	BBMW-40I2	DUP-02 Q3
		Start Depth	65	5	5	5	5	5	25	25	25	25	45	45
		End Depth	70	15	15	15	15	15	30	30	30	30	50	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/07/14	07/11/13	12/05/13	12/05/13	01/09/14	04/09/14	07/25/13	12/05/13	01/09/14	04/09/14	07/11/13	7/11/2013
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	1 U	**13**	**2**	**2**	1 U	1 U	1 U	1 U	1 U	**3**	1 U	1 U
Toluene	µg/L	5	1 U	**22**	**4**	**5**	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	**1100**	**510 D**	**510 D**	**320 D**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene	µg/L	5	1 U	**680**	**300**	**310**	**250**	1 U	1 U	1 U	**1**	**1**	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	**1815**	**816**	**827**	**572**	ND	ND	ND	**1**	**4**	ND	ND
NYSDEC PAH17														
Acenaphthene	µg/L	20*	10 U	**48**	**34**	**38**	**4 J**	10 U	**2 J**	10 U	**4 J**	**1 J**	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	**6 J**	**7 J**	**7 J**	10 U	10 U	**1 J**	**1 J**	**2 J**	**2 J**	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	**7 J**	**6 J**	**6 J**	**5 J**	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	**3 J**	**3 J**	**3 J**	10 U	10 U
Fluorene	µg/L	50*	10 U	**11**	**5 J**	**6 J**	10 U	10 U	**2 J**	10 U	**2 J**	**2 J**	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	**280 J**	**260 D**	**200 DJ**	**24**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	**2200**	**1500 D**	**1200 D**	**500 D**	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	**3 J**	**2 J**	**2 J**	10 U	10 U	**17**	10 U	**9 J**	**8 J**	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	**6 J**	**4 J**	**4 J**	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	**2548**	**1808**	**1453**	**528**	ND	**38**	**16**	**30**	**25**	ND	ND
Total Metals														
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-39D	BBMW-40S	BBMW-40S	DUP-08 Q4	BBMW-40S	BBMW-40S	BBMW-40I	BBMW-40I	BBMW-40I	BBMW-40I	BBMW-40I2	DUP-02 Q3
		Start Depth	65	5	5	5	5	5	25	25	25	25	45	45
		End Depth	70	15	15	15	15	15	30	30	30	30	50	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/07/14	07/11/13	12/05/13	12/05/13	01/09/14	04/09/14	07/25/13	12/05/13	01/09/14	04/09/14	07/11/13	7/11/2013
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	BBMW-40I2	BBMW-40I2	BBMW-40D	BBMW-41S	BBMW-41S	BBMW-41S	BBMW-41S	BBMW-41I	BBMW-41I	BBMW-41I	DUP-01 Q1	BBMW-41I
			Start Depth	45	45	70	6	6	6	6	25	25	25	25	25
			End Depth	50	50	75	16	16	16	16	30	30	30	30	30
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	12/05/13	04/09/14	04/09/14	07/11/13	12/05/13	01/09/14	04/09/14	07/11/13	12/05/13	01/09/14	01/09/14	04/09/14
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	1 U	1 U	1 U	**3**	**1**	**2**	20 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	**34**	**8**	**13**	**22 D**	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	**3100**	**1300 D**	**1700 D**	**3100 D**	**16**	1 U	1 U	1 U	1 U	1 U
Total Xylene	µg/L	5	1 U	1 U	1 U	**6300**	**1700 D**	**2300 D**	**4500 D**	**9**	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	**9437**	**3009**	**4015**	**7622**	**25**	ND	ND	ND	ND	ND
NYSDEC PAH17															
Acenaphthene	µg/L	20*	10 U	10 U	10 U	**3 J**	**3 J**	**3 J**	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	**3 J**	**2 J**	**2 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	50*	10 U	10 U	10 U	**3 J**	**3 J**	**3 J**	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	**59**	**100 DJ**	**110 DJ**	**100 DJ**	**1 J**	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	**2400**	**1500 D**	**1800 D**	**2000 D**	**15**	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	**5 J**	**5 J**	**6 J**	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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)	µg/L	NE	ND	ND	ND	**2473**	**1613**	**1925**	**2112**	**16**	ND	ND	ND	ND	ND
Total Metals															
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-40I2	BBMW-40I2	BBMW-40D	BBMW-41S	BBMW-41S	BBMW-41S	BBMW-41S	BBMW-41I	BBMW-41I	BBMW-41I	DUP-01 Q1	BBMW-41I
		Start Depth	45	45	70	6	6	6	6	25	25	25	25	25
		End Depth	50	50	75	16	16	16	16	30	30	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	12/05/13	04/09/14	04/09/14	07/11/13	12/05/13	01/09/14	04/09/14	07/11/13	12/05/13	01/09/14	01/09/14	04/09/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	BBMW-41I2	BBMW-41D	BBMW-42S	BBMW-42S	BBMW-42S	BBMW-42S	BBMW-42I	BBMW-42I	DUP-09 Q4	BBMW-42I	BBMW-42I	BBMW-42I2
			Start Depth	45	65	5	5	5	5	15	15	15	15	15	35
			End Depth	50	70	10	10	10	10	25	25	25	25	25	45
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	04/09/14	04/09/14	07/12/13	12/06/13	01/31/14	04/10/14	07/12/13	12/06/13	12/06/13	01/31/14	04/10/14	07/12/13
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	1 U	1 U	1 U	**4**	1 U	1 U	**28**	**53**	**59**	1 U	1 U	**30**
Toluene	µg/L	5	1 U	1 U	1 U	**2**	1 U	1 U	**2**	**5**	**5**	1 U	1 U	**4**
Ethylbenzene	µg/L	5	1 U	1 U	**6**	**190 D**	**18**	**21**	**230**	**370 D**	**400 D**	**4**	**2**	**190**
Total Xylene	µg/L	5	1 U	1 U	**22**	**150**	**26**	**42**	**55**	**87**	**100**	**4**	**7**	**110**
Total BTEX (ND=0)	µg/L	NE	ND	ND	**28**	**346**	**44**	**63**	**315**	**515**	**564**	**8**	**9**	**334**
NYSDEC PAH17															
Acenaphthene	µg/L	20*	10 U	10 U	**26**	**36**	**38**	**32**	**100**	**180 DJ**	**190 DJ**	**21**	**3 J**	**210 J**
Acenaphthylene	µg/L	NE	10 U	10 U	**3 J**	**4 J**	**4 J**	**5 J**	**14**	**8 J**	**8 J**	**2 J**	10 U	**14**
Anthracene	µg/L	50*	10 U	10 U	**2 J**	**2 J**	**4 J**	**3 J**	**9 J**	**12**	**11**	**4 J**	10 U	**11**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 UJ	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 UJ	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 UJ	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	**4 J**	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	10 U	10 U	**2 J**	**2 J**	**5 J**	**2 J**	**3 J**	**4 J**	**4 J**	**3 J**	10 U	**3 J**
Fluorene	µg/L	50*	10 U	10 U	**17**	**18**	**18**	**16**	**47**	**53**	**56**	**12**	10 U	**62**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	**230**	**240 D**	**290 D**	**210 D**	**14**	**58**	**68**	**1 J**	10 U	**310 J**
Naphthalene	µg/L	10*	10 U	10 U	**110**	**400 D**	**140 D**	**160 D**	**410**	**720 D**	**830 D**	**18**	**6 J**	**1400**
Phenanthrene	µg/L	50*	10 U	10 U	**8 J**	**14**	**15**	**12**	**64**	**69**	**69**	**14**	10 U	**75**
Pyrene	µg/L	50*	10 U	10 U	**5 J**	**4 J**	**12**	**5 J**	**5 J**	**6 J**	**6 J**	**5 J**	10 U	**5 J**
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	**403**	**720**	**539**	**446**	**666**	**1110**	**1242**	**80**	**9**	**2090**
Total Metals															
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-41I2	BBMW-41D	BBMW-42S	BBMW-42S	BBMW-42S	BBMW-42S	BBMW-42I	BBMW-42I	DUP-09 Q4	BBMW-42I	BBMW-42I	BBMW-42I2
		Start Depth	45	65	5	5	5	5	15	15	15	15	15	35
		End Depth	50	70	10	10	10	10	25	25	25	25	25	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/09/14	04/09/14	07/12/13	12/06/13	01/31/14	04/10/14	07/12/13	12/06/13	12/06/13	01/31/14	04/10/14	07/12/13
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-42I2	BBMW-42I2	BBMW-42I2	BBMW-43S	BBMW-43S	BBMW-43S	BBMW-43S	BBMW-43I	BBMW-43I	BBMW-43I	BBMW-43I	BBMW-43I	BBMW-43I2
		Start Depth	35	35	35	5	5	5	5	15	15	15	15	15	35
		End Depth	45	45	45	10	10	10	10	25	25	25	25	25	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	12/06/13	01/31/14	04/10/14	07/12/13	12/06/13	01/30/14	04/11/14	07/12/13	12/06/13	01/30/14	04/10/14	07/12/13	
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	**66**	**35**	**6**	1 U	1 U	1 U	1 U	**47**	**35**	1 U	1 U	1 U	
Toluene	µg/L	5	**10**	**4**	**2**	1 U	1 U	1 U	1 U	**1**	**1**	1 U	1 U	1 U	
Ethylbenzene	µg/L	5	**300 D**	**120**	**54**	1 U	1 U	1 U	1 U	**180**	**120**	**5**	1 U	1 U	
Total Xylene	µg/L	5	**230**	**110**	**41**	1 U	1 U	1 U	1 U	**56**	**28**	**17**	1 U	1 U	
Total BTEX (ND=0)	µg/L	NE	**606**	**269**	**103**	ND	ND	ND	ND	**284**	**184**	**22**	ND	ND	
NYSDEC PAH17															
Acenaphthene	µg/L	20*	**150 DJ**	**51**	**47**	10 U	10 U	10 U	10 U	**25**	**14**	**1 J**	10 U	10 U	
Acenaphthylene	µg/L	NE	**8 J**	**13**	**7 J**	10 U	10 U	10 U	10 U	**51**	**15**	10 U	10 U	10 U	
Anthracene	µg/L	50*	**14**	**9 J**	**1 J**	10 U	10 U	10 U	10 U	**6 J**	**2 J**	10 U	10 U	10 U	
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dibenz(a,h)anthracene	µg/L	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	
Fluoranthene	µg/L	50*	**3 J**	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Fluorene	µg/L	50*	**30**	**9 J**	**14**	10 U	10 U	10 U	10 U	**14**	**6 J**	10 U	10 U	10 U	
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
2-Methylnaphthalene	µg/L	NE	**15**	**8 J**	**18**	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	
Naphthalene	µg/L	10*	**1300 D**	**350 D**	**12**	10 U	10 U	10 U	10 U	**130**	**3 J**	**2 J**	10 U	10 U	
Phenanthrene	µg/L	50*	**100 DJ**	**48**	**4 J**	10 U	10 U	10 U	10 U	**33**	**7 J**	10 U	10 U	10 U	
Pyrene	µg/L	50*	**5 J**	**5 J**	**1 J**	10 U	10 U	10 U	10 U	**2 J**	**1 J**	10 U	10 U	10 U	
Total PAH (17) (ND=0)	µg/L	NE	**1625**	**496**	**104**	ND	ND	ND	ND	**262**	**48**	**3**	ND	ND	
Total Metals															
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--	
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--	
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--	
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--	
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--	
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--	
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--	
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--	

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-42I2	BBMW-42I2	BBMW-42I2	BBMW-43S	BBMW-43S	BBMW-43S	BBMW-43S	BBMW-43I	BBMW-43I	BBMW-43I	BBMW-43I	BBMW-43I2
		Start Depth	35	35	35	5	5	5	5	15	15	15	15	35
		End Depth	45	45	45	10	10	10	10	25	25	25	25	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	12/06/13	01/31/14	04/10/14	07/12/13	12/06/13	01/30/14	04/11/14	07/12/13	12/06/13	01/30/14	04/10/14	07/12/13
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-43I2	BBMW-43I2	BBMW-43I2	MW-03S	MW-03S	MW-03S	MW-03S	MW-05S	MW-05S	MW-05S	MW-05S	MW-05D
		Start Depth	35	35	35	3	3	3	3	4	4	4	4	35.5
		End Depth	45	45	45	13	13	13	13	14	14	14	14	45.5
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	12/06/13	01/30/14	04/10/14	07/25/13	12/09/13	01/10/14	04/11/14	07/19/13	10/16/13	01/10/14	04/11/14	07/19/13
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	1 U	1 U	1 U	**3**	1 U	1 U	1 U	**4**	**10**	**7**	20 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**4**	**3**	**3**	20 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	**2**	**12**	**1**	**2**	**6**	**970**	**1800 D**	**1800 D**	**1600 D**	**4**
Total Xylene	µg/L	5	1 U	1 U	**2**	**9**	1 U	1 U	**5**	**1100**	**1900 D**	**1800 D**	**1800 D**	**9**
Total BTEX (ND=0)	µg/L	NE	ND	ND	**4**	**24**	**1**	**2**	**11**	**2078**	**3713**	**3610**	**3400**	**13**
NYSDEC PAH17														
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**13**	**44**	**41**	**37**	**140 J**
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**7 J**	**21**	**18**	**16**	**180 J**
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**5 J**	**7 J**	**5 J**	**9 J**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**2 J**	**1 J**	**3 J**
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**8 J**	**28**	**26**	**21**	**58**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	**4 J**	10 U	10 U	10 U	10 U	**68**	**210 DJ**	**260 D**	**180 DJ**	**950**
Naphthalene	µg/L	10*	10 U	10 U	**3 J**	**2 J**	10 U	10 U	**2 J**	**400**	**1200 D**	**1400 D**	**830 D**	**550**
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	**9 J**	**34**	**33**	**23**	**51**
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**2 J**	**2 J**	**3 J**
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	**7**	**2**	**1**	ND	**2**	**507**	**1546**	**1789**	**1115**	**1944**
Total Metals														
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--

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		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	BBMW-43I2	BBMW-43I2	BBMW-43I2	MW-03S	MW-03S	MW-03S	MW-03S	MW-05S	MW-05S	MW-05S	MW-05S	MW-05D
		Start Depth	35	35	35	3	3	3	3	4	4	4	4	35.5
		End Depth	45	45	45	13	13	13	13	14	14	14	14	45.5
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	12/06/13	01/30/14	04/10/14	07/25/13	12/09/13	01/10/14	04/11/14	07/19/13	10/16/13	01/10/14	04/11/14	07/19/13
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	MW-05D	DUP-02 Q4	MW-05D	MW-05D	MW-09S	OU1PZ-101	OU1PZ-101	OU1PZ-101	OU1PZ-101	OU1PZ-102	OU1PZ-102	OU1PZ-103
		Start Depth	35.5	35.5	35.5	35.5	4	4	4	4	4	4	4	4
		End Depth	45.5	45.5	45.5	45.5	14	14	14	14	14	14	14	14
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	10/16/13	10/16/2013	01/10/14	04/11/14	06/13/14	01/07/14	04/14/14	05/19/14	06/18/14	01/07/14	04/14/14	01/07/14
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	**1.2**	**6**	40 U	**2**	1 U	1 U	**8**
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	**1.1**	**8**	40 U	**3**	1 U	1 U	**1.8**
Ethylbenzene	µg/L	5	**2**	**2**	**2**	**3**	1 U	**840 D**	**4100 D**	**4100 D**	**2700 D**	**4.2**	**12**	**92**
Total Xylene	µg/L	5	**6**	**6**	**8**	**10**	1 U	**400**	**1500 D**	**1700 D**	**970 D**	**11**	**13**	**18**
Total BTEX (ND=0)	µg/L	NE	**8**	**8**	**10**	**13**	ND	**1242.3**	**5614**	**5800**	**3675**	**15.2**	**25**	**119.8**
NYSDEC PAH17														
Acenaphthene	µg/L	20*	**160 DJ**	**160 DJ**	**210 D**	**170 D**	10 U	10 U	**4 J**	**7 J**	**5 J**	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	**100 DJ**	**110 DJ**	**120 DJ**	**90 DJ**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	**5 J**	**6 J**	**7 J**	**7 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	**2 J**	**2 J**	**2 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	**36**	**37**	**38**	**44**	10 U	10 U	**2 J**	**3 J**	**4 J**	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**710 D**	**720 D**	**930 D**	**740 D**	10 U	**15**	**28**	**37**	**22**	10 U	10 U	**17**
Naphthalene	µg/L	10*	**430 D**	**420 D**	**430 D**	**420 D**	10 U	**350 D**	**1200 D**	**1300 D**	**780 D**	10 U	10 U	**160 D**
Phenanthrene	µg/L	50*	**31**	**34**	**36**	**38**	10 U	10 U	**1 J**	**2 J**	**3 J**	10 U	10 U	10 U
Pyrene	µg/L	50*	**2 J**	**2 J**	**2 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	**1476**	**1491**	**1775**	**1513**	ND	**365**	**1235**	**1349**	**814**	ND	ND	**177**
Total Metals														
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	MW-05D	DUP-02 Q4	MW-05D	MW-05D	MW-09S	OU1PZ-101	OU1PZ-101	OU1PZ-101	OU1PZ-101	OU1PZ-102	OU1PZ-102	OU1PZ-103
		Start Depth	35.5	35.5	35.5	35.5	4	4	4	4	4	4	4	4
		End Depth	45.5	45.5	45.5	45.5	14	14	14	14	14	14	14	14
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	10/16/13	10/16/2013	01/10/14	04/11/14	06/13/14	01/07/14	04/14/14	05/19/14	06/18/14	01/07/14	04/14/14	01/07/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OU1PZ-103	OU1PZ-103	OU1PZ-103	OU1PZ-103	OU1PZ-103	OU1PZ-104	OU1PZ-104	OU1PZ-105	OU1PZ-105	OU2MW-48S	DUP-02-Q2	OU2MW-48I
		Start Depth	4	4	4	4	4	4	4	4	4	3	3	25
		End Depth	14	14	14	14	14	14	14	14	14	13	13	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	02/24/14	03/21/14	04/16/14	05/15/14	06/18/14	01/07/14	04/16/14	01/07/14	04/16/14	04/08/14	04/08/14	04/08/14
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	**7**	**43**	**26 D**	**30**	**18**	1 U	**1**	1 U	10 U	1 U	1 U	1 U
Toluene	µg/L	5	**2**	**9**	5 U	**6**	**3**	1 U	1 U	1 U	10 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	**170**	**770 D**	**380 D**	**200**	**310 D**	**4.8**	**6**	**390 D**	**530 D**	1 U	1 U	1 U
Total Xylene	µg/L	5	**34**	**160**	**71 D**	**53**	**36**	**1.6**	**7**	**560**	**720 D**	**1**	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	**213**	**982**	**477**	**289**	**367**	**6.4**	**14**	**950**	**1250**	**1**	ND	ND
NYSDEC PAH17														
Acenaphthene	µg/L	20*	**29**	**29**	**28 B**	**20**	**24**	10 U	**2 BJ**	10 U	**3 BJ**	10 U	10 U	10 U
Acenaphthylene	µg/L	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	µg/L	50*	**3 J**	**3 J**	**2 J**	**2 J**	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	**13**	**12**	**12**	**9 J**	**12**	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**41**	**54**	**45**	**21**	**19**	10 U	10 U	**22**	**23**	10 U	10 U	10 U
Naphthalene	µg/L	10*	**610 D**	**670 D**	**270 D**	**120 D**	**240 D**	10 U	10 U	**300 D**	**340 D**	10 U	10 U	10 U
Phenanthrene	µg/L	50*	**13**	**11**	**11**	**9 J**	**13**	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U
Pyrene	µg/L	50*	**1 J**	10 U	**1 BJ**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	**711**	**779**	**369**	**181**	**311**	ND	**2**	**322**	**369**	ND	ND	ND
Total Metals														
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OU1PZ-103	OU1PZ-103	OU1PZ-103	OU1PZ-103	OU1PZ-103	OU1PZ-104	OU1PZ-104	OU1PZ-105	OU1PZ-105	OU2MW-48S	DUP-02-Q2	OU2MW-48I
		Start Depth	4	4	4	4	4	4	4	4	4	3	3	25
		End Depth	14	14	14	14	14	14	14	14	14	13	13	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	02/24/14	03/21/14	04/16/14	05/15/14	06/18/14	01/07/14	04/16/14	01/07/14	04/16/14	04/08/14	04/08/14	04/08/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	OU2MW-48I2	OU2MW-48D	OU2MW-49S	OU2MW-49I	OU2MW-49I2	OU2MW-49D	OU2MW-50S	OU2MW-50S	OU2MW-50S	OU2MW-50S	OU2MW-50I	OU2MW-50I
			Start Depth	45	65	3	25	45	63	5	5	5	5	25	25
			End Depth	50	70	13	30	50	68	15	15	15	15	30	30
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	04/08/14	04/08/14	04/30/14	04/30/14	04/30/14	04/30/14	07/15/13	11/08/13	01/29/14	05/01/14	07/15/13	11/08/13
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	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	**11**
Toluene	µg/L	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	µg/L	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	µg/L	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	**13**
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**24**
NYSDEC PAH17															
Acenaphthene	µg/L	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	**5 J**
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**38**
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	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	**3 J**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	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	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	**8 J**
Phenanthrene	µg/L	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	**11**
Pyrene	µg/L	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)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	**3**	ND	**2**	**66**	
Total Metals															
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OU2MW-48I2	OU2MW-48D	OU2MW-49S	OU2MW-49I	OU2MW-49I2	OU2MW-49D	OU2MW-50S	OU2MW-50S	OU2MW-50S	OU2MW-50S	OU2MW-50I	OU2MW-50I
		Start Depth	45	65	3	25	45	63	5	5	5	5	25	25
		End Depth	50	70	13	30	50	68	15	15	15	15	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/08/14	04/08/14	04/30/14	04/30/14	04/30/14	04/30/14	07/15/13	11/08/13	01/29/14	05/01/14	07/15/13	11/08/13
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OU2MW-50I	OU2MW-50I	OU2MW-50I2	OU2MW-50I2	OU2MW-50I2	OU2MW-50I2	OU2MW-50D	OU2MW-50D	OU2MW-50D	OU2MW-50D	OU2MW-50D	OU2MW-51S	OU2MW-51I
		Start Depth	25	25	45	45	45	45	65	65	65	65	65	5	25
		End Depth	30	30	50	50	50	50	70	70	70	70	70	15	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	01/29/14	05/01/14	07/15/13	11/11/13	01/29/14	05/01/14	07/15/13	11/11/13	01/29/14	05/01/14	05/30/14	05/30/14	
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	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	µg/L	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	µg/L	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	µg/L	5	1 U	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	**2**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NYSDEC PAH17															
Acenaphthene	µg/L	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	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U
Naphthalene	µg/L	10*	**3 J**	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U
Phenanthrene	µg/L	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	µg/L	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)	µg/L	NE	**3**	ND	ND	ND	**1**	ND	ND	ND	ND	ND	**4**	ND	
Total Metals															
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OU2MW-50I	OU2MW-50I	OU2MW-50I2	OU2MW-50I2	OU2MW-50I2	OU2MW-50I2	OU2MW-50D	OU2MW-50D	OU2MW-50D	OU2MW-50D	OU2MW-51S	OU2MW-51I
		Start Depth	25	25	45	45	45	45	65	65	65	65	5	25
		End Depth	30	30	50	50	50	50	70	70	70	70	15	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	01/29/14	05/01/14	07/15/13	11/11/13	01/29/14	05/01/14	07/15/13	11/11/13	01/29/14	05/01/14	05/30/14	05/30/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	DUP-18-Q2	OU2MW-51I2	OU2MW-51D	OU2MW-57S	OU2MW-57S	OU2MW-57S	OU2MW-57S	DUP-04-Q2	OU2MW-57I	OU2MW-57I	OU2MW-57I	DUP-03-Q1
		Start Depth	25	45	61	5	5	5	5	5	20	20	20	20
		End Depth	30	50	66	15	15	15	15	15	30	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/30/14	06/03/14	06/03/14	07/15/13	12/09/13	02/10/14	04/18/14	04/18/14	07/15/13	12/09/13	02/10/14	02/10/14
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	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	µg/L	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
Ethylbenzene	µg/L	5	1 U	1 U	1 U	**13**	**50**	**9**	**9**	**7**	1 U	1 U	1 U	1 U
Total Xylene	µg/L	5	1 U	1 U	1 U	**8**	**27**	**7**	**9**	**8**	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	**21**	**77**	**16**	**18**	**15**	ND	ND	ND	ND
NYSDEC PAH17														
Acenaphthene	µg/L	20*	10 U	10 U	10 U	**11**	**12**	**11**	**6 J**	**8 J**	**1 J**	10 U	**2 J**	**1 J**
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	**1 J**	**1 J**	**1 J**	10 U	10 U	**6 J**	10 U	**9 J**	**8 J**
Anthracene	µg/L	50*	10 U	10 U	10 U	**3 J**	**3 J**	**2 J**	**1 J**	**1 J**	**1 J**	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	**9 J**	**10**	**8 J**	**5 J**	**6 J**	**4 J**	10 U	**4 J**	**4 J**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	**15**	**14**	**12**	**3 J**	**6 J**	**1 J**	10 U	**2 J**	**1 J**
Naphthalene	µg/L	10*	10 U	10 U	10 U	**13**	**18**	**42**	**12**	**18**	**1 J**	10 U	**5 J**	**4 J**
Phenanthrene	µg/L	50*	10 U	10 U	10 U	**13**	**14**	**9 J**	**3 J**	**5 J**	**4 J**	10 U	**4 J**	**3 J**
Pyrene	µg/L	50*	10 U	10 U	10 U	**1 J**	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	ND	**66**	**72**	**85**	**47**	**44**	**18**	ND	**26**	**21**
Total Metals														
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--

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		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	DUP-18-Q2	OU2MW-51I2	OU2MW-51D	OU2MW-57S	OU2MW-57S	OU2MW-57S	OU2MW-57S	DUP-04-Q2	OU2MW-57I	OU2MW-57I	OU2MW-57I	DUP-03-Q1
		Start Depth	25	45	61	5	5	5	5	5	20	20	20	20
		End Depth	30	50	66	15	15	15	15	15	30	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/30/14	06/03/14	06/03/14	07/15/13	12/09/13	02/10/14	04/18/14	04/18/14	07/15/13	12/09/13	02/10/14	02/10/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

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Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OU2MW-57I	OU2MW-57I2	OU2MW-57I2	OU2MW-57I2	OU2MW-57I2	OZMW-16S	OZMW-16S	OZMW-16S	OZMW-16S	OZMW-16I	OZMW-16I	OZMW-16I
		Start Depth	20	35	35	35	35	5	5	5	5	20	20	20
		End Depth	30	45	45	45	45	15	15	15	15	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/18/14	07/15/13	12/09/13	02/10/14	04/18/14	07/17/13	12/11/13	02/04/14	05/02/14	07/17/13	12/11/13	02/04/14
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	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	µg/L	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
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2**	ND
NYSDEC PAH17														
Acenaphthene	µg/L	20*	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	**13**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	50*	**6 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**9 J**	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	**10**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	**4 J**	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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)	µg/L	NE	**44**	ND	ND	ND	ND	ND	**2**	ND	ND	ND	ND	ND
Total Metals														
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OU2MW-57I	OU2MW-57I2	OU2MW-57I2	OU2MW-57I2	OU2MW-57I2	OZMW-16S	OZMW-16S	OZMW-16S	OZMW-16S	OZMW-16I	OZMW-16I	OZMW-16I
		Start Depth	20	35	35	35	35	5	5	5	5	20	20	20
		End Depth	30	45	45	45	45	15	15	15	15	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/18/14	07/15/13	12/09/13	02/10/14	04/18/14	07/17/13	12/11/13	02/04/14	05/02/14	07/17/13	12/11/13	02/04/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	OZMW-16I	OZMW-16I2	OZMW-16I2	OZMW-16I2	OZMW-16I2	OZMW-16D	OZMW-16D	OZMW-16D	OZMW-16D	OZMW-17S	OZMW-17S	OZMW-17S
			Start Depth	20	35	35	35	35	55	55	55	55	5	5	5
			End Depth	30	45	45	45	45	65	65	65	65	15	15	15
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	05/02/14	07/17/13	12/11/13	02/04/14	05/02/14	07/17/13	12/11/13	02/04/14	05/02/14	07/17/13	11/18/13	01/28/14
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	1 U	1 U	**13**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	**3**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	**100**	**4**	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene	µg/L	5	1 U	**3**	**170**	**6**	**4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	**3**	**286**	**10**	**5**	ND	ND	ND	ND	ND	ND	ND	ND
NYSDEC PAH17															
Acenaphthene	µg/L	20*	10 U	10 U	**60**	**3 J**	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	**3 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	50*	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	**1 J**	10 U	**18**	10 U	10 U	10 U	**11**	**1 J**	10 U	**2 J**	10 U	
Phenanthrene	µg/L	50*	10 U	10 U	**29**	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	**1 J**	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)	µg/L	NE	ND	**1**	**97**	**26**	**1**	ND	ND	**11**	**1**	ND	**2**	ND	
Total Metals															
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-16I	OZMW-16I2	OZMW-16I2	OZMW-16I2	OZMW-16I2	OZMW-16D	OZMW-16D	OZMW-16D	OZMW-16D	OZMW-17S	OZMW-17S	OZMW-17S
		Start Depth	20	35	35	35	35	55	55	55	55	5	5	5
		End Depth	30	45	45	45	45	65	65	65	65	15	15	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/02/14	07/17/13	12/11/13	02/04/14	05/02/14	07/17/13	12/11/13	02/04/14	05/02/14	07/17/13	11/18/13	01/28/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-17S	OZMW-17I	OZMW-17I	OZMW-17I	OZMW-17I	OZMW-17I2	OZMW-17I2	OZMW-17I2	OZMW-17I2	OZMW-17D	OZMW-17D	DUP-07-Q4
		Start Depth	5	20	20	20	20	35	35	35	35	53	53	53
		End Depth	15	30	30	30	30	45	45	45	45	63	63	63
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/29/14	07/17/13	11/18/13	01/28/14	04/29/14	07/17/13	11/19/13	01/28/14	04/29/14	07/17/13	11/19/13	11/19/2013
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	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	µg/L	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
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**7**	**12**	**12**
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**64**	**110**	**100**
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	**71**	**122**	**112**
NYSDEC PAH17														
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**14**	**15**	**12**
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	**3 J**	**130 J**	**93 DJ**	**120 DJ**
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	**3 J**	**2 J**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**22**	**24**	**20**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	**170 J**	**150 DJ**	**180 DJ**
Naphthalene	µg/L	10*	10 U	10 U	**2 J**	**3 J**	10 U	**10**	10 U	10 U	10 U	**910**	**780 D**	**1000 DB**
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**33**	**24**	**23**
Pyrene	µg/L	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)	µg/L	NE	ND	ND	**2**	**3**	ND	**13**	ND	ND	**5**	**1283**	**1089**	**1359**
Total Metals														
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	39.3 UJ	**39.2 B**	**40.1 B**
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	1.2 UJ	**3.1 B**	2 U
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	**10.9**	**10**	**8.3 B**
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	**8.1 J**	**12.1 B**	**12 B**
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	0.1 U	0.22 U	0.22 U
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	0.1 U	0.15 U	0.15 U
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	**7410**	**7790**	**7550**
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	5.4 UJ	**5 B**	**5.1 B**
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	**9.5 J**	**9.7 B**	**9.4 B**
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	0.4 UJ	0.7 U	0.7 U
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	**14300**	**16700**	**16100**
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	**19.7**	**21.4**	**20.9**
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	**1700 J**	**1880 B**	**1820 B**
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	**581**	**533**	**528**
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	0.1 U	0.1 U	0.1 U
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	**16 J**	**15.7 B**	**14.7 B**
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	**952 J**	**1650 B**	**1690 B**
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	2.3 UJ	**2 B**	1.8 U

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-17S	OZMW-17I	OZMW-17I	OZMW-17I	OZMW-17I	OZMW-17I2	OZMW-17I2	OZMW-17I2	OZMW-17I2	OZMW-17D	OZMW-17D	DUP-07-Q4
		Start Depth	5	20	20	20	20	35	35	35	35	53	53	53
		End Depth	15	30	30	30	30	45	45	45	45	63	63	63
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/29/14	07/17/13	11/18/13	01/28/14	04/29/14	07/17/13	11/19/13	01/28/14	04/29/14	07/17/13	11/19/13	11/19/2013
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	0.2 UJ	**0.98 BN**	**1 BN**
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	**9400**	**12000 E**	**11600 E**
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	2.5 UJ	1.9 U	1.9 U
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	**1.9 J**	**1.8 B**	**1.6 B**
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	39.6 U	**41.7**	**54.3**
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	**44900**	**59000**	**59800**
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	**420**	**500**	**490**
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	**530**	**750**	**690**
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	100 U	2000 U	2000 U
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	100 UJ	100 U	100 U
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	**530**	**750**	**690**
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--		**15**	**15**
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	**39900**	**53300 D**	**52400 D**
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	2000 U	2000 U	2000 U
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	**50**	**50**	**50**

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-17D	OZMW-17D	OZMW-18S	OZMW-18S	OZMW-18S	OZMW-18S	OZMW-18I	OZMW-18I	OZMW-18I	OZMW-18I	OZMW-18I2	OZMW-18I2
		Start Depth	53	53	5	5	5	5	20	20	20	20	35	35
		End Depth	63	63	15	15	15	15	30	30	30	30	45	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	02/24/14	05/13/14	07/19/13	11/20/13	03/04/14	06/03/14	07/19/13	11/20/13	03/04/14	06/03/14	07/19/13	12/11/13
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	**27 D**	**5**	1 UJ	1 U	1 U	1 U	**20**	1 U	1 U	1 U	1 UJ	1 U
Ethylbenzene	µg/L	5	**57 D**	**31**	1 U	1 U	1 U	1 U	**21**	1 U	1 U	1 U	1 U	1 U
Total Xylene	µg/L	5	**600 D**	**220**	1 U	1 U	1 U	1 U	**180**	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	**684**	**256**	ND	ND	ND	ND	**221**	ND	ND	ND	ND	ND
NYSDEC PAH17														
Acenaphthene	µg/L	20*	**20**	**10**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**2 J**
Acenaphthylene	µg/L	NE	**170 DJ**	**120 DJ**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**13**	10 U
Anthracene	µg/L	50*	**7 J**	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	50*	**32**	**19**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**240 DJ**	**180 DJ**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U
Naphthalene	µg/L	10*	**1700 D**	**1100 D**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**76**	10 U
Phenanthrene	µg/L	50*	**49**	**25**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U
Pyrene	µg/L	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)	µg/L	NE	**2218**	**1458**	ND	ND	ND	ND	ND	ND	ND	ND	**98**	**2**
Total Metals														
Aluminum	µg/L	NE	**85.3 B**	**45.1 B**	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	1.9 U	1.6 U	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	**9.8 B**	**6.9 B**	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	**13.3 B**	**13.5 B**	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	**0.3 B**	0.091 U	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	**1.8 B**	**1.4 B**	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	**11300**	**11400**	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	**7 B**	**5 B**	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	**12 B**	**13.8 B**	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	**14.4 B**	**4 B**	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	**18200**	**19800**	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	**33.5**	**18.9**	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	**2280 B**	**2330 B**	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	**918**	**1060**	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	0.1 U	0.1 U	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	**15 BE**	**15.1 B**	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	**2120 B**	**1370 B**	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	**6.7 B**	1.4 U	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	OZMW-17D	OZMW-17D	OZMW-18S	OZMW-18S	OZMW-18S	OZMW-18S	OZMW-18I	OZMW-18I	OZMW-18I	OZMW-18I	OZMW-18I2	OZMW-18I2
			Start Depth	53	53	5	5	5	5	20	20	20	20	35	35
			End Depth	63	63	15	15	15	15	30	30	30	30	45	45
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	02/24/14	05/13/14	07/19/13	11/20/13	03/04/14	06/03/14	07/19/13	11/20/13	03/04/14	06/03/14	07/19/13	12/11/13
Analyte	**Units**	**NYS AWQS**													
Silver	µg/L	50	0.43 U	**2.4 B**	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	**12600**	**12100**	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	1.3 U	3.5 U	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	**2.4 B**	**2.1 BE**	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	**55.6 E**	**78.6 E**	--	--	--	--	--	--	--	--	--	--	--
Other															
Carbon dioxide	µg/L	NE	**48400**	**66900**	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	**430**	**420**	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	**610**	**710**	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	2000 U	2000 U	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	100 U	100 U	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	**610**	2710 U	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE		**47**	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	**30200**	**26200**	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	2000 U	2000 U	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	**60**	**260**	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-18I2	OZMW-18I2	OZMW-18D	OZMW-18D	OZMW-18D	OZMW-18D	DUP-13	OZMW-19S	OZMW-19S	OZMW-19S	OZMW-19S	OZMW-19I
		Start Depth	35	35	55	55	55	55	55	5	5	5	5	20
		End Depth	45	45	65	65	65	65	65	15	15	15	15	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	01/28/14	04/29/14	07/19/13	11/19/13	02/26/14	05/13/14	05/13/14	07/19/13	11/14/13	01/31/14	05/08/14	07/19/13
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	**1**	1 U	**27**
Toluene	µg/L	5	1 U	1 U	1 U	**11**	**23**	**7**	**7**	1 UJ	1 U	1 U	1 U	**3 J**
Ethylbenzene	µg/L	5	1 U	1 U	1 U	**15**	**18**	**11**	**11**	**140**	**68**	**80**	**20**	**280**
Total Xylene	µg/L	5	1 U	1 U	1 U	**110**	**250**	**120**	**120**	**180**	**120**	**210**	**23**	**150**
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	**136**	**291**	**138**	**138**	**321**	**188**	**291**	**43**	**460**
NYSDEC PAH17														
Acenaphthene	µg/L	20*	**3 J**	10 U	**52**	**19**	**23**	**31**	**32**	**33**	**58**	**45**	**19**	**170 J**
Acenaphthylene	µg/L	NE	**5 J**	10 U	**160 J**	**130 DJ**	**84 DJ**	**92 DJ**	**100 DJ**	**1 J**	**2 J**	**3 J**	**1 J**	**3 J**
Anthracene	µg/L	50*	10 U	10 U	**7 J**	**6 J**	**3 J**	**3 J**	**3 J**	**5 J**	**8 J**	**6 J**	**3 J**	**11**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U
Fluoranthene	µg/L	50*	10 U	10 U	**2 J**	**1 J**	**1 J**	10 U	10 U	**2 J**	**4 J**	**3 J**	**2 J**	**3 J**
Fluorene	µg/L	50*	**1 J**	10 U	**24**	**7 J**	**13**	**17**	**18**	**26**	**39**	**28**	**13**	**61**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U
2-Methylnaphthalene	µg/L	NE	**5 J**	10 U	**300 J**	**150 DJ**	**210 DJ**	**130 DJ**	**140 DJ**	**99**	**170**	**150 D**	**56**	**370 J**
Naphthalene	µg/L	10*	**18**	10 U	**2300**	**1400 D**	**1300 D**	**660 D**	**740 D**	**140**	**310**	**270 D**	**57**	**2800**
Phenanthrene	µg/L	50*	10 U	10 U	**51**	**36**	**26**	**23**	**24**	**26**	**45**	**28**	**14**	**79**
Pyrene	µg/L	50*	10 U	10 U	**2 J**	**2 J**	**1 J**	**1 J**	**1 J**	**2 J**	**5 J**	**3 J**	**2 J**	**4 J**
Total PAH (17) (ND=0)	µg/L	NE	**32**	ND	**2898**	**1751**	**1661**	**957**	**1058**	**334**	**641**	**536**	**182**	**3501**
Total Metals														
Aluminum	µg/L	NE	--	--	9.5 U	**27.3 B**	**664**	**119 B**	**104 B**	--	--	--	--	--
Antimony	µg/L	3	--	--	1.2 UJ	**4.5 B**	**2.1 B**	1.6 U	1.6 U	--	--	--	--	--
Arsenic	µg/L	25	--	--	2.8 U	1 U	**4.2 B**	1.5 U	1.5 U	--	--	--	--	--
Barium	µg/L	1000	--	--	**25.9 J**	**26.6 B**	**106 B**	**166 B**	**170 B**	--	--	--	--	--
Beryllium	µg/L	3*	--	--	0.1 U	0.22 U	**0.3 B**	**0.3 B**	**0.3 B**	--	--	--	--	--
Cadmium	µg/L	5	--	--	0.1 U	0.15 U	**3.3 B**	**1.8 B**	**1.6 B**	--	--	--	--	--
Calcium	µg/L	NE	--	--	**15900**	**14700**	**17800**	**15100**	**15000**	--	--	--	--	--
Chromium	µg/L	50	--	--	**14.9 J**	**9.7 B**	**13.8**	**6.7 B**	**6.4 B**	--	--	--	--	--
Cobalt	µg/L	NE	--	--	**13.5 J**	**11.6 B**	**16.2 B**	**11.1 B**	**10.8 B**	--	--	--	--	--
Copper	µg/L	200	--	--	0.4 UJ	0.7 U	**56.6**	**11.5 B**	**11.8 B**	--	--	--	--	--
Iron	µg/L	300	--	--	**48500**	**44400**	**38800**	**28000**	**27500**	--	--	--	--	--
Lead	µg/L	25	--	--	**11.6 J**	**7.8**	**32.3**	**19.9**	**19.4**	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	**4430 J**	**3740 B**	**4570 B**	**4420 B**	**4280 B**	--	--	--	--	--
Manganese	µg/L	300	--	--	**1050**	**916**	**996**	**806**	**776**	--	--	--	--	--
Mercury	µg/L	0.7	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	--	--	--	--	--
Nickel	µg/L	100	--	--	**17.1 J**	**14.6 B**	**16.6 BE**	**14.5 B**	**14 B**	--	--	--	--	--
Potassium	µg/L	NE	--	--	**929 J**	**2600 B**	**2970 B**	**2250 B**	**2400 B**	--	--	--	--	--
Selenium	µg/L	10	--	--	2.3 UJ	**7.3**	**10.4**	**2.4 B**	**1.5 B**	--	--	--	--	--

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Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-18I2	OZMW-18I2	OZMW-18D	OZMW-18D	OZMW-18D	OZMW-18D	DUP-13	OZMW-19S	OZMW-19S	OZMW-19S	OZMW-19S	OZMW-19I
		Start Depth	35	35	55	55	55	55	55	5	5	5	5	20
		End Depth	45	45	65	65	65	65	65	15	15	15	15	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	01/28/14	04/29/14	07/19/13	11/19/13	02/26/14	05/13/14	05/13/14	07/19/13	11/14/13	01/31/14	05/08/14	07/19/13
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	0.2 UJ	0.43 UN	0.43 U	**3.2 B**	**3.3 B**	--	--	--	--	--
Sodium	µg/L	20000	--	--	**50700**	**42500 E**	**63000**	**71900**	**70400**	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	1.9 U	1.9 U	1.3 U	3.5 U	3.5 U	--	--	--	--	--
Vanadium	µg/L	NE	--	--	**4.3 J**	**2.7 B**	**5 B**	**2 BE**	**1.8 BE**	--	--	--	--	--
Zinc	µg/L	2000*	--	--	28.7 U	**25.5**	**76.1 E**	**43.7 E**	**42.5 E**	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	**103000**	**105000**	**106000**	**96800**	**91500**	--	--	--	--	--
Ammonia	µg/L	2000	--	--	**1070**	**960**	**970**	**710**	**810**	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	**1330**	**1310**	**1550**	**1310**	**1300**	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	1000 U	2000 U	2000 U	2000 U	2000 U	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	100 UJ	100 U	100 U	100 U	100 U	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	**1330**	**1310**	**1550**	3310 U	3300 U	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--		**5**		**50**	**44**	--	--	--	--	--
Sulfate	µg/L	250000	--	--	**11700**	**102000 D**	**109000 D**	**57400 D**	**59100 D**	--	--	--	--	--
Sulfide	µg/L	50*	--	--	2000 U	2000 U	2000 U	2000 U	2000 U	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	**80**	**80**	**50**	**50**	50 U	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-19I	OZMW-19I	OZMW-19I	OZMW-19I2	OZMW-19I2	OZMW-19I2	OZMW-19I2	OZMW-19D	OZMW-19D	OZMW-19D	OZMW-19D	OZMW-21I2
		Start Depth	20	20	20	35	35	35	35	55	55	55	55	35
		End Depth	30	30	30	45	45	45	45	65	65	65	65	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	11/14/13	01/31/14	05/08/14	07/19/13	11/15/13	02/06/14	05/08/14	07/19/13	11/15/13	02/06/14	05/08/14	07/26/13
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	**16**	**17**	**17**	**19**	**21**	**25**	**26**	1 U	1 U	1 U	1 U	**19**
Toluene	µg/L	5	**1**	**2**	**2**	**4**	**5**	**8**	**7**	1 U	1 U	1 U	1 U	**5**
Ethylbenzene	µg/L	5	**150**	**170 D**	**220 D**	**110**	**220**	**210 D**	**260 D**	1 U	**5**	1 U	1 U	**36**
Total Xylene	µg/L	5	**73**	**140**	**94**	**190**	**260**	**320**	**270**	1 U	**15**	**9**	**4**	**36**
Total BTEX (ND=0)	µg/L	NE	**240**	**329**	**333**	**323**	**506**	**563**	**563**	ND	**20**	**9**	**4**	**96**
NYSDEC PAH17														
Acenaphthene	µg/L	20*	**140 J**	**140 DJ**	**140 DJ**	**82 DJ**	**170 J**	**95 DJ**	**120 DJ**	**1 J**	**3 J**	**7 J**	**5 J**	**93 J**
Acenaphthylene	µg/L	NE	**4 J**	**4 J**	**2 J**	**14**	**76**	**35**	**16**	**4 J**	**3 J**	**32**	**33**	**120 DJ**
Anthracene	µg/L	50*	**9 J**	**9 J**	**8 J**	**6 J**	**8 J**	**6 J**	**8 J**	10 U	10 U	10 U	10 U	**10**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	**2 J**	**2 J**	**2 J**	**2 J**	**2 J**	**1 J**	**2 J**	10 U	10 U	10 U	10 U	**3 J**
Fluorene	µg/L	50*	**54**	**54**	**52**	**14**	**33**	**15**	**17**	10 U	**1 J**	**4 J**	**6 J**	**59**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**300 J**	**340 DJ**	**160 DJ**	**130 DJ**	**450 J**	**180 DJ**	**150 DJ**	10 U	**14**	**18**	**16**	**950 DJ**
Naphthalene	µg/L	10*	**2500**	**2500 D**	**1200 D**	**1400 D**	**4400**	**2100 D**	**1900 D**	**23**	**170**	**260 D**	**210 D**	**3000 D**
Phenanthrene	µg/L	50*	**67**	**62**	**64**	**38**	**62**	**36**	**52**	10 U	**2 J**	**5 J**	**5 J**	**60**
Pyrene	µg/L	50*	**3 J**	**3 J**	**3 J**	**3 J**	**4 J**	**2 J**	**4 J**	10 U	10 U	10 U	10 U	**3 J**
Total PAH (17) (ND=0)	µg/L	NE	**3079**	**3114**	**1631**	**1689**	**5205**	**2470**	**2269**	**28**	**193**	**326**	**275**	**4298**
Total Metals														
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-19I	OZMW-19I	OZMW-19I	OZMW-19I2	OZMW-19I2	OZMW-19I2	OZMW-19I2	OZMW-19D	OZMW-19D	OZMW-19D	OZMW-19D	OZMW-21I2
		Start Depth	20	20	20	35	35	35	35	55	55	55	55	35
		End Depth	30	30	30	45	45	45	45	65	65	65	65	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	11/14/13	01/31/14	05/08/14	07/19/13	11/15/13	02/06/14	05/08/14	07/19/13	11/15/13	02/06/14	05/08/14	07/26/13
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-21I2	OZMW-21I2	OZMW-21I2	OZMW-22SR	OZMW-22SR	OZMW-22SR	OZMW-22SR	DUP-16-Q2	OZMW-22IR	OZMW-22IR	OZMW-22IR	DUP-07 Q1
		Start Depth	35	35	35	5	5	5	5	5	20	20	20	20
		End Depth	45	45	45	15	15	15	15	15	30	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	11/06/13	02/06/14	06/05/14	07/17/13	10/28/13	02/28/14	05/22/14	5/22/2014	07/17/13	10/28/13	02/28/14	02/28/14
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	**22**	**18**	**14**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	**4**	**4**	**4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	**82**	**63**	**27**	**61**	**11**	**63**	**9**	**8**	**1**	1 U	1 U	1 U
Total Xylene	µg/L	5	**69**	**50**	**29**	**12**	**5**	**13**	**16**	**16**	**1**	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	**177**	**135**	**74**	**73**	**16**	**76**	**25**	**24**	**2**	ND	ND	ND
NYSDEC PAH17														
Acenaphthene	µg/L	20*	**170 J**	**130 DJ**	**100 DJ**	**2 J**	**1 J**	**2 J**	**2 J**	**2 J**	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	**220 J**	**170 DJ**	**140 DJ**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	**10**	**11**	**7 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	**2 J**	**3 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	**56**	**56**	**44**	**1 J**	10 U	**1 J**	**1 J**	**1 J**	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**1200**	**1100 D**	**940 D**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	**4800**	**3100 D**	**3200 D**	**2 J**	10 U	**1 J**	**1 J**	**2 J**	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	**54**	**57**	**41**	10 U	10 U	**1 J**	**1 J**	**1 J**	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	**3 J**	**3 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	**6515**	**4630**	**4476**	**5**	**1**	**5**	**5**	**6**	ND	ND	ND	ND
Total Metals														
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--

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		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-21I2	OZMW-21I2	OZMW-21I2	OZMW-22SR	OZMW-22SR	OZMW-22SR	OZMW-22SR	DUP-16-Q2	OZMW-22IR	OZMW-22IR	OZMW-22IR	DUP-07 Q1
		Start Depth	35	35	35	5	5	5	5	5	20	20	20	20
		End Depth	45	45	45	15	15	15	15	15	30	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	11/06/13	02/06/14	06/05/14	07/17/13	10/28/13	02/28/14	05/22/14	5/22/2014	07/17/13	10/28/13	02/28/14	02/28/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-22IR	OZMW-23S	OZMW-23S	OZMW-23S	OZMW-23S	OZMW-23I	OZMW-23I	OZMW-23I	OZMW-23I	OZMW-23I2	OZMW-23I2	OZMW-23I2	OZMW-23I2
		Start Depth	20	5	5	5	5	20	20	20	20	35	35	35	35
		End Depth	30	15	15	15	15	30	30	30	30	45	45	45	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/22/14	07/26/13	10/28/13	02/24/14	05/09/14	07/26/13	10/28/13	02/24/14	05/09/14	07/26/13	10/28/13	02/24/14	
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	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	µg/L	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	µg/L	5	**3**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene	µg/L	5	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	**5**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NYSDEC PAH17															
Acenaphthene	µg/L	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	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	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	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	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	µg/L	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)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals															
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-22IR	OZMW-23S	OZMW-23S	OZMW-23S	OZMW-23S	OZMW-23I	OZMW-23I	OZMW-23I	OZMW-23I	OZMW-23I2	OZMW-23I2	OZMW-23I2
		Start Depth	20	5	5	5	5	20	20	20	20	35	35	35
		End Depth	30	15	15	15	15	30	30	30	30	45	45	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/22/14	07/26/13	10/28/13	02/24/14	05/09/14	07/26/13	10/28/13	02/24/14	05/09/14	07/26/13	10/28/13	02/24/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-23I2	OZMW-23D	OZMW-23D	OZMW-23D	OZMW-23D	OZMW-24S	OZMW-24S	OZMW-24S	OZMW-24S	OZMW-24I	OZMW-24I	OZMW-24I	OZMW-24I
		Start Depth	35	55	55	55	55	5	5	5	5	20	20	20	20
		End Depth	45	65	65	65	65	15	15	15	15	30	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/09/14	07/26/13	10/28/13	02/24/14	05/09/14	07/26/13	11/06/13	03/11/14	05/09/14	07/26/13	11/06/13	03/11/14	
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	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	µg/L	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	µg/L	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	µg/L	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	**2**
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2**
NYSDEC PAH17															
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	**3 J**	**3 J**	**1 J**	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	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	µg/L	10*	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**
Phenanthrene	µg/L	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	µg/L	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)	µg/L	NE	ND	ND	ND	ND	**2**	**3**	**4**	**1**	ND	ND	ND	ND	**2**
Total Metals															
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-23I2	OZMW-23D	OZMW-23D	OZMW-23D	OZMW-23D	OZMW-24S	OZMW-24S	OZMW-24S	OZMW-24S	OZMW-24I	OZMW-24I	OZMW-24I
		Start Depth	35	55	55	55	55	5	5	5	5	20	20	20
		End Depth	45	65	65	65	65	15	15	15	15	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/09/14	07/26/13	10/28/13	02/24/14	05/09/14	07/26/13	11/06/13	03/11/14	05/09/14	07/26/13	11/06/13	03/11/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	OZMW-24I	OZMW-24I2	OZMW-24I2	OZMW-24I2	OZMW-24I2	OZMW-24D	OZMW-24D	OZMW-24D	DUP-11-Q1	OZMW-24D	DUP-11 Q2	OZMW-25S
			Start Depth	20	35	35	35	35	55	55	55	55	55	55	5
			End Depth	30	45	45	45	45	65	65	65	65	65	65	15
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	05/09/14	07/26/13	11/06/13	03/11/14	05/09/14	07/26/13	11/06/13	03/11/14	03/11/14	05/09/14	05/09/14	08/02/13
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	**3**	**3**	**3**	**3**	**3**	1 U	**32**
Toluene	µg/L	5	1 U	1 U	1 U	1 U	**1**	**150 J**	**140**	**180**	**190**	**140**	1 U	**6**
Ethylbenzene	µg/L	5	1 U	**7**	**6**	**9**	**11**	**50**	**59**	**60**	**62**	**68**	1 U	**470 D**
Total Xylene	µg/L	5	1 U	**99**	**76**	**130**	**160**	**380**	**440**	**500**	**500**	**400**	1 U	**310**
Total BTEX (ND=0)	µg/L	NE	ND	**106**	**82**	**139**	**172**	**583**	**642**	**743**	**755**	**611**	ND	**818**
NYSDEC PAH17															
Acenaphthene	µg/L	20*	10 U	**19**	**52**	**44**	**44**	**7 J**	**11**	**12**	**11**	**8 J**	10 U	**60**
Acenaphthylene	µg/L	NE	10 U	**120 DJ**	**290 J**	**120 DJ**	**140 DJ**	**120 J**	**240 DJ**	**130 DJ**	1000 U	**120 DJ**	10 U	**53**
Anthracene	µg/L	50*	10 U	**5 J**	**10**	**5 J**	**8 J**	**2 J**	**5 J**	**5 J**	**5 J**	**5 J**	10 U	**31**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	10 U	**2 J**	**2 J**	**2 J**	**2 J**	10 U	10 U	10 U	**1 J**	10 U	10 U	**1 J**
Fluorene	µg/L	50*	10 U	**23**	**48**	**37**	**42**	**16**	**33**	**36**	**36**	**27**	10 U	**40**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	**320 DJ**	**670 J**	**410 DJ**	**410 DJ**	**270 J**	**580 D**	**380 DJ**	**360 DJ**	**360 DJ**	10 U	**200 D**
Naphthalene	µg/L	10*	10 U	**2000 D**	**4400**	**2900 D**	**2400 D**	**2100**	**3400 D**	**2000 D**	**2000 D**	**1900 D**	10 U	**110 D**
Phenanthrene	µg/L	50*	10 U	**26**	**46**	**29**	**42**	**12**	**28**	**31**	**33**	**30**	10 U	**32**
Pyrene	µg/L	50*	10 U	**2 J**	**3 J**	**2 J**	**4 J**	10 U	10 U	10 U	**1 J**	**1 J**	10 U	**2 J**
Total PAH (17) (ND=0)	µg/L	NE	ND	**2517**	**5521**	**3549**	**3092**	**2527**	**4297**	**2594**	**2447**	**2451**	ND	**529**
Total Metals															
Aluminum	µg/L	NE	--	--	--	--	--	**2970**	**2210**	**2230**	**2110**	**1500**	--	--
Antimony	µg/L	3	--	--	--	--	--	1.2 UJ	**8.4 B**	1.9 U	1.9 U	1.6 U	--	--
Arsenic	µg/L	25	--	--	--	--	--	**24.6**	**22.9**	**28.2**	**31.9**	**27.6**	--	--
Barium	µg/L	1000	--	--	--	--	--	**7.2 J**	**9.1 B**	**13.6 B**	**12.7 B**	**14.1 B**	--	--
Beryllium	µg/L	3*	--	--	--	--	--	**4 J**	**3.5 B**	**3.3 B**	**3.1 B**	**2.4 B**	--	--
Cadmium	µg/L	5	--	--	--	--	--	0.1 U	**0.2 B**	**5.2**	**5.2**	**3.5 B**	--	--
Calcium	µg/L	NE	--	--	--	--	--	**28500**	**24600**	**27300**	**26900**	**22800**	--	--
Chromium	µg/L	50	--	--	--	--	--	**24.8 J**	**16.4**	**17.3**	**17.2**	**15.3**	--	--
Cobalt	µg/L	NE	--	--	--	--	--	**23.3 J**	**20.2 B**	**21 B**	**20.3 B**	**18.6 B**	--	--
Copper	µg/L	200	--	--	--	--	--	0.4 UJ	0.7 U	**41**	**37.9**	**7.6 B**	--	--
Iron	µg/L	300	--	--	--	--	--	**67100**	**58200**	**61800**	**61300**	**55500**	--	--
Lead	µg/L	25	--	--	--	--	--	**2.5 J**	0.72 U	**11.9**	**15.5**	**23.7**	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	**14700**	**12000**	**12400**	**12000**	**10200**	--	--
Manganese	µg/L	300	--	--	--	--	--	**980**	**830**	**898**	**869**	**818**	--	--
Mercury	µg/L	0.7	--	--	--	--	--	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	--	--
Nickel	µg/L	100	--	--	--	--	--	**52**	**41.1**	**39.1 BE**	**38.2 BE**	**35.7 B**	--	--
Potassium	µg/L	NE	--	--	--	--	--	**1340 J**	**3760 B**	**3470 B**	**3490 B**	**2820 B**	--	--
Selenium	µg/L	10	--	--	--	--	--	2.3 UJ	**9.4**	**15.9**	**14.2**	**5.6 B**	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-24I	OZMW-24I2	OZMW-24I2	OZMW-24I2	OZMW-24I2	OZMW-24D	OZMW-24D	OZMW-24D	DUP-11-Q1	OZMW-24D	DUP-11 Q2	OZMW-25S
		Start Depth	20	35	35	35	35	55	55	55	55	55	55	5
		End Depth	30	45	45	45	45	65	65	65	65	65	65	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/09/14	07/26/13	11/06/13	03/11/14	05/09/14	07/26/13	11/06/13	03/11/14	03/11/14	05/09/14	05/09/14	08/02/13
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	0.2 UJ	0.43 UN	0.43 U	0.43 U	**5.9 B**	--	--
Sodium	µg/L	20000	--	--	--	--	--	**130000**	**109000 E**	**106000**	**106000**	**102000**	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	1.9 U	1.9 U	1.3 U	1.3 U	3.5 U	--	--
Vanadium	µg/L	NE	--	--	--	--	--	**19.3 J**	**15.2 B**	**14.6 B**	**13.7 B**	**11.4 BE**	--	--
Zinc	µg/L	2000*	--	--	--	--	--	**213**	**186**	**184 E**	**181 E**	**157 E**	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	**144000**	**150000**	**156000**	**158000**	**136000**	--	--
Ammonia	µg/L	2000	--	--	--	--	--	**1600**	**1330**	**1440**	**1420**	**1300**	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	**1870**	**1730**	**2040**	**2140**	**1920**	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	**2050**	2000 U	2000 U	2000 U	100 U	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	100 UJ	100 U	100 U	100 U	100 U	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	**3920**	**1730**	**2040**	**2140**	**1920**	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--		**370**			1 U	--	--
Sulfate	µg/L	250000	--	--	--	--	--	**516000**	**413000 D**	**454000 D**	**381000 D**	**384000 D**	--	--
Sulfide	µg/L	50*	--	--	--	--	--	2000 U	2000 U	2000 U	2000 U	2000 U	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	50 U	50 U	50 U	50 U	50 U	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	DUP-04 Q3	OZMW-25S	OZMW-25S	OZMW-25S	OZMW-25I	OZMW-25I	OZMW-25I	OZMW-25I	OZMW-25I2	OZMW-25I2	OZMW-25I2	OZMW-25I2
		Start Depth	5	5	5	5	20	20	20	20	35	35	35	35
		End Depth	15	15	15	15	30	30	30	30	45	45	45	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/02/13	10/30/13	02/07/14	05/08/14	08/02/13	10/30/13	02/07/14	05/08/14	08/02/13	10/30/13	02/07/14	05/08/14
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	**32**	**47**	**28**	**20**	**54**	**57**	**42**	**34**	**15**	**9**	1 U	1 U
Toluene	µg/L	5	**6**	**10**	**5**	**7**	**6**	**8**	**7**	**7**	**3**	**2**	1 U	**1**
Ethylbenzene	µg/L	5	**470 D**	**710**	**340 D**	**500 D**	**180 D**	**280**	**230 D**	**300 D**	**120**	**60**	**12**	**27**
Total Xylene	µg/L	5	**310**	**550**	**290**	**520 D**	**180**	**230**	**230**	**230**	**94**	**47**	**14**	**27**
Total BTEX (ND=0)	µg/L	NE	**818**	**1317**	**663**	**1047**	**420**	**575**	**509**	**571**	**232**	**118**	**26**	**55**
NYSDEC PAH17														
Acenaphthene	µg/L	20*	**62**	**78**	**75 DJ**	**48**	**92 J**	**150 J**	**130 DJ**	**110 DJ**	**43**	**40**	**21**	**13**
Acenaphthylene	µg/L	NE	**41**	**120 J**	**110 DJ**	**100 DJ**	**100 DJ**	**100 J**	**70**	**51**	**33**	**41**	**40**	**32**
Anthracene	µg/L	50*	**4 J**	**7 J**	**5 J**	**4 J**	**6 J**	**10**	**10**	**9 J**	**9 J**	**11**	**55**	**6 J**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	**1 J**	**1 J**	**1 J**	**1 J**	**2 J**	**3 J**	**3 J**	**3 J**	**3 J**	**4 J**	**3 J**	**2 J**
Fluorene	µg/L	50*	**41**	**52**	**39**	**32**	**39**	**55**	**54**	**44**	**35**	**31**	**31**	**24**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**43**	**850 J**	**290 DJ**	**410 D**	**630 DJ**	**810 J**	**640 D**	**470 DJ**	**120 DJ**	**40**	**21**	**11**
Naphthalene	µg/L	10*	**2 J**	**4100**	**2500 D**	**1400 D**	**2600 D**	**2600**	**2200 D**	**1500 D**	**730 D**	**410**	**55**	**100 D**
Phenanthrene	µg/L	50*	**32**	**45**	**37**	**26**	**36**	**56**	**57**	**53**	**61**	**58**	**55**	**39**
Pyrene	µg/L	50*	**2 J**	**2 J**	**1 J**	**1 J**	**2 J**	**3 J**	**3 J**	**4 J**	**5 J**	**5 J**	**4 J**	**2 J**
Total PAH (17) (ND=0)	µg/L	NE	**228**	**5255**	**3058**	**2022**	**3507**	**3787**	**3167**	**2244**	**1039**	**640**	**285**	**229**
Total Metals														
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	DUP-04 Q3	OZMW-25S	OZMW-25S	OZMW-25S	OZMW-25I	OZMW-25I	OZMW-25I	OZMW-25I	OZMW-25I2	OZMW-25I2	OZMW-25I2	OZMW-25I2
		Start Depth	5	5	5	5	20	20	20	20	35	35	35	35
		End Depth	15	15	15	15	30	30	30	30	45	45	45	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/02/13	10/30/13	02/07/14	05/08/14	08/02/13	10/30/13	02/07/14	05/08/14	08/02/13	10/30/13	02/07/14	05/08/14
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

			Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
			Sample Name	OZMW-25D	OZMW-25D	OZMW-25D	OZMW-25D	OZMW-26S	OZMW-26S	OZMW-26I	OZMW-26I	OZMW-26I	OZMW-26I	OZMW-26I2	OZMW-26I2
			Start Depth	55	55	55	55	5	5	20	20	20	20	35	35
			End Depth	65	65	65	65	15	15	30	30	30	30	45	45
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	08/02/13	10/30/13	02/07/14	06/04/14	11/08/13	05/09/14	07/30/13	10/30/13	02/06/14	05/09/14	07/30/13	10/30/13
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	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	**16**
Toluene	µg/L	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**
Ethylbenzene	µg/L	5	**5**	**1**	1 U	1 U	1 U	1 U	1 U	1 U	**2**	**3**	1 U	**5**	
Total Xylene	µg/L	5	**4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	**4**	**2**	**35**	
Total BTEX (ND=0)	µg/L	NE	**9**	**1**	ND	ND	ND	ND	ND	ND	**4**	**7**	**2**	**57**	
NYSDEC PAH17															
Acenaphthene	µg/L	20*	**2 J**	**2 J**	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	**16**	
Acenaphthylene	µg/L	NE	**7 J**	**8 J**	**5 J**	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	**10**	
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dibenz(a,h)anthracene	µg/L	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	
Fluoranthene	µg/L	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	µg/L	50*	**3 J**	**3 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
2-Methylnaphthalene	µg/L	NE	**17**	**15**	**7 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Naphthalene	µg/L	10*	**34**	**11**	**5 J**	10 U	10 U	10 U	10 U	10 U	**2 J**	**3 J**	**2 J**	**24**	
Phenanthrene	µg/L	50*	**3 J**	**4 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**12**	
Pyrene	µg/L	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)	µg/L	NE	**66**	**43**	**22**	ND	**1**	ND	ND	ND	**2**	**4**	**2**	**65**	
Total Metals															
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--	
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--	
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--	
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--	
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--	
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--	
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--	
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--	
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--	

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Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
		Sample Name	OZMW-25D	OZMW-25D	OZMW-25D	OZMW-25D	OZMW-26S	OZMW-26S	OZMW-26I	OZMW-26I	OZMW-26I	OZMW-26I	OZMW-26I2	OZMW-26I2
		Start Depth	55	55	55	55	5	5	20	20	20	20	35	35
		End Depth	65	65	65	65	15	15	30	30	30	30	45	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/02/13	10/30/13	02/07/14	06/04/14	11/08/13	05/09/14	07/30/13	10/30/13	02/06/14	05/09/14	07/30/13	10/30/13
Analyte	**Units**	**NYS AWQS**												
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

			Operable Unit	OU1	OU1	OU1	OU1
			Sample Name	OZMW-26I2	OZMW-26I2	OZMW-26D	OZMW-26D
			Start Depth	35	35	55	55
			End Depth	45	45	65	65
			Depth Unit	ft	ft	ft	ft
			Sample Date	02/06/14	05/09/14	11/08/13	05/09/14
Analyte	**Units**	**NYS AWQS**					
BTEX							
Benzene	µg/L	1	**10**	1 U	1 U	1 U
Toluene	µg/L	5	1 U	**2**	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U
Total Xylene	µg/L	5	**14**	**1**	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	**24**	**3**	ND	ND
NYSDEC PAH17							
Acenaphthene	µg/L	20*	**17**	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	**7 J**	10 U	10 UJ	10 U
Anthracene	µg/L	50*	**4 J**	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	**3 J**	10 U	10 U	10 U
Phenanthrene	µg/L	50*	**22**	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	**53**	ND	ND	ND
Total Metals							
Aluminum	µg/L	NE	--	--	--	--
Antimony	µg/L	3	--	--	--	--
Arsenic	µg/L	25	--	--	--	--
Barium	µg/L	1000	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--
Cadmium	µg/L	5	--	--	--	--
Calcium	µg/L	NE	--	--	--	--
Chromium	µg/L	50	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--
Copper	µg/L	200	--	--	--	--
Iron	µg/L	300	--	--	--	--
Lead	µg/L	25	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--
Manganese	µg/L	300	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--
Nickel	µg/L	100	--	--	--	--
Potassium	µg/L	NE	--	--	--	--
Selenium	µg/L	10	--	--	--	--

Table 4-3. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report
Operable Unit No. 1 (OU-1)

		Operable Unit	OU1	OU1	OU1	OU1
		Sample Name	OZMW-26I2	OZMW-26I2	OZMW-26D	OZMW-26D
		Start Depth	35	35	55	55
		End Depth	45	45	65	65
		Depth Unit	ft	ft	ft	ft
		Sample Date	02/06/14	05/09/14	11/08/13	05/09/14
Analyte	**Units**	**NYS AWQS**				
Silver	µg/L	50	--	--	--	--
Sodium	µg/L	20000	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--
Other						
Carbon dioxide	µg/L	NE	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--
Standard Plate Count	mpn/100mL	NE	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--

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

Table 4-4. Summary of Historical BTEX Groundwater Analytical Results Upgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)										
		Sampling Date										
		1999	2002			2003			2004			
		Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb/Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec
BBMW-01S	5.0 - 15.0	270	219	--	3,440	2,000	2,500	2,661	3,510	1,988	1,576	2,520
BBMW-01I	32.0 - 42.0	3	222	--	230	710	460	350	190	170	170	93
BBMW-01D	68.5 - 78.5	214	542	--	--	--	1,294	1,193	293	265	304	94
BBMW-23S	5.0 - 15.0	--	--	32,850	43,650	22,100	34,485	20,162	20,573	21,133	20,954	6,284
BBMW-23I	33.0 - 43.0	--	--	0	--	0	0	0	0	0	0	0
BBMW-23D	49.5 - 59.5	--	--	10	17	15	53	45	0	12	136	71
BBMW-23D2	63.0 - 73.0	--	--	28	--	0	97	80	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. Summary of Historical BTEX Groundwater Analytical Results Upgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2005				2006				2007			
		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	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	220	230	120	120	43	94	110	110	77	156	375	274
BBMW-01D	68.5 - 78.5	191	585	112	32	24	216	462	109	32	555	386	9
BBMW-23S	5.0 - 15.0	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	19	10
BBMW-23D	49.5 - 59.5	234	446	210	--	729	467	509	579	519	96	1,324	660
BBMW-23D2	63.0 - 73.0	0	--	--	--	0	--	--	--	0	0	0	0
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-4. Summary of Historical BTEX Groundwater Analytical Results Upgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2008				2009				2010			
		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
BBMW-01I	32.0 - 42.0	262	64	57	36	47	66	29	19	76	11	0	3
BBMW-01D	68.5 - 78.5	43	81	75	21	33	47	115	105	213	83	72	58
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
BBMW-23I	33.0 - 43.0	0	3	0	0	0	0	0	115	0	6	0	3
BBMW-23D	49.5 - 59.5	493	23	12	14	7	10	6	3	2	1	0	1
BBMW-23D2	63.0 - 73.0	0	3	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
OU2MW-17I	13.0 - 23.0	--	90	0	0	80	164	17	0	6	245	4	0
OU2MW-17I2	35.0 - 45.0	--	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
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
OU2MW-18I2	35.0 - 45.0	--	0	0	0	0	0	0	336	418	490	575	410
OU2MW-18D	60.0 - 70.0	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	85	59	4	0
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-4. Summary of Historical BTEX Groundwater Analytical Results Upgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		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
BBMW-01S	5.0 - 15.0	2	2	1	0	0	0	0	--	--	0	--	--
BBMW-01I	32.0 - 42.0	1	0	0	0	0	0	0	--	--	3	--	0
BBMW-01D	68.5 - 78.5	32	11	94	20	26	2	124	0	9	7	5	6
BBMW-23S	5.0 - 15.0	4,327	4,104	654	3,771	3509	3718	2569	2,477	1,667	5,214	1,156	1,787
BBMW-23I	33.0 - 43.0	0	17	0	0	0	41	0	0	0	100	49	0
BBMW-23D	49.5 - 59.5	0	0	0	50	44	0	0	2	0	0	--	0
BBMW-23D2	63.0 - 73.0	0	0	0	0	0	0	0	--	--	0	--	0
OU2MW-17S	5.0 - 10.0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-17I	13.0 - 23.0	0	2	19	3	10	0	0	1	7	3	0	3
OU2MW-17I2	35.0 - 45.0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-17D	60.0 - 75.0	0	0	0	0	0	0	0	0	0	0	--	--
OU2MW-18I	13.0 - 23.0	2,559	1,739	2,190	126	6	0	2	4	0	0	--	--
OU2MW-18I2	35.0 - 45.0	200	315	568	298	96	66	21	24	19	27	3	7
OU2MW-18D	60.0 - 70.0	0	0	9	0	0	0	0	0	--	0	--	--
OU2MW-54S	5.0 - 15.0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-54I	20.0 - 25.0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-54I2	40.0 - 45.0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-54D	60.0 - 65.0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-58S	5.0-15.0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-58I	25.0-30.0	2	0	0	0	0	0	0	--	--	0	--	--

Table 4-4. Summary of Historical BTEX Groundwater Analytical Results Upgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)						
		Sampling Date		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2014						
		Jan-Mar	Apr-Jun					
BBMW-01S	5.0 - 15.0	--	0	0	7,420	1,367	0	7,420
BBMW-01I	32.0 - 42.0	0	0	0	710	118	0	710
BBMW-01D	68.5 - 78.5	4	10	0	1,294	182	0	1,294
BBMW-23S	5.0 - 15.0	1,418	1,866	120	43,650	11,520	120	43,650
BBMW-23I	33.0 - 43.0	0	0	0	115	8	0	115
BBMW-23D	49.5 - 59.5	--	0	0	1,324	158	0	1,324
BBMW-23D2	63.0 - 73.0	--	0	0	97	6	0	97
OU2MW-17S	5.0 - 10.0	--	0	0	0	0	0	0
OU2MW-17I	13.0 - 23.0	0	0	0	245	27	0	245
OU2MW-17I2	35.0 - 45.0	--	0	0	0	0	0	0
OU2MW-17D	60.0 - 75.0	--	0	0	0	0	0	0
OU2MW-18I	13.0 - 23.0	--	0	0	28,040	4,268	0	28,040
OU2MW-18I2	35.0 - 45.0	0	0	0	575	161	0	575
OU2MW-18D	60.0 - 70.0	--	0	0	9	0	0	9
OU2MW-54S	5.0 - 15.0	--	0	0	85	12	0	85
OU2MW-54I	20.0 - 25.0	--	0	0	0	0	0	0
OU2MW-54I2	40.0 - 45.0	--	0	0	0	0	0	0
OU2MW-54D	60.0 - 65.0	--	0	0	0	0	0	0
OU2MW-58S	5.0-15.0	--	0	0	0	0	0	0
OU2MW-58I	25.0-30.0	--	0	0	2	0	0	2

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

Table 4-5. Summary of Historical Total PAH Groundwater Analytical Results Upgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)										
		Sampling Date										
		1999	2002			2003			2004			
		Oct/Nov	Apr/May	Jun/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec
BBMW-01S	5.0 - 15.0	2,055	3,420	--	2,823	600	1,102	1,730	2,077	1,394	869	1,565
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
BBMW-01D	68.5 - 78.5	1,605	4,566	--	--	--	4,871	4,543	1,460	1,800	1,359	429
BBMW-23S	5.0 - 15.0	--	--	2,397	2,681	1,400	2,319	2,383	1,288	1,733	2,220	599
BBMW-23I	33.0 - 43.0	--	--	0	--	178	0	61	0	0	0	0
BBMW-23D	49.5 - 59.5	--	--	741	802	910	1,203	1,562	468	400	1,081	931
BBMW-23D2	63.0 - 73.0	--	--	36	--	0	120	0	0	--	0	--
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--

Table 4-5. Summary of Historical Total PAH Groundwater Analytical Results Upgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2005				2006				2007			
		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	2,067	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	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	821	2,832	50	251	349	863	2,250	425	195	2,090	1,248	50
BBMW-23S	5.0 - 15.0	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	--	13	33	--	146	88	65	59	199	2,207	2,559	31
BBMW-23D	49.5 - 59.5	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	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. Summary of Historical Total PAH Groundwater Analytical Results Upgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2008				2009				2010			
		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
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
BBMW-01D	68.5 - 78.5	55	183	274	13	68	92	141	220	273	248	135	134
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
BBMW-23I	33.0 - 43.0	16	14	23	0	12	2	0	237	2	1	0	0
BBMW-23D	49.5 - 59.5	3,118	188	95	0	0	31	1	27	5	14	15	12
BBMW-23D2	63.0 - 73.0	2	50	0	0	0	0	0	0	0	0	1	0
OU2MW-17S	5.0 - 10.0	--	0	2	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
OU2MW-17I2	35.0 - 45.0	--	0	1	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
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
OU2MW-18I2	35.0 - 45.0	--	0	0	0	0	0	0	0	490	0	30	757
OU2MW-18D	60.0 - 70.0	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-54S	5.0 - 15.0	--	--	--	--	--	--	--	--	41	10	0	0
OU2MW-54I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-54I2	40.0 - 45.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-54D	60.0 - 65.0	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-58S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-58I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-5. Summary of Historical Total PAH Groundwater Analytical Results Upgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		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
BBMW-01S	5.0 - 15.0	36	3	50	21	2	1	0	--	--	0	--	--
BBMW-01I	32.0 - 42.0	508	0	0	0	0	0	0	--	--	623	--	0
BBMW-01D	68.5 - 78.5	103	0	423	73	88	58	418	11	30	30	33	16
BBMW-23S	5.0 - 15.0	71	427	224	389	519	437	436	429	460	525	380	725
BBMW-23I	33.0 - 43.0	0	0	2	0	0	6	0	0	0	10	12	0
BBMW-23D	49.5 - 59.5	0	0	0	0	17	9	6	7	7	5	--	4
BBMW-23D2	63.0 - 73.0	0	0	0	0	0	0	0	--	--	0	--	0
OU2MW-17S	5.0 - 10.0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-17I	13.0 - 23.0	0	0	4	0	2	2	3	2	3	2	2	2
OU2MW-17I2	35.0 - 45.0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-17D	60.0 - 75.0	0	0	0	0	4	0	0	0	0	0	--	--
OU2MW-18I	13.0 - 23.0	3,965	1,337	1,164	57	141	78	23	14	7	7	--	--
OU2MW-18I2	35.0 - 45.0	0	0	521	0	46	12	4	2	0	0	0	0
OU2MW-18D	60.0 - 70.0	0	0	13	3	0	0	0	0	--	0	--	--
OU2MW-54S	5.0 - 15.0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-54I	20.0 - 25.0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-54I2	40.0 - 45.0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-54D	60.0 - 65.0	0	0	0	0	0	0	0	--	--	0	--	--
OU2MW-58S	5.0-15.0	0	0	0	2	0	0	0	--	--	0	--	--
OU2MW-58I	25.0-30.0	0	0	0	3	0	0	0	--	--	0	--	--

Table 4-5. Summary of Historical Total PAH Groundwater Analytical Results Upgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)						
		Sampling Date		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2014						
		Jan-Mar	Apr-Jun					
BBMW-01S	5.0 - 15.0	--	0	0	4,347	1,134	0	4,347
BBMW-01I	32.0 - 42.0	0	4	0	10,674	5,262	0	10,674
BBMW-01D	68.5 - 78.5	6	11	0	4,871	782	0	4,871
BBMW-23S	5.0 - 15.0	243	187	71	3,162	1,413	71	3,162
BBMW-23I	33.0 - 43.0	0	0	0	2,559	139	0	2,559
BBMW-23D	49.5 - 59.5	--	4	0	6,619	1,113	0	6,619
BBMW-23D2	63.0 - 73.0	--	0	0	120	6	0	120
OU2MW-17S	5.0 - 10.0	--	0	0	2	0	0	2
OU2MW-17I	13.0 - 23.0	0	0	0	25	3	0	25
OU2MW-17I2	35.0 - 45.0	--	17	0	1	0	0	17
OU2MW-17D	60.0 - 75.0	--	0	0	4	0	0	4
OU2MW-18I	13.0 - 23.0	--	0	7	5,201	2,099	0	5,201
OU2MW-18I2	35.0 - 45.0	0	0	0	757	78	0	757
OU2MW-18D	60.0 - 70.0	--	0	0	13	1	0	13
OU2MW-54S	5.0 - 15.0	--	0	0	41	4	0	41
OU2MW-54I	20.0 - 25.0	--	0	0	0	0	0	0
OU2MW-54I2	40.0 - 45.0	--	0	0	0	0	0	0
OU2MW-54D	60.0 - 65.0	--	0	0	0	0	0	0
OU2MW-58S	5.0-15.0	--	0	0	2	0	0	2
OU2MW-58I	25.0-30.0	--	0	0	3	0	0	3

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

Table 4-6. Summary of Historical BTEX Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013-2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1999		2002			2003			2004			
		Sep	Sep	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec
BBMW-02S	5.0 - 15.0	--	--	0	--	0	--	--	--	--	--	--	--	--
BBMW-02I	30.0 - 40.0	--	--	7	--	0	--	--	--	--	--	--	--	--
BBMW-02D	73.0 - 83.0	--	--	21	--	0	--	--	--	--	--	--	--	--
BBMW-15S	5.0 - 15.0	--	--	0	--	0	0	0	--	--	0	--	--	--
BBMW-15I	23.0 - 28.0	--	--	473	--	2	0	0	--	--	0	--	--	--
BBMW-15I2	35.0 - 45.0	--	--	47	--	0		0	--	--	0	--	--	--
BBMW-15D	70.0 - 80.0	--	--	0	--	0	--	--	--	--	--	--	--	--
BBMW-16S	5.0 - 15.0	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-16I	35.0 - 45.0	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-16D	68.0 - 78.0	--	--	0	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4.0 - 14.0	--	--	--	--	14	0	0	0	0	0	0	0	0
BBMW-24I	32.0 - 42.0	--	--	--	--	264	533	612	774	833	96	82	2,408	2,068
BBMW-24D	59.5 - 69.5	--	--	--	--	1,102	--	1,005	837	1,389	1,420	590	194	183
GM-03S	6.78 - 21.78	41	15	70	4	36	--	32	--	--	229	--	--	128
GM-03I	30.03 - 45.03	7	0	26	7	135	--	0	--	--	879	--	--	--
GM-03D	53.18 - 68.18	175	375	0	0	0	--	0	--	--	0	--	0	--
MW-16AS	3.0 - 13.0	--	--	0	--	0	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-6. Summary of Historical BTEX Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013-2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1999		2002			2003			2004			
		Sep	Sep	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec
OU2MW-25D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--
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	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I2	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	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-6. Summary of Historical BTEX Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013-2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1999		2002			2003			2004			
		Sep	Sep	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec
OU2MW-38I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46.0 - 51.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56.0 - 61.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45D	55.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-6. Summary of Historical BTEX Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013-2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2005				2006				2007				2008
		Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar
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	0	0	0	0	0	0
BBMW-15I	23.0 - 28.0	0	--	--	--	--	--	0	--	0	0	0	0	0
BBMW-15I2	35.0 - 45.0	0	--	--	--	--	--	0	--	0	0	0	0	0
BBMW-15D	70.0 - 80.0	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-16I	35.0 - 45.0	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-16D	68.0 - 78.0	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-24S	4.0 - 14.0	0	0	0	--	0	0	0	0	0	0	0	0	0
BBMW-24I	32.0 - 42.0	477	1,290	175	--	--	519	--	183	116	115	277	9	0
BBMW-24D	59.5 - 69.5	666	799	658	--	--	367	--	647	662	0	7	4	176
GM-03S	6.78 - 21.78	40	--	103	133	19	126	177	69	116	0	0	0	0
GM-03I	30.03 - 45.03	0	--	137	--	196	0	0	0	0	78	190	129	245
GM-03D	53.18 - 68.18	0	--	0	--	--	--	--	--	0	0	0	0	0
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	0	0	0	0
OU2MW-08S	20.0 - 25.0	--	--	2,210	--	617	1,456	1,641	829	378	279	305	332	1,088
OU2MW-08I	35.0 - 40.0	--	--	181	--	527	196	355	201	167	521	481	196	88
OU2MW-08I2	50.0 - 55.0	--	--	112	--	172	272	590	582	249	105	120	545	369
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	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-6. Summary of Historical BTEX Groundwater Analytical Results Mid-Plume Treatment Area
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2013-2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2005				2006				2007				2008
		Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar
OU2MW-25D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--
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	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I2	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	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-6. Summary of Historical BTEX Groundwater Analytical Results Mid-Plume Treatment Area
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Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2005				2006				2007				2008
		Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar
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	--	--	--	--	--	--	--	--	--	--	--	--	--

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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2008			2009				2010				2011	
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
BBMW-02S	5.0 - 15.0	4	0	0	0	0	0	10	0	0	0	11	2	0
BBMW-02I	30.0 - 40.0	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
BBMW-15S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-15I	23.0 - 28.0	0	0	0	146	0	0	0	0	0	0	0	0	0
BBMW-15I2	35.0 - 45.0	0	0	149	0	0	0	0	0	0	0	0	0	2
BBMW-15D	70.0 - 80.0	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
BBMW-16I	35.0 - 45.0	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
BBMW-24S	4.0 - 14.0	0	117	0	0	0	0	0	0	0	0	0	0	0
BBMW-24I	32.0 - 42.0	0	0	0	10	394	14	3	2	1	0	0	0	0
BBMW-24D	59.5 - 69.5	215	7	15	22	107	29	103	147	65	0	0	1	0
GM-03S	6.78 - 21.78	0	23	--	--	--	--	--	--	--	--	--	--	--
GM-03I	30.03 - 45.03	161	257	--	--	--	--	--	--	--	--	--	--	--
GM-03D	53.18 - 68.18	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
OU2MW-08S	20.0 - 25.0	858	692	1,010	1,078	898	314	366	426	231	7	0	0	0
OU2MW-08I	35.0 - 40.0	245	62	69	46	333	209	4	156	168	136	108	6	0
OU2MW-08I2	50.0 - 55.0	317	248	293	152	39	86	104	136	92	120	105	62	64
OU2MW-08D	65.0 - 70.0	0	16	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
OU2MW-19I2	35.0 - 45.0	130	133	112	103	75	61	108	0	10	22	0	0	0
OU2MW-19D	65.0 - 70.0	--	543	1,818	542	341	127	152	0	13	14	14	38	84
OU2MW-20S	4.0 - 9.0	0	1	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
OU2MW-20I2	35.0 - 45.0	1	0	0	0	0	0	0	0	0	0	0	0	87
OU2MW-20D	65.0 - 70.0	--	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
OU2MW-21I	13.0 - 23.0	780	1,041	1,877	4,930	195	26	9	3	0	0	0	0	0
OU2MW-21I2	35.0 - 45.0	46	83	367	479	99	176	26	5	6	6	0	0	0
OU2MW-22S	5.0 - 15.0	--	--	0	2	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
OU2MW-22I2	46.0 - 51.0	--	--	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
OU2MW-23S	5.0 - 15.0	--	--	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
OU2MW-23I2	45.0 - 50.0	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-23D	65.0 - 70.0	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-24S	5.0 - 15.0	--	--	0	23	0	0	0	0	0	0	0	0	0
OU2MW-24I	25.0 - 30.0	--	--	2,862	2,153	197	56	0	0	0	0	0	0	0
OU2MW-24I2	45.0 - 50.0	--	--	0	0	0	0	0	0	0	0	31	39	114
OU2MW-24D	62.0 - 67.0	--	--	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
OU2MW-25I	25.0 - 30.0	--	--	125	276	138	49	732	6	0	29	260	13	0
OU2MW-25I2	45.0 - 50.0	--	--	0	0	0	0	0	0	0	0	0	0	0

Table 4-6. Summary of Historical BTEX Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013-2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2008			2009				2010				2011	
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
OU2MW-25D	70.0 - 75.0	--	--	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
OU2MW-26I	13.0 - 23.0	40	253	245	287	4	5	3	24	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
OU2MW-26D	60.0 - 70.0	76	167	187	474	335	491	890	362	980	640	580	269	48
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	0	0	0	0	2	0	0
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	0	0	0	0	1	0	0
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	24	11	12	0	6	2	0
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	18	24	0	0	3	24	7
OU2MW-28S	5.0 - 15.0	--	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
OU2MW-28I2	40.0 - 45.0	--	0	2	1	2	72	66	85	286	264	16	12	56
OU2MW-29I	18.0 - 23.0	--	1,290	1,715	1,122	480	31	4	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
OU2MW-29D	45.0 - 50.0	--	211	405	359	388	173	211	141	85	188	247	124	160
OU2MW-30S	5.0 - 15.0	--	52	251	3	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
OU2MW-30I2	30.0 - 35.0	--	533	41	43	471	195	143	80	4	3	0	0	0
OU2MW-30I3	45.0 - 50.0	--	91	247	254	130	31	19	10	3	37	1	3	10
OU2MW-30D	50.0 - 55.0	--	301	206	134	197	30	117	62	254	137	186	33	30
OU2MW-30D2	60.0 - 65.0	--	282	406	375	347	220	303	120	422	301	251	0	1
OU2MW-31I	18.0 - 23.0	--	512	343	779	856	3	1	0	0	0	0	0	0
OU2MW-31I2	30.0 - 35.0	--	0	0	1	413	59	0	5	38	2	0	0	0
OU2MW-32S	5.0 - 15.0	--	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-32I	20.0 - 25.0	--	2,073	1,355	3,698	5,013	701	899	2,583	2,554	399	31	0	0
OU2MW-32I2	30.0 - 35.0	--	1,493	375	71	57	7	2	25	76	2	0	1	0
OU2MW-32D	40.0 - 45.0	--	57	177	25	8	0	0	7	0	0	0	0	0
OU2MW-33S	5.0 - 15.0	--	--	--	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
OU2MW-33I2	35.0 - 40.0	--	--	--	77	2	0	154	1	0	0	3	0	0
OU2MW-33D	50.0 - 55.0	--	--	--	2	0	0	0	0	0	0	2	0	0
OU2MW-34S	5.0 - 15.0	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-34I	25.0 - 30.0	--	--	--	2,348	2,227	1,041	1,230	1,015	760	211	123	0	0
OU2MW-34I2	45.0 - 50.0	--	--	--	0	0	0	14	0	0	0	0	0	0
OU2MW-35S	5.0 - 15.0	--	--	17	9	16	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
OU2MW-35I2	45.0 - 50.0	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-35D	57.0 - 62.0	--	--	0	0	0	0	0	0	0	0	5	0	0
OU2MW-36S	5.0 - 15.0	--	--	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
OU2MW-36I2	45.0 - 50.0	--	--	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
OU2MW-37S	5.0 - 15.0	--	--	0	0	9	18	0	0	0	0	0	0	0
OU2MW-37I	25.0 - 30.0	--	--	87	373	411	2,623	3	267	11	338	0	0	0
OU2MW-37I2	45.0 - 50.0	--	--	0	0	4	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
OU2MW-38S	5.0 - 15.0	--	--	0	23	0	0	0	0	0	0	0	0	0

Table 4-6. Summary of Historical BTEX Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013-2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2008			2009				2010				2011	
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
OU2MW-38I	25.0 - 30.0	--	--	4,001	122	204	240	29	1	0	6	1	0	0
OU2MW-38I2	46.0 - 51.0	--	--	0	0	0	0	0	0	1	197	125	445	204
OU2MW-38D	56.0 - 61.0	--	--	0	0	0	0	0	0	0	80	18	0	0
OU2MW-39S	5.0 - 15.0	--	--	0	0	2	0	0	0	0	0	0	0	0
OU2MW-39I	25.0 - 30.0	--	--	0	0	5	0	4	18	0	0	0	0	0
OU2MW-39I2	45.0 - 50.0	--	--	1	0	1	3	0	84	228	26	5	5	48
OU2MW-39D	70.0 - 75.0	--	--	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
OU2MW-40I	18.0 - 23.0	--	192	61	270	168	24	0	0	0	0	0	0	0
OU2MW-41S	5.0 - 15.0	--	0	92	8	0	0	0	4	0	0	0	0	0
OU2MW-41I	18.0 - 23.0	--	1,500	1,625	1,433	585	526	48	358	5	2	4	0	0
OU2MW-42S	5.0 - 15.0	--	--	--	--	22	11	0	3	0	0	0	0	0
OU2MW-42I	25.0 - 30.0	--	--	--	--	4	86	18	13	33	0	0	0	0
OU2MW-42I2	45.0 - 50.0	--	--	--	--	0	0	0	2	4	0	0	0	0
OU2MW-42D	60.0 - 65.0	--	--	--	--	0	100	45	8	12	18	14	43	17
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	963	1	118	0	0	0	0
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	205	0	2	5	0	0	0
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	81	5	13	12	32	50	1
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	58	14	4	2	17	1	77
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-44D	65.0 - 70.0	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-45S	5.0 - 15.0	--	--	108	60	15	27	67	1	0	0	6	1	0
OU2MW-45I	20.0 - 25.0	--	--	3	10	20	1	2	600	62	0	26	0	0
OU2MW-45I2	40.0 - 45.0	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-45D	55.0 - 60.0	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-46S	5.0 - 15.0	--	--	421	422	21	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
OU2MW-46I2	40.0 - 45.0	--	--	2	375	185	0	0	0	0	5	2	0	0
OU2MW-47S	5.0 - 15.0	--	--	148	146	0	0	5	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
OU2MW-47I2	40.0 - 45.0	--	--	297	159	7	173	3	2	57	0	0	0	0
OU2MW-47D	60.0 - 65.0	--	--	472	569	695	258	234	39	13	11	5	7	50
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	8	8	5	0	0
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	18	10	7	1	0
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	120	100	14	9	4
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	159	156	149	84	59
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	45	6	4	0	0
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-56D	65.0 - 70.0	--	--	--	--	--	--	--	--	0	0	0	0	0

Table 4-6. Summary of Historical BTEX Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013-2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2011		2012				2013				2014	
		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-02S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-02I	30.0 - 40.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-02D	73.0 - 83.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-15S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-15I	23.0 - 28.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-15I2	35.0 - 45.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-15D	70.0 - 80.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-16S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-16I	35.0 - 45.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-16D	68.0 - 78.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-24S	4.0 - 14.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-24I	32.0 - 42.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-24D	59.5 - 69.5	9	3	0	0	2	0	3	1	2	--	--	5
GM-03S	6.78 - 21.78	--	--	--	--	--	--	--	--	--	--	--	--
GM-03I	30.03 - 45.03	--	--	--	--	--	--	--	--	--	--	--	--
GM-03D	53.18 - 68.18	--	--	--	--	--	--	--	--	--	--	--	--
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-08S	20.0 - 25.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-08I	35.0 - 40.0	0	175	2	0	16	4	0	0	0	0	0	0
OU2MW-08I2	50.0 - 55.0	97	100	104	129	104	66	90	61	42	21	18	31
OU2MW-08D	65.0 - 70.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-19I	13.0 - 23.0	0	0	0	0	0	121	0	0	5	0	0	0
OU2MW-19I2	35.0 - 45.0	0	0	0	0	0	114	0	4	11	0	0	0
OU2MW-19D	65.0 - 70.0	63	13	39	34	40	125	0	398	415	137	629	318
OU2MW-20S	4.0 - 9.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-20I	13.0 - 23.0	0	0	0	0	0	0	0	0	0	--	--	0
OU2MW-20I2	35.0 - 45.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-20D	65.0 - 70.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-21S	5.0 - 15.0	0	0	1	0	0	--	--	0	--	--	--	0
OU2MW-21I	13.0 - 23.0	0	0	2	0	0	--	--	0	--	--	--	0
OU2MW-21I2	35.0 - 45.0	0	0	3	0	0	--	--	0	--	--	--	0
OU2MW-22S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-22I	25.0 - 30.0	105	0	0	2	0	5	--	0	0	10	--	0
OU2MW-22I2	46.0 - 51.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-22D	67.0 - 72.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-23S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-23I	25.0 - 30.0	0	0	2	0	0	0	0	0	--	--	--	0
OU2MW-23I2	45.0 - 50.0	18	215	224	139	399	91	4	0	0	0	0	0
OU2MW-23D	65.0 - 70.0	0	0	0	2	0	--	--	0	0	--	--	0
OU2MW-24S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-24I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-24I2	45.0 - 50.0	92	0	0	30	186	2	66	347	162	106	467	67
OU2MW-24D	62.0 - 67.0	0	0	0	0	0	--	--	2	0	--	0	0
OU2MW-25S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-25I	25.0 - 30.0	7	62	0	0	2	26	0	0	0	8	0	0
OU2MW-25I2	45.0 - 50.0	0	0	0	0	0	--	--	0	--	--	--	0

Table 4-6. Summary of Historical BTEX Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013-2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2011		2012				2013				2014	
		Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
OU2MW-25D	70.0 - 75.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-26S	6.0 - 11.0	0	0	2	0	0	--	--	0	--	--	--	0
OU2MW-26I	13.0 - 23.0	2	0	0	0	0	0	--	0	--	--	--	0
OU2MW-26I2	35.0 - 45.0	0	2	6	0	0	--	--	0	--	--	--	0
OU2MW-26D	60.0 - 70.0	15	36	73	1	5	6	16	1	4	1	0	0
OU2MW-27S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-27I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-27I2	45.0 - 50.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-27D	65.0 - 70.0	27	1	0	0	0	0	--	0	0	0	0	0
OU2MW-28S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-28I	28.0 - 33.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-28I2	40.0 - 45.0	20	4	105	6	9	4	6	2	0	0	0	0
OU2MW-29I	18.0 - 23.0	0	0	0	0	0	--	0	0	0	0	0	0
OU2MW-29I2	30.0 - 35.0	0	0	0	0	0	--	0	0	0	0	0	0
OU2MW-29D	45.0 - 50.0	119	77	64	70	63	34	18	12	10	12	23	19
OU2MW-30S	5.0 - 15.0	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
OU2MW-30I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-30I3	45.0 - 50.0	97	77	3	10	0	0	0	0	0	0	0	0
OU2MW-30D	50.0 - 55.0	51	22	26	46	18	4	2	0	0	0	0	0
OU2MW-30D2	60.0 - 65.0	233	0	1	0	18	0	0	0	12	2	0	0
OU2MW-31I	18.0 - 23.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-31I2	30.0 - 35.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-32S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-32I	20.0 - 25.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-32I2	30.0 - 35.0	0	0	7	2	60	233	0	0	0	55	0	0
OU2MW-32D	40.0 - 45.0	22	270	159	228	446	217	168	331	288	114	174	105
OU2MW-33S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-33I	25.0 - 30.0	0	0	0	6	0	--	--	0	--	--	--	0
OU2MW-33I2	35.0 - 40.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-33D	50.0 - 55.0	0	0	0	0	0	--	--	6	--	40	--	42
OU2MW-34S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-34I	25.0 - 30.0	1,403	45	1	0	5	0	0	0	0	0	0	0
OU2MW-34I2	45.0 - 50.0	0	42	0	0	21	27	0	134	35	102	6	0
OU2MW-35S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-35I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-35I2	45.0 - 50.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-35D	57.0 - 62.0	0	0	0	0	0	0	0	0	30	--	--	0
OU2MW-36S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-36I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-36I2	45.0 - 50.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-36D	61.0 - 66.0	0	0	0	0	0	--	--	0	0	--	--	0
OU2MW-37S	5.0 - 15.0	0	0	0	2	0	--	--	0	--	--	--	0
OU2MW-37I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-37I2	45.0 - 50.0	0	0	0	2	0	--	--	0	--	--	--	0
OU2MW-37D	67.0 - 72.0	0	0	0	0	0	--	--	0	0	--	--	0
OU2MW-38S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0

Table 4-6. Summary of Historical BTEX Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013-2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)											
		Sampling Date											
		2011		2012				2013				2014	
		Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
OU2MW-38I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-38I2	46.0 - 51.0	155	43	588	919	78	2	0	0	0	0	--	0
OU2MW-38D	56.0 - 61.0	0	0	0	3	0	0	0	0	0	--	--	0
OU2MW-39S	5.0 - 15.0	0	0	1	0	0	0	5	0	0	0	0	0
OU2MW-39I	25.0 - 30.0	0	0	3	0	0	0	0	0	0	0	0	0
OU2MW-39I2	45.0 - 50.0	74	151	232	243	152	276	502	137	86	115	30	63
OU2MW-39D	70.0 - 75.0	0	0	2	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
OU2MW-40I	18.0 - 23.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-41S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-41I	18.0 - 23.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-42S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-42I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-42I2	45.0 - 50.0	0	0	0	0	3	--	--	9	--	0	9	0
OU2MW-42D	60.0 - 65.0	23	4	8	5	216	690	1,207	1,860	1,637	1,219	2,290	1,470
OU2MW-43S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-43I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-43I2	45.0 - 50.0	7	0	6	2	4	11	25	84	12	4	8	0
OU2MW-43D	65.0 - 70.0	124	6	66	47	267	321	375	454	471	484	665	376
OU2MW-44S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-44I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-44I2	45.0 - 50.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-44D	65.0 - 70.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-45S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-45I	20.0 - 25.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-45I2	40.0 - 45.0	0	1	0	0	0	--	--	0	--	--	--	0
OU2MW-45D	55.0 - 60.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-46S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-46I	20.0 - 25.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-46I2	40.0 - 45.0	0	0	0	0	0	--	--	0	3	--	--	0
OU2MW-47S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-47I	20.0 - 25.0	0	0	0	0	1	0	0	0	0	0	0	0
OU2MW-47I2	40.0 - 45.0	3	5	0	0	0	0	0	0	0	0	0	0
OU2MW-47D	60.0 - 65.0	6	0	0	4	0	0	0	0	0	0	0	0
OU2MW-55S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-55I	30.0 - 35.0	0	0	20	0	0	0	0	0	0	0	0	0
OU2MW-55I2	50.0 - 55.0	4	2	0	4	15	4	0	0	0	0	0	0
OU2MW-55D	65.0 - 70.0	4	11	0	2	0	0	2	4	2	0	0	0
OU2MW-56S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-56I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-56I2	45.0 - 50.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-56D	65.0 - 70.0	0	0	0	0	0	--	--	0	--	--	--	0

Table 4-6. Summary of Historical BTEX Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013-2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
BBMW-02S	5.0 - 15.0	0	11	1	0	11
BBMW-02I	30.0 - 40.0	0	7	0	0	7
BBMW-02D	73.0 - 83.0	0	21	1	0	21
BBMW-15S	5.0 - 15.0	0	0	0	0	0
BBMW-15I	23.0 - 28.0	0	473	20	0	473
BBMW-15I2	35.0 - 45.0	0	149	7	0	149
BBMW-15D	70.0 - 80.0	0	0	0	0	0
BBMW-16S	5.0 - 15.0	0	0	0	0	0
BBMW-16I	35.0 - 45.0	0	0	0	0	0
BBMW-16D	68.0 - 78.0	0	0	0	0	0
BBMW-24S	4.0 - 14.0	0	117	3	0	117
BBMW-24I	32.0 - 42.0	0	2,408	296	0	2,408
BBMW-24D	59.5 - 69.5	0	1,420	286	0	1,420
GM-03S	6.78 - 21.78	0	229	62	0	229
GM-03I	30.03 - 45.03	0	879	122	0	879
GM-03D	53.18 - 68.18	0	375	32	0	375
MW-16AS	3.0 - 13.0	0	0	0	0	0
OU2MW-08WT	3.0 - 8.0	0	0	0	0	0
OU2MW-08S	20.0 - 25.0	0	2,210	518	0	2,210
OU2MW-08I	35.0 - 40.0	0	527	137	0	527
OU2MW-08I2	50.0 - 55.0	18	590	170	18	590
OU2MW-08D	65.0 - 70.0	0	16	1	0	16
OU2MW-19I	13.0 - 23.0	0	4,617	377	0	4,617
OU2MW-19I2	35.0 - 45.0	0	133	37	0	133
OU2MW-19D	65.0 - 70.0	0	1,818	243	0	1,818
OU2MW-20S	4.0 - 9.0	0	1	0	0	1
OU2MW-20I	13.0 - 23.0	0	819	134	0	819
OU2MW-20I2	35.0 - 45.0	0	87	5	0	87
OU2MW-20D	65.0 - 70.0	0	0	0	0	0
OU2MW-21S	5.0 - 15.0	0	870	56	0	870
OU2MW-21I	13.0 - 23.0	0	4,930	466	0	4,930
OU2MW-21I2	35.0 - 45.0	0	479	68	0	479
OU2MW-22S	5.0 - 15.0	0	2	0	0	2
OU2MW-22I	25.0 - 30.0	0	298	41	0	298
OU2MW-22I2	46.0 - 51.0	0	0	0	0	0
OU2MW-22D	67.0 - 72.0	0	0	0	0	0
OU2MW-23S	5.0 - 15.0	0	0	0	0	0
OU2MW-23I	25.0 - 30.0	0	5,108	791	0	5,108
OU2MW-23I2	45.0 - 50.0	0	399	50	0	399
OU2MW-23D	65.0 - 70.0	0	2	0	0	2
OU2MW-24S	5.0 - 15.0	0	23	1	0	23
OU2MW-24I	25.0 - 30.0	0	2,862	310	0	2,862
OU2MW-24I2	45.0 - 50.0	0	467	75	0	467
OU2MW-24D	62.0 - 67.0	0	2	0	0	2
OU2MW-25S	5.0 - 15.0	0	0	0	0	0
OU2MW-25I	25.0 - 30.0	0	732	79	0	732
OU2MW-25I2	45.0 - 50.0	0	0	0	0	0

Table 4-6. Summary of Historical BTEX Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013-2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
OU2MW-25D	70.0 - 75.0	0	0	0	0	0
OU2MW-26S	6.0 - 11.0	0	2	0	0	2
OU2MW-26I	13.0 - 23.0	0	287	43	0	287
OU2MW-26I2	35.0 - 45.0	0	1,559	129	0	1,559
OU2MW-26D	60.0 - 70.0	0	980	236	0	980
OU2MW-27S	5.0 - 15.0	0	2	0	0	2
OU2MW-27I	25.0 - 30.0	0	1	0	0	1
OU2MW-27I2	45.0 - 50.0	0	24	4	0	24
OU2MW-27D	65.0 - 70.0	0	27	6	0	27
OU2MW-28S	5.0 - 15.0	0	0	0	0	0
OU2MW-28I	28.0 - 33.0	0	400	43	0	400
OU2MW-28I2	40.0 - 45.0	0	286	44	0	286
OU2MW-29I	18.0 - 23.0	0	1,715	211	0	1,715
OU2MW-29I2	30.0 - 35.0	0	1,316	99	0	1,316
OU2MW-29D	45.0 - 50.0	10	405	139	10	405
OU2MW-30S	5.0 - 15.0	0	251	13	0	251
OU2MW-30I	25.0 - 30.0	0	729	76	0	729
OU2MW-30I2	30.0 - 35.0	0	533	66	0	533
OU2MW-30I3	45.0 - 50.0	0	254	44	0	254
OU2MW-30D	50.0 - 55.0	0	301	81	0	301
OU2MW-30D2	60.0 - 65.0	0	422	143	0	422
OU2MW-31I	18.0 - 23.0	0	856	139	0	856
OU2MW-31I2	30.0 - 35.0	0	413	29	0	413
OU2MW-32S	5.0 - 15.0	0	0	0	0	0
OU2MW-32I	20.0 - 25.0	0	5,013	1,073	0	5,013
OU2MW-32I2	30.0 - 35.0	0	1,493	107	0	1,493
OU2MW-32D	40.0 - 45.0	0	446	117	0	446
OU2MW-33S	5.0 - 15.0	0	0	0	0	0
OU2MW-33I	25.0 - 30.0	0	3,159	210	0	3,159
OU2MW-33I2	35.0 - 40.0	0	154	15	0	154
OU2MW-33D	50.0 - 55.0	0	40	3	0	42
OU2MW-34S	5.0 - 15.0	0	0	0	0	0
OU2MW-34I	25.0 - 30.0	0	2,348	496	0	2,348
OU2MW-34I2	45.0 - 50.0	0	134	18	0	134
OU2MW-35S	5.0 - 15.0	0	17	2	0	17
OU2MW-35I	25.0 - 30.0	0	678	41	0	678
OU2MW-35I2	45.0 - 50.0	0	0	0	0	0
OU2MW-35D	57.0 - 62.0	0	30	2	0	30
OU2MW-36S	5.0 - 15.0	0	0	0	0	0
OU2MW-36I	25.0 - 30.0	0	288	23	0	288
OU2MW-36I2	45.0 - 50.0	0	0	0	0	0
OU2MW-36D	61.0 - 66.0	0	0	0	0	0
OU2MW-37S	5.0 - 15.0	0	18	2	0	18
OU2MW-37I	25.0 - 30.0	0	2,623	242	0	2,623
OU2MW-37I2	45.0 - 50.0	0	4	0	0	4
OU2MW-37D	67.0 - 72.0	0	0	0	0	0
OU2MW-38S	5.0 - 15.0	0	23	1	0	23

Table 4-6. Summary of Historical BTEX Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013-2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
OU2MW-38I	25.0 - 30.0	0	4,001	271	0	4,001
OU2MW-38I2	46.0 - 51.0	0	919	131	0	919
OU2MW-38D	56.0 - 61.0	0	80	5	0	80
OU2MW-39S	5.0 - 15.0	0	5	0	0	5
OU2MW-39I	25.0 - 30.0	0	18	1	0	18
OU2MW-39I2	45.0 - 50.0	0	502	109	0	502
OU2MW-39D	70.0 - 75.0	0	2	0	0	2
OU2MW-40S	5.0 - 15.0	0	0	0	0	0
OU2MW-40I	18.0 - 23.0	0	270	40	0	270
OU2MW-41S	5.0 - 15.0	0	92	6	0	92
OU2MW-41I	18.0 - 23.0	0	1,625	265	0	1,625
OU2MW-42S	5.0 - 15.0	0	22	2	0	22
OU2MW-42I	25.0 - 30.0	0	86	10	0	86
OU2MW-42I2	45.0 - 50.0	0	9	2	0	9
OU2MW-42D	60.0 - 65.0	0	2,290	471	0	2,290
OU2MW-43S	5.0 - 15.0	0	963	83	0	963
OU2MW-43I	25.0 - 30.0	0	205	16	0	205
OU2MW-43I2	45.0 - 50.0	0	84	20	0	84
OU2MW-43D	65.0 - 70.0	1	665	192	1	665
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	17	0	108
OU2MW-45I	20.0 - 25.0	0	600	43	0	600
OU2MW-45I2	40.0 - 45.0	0	1	0	0	1
OU2MW-45D	55.0 - 60.0	0	0	0	0	0
OU2MW-46S	5.0 - 15.0	0	422	51	0	422
OU2MW-46I	20.0 - 25.0	0	1,991	231	0	1,991
OU2MW-46I2	40.0 - 45.0	0	375	32	0	375
OU2MW-47S	5.0 - 15.0	0	148	14	0	148
OU2MW-47I	20.0 - 25.0	0	2,714	172	0	2,714
OU2MW-47I2	40.0 - 45.0	0	297	32	0	297
OU2MW-47D	60.0 - 65.0	0	695	107	0	695
OU2MW-55S	5.0 - 15.0	0	8	1	0	8
OU2MW-55I	30.0 - 35.0	0	20	4	0	20
OU2MW-55I2	50.0 - 55.0	0	120	17	0	120
OU2MW-55D	65.0 - 70.0	0	159	40	0	159
OU2MW-56S	5.0 - 15.0	0	0	0	0	0
OU2MW-56I	25.0 - 30.0	0	45	5	0	45
OU2MW-56I2	45.0 - 50.0	0	0	0	0	0
OU2MW-56D	65.0 - 70.0	0	0	0	0	0

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

Table 4-7. Summary of Historical Total PAH Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1999		2002			2003			2004			
		Sept	Sept	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	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	--	--	--
BBMW-15I	23.0 - 28.0	--	--	30	--	0	0	0	--	--	0	--	--	--
BBMW-15I2	35.0 - 45.0	--	--	3	--	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
BBMW-24I	32.0 - 42.0	--	--	--	--	6,632	11,246	6,000	6,400	4,815	4,782	5,284	7,679	8,053
BBMW-24D	59.5 - 69.5	--	--	--	--	7,412	--	6,000	5,800	8,110	3,194	1,070	360	392
GM-03S	6.78 - 21.78	196	6	6	4	37	--	510	--	--	100	--	--	182
GM-03I	30.03 - 45.03	350	0	21	12	273	--	149	--	--	898	--	--	--
GM-03D	53.18 - 68.18	661	1,238	0	1	1	--	31	--	--	0	--	0	--
MW-16AS	3.0 - 13.0	--	--	0	--	0	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-7. Summary of Historical Total PAH Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1999		2002			2003			2004			
		Sept	Sept	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec
OU2MW-25D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--
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	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I2	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	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-7. Summary of Historical Total PAH Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1999		2002			2003			2004			
		Sept	Sept	Oct/Nov	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec
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. Summary of Historical Total PAH Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2005				2006				2007				2008
		Feb/Mar	June	August	Nov/Dec	March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar
BBMW-02S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	1	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	0	0	0	0	0	0
BBMW-15I	23.0 - 28.0	0	--	--	--	--	--	0	--	0	0	0	0	0
BBMW-15I2	35.0 - 45.0	0	--	--	--	--	--	0	--	0	0	0	0	0
BBMW-15D	70.0 - 80.0	--	--	--	--	--	--	--	--	0	0	0	2	0
BBMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	2	0
BBMW-16I	35.0 - 45.0	--	--	--	--	--	--	--	--	0	0	0	0	2
BBMW-16D	68.0 - 78.0	--	--	--	--	--	--	--	--	0	0	0	0	0
BBMW-24S	4.0 - 14.0	0	10	0	--	0	0	0	0	0	0	0	0	0
BBMW-24I	32.0 - 42.0	6,062	4,694	5,392	--	--	5,772	--	2,115	184	434	1,863	103	85
BBMW-24D	59.5 - 69.5	3,232	5,652	5,372	--	--	3,037	--	4,055	3,852	0	1	0	0
GM-03S	6.78 - 21.78	12	--	183	110	0	250	245	72	235	21	8	8	0
GM-03I	30.03 - 45.03	67	--	429	--	1,330	0	0	0	0	275	611	44	2
GM-03D	53.18 - 68.18	0	--	0	--	--	--	--	--	0	0	4	0	48
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	0	7	0	20
OU2MW-08S	20.0 - 25.0	--	--	2,204	--	9,968	7,000	4,974	8,445	5,763	9,121	8,025	13,563	6,542
OU2MW-08I	35.0 - 40.0	--	--	3,453	--	4,983	4,020	2,328	3,013	507	2,354	799	2,954	2,264
OU2MW-08I2	50.0 - 55.0	--	--	1,364	--	1,666	2,664	1,347	1,961	1,454	1,429	262	3,501	1,646
OU2MW-08D	65.0 - 70.0	--	--	0	--	0	0	0	0	0	111	0	3,892	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	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-7. Summary of Historical Total PAH Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2005				2006				2007				2008
		Feb/Mar	June	August	Nov/Dec	March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar
OU2MW-25D	70.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--
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	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-34I2	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	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-7. Summary of Historical Total PAH Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2005				2006				2007				2008
		Feb/Mar	June	August	Nov/Dec	March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar
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. Summary of Historical Total PAH Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2008			2009				2010				2011	
		Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun
BBMW-02S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-02I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-02D	73.0 - 83.0	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	2
BBMW-15I	23.0 - 28.0	0	0	0	48	0	0	0	0	0	0	0	0	0
BBMW-15I2	35.0 - 45.0	0	0	77	0	0	0	0	0	0	0	0	0	0
BBMW-15D	70.0 - 80.0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-16S	5.0 - 15.0	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
BBMW-16D	68.0 - 78.0	23	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-24S	4.0 - 14.0	0	120	0	0	0	0	1	0	0	0	0	0	0
BBMW-24I	32.0 - 42.0	87	0	0	0	1,027	0	0	0	0	0	0	0	0
BBMW-24D	59.5 - 69.5	160	2	113	233	13	53	131	268	114	26	3	1	0
GM-03S	6.78 - 21.78	0	47	--	--	--	--	--	--	--	--	--	--	--
GM-03I	30.03 - 45.03	106	13	--	--	--	--	--	--	--	--	--	--	--
GM-03D	53.18 - 68.18	0	0	--	--	--	--	--	--	--	--	--	--	--
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	--	0	62	0	0	0	0	0	0	0	0	0	0
OU2MW-08S	20.0 - 25.0	6,504	7,369	6,698	4,426	4,661	4,301	714	1,958	820	84	52	1	4
OU2MW-08I	35.0 - 40.0	4,805	12,258	8,486	4,781	7,615	2,887	1	344	9	60	0	0	7
OU2MW-08I2	50.0 - 55.0	2,120	3,037	2,954	906	0	70	2,140	2,182	524	704	2,146	489	909
OU2MW-08D	65.0 - 70.0	0	9	0	0	0	0	0	0	0	0	0	0	0
OU2MW-19I	13.0 - 23.0	1,043	1,459	357	175	92	146	55	26	11	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
OU2MW-19D	65.0 - 70.0	--	801	3,718	1,862	2,841	3,601	2,932	0	0	0	30	212	20
OU2MW-20S	4.0 - 9.0	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
OU2MW-20I2	35.0 - 45.0	4	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-20D	65.0 - 70.0	--	2	0	0	0	0	2	0	0	0	0	0	0
OU2MW-21S	5.0 - 15.0	--	--	424	341	9	4	0	0	13	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
OU2MW-21I2	35.0 - 45.0	3,922	3,985	3,134	3,902	1,244	110	10	6	1	2	1	1	0
OU2MW-22S	5.0 - 15.0	--	--	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
OU2MW-22I2	46.0 - 51.0	--	--	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
OU2MW-23S	5.0 - 15.0	--	--	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
OU2MW-23I2	45.0 - 50.0	--	--	0	0	0	0	0	0	0	0	0	2	0
OU2MW-23D	65.0 - 70.0	--	--	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
OU2MW-24I	25.0 - 30.0	--	--	6,015	5,796	1,068	493	80	0	5	0	0	0	0
OU2MW-24I2	45.0 - 50.0	--	--	4	0	0	0	0	0	0	0	187	9	24
OU2MW-24D	62.0 - 67.0	--	--	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
OU2MW-25I	25.0 - 30.0	--	--	149	121	133	72	63	45	0	6	52	30	3
OU2MW-25I2	45.0 - 50.0	--	--	0	0	0	0	0	0	0	0	0	0	0

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Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2008			2009				2010				2011	
		Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun
OU2MW-25D	70.0 - 75.0	--	--	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
OU2MW-26I	13.0 - 23.0	102	154	235	277	0	3	0	1	1	0	0	0	0
OU2MW-26I2	35.0 - 45.0	54	965	3,990	2,576	26	14	7	15	6	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
OU2MW-27S	5.0 - 15.0	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-27I	25.0 - 30.0	--	--	--	--	--	--	10	2	0	0	0	0	0
OU2MW-27I2	45.0 - 50.0	--	--	--	--	--	--	18	8	0	2	1	0	0
OU2MW-27D	65.0 - 70.0	--	--	--	--	--	--	1,150	0	2	1	0	0	4
OU2MW-28S	5.0 - 15.0	--	0	0	0	1	0	0	0	0	0	0	0	0
OU2MW-28I	28.0 - 33.0	--	283	132	121	0	11	13	0	0	0	0	0	0
OU2MW-28I2	40.0 - 45.0	--	12	16	15	0	1,712	532	79	4,443	4,414	0	0	3
OU2MW-29I	18.0 - 23.0	--	863	1,083	700	513	38	6	0	0	0	0	1	27
OU2MW-29I2	30.0 - 35.0	--	3,642	6,159	2,778	6,117	274	501	76	57	15	1	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
OU2MW-30S	5.0 - 15.0	--	2	1,990	10	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
OU2MW-30I2	30.0 - 35.0	--	6,605	5,671	6,025	4,696	195	76	6	2	13	0	0	0
OU2MW-30I3	45.0 - 50.0	--	93	5,101	5,562	5,586	94	80	3	0	73	0	0	0
OU2MW-30D	50.0 - 55.0	--	1,087	5,989	1,652	4,681	84	586	8	3	6	2	5	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
OU2MW-31I	18.0 - 23.0	--	212	488	79	137	4	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
OU2MW-32S	5.0 - 15.0	--	0	0	63	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
OU2MW-32I2	30.0 - 35.0	--	5,230	3,459	1,164	408	94	39	503	578	132	58	14	10
OU2MW-32D	40.0 - 45.0	--	29	1,336	189	32	10	0	0	0	2	0	0	0
OU2MW-33S	5.0 - 15.0	--	--	--	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
OU2MW-33I2	35.0 - 40.0	--	--	--	104	14	4	679	16	6	0	0	0	0
OU2MW-33D	50.0 - 55.0	--	--	--	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
OU2MW-34I	25.0 - 30.0	--	--	--	257	333	153	280	295	195	53	34	14	2
OU2MW-34I2	45.0 - 50.0	--	--	--	3	0	0	11	0	0	0	0	0	0
OU2MW-35S	5.0 - 15.0	--	--	3	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
OU2MW-35I2	45.0 - 50.0	--	--	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
OU2MW-36S	5.0 - 15.0	--	--	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
OU2MW-36I2	45.0 - 50.0	--	--	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
OU2MW-37S	5.0 - 15.0	--	--	0	0	3	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
OU2MW-37I2	45.0 - 50.0	--	--	0	0	3	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
OU2MW-38S	5.0 - 15.0	--	--	0	0	0	0	0	0	0	0	0	0	0

Table 4-7. Summary of Historical Total PAH Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2008			2009				2010				2011	
		Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun
OU2MW-38I	25.0 - 30.0	--	--	2,992	2,202	206	61	14	0	0	0	0	0	0
OU2MW-38I2	46.0 - 51.0	--	--	0	0	0	0	0	0	0	26	5	7	116
OU2MW-38D	56.0 - 61.0	--	--	0	0	0	0	0	0	0	60	11	0	0
OU2MW-39S	5.0 - 15.0	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-39I	25.0 - 30.0	--	--	32	4	3	0	0	0	0	0	0	0	0
OU2MW-39I2	45.0 - 50.0	--	--	1	0	55	130	1	671	220	89	0	14	0
OU2MW-39D	70.0 - 75.0	--	--	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
OU2MW-40I	18.0 - 23.0	--	165	122	167	71	25	16	14	0	0	0	0	0
OU2MW-41S	5.0 - 15.0	--	0	143	0	0	0	0	1	19	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
OU2MW-42S	5.0 - 15.0	--	--	--	--	107	0	0	5	0	0	5	0	2
OU2MW-42I	25.0 - 30.0	--	--	--	--	2	0	0	106	14	7	0	0	0
OU2MW-42I2	45.0 - 50.0	--	--	--	--	0	0	0	0	0	0	0	0	0
OU2MW-42D	60.0 - 65.0	--	--	--	--	4	185	373	199	80	56	121	26	115
OU2MW-43S	5.0 - 15.0	--	--	--	--	--	--	219	31	0	0	0	0	0
OU2MW-43I	25.0 - 30.0	--	--	--	--	--	--	197	18	0	0	0	0	0
OU2MW-43I2	45.0 - 50.0	--	--	--	--	--	--	5,130	10	96	0	1,293	259	5
OU2MW-43D	65.0 - 70.0	--	--	--	--	--	--	14	71	10	4	44	0	119
OU2MW-44S	5.0 - 15.0	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-44I	25.0 - 30.0	--	--	--	--	--	--	1	0	0	0	0	0	0
OU2MW-44I2	45.0 - 50.0	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-44D	65.0 - 70.0	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-45S	5.0 - 15.0	--	--	--	--	--	--	45	0	0	0	0	0	0
OU2MW-45I	20.0 - 25.0	--	--	30	8	5	1	2	200	25	1	0	0	0
OU2MW-45I2	40.0 - 45.0	--	--	39	7	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
OU2MW-46S	5.0 - 15.0	--	--	0	31	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
OU2MW-46I2	40.0 - 45.0	--	--	0	4	56	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
OU2MW-47I	20.0 - 25.0	--	--	785	1,043	4	0	1	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
OU2MW-47D	60.0 - 65.0	--	--	7,437	7,007	6,751	3,906	1,550	0	6	32	4	2	21
OU2MW-55S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-55I	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-55I2	50.0 - 55.0	--	--	--	--	--	--	--	--	18	336	0	0	0
OU2MW-55D	65.0 - 70.0	--	--	--	--	--	--	--	--	179	29	252	5	35
OU2MW-56S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-56I	25.0 - 30.0	--	--	--	--	--	--	--	--	6	0	0	0	0
OU2MW-56I2	45.0 - 50.0	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-56D	65.0 - 70.0	--	--	--	--	--	--	--	--	0	0	0	0	0

Table 4-7. Summary of Historical Total PAH Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2011		2012				2013				2014	
		Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun
BBMW-02S	5.0 - 15.0	2	0	0	0	0	--	--	0	--	--	--	0
BBMW-02I	30.0 - 40.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-02D	73.0 - 83.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-15S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-15I	23.0 - 28.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-15I2	35.0 - 45.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-15D	70.0 - 80.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-16S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-16I	35.0 - 45.0	0	0	1	0	0	--	--	0	--	--	--	0
BBMW-16D	68.0 - 78.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-24S	4.0 - 14.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-24I	32.0 - 42.0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-24D	59.5 - 69.5	2	0	0	0	0	0	0	0	2	--	--	8
GM-03S	6.78 - 21.78	--	--	--	--	--	--	--	--	--	--	--	--
GM-03I	30.03 - 45.03	--	--	--	--	--	--	--	--	--	--	--	--
GM-03D	53.18 - 68.18	--	--	--	--	--	--	--	--	--	--	--	--
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3.0 - 8.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-08S	20.0 - 25.0	2	4	0	0	0	--	--	0	--	--	--	0
OU2MW-08I	35.0 - 40.0	17	0	39	9	0	1	2	0	0	0	0	0
OU2MW-08I2	50.0 - 55.0	2,102	2,599	1,989	2,330	630	363	146	171	85	103	56	75
OU2MW-08D	65.0 - 70.0	6	0	0	0	6	--	--	1	--	--	--	0
OU2MW-19I	13.0 - 23.0	0	0	0	3	0	0	0	0	22	0	0	0
OU2MW-19I2	35.0 - 45.0	0	0	0	8	0	5	0	16	44	0	0	0
OU2MW-19D	65.0 - 70.0	4	14	254	180	231	13	0	1,568	1,911	3	1,141	1,308
OU2MW-20S	4.0 - 9.0	0	0	0	2	0	--	--	0	--	--	--	0
OU2MW-20I	13.0 - 23.0	0	0	0	0	0	0	0	0	0	--	--	0
OU2MW-20I2	35.0 - 45.0	5	0	0	0	0	--	--	0	--	--	--	0
OU2MW-20D	65.0 - 70.0	0	0	0	1	0	--	--	0	--	--	--	0
OU2MW-21S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-21I	13.0 - 23.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-21I2	35.0 - 45.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-22S	5.0 - 15.0	0	0	0	3	0	--	--	0	--	--	--	0
OU2MW-22I	25.0 - 30.0	58	0	0	4	0	4	--	0	0	3	--	0
OU2MW-22I2	46.0 - 51.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-22D	67.0 - 72.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-23S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-23I	25.0 - 30.0	0	0	2	0	0	0	1	0	--	--	--	0
OU2MW-23I2	45.0 - 50.0	9	434	126	123	268	81	9	0	0	0	0	0
OU2MW-23D	65.0 - 70.0	0	0	0	4	0	--	--	0	0	--	--	0
OU2MW-24S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-24I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-24I2	45.0 - 50.0	356	3	1	220	523	4	122	1,610	1,959	961	3,130	322
OU2MW-24D	62.0 - 67.0	0	0	0	3	0	--	--	20	0	--	0	0
OU2MW-25S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-25I	25.0 - 30.0	1	30	4	0	0	12	0	0	0	16	0	0
OU2MW-25I2	45.0 - 50.0	0	0	0	0	0	--	--	0	--	--	--	0

Table 4-7. Summary of Historical Total PAH Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2011		2012				2013				2014	
		Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun
OU2MW-25D	70.0 - 75.0	0	0	0	2	0	--	--	0	--	--	--	0
OU2MW-26S	6.0 - 11.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-26I	13.0 - 23.0	0	19	0	0	0	0	--	0	--	--	--	0
OU2MW-26I2	35.0 - 45.0	0	0	0	0	0	--	--	0	--	--	--	1
OU2MW-26D	60.0 - 70.0	14	0	6	0	0	0	0	0	0	0	0	0
OU2MW-27S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-27I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-27I2	45.0 - 50.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-27D	65.0 - 70.0	438	0	10	0	4	25	--	0	0	0	0	0
OU2MW-28S	5.0 - 15.0	1	0	0	0	4	--	--	0	--	--	--	0
OU2MW-28I	28.0 - 33.0	1	0	0	2	5	--	--	0	--	--	--	2
OU2MW-28I2	40.0 - 45.0	99	20	183	0	1	0	0	0	0	0	0	0
OU2MW-29I	18.0 - 23.0	0	0	0	8	11	--	0	0	0	10	0	0
OU2MW-29I2	30.0 - 35.0	0	0	0	0	33	--	0	0	67	0	5	0
OU2MW-29D	45.0 - 50.0	1,513	813	1,372	1,193	1,402	328	207	58	70	128	118	76
OU2MW-30S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-30I	25.0 - 30.0	0	0	0	0	6	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
OU2MW-30I3	45.0 - 50.0	5	4	0	0	3	0	0	0	0	0	0	0
OU2MW-30D	50.0 - 55.0	2	0	3	2	5	0	0	0	0	0	0	0
OU2MW-30D2	60.0 - 65.0	194	0	0	0	2	0	0	0	4	10	0	0
OU2MW-31I	18.0 - 23.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-31I2	30.0 - 35.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-32S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-32I	20.0 - 25.0	27	21	22	16	12	--	--	0	--	--	--	0
OU2MW-32I2	30.0 - 35.0	16	6	26	5	4	128	0	0	0	47	0	0
OU2MW-32D	40.0 - 45.0	2	598	4	55	1,578	225	825	1,451	1,572	752	284	440
OU2MW-33S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-33I	25.0 - 30.0	0	0	0	1	0	--	--	0	--	--	--	0
OU2MW-33I2	35.0 - 40.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-33D	50.0 - 55.0	0	0	0	0	0	--	--	16	--	15	--	2
OU2MW-34S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-34I	25.0 - 30.0	230	2	0	0	4	0	0	10	0	0	0	0
OU2MW-34I2	45.0 - 50.0	0	17	14	2	16	16	0	21	24	121	14	0
OU2MW-35S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-35I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-35I2	45.0 - 50.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-35D	57.0 - 62.0	0	0	4	3	0	0	0	0	16	--	--	0
OU2MW-36S	5.0 - 15.0	0	0	0	2	0	--	--	0	--	--	--	0
OU2MW-36I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-36I2	45.0 - 50.0	0	0	0	1	0	--	--	0	--	--	--	0
OU2MW-36D	61.0 - 66.0	0	0	0	0	0	--	--	0	0	--	--	0
OU2MW-37S	5.0 - 15.0	0	0	0	4	0	--	--	0	--	--	--	0
OU2MW-37I	25.0 - 30.0	0	0	0	4	0	--	--	0	--	--	--	0
OU2MW-37I2	45.0 - 50.0	0	0	0	4	0	--	--	0	--	--	--	0
OU2MW-37D	67.0 - 72.0	0	0	0	0	0	--	--	0	0	--	--	0
OU2MW-38S	5.0 - 15.0	0	0	0	2	0	--	--	0	--	--	--	0

Table 4-7. Summary of Historical Total PAH Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)											
		Sampling Date											
		2011		2012				2013				2014	
		Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun
OU2MW-38I	25.0 - 30.0	0	0	0	2	0	--	--	0	--	--	--	0
OU2MW-38I2	46.0 - 51.0	164	0	439	1,312	35	2	0	0	0	0	--	0
OU2MW-38D	56.0 - 61.0	0	0	0	3	0	9	0	0	0	--	--	0
OU2MW-39S	5.0 - 15.0	0	4	0	4	0	0	12	0	1	0	0	0
OU2MW-39I	25.0 - 30.0	0	2	1	4	0	0	0	0	1	1	0	0
OU2MW-39I2	45.0 - 50.0	393	1,217	1,051	1,063	1,404	1,825	3,780	853	877	2,004	223	76
OU2MW-39D	70.0 - 75.0	0	0	1	3	0	0	0	0	1	8	0	1
OU2MW-40S	5.0 - 15.0	0	51	0	0	0	0	20	0	1,490	0	33	14
OU2MW-40I	18.0 - 23.0	0	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	0	54	66	0	5	10	32	0	0	102	27	0
OU2MW-42S	5.0 - 15.0	3	0	0	2	0	--	--	1	--	--	--	0
OU2MW-42I	25.0 - 30.0	0	0	0	2	0	--	--	0	--	--	--	0
OU2MW-42I2	45.0 - 50.0	0	0	0	0	44	--	--	128	--	22	33	0
OU2MW-42D	60.0 - 65.0	68	13	41	25	347	917	3,289	2,468	2,901	3,504	3,948	3,444
OU2MW-43S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-43I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-43I2	45.0 - 50.0	38	0	218	97	4	295	291	1,349	602	417	170	5
OU2MW-43D	65.0 - 70.0	320	416	333	313	1,407	1,869	2,458	1,868	4,928	2,286	3,044	2,393
OU2MW-44S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-44I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-44I2	45.0 - 50.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-44D	65.0 - 70.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-45S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-45I	20.0 - 25.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-45I2	40.0 - 45.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-45D	55.0 - 60.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-46S	5.0 - 15.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-46I	20.0 - 25.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-46I2	40.0 - 45.0	0	0	0	0	0	--	--	0	2	--	--	0
OU2MW-47S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-47I	20.0 - 25.0	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
OU2MW-47D	60.0 - 65.0	10	0	0	0	0	0	0	0	0	0	0	0
OU2MW-55S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-55I	30.0 - 35.0	0	111	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
OU2MW-55D	65.0 - 70.0	2	0	0	0	0	0	1	0	0	0	0	0
OU2MW-56S	5.0 - 15.0	0	0	0	0	0	--	--	2	--	--	--	0
OU2MW-56I	25.0 - 30.0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-56I2	45.0 - 50.0	0	8	0	0	0	--	--	0	--	--	--	0
OU2MW-56D	65.0 - 70.0	0	0	0	0	0	--	--	0	--	--	--	0

Table 4-7. Summary of Historical Total PAH Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
BBMW-02S	5.0 - 15.0	0	2	0	0	2
BBMW-02I	30.0 - 40.0	0	0	0	0	0
BBMW-02D	73.0 - 83.0	0	2	0	0	2
BBMW-15S	5.0 - 15.0	0	2	0	0	2
BBMW-15I	23.0 - 28.0	0	48	3	0	48
BBMW-15I2	35.0 - 45.0	0	77	3	0	77
BBMW-15D	70.0 - 80.0	0	2	0	0	2
BBMW-16S	5.0 - 15.0	0	2	0	0	2
BBMW-16I	35.0 - 45.0	0	2	0	0	2
BBMW-16D	68.0 - 78.0	0	23	1	0	23
BBMW-24S	4.0 - 14.0	0	908	29	0	908
BBMW-24I	32.0 - 42.0	0	11,246	2,334	0	11,246
BBMW-24D	59.5 - 69.5	0	8,110	1,467	0	8,110
GM-03S	6.78 - 21.78	0	510	101	0	510
GM-03I	30.03 - 45.03	0	1,330	229	0	1,330
GM-03D	53.18 - 68.18	0	1,238	117	0	1,238
MW-16AS	3.0 - 13.0	0	0	0	0	0
OU2MW-08WT	3.0 - 8.0	0	62	4	0	62
OU2MW-08S	20.0 - 25.0	0	13,563	3,904	0	13,563
OU2MW-08I	35.0 - 40.0	0	12,258	2,000	0	12,258
OU2MW-08I2	50.0 - 55.0	0	3,501	1,354	0	3,501
OU2MW-08D	65.0 - 70.0	0	3,892	139	0	3,892
OU2MW-19I	13.0 - 23.0	0	1,459	141	0	1,459
OU2MW-19I2	35.0 - 45.0	0	7,648	1,838	0	7,648
OU2MW-19D	65.0 - 70.0	0	3,718	928	0	3,718
OU2MW-20S	4.0 - 9.0	0	2	0	0	2
OU2MW-20I	13.0 - 23.0	0	101	13	0	101
OU2MW-20I2	35.0 - 45.0	0	5	0	0	5
OU2MW-20D	65.0 - 70.0	0	2	0	0	2
OU2MW-21S	5.0 - 15.0	0	424	47	0	424
OU2MW-21I	13.0 - 23.0	0	5,417	631	0	5,417
OU2MW-21I2	35.0 - 45.0	0	3,985	859	0	3,985
OU2MW-22S	5.0 - 15.0	0	3	0	0	3
OU2MW-22I	25.0 - 30.0	0	181	17	0	181
OU2MW-22I2	46.0 - 51.0	0	0	0	0	0
OU2MW-22D	67.0 - 72.0	0	0	0	0	0
OU2MW-23S	5.0 - 15.0	0	0	0	0	0
OU2MW-23I	25.0 - 30.0	0	1,009	136	0	1,009
OU2MW-23I2	45.0 - 50.0	0	434	48	0	434
OU2MW-23D	65.0 - 70.0	0	4	0	0	4
OU2MW-24S	5.0 - 15.0	0	258	15	0	258
OU2MW-24I	25.0 - 30.0	0	6,015	792	0	6,015
OU2MW-24I2	45.0 - 50.0	0	3,130	414	0	3,130
OU2MW-24D	62.0 - 67.0	0	20	1	0	20
OU2MW-25S	5.0 - 15.0	0	0	0	0	0
OU2MW-25I	25.0 - 30.0	0	149	34	0	149
OU2MW-25I2	45.0 - 50.0	0	0	0	0	0

Table 4-7. Summary of Historical Total PAH Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
OU2MW-25D	70.0 - 75.0	0	2	0	0	2
OU2MW-26S	6.0 - 11.0	0	5	0	0	5
OU2MW-26I	13.0 - 23.0	0	277	40	0	277
OU2MW-26I2	35.0 - 45.0	0	3,990	403	0	3,990
OU2MW-26D	60.0 - 70.0	0	5,814	1,306	0	5,814
OU2MW-27S	5.0 - 15.0	0	0	0	0	0
OU2MW-27I	25.0 - 30.0	0	10	1	0	10
OU2MW-27I2	45.0 - 50.0	0	18	2	0	18
OU2MW-27D	65.0 - 70.0	0	1,150	96	0	1,150
OU2MW-28S	5.0 - 15.0	0	4	0	0	4
OU2MW-28I	28.0 - 33.0	0	283	32	0	283
OU2MW-28I2	40.0 - 45.0	0	4,443	501	0	4,443
OU2MW-29I	18.0 - 23.0	0	1,083	148	0	1,083
OU2MW-29I2	30.0 - 35.0	0	6,159	897	0	6,159
OU2MW-29D	45.0 - 50.0	58	2,937	1,252	58	2,937
OU2MW-30S	5.0 - 15.0	0	1,990	87	0	1,990
OU2MW-30I	25.0 - 30.0	0	7,304	882	0	7,304
OU2MW-30I2	30.0 - 35.0	0	6,605	1,013	0	6,605
OU2MW-30I3	45.0 - 50.0	0	5,586	722	0	5,586
OU2MW-30D	50.0 - 55.0	0	5,989	614	0	5,989
OU2MW-30D2	60.0 - 65.0	0	4,735	976	0	4,735
OU2MW-31I	18.0 - 23.0	0	488	51	0	488
OU2MW-31I2	30.0 - 35.0	0	841	49	0	841
OU2MW-32S	5.0 - 15.0	0	63	4	0	63
OU2MW-32I	20.0 - 25.0	0	7,796	1,593	0	7,796
OU2MW-32I2	30.0 - 35.0	0	5,230	518	0	5,230
OU2MW-32D	40.0 - 45.0	0	1,578	389	0	1,578
OU2MW-33S	5.0 - 15.0	0	0	0	0	0
OU2MW-33I	25.0 - 30.0	0	565	58	0	565
OU2MW-33I2	35.0 - 40.0	0	679	51	0	679
OU2MW-33D	50.0 - 55.0	0	16	2	0	16
OU2MW-34S	5.0 - 15.0	0	0	0	0	0
OU2MW-34I	25.0 - 30.0	0	333	89	0	333
OU2MW-34I2	45.0 - 50.0	0	121	12	0	121
OU2MW-35S	5.0 - 15.0	0	3	0	0	3
OU2MW-35I	25.0 - 30.0	0	2,270	149	0	2,270
OU2MW-35I2	45.0 - 50.0	0	0	0	0	0
OU2MW-35D	57.0 - 62.0	0	16	2	0	16
OU2MW-36S	5.0 - 15.0	0	2	0	0	2
OU2MW-36I	25.0 - 30.0	0	1,302	129	0	1,302
OU2MW-36I2	45.0 - 50.0	0	1	0	0	1
OU2MW-36D	61.0 - 66.0	0	1	0	0	1
OU2MW-37S	5.0 - 15.0	0	4	0	0	4
OU2MW-37I	25.0 - 30.0	0	216	24	0	216
OU2MW-37I2	45.0 - 50.0	0	4	0	0	4
OU2MW-37D	67.0 - 72.0	0	0	0	0	0
OU2MW-38S	5.0 - 15.0	0	2	0	0	2

Table 4-7. Summary of Historical Total PAH Groundwater Analytical Results Mid-Plume Treatment Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
OU2MW-38I	25.0 - 30.0	0	2,992	322	0	2,992
OU2MW-38I2	46.0 - 51.0	0	1,312	100	0	1,312
OU2MW-38D	56.0 - 61.0	0	60	4	0	60
OU2MW-39S	5.0 - 15.0	0	12	1	0	12
OU2MW-39I	25.0 - 30.0	0	32	2	0	32
OU2MW-39I2	45.0 - 50.0	0	3,780	721	0	3,780
OU2MW-39D	70.0 - 75.0	0	8	1	0	8
OU2MW-40S	5.0 - 15.0	0	1,490	69	0	1,490
OU2MW-40I	18.0 - 23.0	0	167	33	0	167
OU2MW-41S	5.0 - 15.0	0	143	9	0	143
OU2MW-41I	18.0 - 23.0	0	4,276	606	0	4,276
OU2MW-42S	5.0 - 15.0	0	107	8	0	107
OU2MW-42I	25.0 - 30.0	0	106	9	0	106
OU2MW-42I2	45.0 - 50.0	0	128	13	0	128
OU2MW-42D	60.0 - 65.0	4	3,948	934	4	3,948
OU2MW-43S	5.0 - 15.0	0	219	19	0	219
OU2MW-43I	25.0 - 30.0	0	197	17	0	197
OU2MW-43I2	45.0 - 50.0	0	5,130	571	0	5,130
OU2MW-43D	65.0 - 70.0	0	4,928	1,084	0	4,928
OU2MW-44S	5.0 - 15.0	0	0	0	0	0
OU2MW-44I	25.0 - 30.0	0	1	0	0	1
OU2MW-44I2	45.0 - 50.0	0	0	0	0	0
OU2MW-44D	65.0 - 70.0	0	0	0	0	0
OU2MW-45S	5.0 - 15.0	0	45	3	0	45
OU2MW-45I	20.0 - 25.0	0	200	16	0	200
OU2MW-45I2	40.0 - 45.0	0	39	3	0	39
OU2MW-45D	55.0 - 60.0	0	13	1	0	13
OU2MW-46S	5.0 - 15.0	0	31	2	0	31
OU2MW-46I	20.0 - 25.0	0	2,503	276	0	2,503
OU2MW-46I2	40.0 - 45.0	0	56	3	0	56
OU2MW-47S	5.0 - 15.0	0	56	3	0	56
OU2MW-47I	20.0 - 25.0	0	1,043	83	0	1,043
OU2MW-47I2	40.0 - 45.0	0	6,146	447	0	6,146
OU2MW-47D	60.0 - 65.0	0	7,437	1,215	0	7,437
OU2MW-55S	5.0 - 15.0	0	0	0	0	0
OU2MW-55I	30.0 - 35.0	0	111	7	0	111
OU2MW-55I2	50.0 - 55.0	0	336	22	0	336
OU2MW-55D	65.0 - 70.0	0	252	31	0	252
OU2MW-56S	5.0 - 15.0	0	2	0	0	2
OU2MW-56I	25.0 - 30.0	0	6	1	0	6
OU2MW-56I2	45.0 - 50.0	0	8	1	0	8
OU2MW-56D	65.0 - 70.0	0	0	0	0	0

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

Table 4-8. Summary of Historical BTEX Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1999		2000	2002			2003			2004		
		Sep	Sep	Oct/Nov	Nov/Dec	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
BBMW-03S	3.0 - 13.0	--	--	0	--	2	0	--	--	--	--	--	--	0
BBMW-03I	30.0 - 40.0	--	--	2	--	1	0	--	--	--	--	--	--	0
BBMW-03D	52.0 - 62.0	--	--	3	--	3	0	--	--	--	--	--	--	--
BBMW-07S	5.0 - 15.0	--	--	2	--	--	5	0	0	116	241	160	11	39
BBMW-07I	30.0 - 40.0	--	--	0	--	--	0	0	--	--	--	--	--	--
BBMW-07D	55.0 - 65.0	--	--	0	--	--	0	--	--	--	--	--	--	--
BBMW-25S	4.0 - 14.0	--	--	--	--	--	58	0	0	0	0	0	--	0
BBMW-25I	25.0 - 35.0	--	--	--	--	--	1,034	533	1,330	980	1,707	1,304	936	865
BBMW-25D	62.0 - 72.0	--	--	--	--	--	45	--	59	75	44	29	20	0
GM-05S	5.1 - 20.1	0	422	283	124	27	106	307	87	367	0	0	0	157
GM-05I	35.05 - 48.05	0	0	2	0	0	0	0	0	--	0	--	--	0
GM-05D	60.95 - 75.95	0	0	0	0	0	0	--	--	--	--	--	--	0
GM-08S	6.35-21.35	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08I	29.95-44.95	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08D	48.25-63.25	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25.0 - 30.0	--	--	--	1,090	1,056	433	348	250	824	454	692	455	587
GMP-02	18.0 - 23.0	--	--	--	1,387	321	197	2,268	710	2,275	1,194	1,735	913	660
GMP-04	15.5 - 20.5	--	--	--	60	67	44	82	0	11	12	331	385	345
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-8. Summary of Historical BTEX Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1999		2000	2002			2003			2004		
		Sep	Sep	Oct/Nov	Nov/Dec	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
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. Summary of Historical BTEX Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2004	2005				2006				2007			
		Nov/Dec	Feb/Mar	June	August	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec
BBMW-03S	3.0 - 13.0	0	--	--	0	--	0	0	0	0	393	0	0	0
BBMW-03I	30.0 - 40.0	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
BBMW-07S	5.0 - 15.0	20	0	--	--	0	0	0	37	0	0	0	0	0
BBMW-07I	30.0 - 40.0	0	--	--	--	--	--	--	--	--	--	0	--	0
BBMW-07D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	25	0	--	0
BBMW-25S	4.0 - 14.0	0	0	--	0	0	0	0	0	0	0	0	0	0
BBMW-25I	25.0 - 35.0	1,007	1,995	--	1,082	1,360	264	0	79	344	0	150	252	41
BBMW-25D	62.0 - 72.0	110	78	--	47	--	11	21	78	76	0	0	16	6
GM-05S	5.1 - 20.1	0	134	0	40	57	140	21	0	12	0	2	0	14
GM-05I	35.05 - 48.05	0	--	--	--	--	0	--	--	--	0	0	13	0
GM-05D	60.95 - 75.95	--	--	--	--	--	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	200	2,130	3,200	1,280	250	562	577	1,156	4,726	185	169	49	135
GMP-02	18.0 - 23.0	24	1,318	1,090	550	311	151	11	12	0	0	0	0	0
GMP-04	15.5 - 20.5	1,483	263	214	366	1,132	242	83	242	280	652	36	295	264
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0	0
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-01S	20.0 - 25.0	--	--	--	1,243	--	348	176	988	288	876	46	182	102
OU2MW-01I	35.0 - 40.0	--	--	--	77	--	767	170	170	424	885	443	408	85
OU2MW-01I2	50.0 - 55.0	--	--	--	25	--	195	126	52	51	51	31	0	0
OU2MW-01D	65.0 - 70.0	--	--	--	0	--	0	0	0	0	0	0	0	0
OU2MW-02S	20.0 - 25.0	--	--	--	100	--	181	111	282	573	27	270	137	1
OU2MW-02I	35.0 - 40.0	--	--	--	477	--	370	415	493	459	645	260	410	229
OU2MW-02I2	50.0 - 55.0	--	--	--	10	--	0	0	0	0	0	0	0	1
OU2MW-02D	65.0 - 70.0	--	--	--	0	--	0	0	0	0	0	0	0	0
OU2MW-03S	20.0 - 25.0	--	--	--	151	--	530	234	225	206	0	1,108	223	9
OU2MW-03I	35.0 - 40.0	--	--	--	0	--	0	0	0	182	0	0	0	0
OU2MW-03I2	50.0 - 55.0	--	--	--	0	--	0	0	0	0	11	29	0	0
OU2MW-03D	65.0 - 70.0	--	--	--	0	--	0	0	0	0	0	0	0	0
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-04S	20.0 - 25.0	--	--	--	3,130	--	844	740	1,176	386	421	873	253	600
OU2MW-04I	35.0 - 40.0	--	--	--	267	--	885	296	23	0	134	244	252	158
OU2MW-04I2	50.0 - 55.0	--	--	--	41	--	32	0	0	0	0	5	0	0
OU2MW-04D	65.0 - 70.0	--	--	--	0	--	0	0	0	0	0	0	0	3
OU2MW-05	25.0 - 35.0	--	--	--	1,120	--	224	254	1,039	3,159	280	188	110	202
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-06	15.0 - 25.0	--	--	--	1,085	--	11	0	0	0	53	0	0	0
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-07	15.0 - 25.0	--	--	--	35	--	59	39	0	35	0	3	0	1
OU2MW-09	30.0 - 40.0	--	--	--	0	--	0	0	0	0	0	0	0	0
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	3	0	278
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0

Table 4-8. Summary of Historical BTEX Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2004	2005				2006				2007			
		Nov/Dec	Feb/Mar	June	August	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	168	13	356
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	293	329	43
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	3	0	0
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	466	143	70
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	30	2	7
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	23	13	21
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	29	9	0
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	4	27	5
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	795	32	1
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	0	599	367
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	79	1	11
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	0	9	53
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	0	0	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. Summary of Historical BTEX Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2008				2009				2010				2011
		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
BBMW-03S	3.0 - 13.0	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
BBMW-03D	52.0 - 62.0	0	0	0	0	0	0	0	0	0	1	1	0	0
BBMW-07S	5.0 - 15.0	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
BBMW-07D	55.0 - 65.0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-25S	4.0 - 14.0	2	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-25I	25.0 - 35.0	158	169	101	523	469	301	46	18	6	0	0	0	0
BBMW-25D	62.0 - 72.0	2	6	8	8	35	32	2	4	15	9	0	0	0
GM-05S	5.1 - 20.1	185	55	16	113	8	36	11	6	8	7	13	2	0
GM-05I	35.05 - 48.05	0	0	0	0	0	0	0	0	0	0	0	0	0
GM-05D	60.95 - 75.95	4	0	0	0	2	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	182	94	170	655	762	869	432	372	535	247	93	37	68
GMP-02	18.0 - 23.0	3	4	0	0	0	0	0	0	0	0	3	0	0
GMP-04	15.5 - 20.5	15	0	0	0	0	0	0	0	0	0	0	3	0
OU2IW-01S	3.0 - 8.0	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
OU2MW-01S	20.0 - 25.0	42	6	15	82	69	334	107	2	0	4	0	0	0
OU2MW-01I	35.0 - 40.0	8	1	13	10	2	195	186	4	2	0	0	0	0
OU2MW-01I2	50.0 - 55.0	0	0	0	0	0	0	3	1	0	47	14	10	0
OU2MW-01D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	72	0	0
OU2MW-02S	20.0 - 25.0	29	52	20	6	5	184	46	0	0	0	0	0	0
OU2MW-02I	35.0 - 40.0	377	412	281	359	370	335	350	154	378	118	136	179	137
OU2MW-02I2	50.0 - 55.0	11	0	2	1	3	2	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
OU2MW-03S	20.0 - 25.0	45	94	42	53	30	99	48	90	13	0	7	0	0
OU2MW-03I	35.0 - 40.0	0	0	85	1,262	366	15	0	14	158	219	0	0	0
OU2MW-03I2	50.0 - 55.0	0	0	0	0	5	38	10	8	2	0	0	0	0
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-04WT	3.0 - 8.0	0	0	0	10	0	0	0	0	0	0	0	0	0
OU2MW-04S	20.0 - 25.0	791	200	200	730	841	891	654	818	345	70	89	51	0
OU2MW-04I	35.0 - 40.0	174	25	67	120	97	198	28	22	68	68	17	34	123
OU2MW-04I2	50.0 - 55.0	0	0	0	0	0	189	1	0	63	36	7	0	0
OU2MW-04D	65.0 - 70.0	2	1	0	1	2	0	0	0	0	0	0	0	0
OU2MW-05	25.0 - 35.0	221	158	181	514	466	290	369	242	94	137	139	51	30
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	11	3	0	2	0	0	0	0	0	3	0	0	0
OU2MW-07S	3.0 - 8.0	1	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-07	15.0 - 25.0	15	3	3	0	0	2	0	0	4	53	0	0	0
OU2MW-09	30.0 - 40.0	0	0	0	0	0	0	0	0	0	1	0	0	0
OU2MW-10S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-10I	20.0 - 25.0	906	14	10	143	76	33	32	36	0	41	529	326	140
OU2MW-10D	35.0 - 40.0	0	198	39	351	78	0	28	43	0	2	65	120	4
OU2MW-11S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0	--

Table 4-8. Summary of Historical BTEX Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2008				2009				2010				2011
		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
OU2MW-11I	20.0 - 25.0	245	263	249	227	170	132	69	153	48	187	55	73	91
OU2MW-11I2	30.0 - 35.0	67	33	41	81	98	25	1	66	10	0	0	24	9
OU2MW-11D	40.0 - 45.0	0	0	0	0	8	5	20	18	26	56	39	1	14
OU2MW-12S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12I	20.0 - 25.0	70	81	78	62	107	48	139	96	77	13	35	121	60
OU2MW-12I2	30.0 - 35.0	23	2	0	0	53	19	7	58	0	2	37	3	26
OU2MW-12D	40.0 - 45.0	17	11	0	0	0	0	0	0	0	80	73	49	0
OU2MW-13S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-13I	20.0 - 25.0	7	4	1	7	13	3	22	0	19	8	3	0	2
OU2MW-13D	35.0 - 40.0	0	10	10	0	34	13	29	23	9	10	8	24	10
OU2MW-14S	3.0 - 8.0	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
OU2MW-14I2	45.0 - 50.0	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
OU2MW-15I	20.0 - 25.0	40	8	6	14	0	63	175	3	0	0	73	6	12
OU2MW-15I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	184	0
OU2MW-15D	40.0 - 45.0	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
OU2MW-16I	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-16I2	25.0 - 30.0	6	2	0	0	0	0	84	0	0	0	22	0	5
OU2MW-16D	35.0 - 40.0	149	0	0	1	0	2	0	0	0	0	0	0	0
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	128	0	0	0	0	0	0	0
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	0	0	0	2	0	0	0	0

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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2011			2012				2013				2014	
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
BBMW-03S	3.0 - 13.0	0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-03I	30.0 - 40.0	0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-03D	52.0 - 62.0	0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-07S	5.0 - 15.0	0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-07I	30.0 - 40.0	0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-07D	55.0 - 65.0	0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-25S	4.0 - 14.0	0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-25I	25.0 - 35.0	0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-25D	62.0 - 72.0	0	23	7	1	1	0	0	0	0	0	0	0	0
GM-05S	5.1 - 20.1	0	1	0	0	0	0	--	--	0	--	--	--	0
GM-05I	35.05 - 48.05	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	--	--	--	--	--	--	--	--	--	--	--	--	0
GM-08I	29.95-44.95	--	--	--	--	--	--	--	--	--	--	--	--	0
GM-08D	48.25-63.25	--	--	--	--	--	--	--	--	--	--	--	--	0
GMP-01	25.0 - 30.0	7	12	2	0	0	0	0	0	0	0	0	--	0
GMP-02	18.0 - 23.0	0	0	0	0	0	0	--	--	0	--	--	--	0
GMP-04	15.5 - 20.5	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2IW-01S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-01WT	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-01S	20.0 - 25.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-01I	35.0 - 40.0	0	0	0	3	1	0	--	--	0	--	--	--	0
OU2MW-01I2	50.0 - 55.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-01D	65.0 - 70.0	0	0	0	1	0	0	--	--	0	--	--	--	0
OU2MW-02S	20.0 - 25.0	0	0	0	0	0	1	0	0	0	0	0	0	0
OU2MW-02I	35.0 - 40.0	130	97	107	61	50	56	46	32	11	0	0	0	0
OU2MW-02I2	50.0 - 55.0	0	0	0	0	2	0	0	0	0	3	6	8	1
OU2MW-02D	65.0 - 70.0	0	4	0	0	0	0	0	0	0	0	0	0	0
OU2MW-03S	20.0 - 25.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-03I	35.0 - 40.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-03I2	50.0 - 55.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-04WT	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-04S	20.0 - 25.0	0	0	0	0	0	0	0	0	0	0	--	--	0
OU2MW-04I	35.0 - 40.0	121	115	136	118	70	35	32	22	20	5	17	14	6
OU2MW-04I2	50.0 - 55.0	0	0	8	0	0	0	0	0	0	2	--	--	3
OU2MW-04D	65.0 - 70.0	0	0	0	0	0	0	--	--	0	0	--	--	0
OU2MW-05	25.0 - 35.0	8	18	11	2	6	0	0	0	0	0	--	--	0
OU2MW-06S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-06	15.0 - 25.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-07S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-07	15.0 - 25.0	0	0	0	9	1	0	0	0	0	--	--	--	0
OU2MW-09	30.0 - 40.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-10S	3.0 - 7.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-10I	20.0 - 25.0	192	13	2	0	0	0	3	2	0	0	0	0	0
OU2MW-10D	35.0 - 40.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-11S	3.0 - 8.0	0	0	0	2	3	0	--	--	0	--	--	--	0

Table 4-8. Summary of Historical BTEX Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2011			2012				2013				2014	
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
OU2MW-11I	20.0 - 25.0	27	2	0	0	3	1	0	--	0	--	--	--	0
OU2MW-11I2	30.0 - 35.0	4	8	18	18	3	14	0	0	0	0	12	--	0
OU2MW-11D	40.0 - 45.0	19	92	1	5	87	50	10	5	15	0	0	0	0
OU2MW-12S	3.0 - 7.0	0	0	0	2	0	0	0	0	0	0	0	0	0
OU2MW-12I	20.0 - 25.0	5	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12I2	30.0 - 35.0	5	0	3	0	0	5	0	0	0	0	0	0	0
OU2MW-12D	40.0 - 45.0	15	16	4	2	0	0	5	3	3	0	0	13	2
OU2MW-13S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-13I	20.0 - 25.0	1	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-13D	35.0 - 40.0	2	1	0	8	0	3	3	2	0	0	0	--	0
OU2MW-14S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-14I	20.0 - 25.0	0	0	0	0	0	261	--	194	13	0	31	27	90
OU2MW-14I2	45.0 - 50.0	0	0	0	0	0	1	--	--	0	--	--	--	0
OU2MW-15S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-15I	20.0 - 25.0	83	0	0	0	9	279	18	4	0	0	0	0	0
OU2MW-15I2	30.0 - 35.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-15D	40.0 - 45.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-16S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-16I	15.0 - 20.0	0	26	0	0	0	0	0	--	0	--	--	--	0
OU2MW-16I2	25.0 - 30.0	0	0	4	0	0	0	0	1	0	--	--	--	0
OU2MW-16D	35.0 - 40.0	0	0	20	0	0	0	0	0	0	--	--	--	0
OU2MW-52S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-52I	20.0 - 25.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-52D	35.0 - 40.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-53S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-53I	20.0 - 25.0	0	0	0	0	0	0	--	0	--	--	--	--	0
OU2MW-53D	35.0 - 40.0	0	0	3	0	0	0	0	0	0	--	--	--	0

Table 4-8. Summary of Historical BTEX Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
BBMW-03S	3.0 - 13.0	0	393	12	0	393
BBMW-03I	30.0 - 40.0	0	2	0	0	2
BBMW-03D	52.0 - 62.0	0	3	0	0	3
BBMW-07S	5.0 - 15.0	0	241	16	0	241
BBMW-07I	30.0 - 40.0	0	0	0	0	0
BBMW-07D	55.0 - 65.0	0	25	1	0	25
BBMW-25S	4.0 - 14.0	0	58	2	0	58
BBMW-25I	25.0 - 35.0	0	1,995	426	0	1,995
BBMW-25D	62.0 - 72.0	0	110	20	0	110
GM-05S	5.1 - 20.1	0	422	60	0	422
GM-05I	35.05 - 48.05	0	13	0	0	13
GM-05D	60.95 - 75.95	0	4	0	0	4
GM-08S	6.35-21.35	0	0	#DIV/0!	0	0
GM-08I	29.95-44.95	0	0	#DIV/0!	0	0
GM-08D	48.25-63.25	0	0	#DIV/0!	0	0
GMP-01	25.0 - 30.0	0	4,726	539	0	4,726
GMP-02	18.0 - 23.0	0	2,275	352	0	2,275
GMP-04	15.5 - 20.5	0	1,483	161	0	1,483
OU2IW-01S	3.0 - 8.0	0	0	0	0	0
OU2MW-01WT	3.0 - 8.0	0	0	0	0	0
OU2MW-01S	20.0 - 25.0	0	1,243	169	0	1,243
OU2MW-01I	35.0 - 40.0	0	885	133	0	885
OU2MW-01I2	50.0 - 55.0	0	195	21	0	195
OU2MW-01D	65.0 - 70.0	0	72	3	0	72
OU2MW-02S	20.0 - 25.0	0	573	60	0	573
OU2MW-02I	35.0 - 40.0	0	645	233	0	645
OU2MW-02I2	50.0 - 55.0	0	11	1	0	11
OU2MW-02D	65.0 - 70.0	0	4	0	0	4
OU2MW-03S	20.0 - 25.0	0	1,108	111	0	1,108
OU2MW-03I	35.0 - 40.0	0	1,262	79	0	1,262
OU2MW-03I2	50.0 - 55.0	0	38	4	0	38
OU2MW-03D	65.0 - 70.0	0	0	0	0	0
OU2MW-04WT	3.0 - 8.0	0	10	0	0	10
OU2MW-04S	20.0 - 25.0	0	3,130	441	0	3,130
OU2MW-04I	35.0 - 40.0	0	885	118	0	885
OU2MW-04I2	50.0 - 55.0	0	189	12	0	189
OU2MW-04D	65.0 - 70.0	0	3	0	0	3
OU2MW-05	25.0 - 35.0	0	3,159	297	0	3,159
OU2MW-06S	3.0 - 8.0	0	0	0	0	0
OU2MW-06	15.0 - 25.0	0	1,085	40	0	1,085
OU2MW-07S	3.0 - 8.0	0	1	0	0	1
OU2MW-07	15.0 - 25.0	0	59	8	0	59
OU2MW-09	30.0 - 40.0	0	1	0	0	1
OU2MW-10S	3.0 - 7.0	0	0	0	0	0
OU2MW-10I	20.0 - 25.0	0	906	99	0	906
OU2MW-10D	35.0 - 40.0	0	351	40	0	351
OU2MW-11S	3.0 - 8.0	0	3	0	0	3

Table 4-8. Summary of Historical BTEX Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
OU2MW-11I	20.0 - 25.0	0	356	106	0	356
OU2MW-11I2	30.0 - 35.0	0	329	44	0	329
OU2MW-11D	40.0 - 45.0	0	92	17	0	92
OU2MW-12S	3.0 - 7.0	0	2	0	0	2
OU2MW-12I	20.0 - 25.0	0	466	60	0	466
OU2MW-12I2	30.0 - 35.0	0	58	10	0	58
OU2MW-12D	40.0 - 45.0	0	80	12	0	80
OU2MW-13S	3.0 - 8.0	0	0	0	0	0
OU2MW-13I	20.0 - 25.0	0	29	6	0	29
OU2MW-13D	35.0 - 40.0	0	34	9	0	34
OU2MW-14S	3.0 - 8.0	0	0	0	0	0
OU2MW-14I	20.0 - 25.0	0	261	22	0	261
OU2MW-14I2	45.0 - 50.0	0	1	0	0	1
OU2MW-15S	3.0 - 8.0	0	0	0	0	0
OU2MW-15I	20.0 - 25.0	0	795	58	0	795
OU2MW-15I2	30.0 - 35.0	0	599	50	0	599
OU2MW-15D	40.0 - 45.0	0	0	0	0	0
OU2MW-16S	3.0 - 8.0	0	0	0	0	0
OU2MW-16I	15.0 - 20.0	0	79	5	0	79
OU2MW-16I2	25.0 - 30.0	0	84	7	0	84
OU2MW-16D	35.0 - 40.0	0	149	7	0	149
OU2MW-52S	3.0 - 8.0	0	0	0	0	0
OU2MW-52I	20.0 - 25.0	0	128	9	0	128
OU2MW-52D	35.0 - 40.0	0	0	0	0	0
OU2MW-53S	3.0 - 8.0	0	0	0	0	0
OU2MW-53I	20.0 - 25.0	0	0	0	0	0
OU2MW-53D	35.0 - 40.0	0	3	0	0	3

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

Table 4-9. Summary of Historical Total PAH Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1999		2000	2002			2003			2004		
		Sep	Sep	Oct/Nov	Nov/Dec	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
BBMW-03S	3.0 - 13.0	--	--	0	--	0	0	--	--	--	--	--	--	0
BBMW-03I	30.0 - 40.0	--	--	0	--	2	0	--	--	--	--	--	--	0
BBMW-03D	52.0 - 62.0	--	--	0	--	0	0	--	--	--	--	--	--	--
BBMW-07S	5.0 - 15.0	--	--	2	--	--	6	0	710	170	62	24	0	0
BBMW-07I	30.0 - 40.0	--	--	0	--	--	0	0	--	--	--	--	--	--
BBMW-07D	55.0 - 65.0	--	--	0	--	--	0	--	--	--	--	--	--	--
BBMW-25S	4.0 - 14.0	--	--	--	--	--	22	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
BBMW-25D	62.0 - 72.0	--	--	--	--	--	1,553	--	280	1,550	298	135	144	101
GM-05S	5.1 - 20.1	649	2,453	1,181	505	88	1,286	237	858	230	--	0	0	635
GM-05I	35.05 - 48.05	0	4	14	0	0	0	0	0	--	--	--	--	51
GM-05D	60.95 - 75.95	0	0	0	0	0	0	--	--	--	--	--	--	28
GM-08S	6.35-21.35	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08I	29.95-44.95	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08D	48.25-63.25	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25.0 - 30.0	--	--	--	1,590	2,270	1,336	230	880	270	1,001	421	1,281	266
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
GMP-04	15.5 - 20.5	--	--	--	290	1,135	287	113	0	430	44	459	206	235
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-09	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-9. Summary of Historical Total PAH Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1999		2000	2002			2003			2004		
		Sep	Sep	Oct/Nov	Nov/Dec	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-9. Summary of Historical Total PAH Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2004	2005				2006				2007			
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec
BBMW-03S	3.0 - 13.0	0	--	--	0	--	0	0	0	0	283	0	0	0
BBMW-03I	30.0 - 40.0	0	--	--	0	--	0	0	0	0	0	0	0	0
BBMW-03D	52.0 - 62.0	186	--	--	0	--	0	0	0	0	0	0	0	0
BBMW-07S	5.0 - 15.0	0	0	--	--	0	0	0	0	0	0	0	3	0
BBMW-07I	30.0 - 40.0	0	--	--	--	--	--	--	--	--	--	0	--	0
BBMW-07D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	873	0	--	0
BBMW-25S	4.0 - 14.0	14	0	--	0	0	0	0	0	0	0	0	10	0
BBMW-25I	25.0 - 35.0	3,902	4,937	--	3,621	5,472	1,560	0	37	488	11	102	457	2
BBMW-25D	62.0 - 72.0	588	223	--	390	--	308	179	160	384	0	0	3	1
GM-05S	5.1 - 20.1	0	312	0	366	0	34	0	0	0	0	--	0	13
GM-05I	35.05 - 48.05	0	--	--	--	--	0	--	--	--	0	0	7	0
GM-05D	60.95 - 75.95	--	--	--	--	--	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	6,514	2,595	1,241	6,419	10,183	9,385	9,261	5,555	3,936	4,019	--	159	4,428
GMP-02	18.0 - 23.0	5,460	3,008	3,459	8,837	151	0	0	10	11	0	0	0	0
GMP-04	15.5 - 20.5	1,372	601	77	369	1,720	41	22	573	232	1,380	52	1,523	1,467
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	0	0
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	70	0	0
OU2MW-01S	20.0 - 25.0	--	--	--	6,927	--	464	457	1,230	104	321	67	2,023	2,000
OU2MW-01I	35.0 - 40.0	--	--	--	5,507	--	8,222	3,717	879	495	120	442	90	2,222
OU2MW-01I2	50.0 - 55.0	--	--	--	58	--	1,249	0	0	100	0	488	7	4
OU2MW-01D	65.0 - 70.0	--	--	--	0	--	0	0	0	0	0	0	0	0
OU2MW-02S	20.0 - 25.0	--	--	--	162	--	311	209	164	424	0	154	155	27
OU2MW-02I	35.0 - 40.0	--	--	--	2,541	--	3,413	3,609	5,251	3,012	1,943	3,567	1,835	2,947
OU2MW-02I2	50.0 - 55.0	--	--	--	22	--	11	0	0	0	0	16	0	11
OU2MW-02D	65.0 - 70.0	--	--	--	15	--	0	0	0	0	0	0	17	0
OU2MW-03S	20.0 - 25.0	--	--	--	401	--	339	353	181	379	0	317	201	49
OU2MW-03I	35.0 - 40.0	--	--	--	67	--	0	0	0	49	0	0	0	0
OU2MW-03I2	50.0 - 55.0	--	--	--	0	--	36	16	0	0	0	144	4	1
OU2MW-03D	65.0 - 70.0	--	--	--	0	--	0	0	0	0	0	0	0	6
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-04S	20.0 - 25.0	--	--	--	4,034	--	12,611	7,351	10,538	2,774	6,802	8,445	3,794	4,145
OU2MW-04I	35.0 - 40.0	--	--	--	5,444	--	6,438	3,795	1,107	0	0	332	3,260	547
OU2MW-04I2	50.0 - 55.0	--	--	--	375	--	115	101	57	78	0	19	16	2
OU2MW-04D	65.0 - 70.0	--	--	--	0	--	0	0	0	0	0	0	0	0
OU2MW-05	25.0 - 35.0	--	--	--	4,711	--	8,049	5,125	4,314	4,149	1,980	2,164	247	3,412
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	10	0
OU2MW-06	15.0 - 25.0	--	--	--	9,241	--	19	0	0	0	0	0	0	3
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	7
OU2MW-07	15.0 - 25.0	--	--	--	66	--	69	0	0	0	0	0	0	37
OU2MW-09	30.0 - 40.0	--	--	--	0	--	0	0	0	0	0	0	0	0
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	4	0	297
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0

Table 4-9. Summary of Historical Total PAH Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2004	2005				2006				2007			
		Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	1,077	112	3,627
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	426	2,412	52
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	8	7	5
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	1	0	0
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	1,646	888	147
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	224	3	7
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	108	79	39
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	33	12	10
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	13	15	2
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	261	86	8
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	0	320	76
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	22	5	0
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	4	12	16
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-9. Summary of Historical Total PAH Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2008				2009				2010				2011
		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
BBMW-03S	3.0 - 13.0	0	0	1	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
BBMW-03D	52.0 - 62.0	7	0	0	0	0	0	0	0	0	25	2	0	0
BBMW-07S	5.0 - 15.0	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
BBMW-07D	55.0 - 65.0	2	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-25S	4.0 - 14.0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-25I	25.0 - 35.0	181	48	86	478	741	1,219	105	11	3	0	0	0	0
BBMW-25D	62.0 - 72.0	0	0	59	0	0	0	0	0	0	8	0	0	0
GM-05S	5.1 - 20.1	25	30	7	35	5	19	9	19	2	0	25	1	0
GM-05I	35.05 - 48.05	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
GM-08S	6.35-21.35	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08I	29.95-44.95	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-08D	48.25-63.25	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25.0 - 30.0	3,967	2,020	778	275	719	1,049	651	175	1,916	1,228	921	276	720
GMP-02	18.0 - 23.0	0	0	0	0	0	0	0	0	0	0	0	0	0
GMP-04	15.5 - 20.5	1	0	0	0	0	0	0	0	0	0	0	0	0
OU2IW-01S	3.0 - 8.0	48	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
OU2MW-01S	20.0 - 25.0	48	0	0	0	0	1,487	1,953	0	0	0	0	0	0
OU2MW-01I	35.0 - 40.0	15	0	25	4	0	702	109	0	0	0	0	0	0
OU2MW-01I2	50.0 - 55.0	0	0	0	0	0	0	0	0	0	364	0	0	0
OU2MW-01D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	135	0	0
OU2MW-02S	20.0 - 25.0	57	96	46	8	33	146	44	0	0	6	0	0	0
OU2MW-02I	35.0 - 40.0	3,129	43	2,981	151	2,129	1,993	2,385	748	2,515	1,278	1,232	1,329	733
OU2MW-02I2	50.0 - 55.0	30	1	12	0	6	0	0	0	0	0	0	0	0
OU2MW-02D	65.0 - 70.0	0	0	0	0	0	0	4	0	0	0	0	0	0
OU2MW-03S	20.0 - 25.0	87	61	79	85	80	157	118	142	71	20	16	1	3
OU2MW-03I	35.0 - 40.0	0	7	0	95	146	0	0	6	56	61	0	0	0
OU2MW-03I2	50.0 - 55.0	0	0	0	0	0	0	0	1	0	0	0	0	0
OU2MW-03D	65.0 - 70.0	3	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
OU2MW-04S	20.0 - 25.0	2,666	2,936	3,901	334	641	3,565	3,770	3,393	4,529	352	152	170	40
OU2MW-04I	35.0 - 40.0	4,051	0	36	0	98	2	0	10	241	0	0	252	32
OU2MW-04I2	50.0 - 55.0	0	23	0	0	0	1,340	0	4	536	14	0	0	0
OU2MW-04D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-05	25.0 - 35.0	491	516	50	456	353	376	735	19	288	484	335	957	86
OU2MW-06S	3.0 - 8.0	0	0	6	0	0	0	0	0	0	0	0	0	0
OU2MW-06	15.0 - 25.0	6	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-07S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-07	15.0 - 25.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-09	30.0 - 40.0	0	0	0	0	11	0	0	0	0	0	0	0	0
OU2MW-10S	3.0 - 7.0	0	5	0	0	0	0	0	0	0	0	0	0	0
OU2MW-10I	20.0 - 25.0	201	1	0	2	29	22	3	54	12	37	149	597	76
OU2MW-10D	35.0 - 40.0	0	413	32	727	0	1	49	5	0	0	23	22	0
OU2MW-11S	3.0 - 8.0	2	0	0	4	0	0	0	0	0	0	0	0	--

Table 4-9. Summary of Historical Total PAH Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2008				2009				2010				2011
		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
OU2MW-11I	20.0 - 25.0	865	1,977	1,030	663	1,323	428	46	1,141	220	26	125	565	38
OU2MW-11I2	30.0 - 35.0	0	0	275	264	1,011	131	9	193	6	0	1	27	11
OU2MW-11D	40.0 - 45.0	0	0	0	0	9	0	54	69	40	77	63	0	9
OU2MW-12S	3.0 - 7.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12I	20.0 - 25.0	268	137	122	79	513	53	123	7	851	8	11	159	44
OU2MW-12I2	30.0 - 35.0	30	5	0	0	720	39	15	3	2	2	58	9	18
OU2MW-12D	40.0 - 45.0	44	35	0	0	2	0	0	0	0	992	197	141	1
OU2MW-13S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-13I	20.0 - 25.0	1	7	1	15	8	6	7	0	15	36	41	0	7
OU2MW-13D	35.0 - 40.0	1	4	2	0	21	18	31	24	21	15	15	17	14
OU2MW-14S	3.0 - 8.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-14I	20.0 - 25.0	2	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-14I2	45.0 - 50.0	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
OU2MW-15I	20.0 - 25.0	34	0	0	0	0	1	219	24	0	0	33	1	2
OU2MW-15I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	77	0
OU2MW-15D	40.0 - 45.0	0	0	0	2	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
OU2MW-16I	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-16I2	25.0 - 30.0	1	0	0	0	0	0	0	0	0	0	26	0	0
OU2MW-16D	35.0 - 40.0	102	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-52S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-52I	20.0 - 25.0	--	--	--	--	--	101	0	0	25	0	0	0	0
OU2MW-52D	35.0 - 40.0	--	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-53S	3.0 - 8.0	--	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-53I	20.0 - 25.0	--	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-53D	35.0 - 40.0	--	--	--	--	--	0	0	0	0	0	0	0	0

Table 4-9. Summary of Historical Total PAH Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2011			2012				2013				2014	
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
BBMW-03S	3.0 - 13.0	0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-03I	30.0 - 40.0	0	0	2	0	0	0	--	--	0	--	--	--	0
BBMW-03D	52.0 - 62.0	0	0	0	0	0	0	--	--	0	--	--	--	9
BBMW-07S	5.0 - 15.0	0	0	0	0	5	0	--	--	0	--	--	--	0
BBMW-07I	30.0 - 40.0	0	0	0	0	1	0	--	--	0	--	--	--	0
BBMW-07D	55.0 - 65.0	0	0	0	0	2	0	--	--	0	--	--	--	0
BBMW-25S	4.0 - 14.0	0	0	0	0	1	0	--	--	0	--	--	--	0
BBMW-25I	25.0 - 35.0	0	0	0	0	0	0	--	--	0	--	--	--	0
BBMW-25D	62.0 - 72.0	0	7	54	20	31	0	10	19	1	3	0	0	0
GM-05S	5.1 - 20.1	0	0	0	0	0	0	--	--	0	--	--	--	0
GM-05I	35.05 - 48.05	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	--	--	--	--	--	--	--	--	--	--	--	--	0
GM-08I	29.95-44.95	--	--	--	--	--	--	--	--	--	--	--	--	0
GM-08D	48.25-63.25	--	--	--	--	--	--	--	--	--	--	--	--	0
GMP-01	25.0 - 30.0	65	70	15	16	5	12	3	0	2	0	0	--	0
GMP-02	18.0 - 23.0	0	0	0	0	0	0	--	--	0	--	--	--	0
GMP-04	15.5 - 20.5	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2IW-01S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-01WT	3.0 - 8.0	0	2	0	0	0	0	--	--	0	--	--	--	0
OU2MW-01S	20.0 - 25.0	0	0	0	0	3	0	--	--	0	--	--	--	0
OU2MW-01I	35.0 - 40.0	0	0	0	10	0	0	--	--	0	--	--	--	0
OU2MW-01I2	50.0 - 55.0	0	0	0	0	2	2	--	--	11	--	--	--	0
OU2MW-01D	65.0 - 70.0	0	1	0	0	0	0	--	--	0	--	--	--	0
OU2MW-02S	20.0 - 25.0	1	0	0	0	48	57	0	0	0	0	0	0	0
OU2MW-02I	35.0 - 40.0	76	1,764	1,097	1,161	698	926	561	119	38	7	4	0	0
OU2MW-02I2	50.0 - 55.0	0	0	0	0	8	2	3	2	0	23	32	17	8
OU2MW-02D	65.0 - 70.0	0	15	0	0	0	0	0	0	0	0	0	0	0
OU2MW-03S	20.0 - 25.0	5	0	3	0	1	0	--	--	0	--	--	--	0
OU2MW-03I	35.0 - 40.0	0	0	0	0	3	0	--	--	0	--	--	--	0
OU2MW-03I2	50.0 - 55.0	0	0	0	0	1	0	--	--	0	--	--	--	0
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-04WT	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-04S	20.0 - 25.0	51	17	22	34	10	8	2	1	0	0	--	--	0
OU2MW-04I	35.0 - 40.0	1,789	0	2,047	2,666	1,294	506	152	96	102	53	49	13	7
OU2MW-04I2	50.0 - 55.0	0	0	0	6	0	0	0	3	0	3	--	--	2
OU2MW-04D	65.0 - 70.0	0	0	3	0	0	0	--	--	0	0	--	--	0
OU2MW-05	25.0 - 35.0	33	75	92	30	34	7	2	0	0	0	--	--	0
OU2MW-06S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-06	15.0 - 25.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-07S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-07	15.0 - 25.0	0	0	0	68	3	0	0	0	0	--	--	--	0
OU2MW-09	30.0 - 40.0	0	0	0	0	1	0	--	--	0	--	--	--	0
OU2MW-10S	3.0 - 7.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-10I	20.0 - 25.0	167	57	21	0	12	0	0	10	10	2	2	1	0
OU2MW-10D	35.0 - 40.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-11S	3.0 - 8.0	0	0	0	0	1	0	--	--	0	--	--	--	0

Table 4-9. Summary of Historical Total PAH Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2011			2012				2013				2014	
		Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
OU2MW-11I	20.0 - 25.0	16	19	0	0	1	0	0	--	0	--	--	--	0
OU2MW-11I2	30.0 - 35.0	2	55	126	89	18	83	0	0	0	0	49	--	1
OU2MW-11D	40.0 - 45.0	35	842	5	3	1,018	136	45	26	80	3	2	0	0
OU2MW-12S	3.0 - 7.0	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
OU2MW-12I2	30.0 - 35.0	7	0	13	3	10	30	1	7	2	2	0	0	0
OU2MW-12D	40.0 - 45.0	80	112	6	2	0	0	9	6	14	2	0	2	0
OU2MW-13S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-13I	20.0 - 25.0	18	7	0	0	0	0	--	--	0	--	--	--	0
OU2MW-13D	35.0 - 40.0	7	9	0	78	24	73	24	7	0	0	2	--	0
OU2MW-14S	3.0 - 8.0	0	0	0	0	2	0	--	--	0	--	--	--	0
OU2MW-14I	20.0 - 25.0	0	0	0	0	2	14	--	29	16	5	6	6	37
OU2MW-14I2	45.0 - 50.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-15S	3.0 - 8.0	0	0	0	0	1	0	--	--	0	--	--	--	0
OU2MW-15I	20.0 - 25.0	4	0	0	0	0	32	53	21	3	2	0	0	0
OU2MW-15I2	30.0 - 35.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-15D	40.0 - 45.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-16S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-16I	15.0 - 20.0	0	17	0	0	0	0	0	--	0	--	--	--	0
OU2MW-16I2	25.0 - 30.0	0	0	0	0	1	0	0	0	0	--	--	--	0
OU2MW-16D	35.0 - 40.0	0	0	40	0	1	0	0	0	0	--	--	--	0
OU2MW-52S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-52I	20.0 - 25.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-52D	35.0 - 40.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-53S	3.0 - 8.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-53I	20.0 - 25.0	0	0	0	0	0	0	--	--	0	--	--	--	0
OU2MW-53D	35.0 - 40.0	0	0	0	0	0	0	0	0	0	--	--	--	0

Table 4-9. Summary of Historical Total PAH Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
BBMW-03S	3.0 - 13.0	0	283	8	0	283
BBMW-03I	30.0 - 40.0	0	2	0	0	2
BBMW-03D	52.0 - 62.0	0	186	7	0	186
BBMW-07S	5.0 - 15.0	0	710	25	0	710
BBMW-07I	30.0 - 40.0	0	1	0	0	1
BBMW-07D	55.0 - 65.0	0	873	35	0	873
BBMW-25S	4.0 - 14.0	0	22	1	0	22
BBMW-25I	25.0 - 35.0	0	10,185	1,824	0	10,185
BBMW-25D	62.0 - 72.0	0	1,553	151	0	1,553
GM-05S	5.1 - 20.1	0	2,453	205	0	2,453
GM-05I	35.05 - 48.05	0	51	2	0	51
GM-05D	60.95 - 75.95	0	28	1	0	28
GM-08S	6.35-21.35	0	0	#DIV/0!	0	0
GM-08I	29.95-44.95	0	0	#DIV/0!	0	0
GM-08D	48.25-63.25	0	0	#DIV/0!	0	0
GMP-01	25.0 - 30.0	0	10,183	1,916	0	10,183
GMP-02	18.0 - 23.0	0	8,837	1,591	0	8,837
GMP-04	15.5 - 20.5	0	1,720	294	0	1,720
OU2IW-01S	3.0 - 8.0	0	48	2	0	48
OU2MW-01WT	3.0 - 8.0	0	70	3	0	70
OU2MW-01S	20.0 - 25.0	0	6,927	589	0	6,927
OU2MW-01I	35.0 - 40.0	0	8,222	778	0	8,222
OU2MW-01I2	50.0 - 55.0	0	1,249	79	0	1,249
OU2MW-01D	65.0 - 70.0	0	135	5	0	135
OU2MW-02S	20.0 - 25.0	0	424	63	0	424
OU2MW-02I	35.0 - 40.0	0	5,251	1,624	0	5,251
OU2MW-02I2	50.0 - 55.0	0	32	6	0	32
OU2MW-02D	65.0 - 70.0	0	17	2	0	17
OU2MW-03S	20.0 - 25.0	0	401	109	0	401
OU2MW-03I	35.0 - 40.0	0	146	17	0	146
OU2MW-03I2	50.0 - 55.0	0	144	7	0	144
OU2MW-03D	65.0 - 70.0	0	6	0	0	6
OU2MW-04WT	3.0 - 8.0	0	0	0	0	0
OU2MW-04S	20.0 - 25.0	0	12,611	2,722	0	12,611
OU2MW-04I	35.0 - 40.0	0	6,438	1,012	0	6,438
OU2MW-04I2	50.0 - 55.0	0	1,340	84	0	1,340
OU2MW-04D	65.0 - 70.0	0	3	0	0	3
OU2MW-05	25.0 - 35.0	0	8,049	1,237	0	8,049
OU2MW-06S	3.0 - 8.0	0	10	1	0	10
OU2MW-06	15.0 - 25.0	0	9,241	320	0	9,241
OU2MW-07S	3.0 - 8.0	0	7	0	0	7
OU2MW-07	15.0 - 25.0	0	69	8	0	69
OU2MW-09	30.0 - 40.0	0	11	0	0	11
OU2MW-10S	3.0 - 7.0	0	5	0	0	5
OU2MW-10I	20.0 - 25.0	0	597	63	0	597
OU2MW-10D	35.0 - 40.0	0	727	55	0	727
OU2MW-11S	3.0 - 8.0	0	4	0	0	4

Table 4-9. Summary of Historical Total PAH Groundwater Analytical Results Downgradient Area
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit No. 2 (OU-2)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)				
		Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
OU2MW-11I	20.0 - 25.0	0	3,627	554	0	3,627
OU2MW-11I2	30.0 - 35.0	0	2,412	194	0	2,412
OU2MW-11D	40.0 - 45.0	0	1,018	91	0	1,018
OU2MW-12S	3.0 - 7.0	0	1	0	0	1
OU2MW-12I	20.0 - 25.0	0	1,646	181	0	1,646
OU2MW-12I2	30.0 - 35.0	0	720	43	0	720
OU2MW-12D	40.0 - 45.0	0	992	67	0	992
OU2MW-13S	3.0 - 8.0	0	0	0	0	0
OU2MW-13I	20.0 - 25.0	0	41	10	0	41
OU2MW-13D	35.0 - 40.0	0	78	16	0	78
OU2MW-14S	3.0 - 8.0	0	2	0	0	2
OU2MW-14I	20.0 - 25.0	0	29	3	0	37
OU2MW-14I2	45.0 - 50.0	0	0	0	0	0
OU2MW-15S	3.0 - 8.0	0	1	0	0	1
OU2MW-15I	20.0 - 25.0	0	261	28	0	261
OU2MW-15I2	30.0 - 35.0	0	320	21	0	320
OU2MW-15D	40.0 - 45.0	0	2	0	0	2
OU2MW-16S	3.0 - 8.0	0	0	0	0	0
OU2MW-16I	15.0 - 20.0	0	22	2	0	22
OU2MW-16I2	25.0 - 30.0	0	26	2	0	26
OU2MW-16D	35.0 - 40.0	0	102	6	0	102
OU2MW-52S	3.0 - 8.0	0	0	0	0	0
OU2MW-52I	20.0 - 25.0	0	101	8	0	101
OU2MW-52D	35.0 - 40.0	0	0	0	0	0
OU2MW-53S	3.0 - 8.0	0	0	0	0	0
OU2MW-53I	20.0 - 25.0	0	0	0	0	0
OU2MW-53D	35.0 - 40.0	0	0	0	0	0

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

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	BBMW-01S	BBMW-01I	BBMW-01I	BBMW-01I	BBMW-01D	BBMW-01D	BBMW-01D	BBMW-01D	BBMW-02S	BBMW-02I	BBMW-02D
		Start Depth	5	32	32	32	68.5	68.5	68.5	68.5	5	30	73
		End Depth	15	42	42	42	78.5	78.5	78.5	78.5	15	40	83
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/06/14	10/31/13	03/04/14	05/06/14	07/31/13	10/31/13	03/04/14	05/06/14	05/05/14	05/05/14	05/05/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	**1**	**2**	**2**	**1**	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	**4**	**3**	**2**	**4**	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	**1**	1 U	**5**	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	**5**	**6**	**4**	**10**	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	BBMW-01S	BBMW-01I	BBMW-01I	BBMW-01I	BBMW-01D	BBMW-01D	BBMW-01D	BBMW-01D	BBMW-02S	BBMW-02I	BBMW-02D
		Start Depth	5	32	32	32	68.5	68.5	68.5	68.5	5	30	73
		End Depth	15	42	42	42	78.5	78.5	78.5	78.5	15	40	83
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/06/14	10/31/13	03/04/14	05/06/14	07/31/13	10/31/13	03/04/14	05/06/14	05/05/14	05/05/14	05/05/14
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	**3 J**	**1 J**	**2 J**	**1 J**	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	**3 J**	**30**	**15**	**4 J**	**10**	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	**4**	**33**	**16**	**6**	**11**	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	BBMW-01S	BBMW-01I	BBMW-01I	BBMW-01I	BBMW-01D	BBMW-01D	BBMW-01D	BBMW-01D	BBMW-02S	BBMW-02I	BBMW-02D
		Start Depth	5	32	32	32	68.5	68.5	68.5	68.5	5	30	73
		End Depth	15	42	42	42	78.5	78.5	78.5	78.5	15	40	83
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/06/14	10/31/13	03/04/14	05/06/14	07/31/13	10/31/13	03/04/14	05/06/14	05/05/14	05/05/14	05/05/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	**46100**	**48900**	**44100**	**40700**	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	BBMW-03S	BBMW-03I	BBMW-03D	BBMW-07S	BBMW-07I	BBMW-07D	BBMW-15S	BBMW-15I	BBMW-15I2	BBMW-15D	DUP-09 Q2
		Start Depth	3	30	52	5	30	55	5	23	35	70	70
		End Depth	13	40	62	15	40	65	15	28	45	80	80
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/21/14	05/21/14	05/21/14	05/23/14	05/23/14	05/23/14	05/05/14	05/05/14	05/05/14	05/05/14	05/05/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	BBMW-03S	BBMW-03I	BBMW-03D	BBMW-07S	BBMW-07I	BBMW-07D	BBMW-15S	BBMW-15I	BBMW-15I2	BBMW-15D	DUP-09 Q2
		Start Depth	3	30	52	5	30	55	5	23	35	70	70
		End Depth	13	40	62	15	40	65	15	28	45	80	80
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/21/14	05/21/14	05/21/14	05/23/14	05/23/14	05/23/14	05/05/14	05/05/14	05/05/14	05/05/14	05/05/14
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	**7 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	**9**	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	BBMW-03S	BBMW-03I	BBMW-03D	BBMW-07S	BBMW-07I	BBMW-07D	BBMW-15S	BBMW-15I	BBMW-15I2	BBMW-15D	DUP-09 Q2
		Start Depth	3	30	52	5	30	55	5	23	35	70	70
		End Depth	13	40	62	15	40	65	15	28	45	80	80
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/21/14	05/21/14	05/21/14	05/23/14	05/23/14	05/23/14	05/05/14	05/05/14	05/05/14	05/05/14	05/05/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	BBMW-16S	BBMW-16I	BBMW-16D	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S
		Start Depth	5	35	68	5	5	5	5	5	5	5	5
		End Depth	15	45	78	15	15	15	15	15	15	15	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/06/14	05/06/14	05/06/14	08/01/13	10/10/13	12/20/13	01/17/14	02/25/14	03/12/14	04/16/14	05/20/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	10 U	5 U	**1**	10 U	5 U
Toluene	µg/L	5	1 U	1 U	1 U	**6**	**7**	**4.3**	10 U	**16 D**	**7**	10 U	**6 D**
Ethylbenzene	µg/L	5	1 U	1 U	1 U	**830 D**	**1500**	**900 D**	**660 D**	**2600 D**	**950 D**	**970 D**	**960 D**
o-Xylene	µg/L	5	--	--	--	--	**100**	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	**180**	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	**320**		**200**	**290**	**2200 D**	**460**	**680 D**	**900 D**
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	**1156**	**1787**	**1104.3**	**950**	**4816**	**1418**	**1650**	**1866**
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	BBMW-16S	BBMW-16I	BBMW-16D	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S
		Start Depth	5	35	68	5	5	5	5	5	5	5	5
		End Depth	15	45	78	15	15	15	15	15	15	15	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/06/14	05/06/14	05/06/14	08/01/13	10/10/13	12/20/13	01/17/14	02/25/14	03/12/14	04/16/14	05/20/14
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	**7 J**	**10**			**5 J**	**6 J**	**5 BJ**	**3 J**
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	**2 J**	**2 J**			**1 J**	**2 J**	**1 J**	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	**1 J**	**2 J**			10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	**3 J**	**5 J**			**2 J**	**4 J**	**2 J**	**2 J**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	**20**	**26**			**18**	**16**	**13**	**9 J**
Naphthalene	µg/L	10*	10 U	10 U	10 U	**340 D**	**670**			**300 D**	**210 D**	**160 D**	**170 D**
Phenanthrene	µg/L	50*	10 U	10 U	10 U	**5 J**	**7 J**			**4 J**	**4 J**	**4 J**	**3 J**
Pyrene	µg/L	50*	10 U	10 U	10 U	**2 J**	**3 J**			10 U	**1 J**	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	ND	**380**	**725**			**330**	**243**	**185**	**187**
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	BBMW-16S	BBMW-16I	BBMW-16D	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-23S
		Start Depth	5	35	68	5	5	5	5	5	5	5	5
		End Depth	15	45	78	15	15	15	15	15	15	15	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/06/14	05/06/14	05/06/14	08/01/13	10/10/13	12/20/13	01/17/14	02/25/14	03/12/14	04/16/14	05/20/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	BBMW-23I	BBMW-23I	BBMW-23I	BBMW-23I	BBMW-23D	DUP-58 NC	BBMW-23D	DUP-21-Q2	BBMW-23D2	BBMW-23D2	BBMW-24S	BBMW-24I
		Start Depth	33	33	33	33	49.5	49.5	49.5	49.5	63	63	4	32
		End Depth	43	43	43	43	59.5	59.5	59.5	59.5	73	73	14	42
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/01/13	10/10/13	03/12/14	06/12/14	10/10/13	10/10/13	06/12/14	06/12/14	10/10/13	06/12/14	04/24/14	04/24/14
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	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	µg/L	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
Ethylbenzene	µg/L	5	**33**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	1 U	--	--	1 U	1 U	--	--	1 U	--	--	--
m/p-Xylene	µg/L	5	--	1 U	--	--	1 U	1 U	--	--	1 U	--	--	--
Total Xylene	µg/L	5	**16**		1 U	1 U			1 U	1 U		1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	**49**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs														
Acetaldehyde	µg/L	8*		10 U			10 U	10 U			10 U			
Acetone	µg/L	50*		5 U			5 U	5 U			5 U			
Acrylonitrile	µg/L	5		10 U			10 U	10 U			10 U			
Allyl chloride (3-Chloropropene)	µg/L	5		10 U			10 U	10 U			10 U			
Bromochloromethane	µg/L	5		1 U			1 U	1 U			1 U			
Bromodichloromethane	µg/L	50*		1 U			1 U	1 U			1 U			
Bromoform	µg/L	50*		1 U			1 U	1 U			1 U			
Bromomethane	µg/L	5		1 U			1 U	1 U			1 U			
1,3-Butadiene	µg/L	NE		10 U			10 U	10 U			10 U			
Carbon disulfide	µg/L	60*		1 U			1 U	1 U			1 U			
Carbon tetrachloride	µg/L	5		1 U			1 U	1 U			1 U			
Chlorobenzene	µg/L	5		1 U			1 U	1 U			1 U			
Chloroethane	µg/L	5		1 U			1 U	1 U			1 U			
2-Chloroethyl vinyl ether	µg/L	NE		1 U			1 U	1 U			1 U			
Chloroform	µg/L	7		1 U			1 U	1 U			1 U			
Chloromethane	µg/L	5		1 U			1 U	1 U			1 U			
Chlorotoluene	µg/L	5		1 U			1 U	1 U			1 U			
Cryofluorane (Freon 114)	µg/L	NE		10 U			10 U	10 U			10 U			
Cyclohexane	µg/L	NE		10 U			10 U	10 U			10 U			
1,2-Dibromo-3-chloropropane	µg/L	0.04		1 U			1 U	1 U			1 U			
Dibromochloromethane	µg/L	50*		1 U			1 U	1 U			1 U			
1,2-Dibromoethane (EDB)	µg/L	0.0006		1 U			1 U	1 U			1 U			
trans-1,4-dichloro-2-butene	µg/L	5		1 U			1 U	1 U			1 U			
1,2-Dichlorobenzene	µg/L	3		1 U			1 U	1 U			1 U			
1,3-Dichlorobenzene	µg/L	3		1 U			1 U	1 U			1 U			
1,4-Dichlorobenzene	µg/L	3		1 U			1 U	1 U			1 U			
Dichlorodifluoromethane (Freon 12)	µg/L	5		1 U			1 U	1 U			1 U			
1,1-Dichloroethane	µg/L	5		1 U			1 U	1 U			1 U			
1,2-Dichloroethane	µg/L	0.6		1 U			1 U	1 U			1 U			
1,1-Dichloroethene	µg/L	0.07		1 U			1 U	1 U			1 U			
cis-1,2-Dichloroethene	µg/L	5		1 U			1 U	1 U			1 U			
trans-1,2-Dichloroethene	µg/L	5		1 U			1 U	1 U			1 U			
1,2-Dichloropropane	µg/L	1		1 U			1 U	1 U			1 U			
cis-1,3-Dichloropropene	µg/L	0.4		1 U			1 U	1 U			1 U			
trans-1,3-Dichloropropene	µg/L	0.4		1 U			1 U	1 U			1 U			
1,4-Dioxane	µg/L	NE		500 U			500 U	500 U			500 U			
Ethanol	µg/L	NE		500 U			500 U	500 U			500 U			
n-Heptane	µg/L	NE		10 U			10 U	10 U			10 U			
Hexachlorobutadiene (C-46)	µg/L	0.5		1 U			1 U	1 U			1 U			
n-Hexane	µg/L	NE		10 U			10 U	10 U			10 U			
2-Hexanone	µg/L	50*		5 U			5 U	5 U			5 U			
Iodomethane	µg/L	5		1 U			1 U	1 U			1 U			
Isopropyl benzene	µg/L	5		1 U			1 U	1 U			1 U			

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	BBMW-23I	BBMW-23I	BBMW-23I	BBMW-23I	BBMW-23D	DUP-58 NC	BBMW-23D	DUP-21-Q2	BBMW-23D2	BBMW-23D2	BBMW-24S	BBMW-24I
			Start Depth	33	33	33	33	49.5	49.5	49.5	49.5	63	63	4	32
			End Depth	43	43	43	43	59.5	59.5	59.5	59.5	73	73	14	42
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	08/01/13	10/10/13	03/12/14	06/12/14	10/10/13	10/10/13	06/12/14	06/12/14	10/10/13	06/12/14	04/24/14	04/24/14
Analyte	**Units**	**NYS AWQS**													
Methyl ethyl ketone (2-Butanone)	µg/L	50*		5 U			5 U	5 U				5 U			
Methyl tert-butyl ether (MTBE)	µg/L	10*		10 U			10 U	10 U				10 U			
4-Methyl-2-pentanone (MIBK)	µg/L	NE		5 U			5 U	5 U				5 U			
Methylene chloride	µg/L	5		2 U			2 U	2 U				2 U			
Naphthalene	µg/L	10*		1 U			**7**	**7**				1 U			
2-Propanol (Isopropyl Alcohol)	µg/L	NE		500 U			500 U	500 U				500 U			
n-Propylbenzene	µg/L	5		1 U			1 U	1 U				1 U			
Styrene	µg/L	5		1 U			1 U	1 U				1 U			
1,1,1,2-Tetrachloroethane	µg/L	5		1 U			1 U	1 U				1 U			
1,1,2,2-Tetrachloroethane	µg/L	5		1 U			1 U	1 U				1 U			
Tetrachloroethene (PCE)	µg/L	5		1 U			1 U	1 U				1 U			
Tetrahydrofuran	µg/L	50*		10 U			10 U	10 U				10 U			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5		10 U			10 U	10 U				10 U			
1,2,4-Trichlorobenzene	µg/L	5		1 U			1 U	1 U				1 U			
1,1,1-Trichloroethane (TCA)	µg/L	5		1 U			1 U	1 U				1 U			
1,1,2-Trichloroethane	µg/L	1		1 U			1 U	1 U				1 U			
Trichloroethene (TCE)	µg/L	5		1 U			1 U	1 U				1 U			
Trichlorofluoromethane (Freon 11)	µg/L	5		1 U			1 U	1 U				1 U			
1,2,3-Trichloropropane	µg/L	0.04		1 U			1 U	1 U				1 U			
1,2,4-Trimethylbenzene	µg/L	5		1 U			1 U	1 U				1 U			
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5		1 U			1 U	1 U				1 U			
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE		10 U			10 U	10 U				10 U			
Vinyl acetate	µg/L	NE		1 U			1 U	1 U				1 U			
Vinyl chloride	µg/L	2		1 U			1 U	1 U				1 U			
NYSDEC PAH17															
Acenaphthene	µg/L	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	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	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	µg/L	10*	**12**	10 U	10 U	10 U	**4 J**	**5 J**	**4 J**	**3 J**	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	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	µg/L	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)	µg/L	NE	**12**	ND	ND	ND	**4**	**5**	**4**	**3**	ND	ND	ND	ND	ND
Total Metals	µg/L														
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	BBMW-23I	BBMW-23I	BBMW-23I	BBMW-23I	BBMW-23D	DUP-58 NC	BBMW-23D	DUP-21-Q2	BBMW-23D2	BBMW-23D2	BBMW-24S	BBMW-24I
		Start Depth	33	33	33	33	49.5	49.5	49.5	49.5	63	63	4	32
		End Depth	43	43	43	43	59.5	59.5	59.5	59.5	73	73	14	42
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/01/13	10/10/13	03/12/14	06/12/14	10/10/13	10/10/13	06/12/14	06/12/14	10/10/13	06/12/14	04/24/14	04/24/14
Analyte	**Units**	**NYS AWQS**												
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	DUP-06-Q2	BBMW-24D	BBMW-24D	BBMW-24D	BBMW-25S	BBMW-25I	BBMW-25I	BBMW-25I	BBMW-25D	BBMW-25D	BBMW-25D	BBMW-25D
		Start Depth	32	59.5	59.5	59.5	4	25	25	25	62	62	62	62
		End Depth	42	69.5	69.5	69.5	14	35	35	35	72	72	72	72
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/24/14	07/25/13	02/21/14	04/24/14	04/29/14	10/14/13	01/24/14	04/29/14	09/11/13	10/14/13	01/24/14	04/29/14
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	1 U	1 U		1 U	1 U			1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U		1 U	1 U			1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U		1 U	1 U			1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	**2**		**5**	1 U			1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	**2**		**5**	ND			ND	ND	ND	ND	ND
Other VOCs														
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	DUP-06-Q2	BBMW-24D	BBMW-24D	BBMW-24D	BBMW-25S	BBMW-25I	BBMW-25I	BBMW-25I	BBMW-25D	BBMW-25D	BBMW-25D	BBMW-25D
		Start Depth	32	59.5	59.5	59.5	4	25	25	25	62	62	62	62
		End Depth	42	69.5	69.5	69.5	14	35	35	35	72	72	72	72
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/24/14	07/25/13	02/21/14	04/24/14	04/29/14	10/14/13	01/24/14	04/29/14	09/11/13	10/14/13	01/24/14	04/29/14
Analyte	**Units**	**NYS AWQS**												
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17														
Acenaphthene	µg/L	20*	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	**2 J**		**8 J**	10 U			10 U	**3 J**	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U		10 U	10 U			10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	**2**		**8**	ND			ND	**3**	ND	ND	ND
Total Metals	µg/L													
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	DUP-06-Q2	BBMW-24D	BBMW-24D	BBMW-24D	BBMW-25S	BBMW-25I	BBMW-25I	BBMW-25I	BBMW-25D	BBMW-25D	BBMW-25D	BBMW-25D
		Start Depth	32	59.5	59.5	59.5	4	25	25	25	62	62	62	62
		End Depth	42	69.5	69.5	69.5	14	35	35	35	72	72	72	72
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/24/14	07/25/13	02/21/14	04/24/14	04/29/14	10/14/13	01/24/14	04/29/14	09/11/13	10/14/13	01/24/14	04/29/14
Analyte	**Units**	**NYS AWQS**												
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	**334000 D**	**300000 D**	**278000 D**	--	**19000**	**18000**	--	--	**16900**	**17400**	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	GM-05S	GM-05I	GM-05D	GM-08S	GM-08I	GM-08D	GMP-01	GMP-01	GMP-01
			Start Depth	5.1	35.05	60.95	6.35	29.95	48.25	25	25	25
			End Depth	20.1	48.05	75.95	21.35	44.95	63.25	30	30	30
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	06/09/14	06/09/14	06/09/14	06/13/14	06/13/14	06/13/14	07/31/13	10/10/13	04/11/14
Analyte	**Units**	**NYS AWQS**										
BTEX												
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs												
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	GM-05S	GM-05I	GM-05D	GM-08S	GM-08I	GM-08D	GMP-01	GMP-01	GMP-01
			Start Depth	5.1	35.05	60.95	6.35	29.95	48.25	25	25	25
			End Depth	20.1	48.05	75.95	21.35	44.95	63.25	30	30	30
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	06/09/14	06/09/14	06/09/14	06/13/14	06/13/14	06/13/14	07/31/13	10/10/13	04/11/14
Analyte	**Units**	**NYS AWQS**										
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--
NYSDEC PAH17												
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals	µg/L											
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	GM-05S	GM-05I	GM-05D	GM-08S	GM-08I	GM-08D	GMP-01	GMP-01	GMP-01
			Start Depth	5.1	35.05	60.95	6.35	29.95	48.25	25	25	25
			End Depth	20.1	48.05	75.95	21.35	44.95	63.25	30	30	30
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	06/09/14	06/09/14	06/09/14	06/13/14	06/13/14	06/13/14	07/31/13	10/10/13	04/11/14
Analyte	**Units**	**NYS AWQS**										
Copper	µg/L	200	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--
Other												
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	GMP-02	GMP-04	OU2IW-01S	OU2MW-01WT	OU2MW-01S	OU2MW-01I	OU2MW-01I2	OU2MW-01D	OU2MW-02S	OU2MW-02S	OU2MW-02S
		Start Depth	18	15.5	3	3	20	35	50	65	20	20	20
		End Depth	23	20.5	8	8	25	40	55	70	25	25	25
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/24/14	06/11/14	05/07/14	04/28/14	04/28/14	04/28/14	04/28/14	04/28/14	09/09/13	11/14/13	02/25/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	GMP-02	GMP-04	OU2IW-01S	OU2MW-01WT	OU2MW-01S	OU2MW-01I	OU2MW-01I2	OU2MW-01D	OU2MW-02S	OU2MW-02S	OU2MW-02S
			Start Depth	18	15.5	3	3	20	35	50	65	20	20	20
			End Depth	23	20.5	8	8	25	40	55	70	25	25	25
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	04/24/14	06/11/14	05/07/14	04/28/14	04/28/14	04/28/14	04/28/14	04/28/14	09/09/13	11/14/13	02/25/14
Analyte	**Units**	**NYS AWQS**												
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	GMP-02	GMP-04	OU2IW-01S	OU2MW-01WT	OU2MW-01S	OU2MW-01I	OU2MW-01I2	OU2MW-01D	OU2MW-02S	OU2MW-02S	OU2MW-02S
		Start Depth	18	15.5	3	3	20	35	50	65	20	20	20
		End Depth	23	20.5	8	8	25	40	55	70	25	25	25
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/24/14	06/11/14	05/07/14	04/28/14	04/28/14	04/28/14	04/28/14	04/28/14	09/09/13	11/14/13	02/25/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	**29700**	**121000 D**	**6430**	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-02S	OU2MW-02I	DUP-14 Q3	OU2MW-02I	OU2MW-02I	OU2MW-02I	DUP-14-Q2	OU2MW-02I2	OU2MW-02I2	OU2MW-02I2	OU2MW-02I2
		Start Depth	20	35	35	35	35	35	35	50	50	50	50
		End Depth	25	40	40	40	40	40	40	55	55	55	55
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/19/14	09/09/13	09/09/13	11/14/13	02/25/14	05/19/14	05/19/14	09/09/13	11/14/13	02/25/14	05/19/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	**2**	**3**	**1**
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	**4**	**5**	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	**3**	**6**	**8**	**1**
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-02S	OU2MW-02I	DUP-14 Q3	OU2MW-02I	OU2MW-02I	OU2MW-02I	DUP-14-Q2	OU2MW-02I2	OU2MW-02I2	OU2MW-02I2	OU2MW-02I2
		Start Depth	20	35	35	35	35	35	35	50	50	50	50
		End Depth	25	40	40	40	40	40	40	55	55	55	55
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/19/14	09/09/13	09/09/13	11/14/13	02/25/14	05/19/14	05/19/14	09/09/13	11/14/13	02/25/14	05/19/14
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	**7 J**	**2 J**	**4 J**	**3 J**	**1 J**
Acenaphthylene	µg/L	NE	10 U	**2 J**	**2 J**	**1 J**	10 U	10 U	**1 J**	**10**	**19**	**14**	**7 J**
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	**42**	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	**5 J**	**5 J**	**3 J**	10 U	10 U	**1300 D**	**11**	**9 J**	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	**7**	**7**	**4**	ND	ND	**1356**	**23**	**32**	**17**	**8**
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-02S	OU2MW-02I	DUP-14 Q3	OU2MW-02I	OU2MW-02I	OU2MW-02I	DUP-14-Q2	OU2MW-02I2	OU2MW-02I2	OU2MW-02I2	OU2MW-02I2
		Start Depth	20	35	35	35	35	35	35	50	50	50	50
		End Depth	25	40	40	40	40	40	40	55	55	55	55
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/19/14	09/09/13	09/09/13	11/14/13	02/25/14	05/19/14	05/19/14	09/09/13	11/14/13	02/25/14	05/19/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	**24600**	**28300**	**34300**	**5070**	**82000 D**	**154000**	**211000 D**	**9570**
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-02D	OU2MW-02D	OU2MW-02D	OU2MW-02D	OU2MW-03S	OU2MW-03I	OU2MW-03I2	OU2MW-03D	OU2MW-04WT	DUP-15 Q2	OU2MW-04S
		Start Depth	65	65	65	65	20	35	50	65	3	3	20
		End Depth	70	70	70	70	25	40	55	70	8	8	25
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	09/09/13	11/14/13	02/25/14	05/19/14	05/20/14	05/20/14	05/20/14	05/20/14	05/20/14	05/20/14	09/12/13
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-02D	OU2MW-02D	OU2MW-02D	OU2MW-02D	OU2MW-03S	OU2MW-03I	OU2MW-03I2	OU2MW-03D	OU2MW-04WT	DUP-15 Q2	OU2MW-04S
		Start Depth	65	65	65	65	20	35	50	65	3	3	20
		End Depth	70	70	70	70	25	40	55	70	8	8	25
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	09/09/13	11/14/13	02/25/14	05/19/14	05/20/14	05/20/14	05/20/14	05/20/14	05/20/14	05/20/14	09/12/13
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-02D	OU2MW-02D	OU2MW-02D	OU2MW-02D	OU2MW-03S	OU2MW-03I	OU2MW-03I2	OU2MW-03D	OU2MW-04WT	DUP-15 Q2	OU2MW-04S
		Start Depth	65	65	65	65	20	35	50	65	3	3	20
		End Depth	70	70	70	70	25	40	55	70	8	8	25
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	09/09/13	11/14/13	02/25/14	05/19/14	05/20/14	05/20/14	05/20/14	05/20/14	05/20/14	05/20/14	09/12/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	**6860**	**6210**	**6870**	**6650**	--	--	--	--	--	--	**43500**
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-04S	OU2MW-04S	OU2MW-04I	OU2MW-04I	OU2MW-04I	OU2MW-04I	OU2MW-04I2	OU2MW-04I2	OU2MW-04I2	OU2MW-04D	OU2MW-04D
			Start Depth	20	20	35	35	35	35	50	50	50	65	65
			End Depth	25	25	40	40	40	40	55	55	55	70	70
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	03/14/14	05/20/14	09/12/13	10/14/13	03/14/14	05/20/14	09/12/13	03/14/14	05/20/14	09/12/13	03/14/14
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1		1 U	**4**	**12**	**12**	**6**	**2**		**3**	1 U		
Toluene	µg/L	5		1 U	1 U	1 U	1 U	1 U	1 U		1 U	1 U		
Ethylbenzene	µg/L	5		1 U	1 U	**1**	1 U	1 U	1 U		1 U	1 U		
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5		1 U	**1**	**4**	**2**	1 U	1 U		1 U	1 U		
Total BTEX (ND=0)	µg/L	NE		ND	**5**	**17**	**14**	**6**	**2**		**3**	ND		
Other VOCs														
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-04S	OU2MW-04S	OU2MW-04I	OU2MW-04I	OU2MW-04I	OU2MW-04I	OU2MW-04I2	OU2MW-04I2	OU2MW-04I2	OU2MW-04D	OU2MW-04D
			Start Depth	20	20	35	35	35	35	50	50	50	65	65
			End Depth	25	25	40	40	40	40	55	55	55	70	70
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	03/14/14	05/20/14	09/12/13	10/14/13	03/14/14	05/20/14	09/12/13	03/14/14	05/20/14	09/12/13	03/14/14
Analyte	**Units**	**NYS AWQS**												
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17														
Acenaphthene	µg/L	20*		10 U	**5 J**	**3 J**	10 U	10 U	10 U		10 U	10 U		
Acenaphthylene	µg/L	NE		10 U	**25**	**19**	**5 J**	**2 J**	10 U		**2 J**	10 U		
Anthracene	µg/L	50*		10 U	10 U	10 U	10 U	10 U	10 U		10 U	10 U		
Benzo(a)anthracene	µg/L	0.002*		10 U	10 U	10 U	10 U	10 U	10 U		10 U	10 U		
Benzo(b)fluoranthene	µg/L	0.002*		10 U	10 U	10 U	10 U	10 U	10 U		10 U	10 U		
Benzo(k)fluoranthene	µg/L	0.002*		10 U	10 U	10 U	10 U	10 U	10 U		10 U	10 U		
Benzo(g,h,i)perylene	µg/L	NE		10 U	10 U	10 U	10 U	10 U	10 U		10 U	10 U		
Benzo(a)pyrene	µg/L	ND		10 U	10 U	10 U	10 U	10 U	10 U		10 U	10 U		
Chrysene	µg/L	0.002*		10 U	10 U	10 U	10 U	10 U	10 U		10 U	10 U		
Dibenz(a,h)anthracene	µg/L	NE		10 U	10 U	10 U	10 U	10 U	10 U		10 U	10 U		
Fluoranthene	µg/L	50*		10 U	10 U	10 U	10 U	10 U	10 U		10 U	10 U		
Fluorene	µg/L	50*		10 U	10 U	10 U	10 U	10 U	10 U		10 U	10 U		
Indeno(1,2,3-cd)pyrene	µg/L	0.002*		10 U	10 U	10 U	10 U	10 U	10 U		10 U	10 U		
2-Methylnaphthalene	µg/L	NE		10 U	10 U	**1 J**	10 U	10 U	10 U		10 U	10 U		
Naphthalene	µg/L	10*		10 U	**10**	**15**	**7 J**	**5 J**	**3 J**		10 U	10 U		
Phenanthrene	µg/L	50*		10 U	**13**	**11**	**1 J**	10 U	10 U		10 U	10 U		
Pyrene	µg/L	50*		10 U	10 U	10 U	10 U	10 U	10 U		10 U	10 U		
Total PAH (17) (ND=0)	µg/L	NE		ND	**53**	**49**	**13**	**7**	**3**		**2**	ND		
Total Metals	µg/L													
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-04S	OU2MW-04S	OU2MW-04I	OU2MW-04I	OU2MW-04I	OU2MW-04I	OU2MW-04I2	OU2MW-04I2	OU2MW-04I2	OU2MW-04D	OU2MW-04D
		Start Depth	20	20	35	35	35	35	50	50	50	65	65
		End Depth	25	25	40	40	40	40	55	55	55	70	70
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	03/14/14	05/20/14	09/12/13	10/14/13	03/14/14	05/20/14	09/12/13	03/14/14	05/20/14	09/12/13	03/14/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	**56800 D**	--	**21900**	--	**48400**	**33100**	**7110**	**7980**	**48500**	**5730**	**5580**
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-04D	OU2MW-05	OU2MW-05	OU2MW-06S	OU2MW-06	OU2MW-07S	OU2MW-07	OU2MW-08WT	OU2MW-08S	OU2MW-08I	OU2MW-08I
		Start Depth	65	25	25	3	15	3	15	3	20	35	35
		End Depth	70	35	35	8	25	8	25	8	25	40	40
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/20/14	07/10/13	06/11/14	05/29/14	05/29/14	04/25/14	04/25/14	04/24/14	04/24/14	08/12/13	10/14/13
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-04D	OU2MW-05	OU2MW-05	OU2MW-06S	OU2MW-06	OU2MW-07S	OU2MW-07	OU2MW-08WT	OU2MW-08S	OU2MW-08I	OU2MW-08I
			Start Depth	65	25	25	3	15	3	15	3	20	35	35
			End Depth	70	35	35	8	25	8	25	8	25	40	40
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	05/20/14	07/10/13	06/11/14	05/29/14	05/29/14	04/25/14	04/25/14	04/24/14	04/24/14	08/12/13	10/14/13
Analyte	**Units**	**NYS AWQS**												
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-04D	OU2MW-05	OU2MW-05	OU2MW-06S	OU2MW-06	OU2MW-07S	OU2MW-07	OU2MW-08WT	OU2MW-08S	OU2MW-08I	OU2MW-08I
		Start Depth	65	25	25	3	15	3	15	3	20	35	35
		End Depth	70	35	35	8	25	8	25	8	25	40	40
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/20/14	07/10/13	06/11/14	05/29/14	05/29/14	04/25/14	04/25/14	04/24/14	04/24/14	08/12/13	10/14/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	**9240**	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-08I	OU2MW-08I	OU2MW-08I2	OU2MW-08I2	OU2MW-08I2	OU2MW-08I2	OU2MW-08D	OU2MW-09	OU2MW-10S	OU2MW-10I	OU2MW-10I
			Start Depth	35	35	50	50	50	50	65	30	3	20	20
			End Depth	40	40	55	55	55	55	70	40	7	25	25
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	02/19/14	04/24/14	08/12/13	10/14/13	02/19/14	04/24/14	04/24/14	05/21/14	05/07/14	07/10/13	10/17/13
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	1 U	1 U	**35**	**16**	**10**	**14**	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	**1**	1 U	**1**	**2**	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	**2**	**1**	**1**	**3**	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	**4**	**4**	**6**	**12**	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	**42**	**21**	**18**	**31**	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-08I	OU2MW-08I	OU2MW-08I2	OU2MW-08I2	OU2MW-08I2	OU2MW-08I2	OU2MW-08D	OU2MW-09	OU2MW-10S	OU2MW-10I	OU2MW-10I
		Start Depth	35	35	50	50	50	50	65	30	3	20	20
		End Depth	40	40	55	55	55	55	70	40	7	25	25
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	02/19/14	04/24/14	08/12/13	10/14/13	02/19/14	04/24/14	04/24/14	05/21/14	05/07/14	07/10/13	10/17/13
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	**6 J**	**5 J**	**3 J**	**5 J**	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	**43**	**34**	**23**	**35**	10 U	10 U	10 U	**2 J**	**2 J**
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	**29**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	**14**	**11**	**12**	**14**	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	**22**	**24**	**18**	**21**	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	**85**	**103**	**56**	**75**	ND	ND	ND	**2**	**2**
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-08I	OU2MW-08I	OU2MW-08I2	OU2MW-08I2	OU2MW-08I2	OU2MW-08I2	OU2MW-08D	OU2MW-09	OU2MW-10S	OU2MW-10I	OU2MW-10I
		Start Depth	35	35	50	50	50	50	65	30	3	20	20
		End Depth	40	40	55	55	55	55	70	40	7	25	25
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	02/19/14	04/24/14	08/12/13	10/14/13	02/19/14	04/24/14	04/24/14	05/21/14	05/07/14	07/10/13	10/17/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	**13500**	--	--	--	**104000 D**	**6600**	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-10I	OU2MW-10I	OU2MW-10D	OU2MW-11S	OU2MW-11I	OU2MW-11I2	DUP-01 Q3	OU2MW-11I2	OU2MW-11I2	OU2MW-11D	OU2MW-11D
		Start Depth	20	20	35	3	20	30	30	30	30	40	40
		End Depth	25	25	40	8	25	35	35	35	35	45	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	03/07/14	05/07/14	05/07/14	05/20/14	05/20/14	07/09/13	07/09/13	10/29/13	05/20/14	07/09/13	10/29/13
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**5**	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**7**	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	**12**	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-10I	OU2MW-10I	OU2MW-10D	OU2MW-11S	OU2MW-11I	OU2MW-11I2	DUP-01 Q3	OU2MW-11I2	OU2MW-11I2	OU2MW-11D	OU2MW-11D
		Start Depth	20	20	35	3	20	30	30	30	30	40	40
		End Depth	25	25	40	8	25	35	35	35	35	45	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	03/07/14	05/07/14	05/07/14	05/20/14	05/20/14	07/09/13	07/09/13	10/29/13	05/20/14	07/09/13	10/29/13
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**5 J**	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	**36**	**1 J**	**3 J**	**2 J**
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**8 J**	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	**1**	ND	ND	ND	ND	ND	ND	**49**	**1**	**3**	**2**
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-10I	OU2MW-10I	OU2MW-10D	OU2MW-11S	OU2MW-11I	OU2MW-11I2	DUP-01 Q3	OU2MW-11I2	OU2MW-11I2	OU2MW-11D	OU2MW-11D
		Start Depth	20	20	35	3	20	30	30	30	30	40	40
		End Depth	25	25	40	8	25	35	35	35	35	45	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	03/07/14	05/07/14	05/07/14	05/20/14	05/20/14	07/09/13	07/09/13	10/29/13	05/20/14	07/09/13	10/29/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-11D	OU2MW-11D	OU2MW-12S	OU2MW-12S	OU2MW-12S	OU2MW-12S	OU2MW-12I	OU2MW-12I	OU2MW-12I	OU2MW-12I	OU2MW-12I2
		Start Depth	40	40	3	3	3	3	20	20	20	20	30
		End Depth	45	45	7	7	7	7	25	25	25	25	35
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	03/17/14	05/20/14	07/09/13	10/31/13	02/11/14	05/28/14	07/09/13	10/31/13	02/11/14	05/28/14	07/09/13
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-11D	OU2MW-11D	OU2MW-12S	OU2MW-12S	OU2MW-12S	OU2MW-12S	OU2MW-12I	OU2MW-12I	OU2MW-12I	OU2MW-12I	OU2MW-12I2
		Start Depth	40	40	3	3	3	3	20	20	20	20	30
		End Depth	45	45	7	7	7	7	25	25	25	25	35
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	03/17/14	05/20/14	07/09/13	10/31/13	02/11/14	05/28/14	07/09/13	10/31/13	02/11/14	05/28/14	07/09/13
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2**
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-11D	OU2MW-11D	OU2MW-12S	OU2MW-12S	OU2MW-12S	OU2MW-12S	OU2MW-12I	OU2MW-12I	OU2MW-12I	OU2MW-12I	OU2MW-12I2
		Start Depth	40	40	3	3	3	3	20	20	20	20	30
		End Depth	45	45	7	7	7	7	25	25	25	25	35
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	03/17/14	05/20/14	07/09/13	10/31/13	02/11/14	05/28/14	07/09/13	10/31/13	02/11/14	05/28/14	07/09/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	**14900**	--	**8990**	**13700**	**46300**	--	**75100 D**	**49500**	**37400**
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-12I2	OU2MW-12I2	OU2MW-12I2	OU2MW-12D	OU2MW-12D	OU2MW-12D	OU2MW-12D	OU2MW-13S	OU2MW-13I	OU2MW-13D	OU2MW-13D
		Start Depth	30	30	30	40	40	40	40	3	20	35	35
		End Depth	35	35	35	45	45	45	45	8	25	40	40
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	10/31/13	02/11/14	05/28/14	07/09/13	10/31/13	02/11/14	05/28/14	05/01/14	05/01/14	07/10/13	10/29/13
Analyte	Units	NYS AWQS											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	**11**	**2**	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	**13**	**2**	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-12I2	OU2MW-12I2	OU2MW-12I2	OU2MW-12D	OU2MW-12D	OU2MW-12D	OU2MW-12D	OU2MW-13S	OU2MW-13I	OU2MW-13D	OU2MW-13D
		Start Depth	30	30	30	40	40	40	40	3	20	35	35
		End Depth	35	35	35	45	45	45	45	8	25	40	40
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	10/31/13	02/11/14	05/28/14	07/09/13	10/31/13	02/11/14	05/28/14	05/01/14	05/01/14	07/10/13	10/29/13
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	**2 J**	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	**2**	ND	**2**	ND	ND	ND	ND	**2**
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-12I2	OU2MW-12I2	OU2MW-12I2	OU2MW-12D	OU2MW-12D	OU2MW-12D	OU2MW-12D	OU2MW-13S	OU2MW-13I	OU2MW-13D	OU2MW-13D
		Start Depth	30	30	30	40	40	40	40	3	20	35	35
		End Depth	35	35	35	45	45	45	45	8	25	40	40
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	10/31/13	02/11/14	05/28/14	07/09/13	10/31/13	02/11/14	05/28/14	05/01/14	05/01/14	07/10/13	10/29/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	**49200**	**63000 D**	**5710**	--	**14500**	**6980**	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-13D	OU2MW-14S	DUP-26 Q2	OU2MW-14I	OU2MW-14I	DUP-06 Q4 CB	OU2MW-14I	OU2MW-14I	OU2MW-14I2	OU2MW-15S	OU2MW-15I
		Start Depth	35	3	3	20	20	20	20	20	45	3	20
		End Depth	40	8	8	25	25	25	25	25	50	8	25
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/01/14	06/27/14	06/27/14	08/22/13	11/14/13	11/14/13	03/21/14	06/18/14	06/12/14	05/28/14	07/10/13
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	**25**	**25**	**25**	**88**	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	**6**	**5**	**2**	**2**	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	**31**	**30**	**27**	**90**	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-13D	OU2MW-14S	DUP-26 Q2	OU2MW-14I	OU2MW-14I	DUP-06 Q4 CB	OU2MW-14I	OU2MW-14I	OU2MW-14I2	OU2MW-15S	OU2MW-15I
		Start Depth	35	3	3	20	20	20	20	20	45	3	20
		End Depth	40	8	8	25	25	25	25	25	50	8	25
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/01/14	06/27/14	06/27/14	08/22/13	11/14/13	11/14/13	03/21/14	06/18/14	06/12/14	05/28/14	07/10/13
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	**2 J**	**2 J**	**3 J**	**13**	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	**5 J**	**4 J**	**4 J**	**3 J**	**20**	10 U	10 U	**2 J**
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	**5**	**6**	**6**	**6**	**37**	ND	ND	**2**
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-13D	OU2MW-14S	DUP-26 Q2	OU2MW-14I	OU2MW-14I	DUP-06 Q4 CB	OU2MW-14I	OU2MW-14I	OU2MW-14I2	OU2MW-15S	OU2MW-15I
		Start Depth	35	3	3	20	20	20	20	20	45	3	20
		End Depth	40	8	8	25	25	25	25	25	50	8	25
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/01/14	06/27/14	06/27/14	08/22/13	11/14/13	11/14/13	03/21/14	06/18/14	06/12/14	05/28/14	07/10/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-15I	OU2MW-15I	OU2MW-15I	OU2MW-15I2	OU2MW-15D	DUP-17 Q2	OU2MW-16S	OU2MW-16I	OU2MW-16I2	OU2MW-16D	OU2MW-17S
		Start Depth	20	20	20	30	40	40	3	15	25	35	5
		End Depth	25	25	25	35	45	45	8	20	30	40	10
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	10/29/13	03/05/14	05/28/14	05/28/14	05/28/14	05/28/14	05/29/14	05/29/14	05/28/14	05/28/14	06/10/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-15I	OU2MW-15I	OU2MW-15I	OU2MW-15I2	OU2MW-15D	DUP-17 Q2	OU2MW-16S	OU2MW-16I	OU2MW-16I2	OU2MW-16D	OU2MW-17S
		Start Depth	20	20	20	30	40	40	3	15	25	35	5
		End Depth	25	25	25	35	45	45	8	20	30	40	10
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	10/29/13	03/05/14	05/28/14	05/28/14	05/28/14	05/28/14	05/29/14	05/29/14	05/28/14	05/28/14	06/10/14
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-15I	OU2MW-15I	OU2MW-15I	OU2MW-15I2	OU2MW-15D	DUP-17 Q2	OU2MW-16S	OU2MW-16I	OU2MW-16I2	OU2MW-16D	OU2MW-17S
		Start Depth	20	20	20	30	40	40	3	15	25	35	5
		End Depth	25	25	25	35	45	45	8	20	30	40	10
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	10/29/13	03/05/14	05/28/14	05/28/14	05/28/14	05/28/14	05/29/14	05/29/14	05/28/14	05/28/14	06/10/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-17I	OU2MW-17I	OU2MW-17I	OU2MW-17I	OU2MW-17I2	DUP-20-Q2	OU2MW-17D	OU2MW-18I	OU2MW-18I2	OU2MW-18I2	DUP-03 Q4
			Start Depth	13	13	13	13	35	35	60	13	35	35	35
			End Depth	23	23	23	23	45	45	70	23	45	45	45
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	07/25/13	10/29/13	03/04/14	06/10/14	06/10/14	06/10/14	06/10/14	06/04/14	07/10/13	10/29/13	10/29/13
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	1 U	**3**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	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
Ethylbenzene	µg/L	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
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**3**	**7**	**7**	
Total BTEX (ND=0)	µg/L	NE	ND	**3**	ND	ND	ND	ND	ND	ND	**3**	**7**	**7**	
Other VOCs														
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-17I	OU2MW-17I	OU2MW-17I	OU2MW-17I	OU2MW-17I2	DUP-20-Q2	OU2MW-17D	OU2MW-18I	OU2MW-18I2	OU2MW-18I2	DUP-03 Q4
		Start Depth	13	13	13	13	35	35	60	13	35	35	35
		End Depth	23	23	23	23	45	45	70	23	45	45	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	07/25/13	10/29/13	03/04/14	06/10/14	06/10/14	06/10/14	06/10/14	06/04/14	07/10/13	10/29/13	10/29/13
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	**2 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	**2**	**2**	ND	ND	**17**	ND	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-17I	OU2MW-17I	OU2MW-17I	OU2MW-17I	OU2MW-17I2	DUP-20-Q2	OU2MW-17D	OU2MW-18I	OU2MW-18I2	OU2MW-18I2	DUP-03 Q4
		Start Depth	13	13	13	13	35	35	60	13	35	35	35
		End Depth	23	23	23	23	45	45	70	23	45	45	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	07/25/13	10/29/13	03/04/14	06/10/14	06/10/14	06/10/14	06/10/14	06/04/14	07/10/13	10/29/13	10/29/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-18I2	OU2MW-18I2	OU2MW-18D	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I2	OU2MW-19I2	OU2MW-19I2	OU2MW-19I2
		Start Depth	35	35	60	13	13	13	13	35	35	35	35
		End Depth	45	45	70	23	23	23	23	45	45	45	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	03/04/14	06/04/14	06/04/14	07/31/13	10/18/13	01/24/14	05/07/14	07/31/13	10/18/13	01/24/14	05/07/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	**5**	1 U	1 U	1 U	**10**	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	**5**	ND	ND	ND	**11**	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-18I2	OU2MW-18I2	OU2MW-18D	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I2	OU2MW-19I2	OU2MW-19I2	OU2MW-19I2
		Start Depth	35	35	60	13	13	13	13	35	35	35	35
		End Depth	45	45	70	23	23	23	23	45	45	45	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	03/04/14	06/04/14	06/04/14	07/31/13	10/18/13	01/24/14	05/07/14	07/31/13	10/18/13	01/24/14	05/07/14
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	**4 J**	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	**19**	10 U	10 U	10 U	**38**	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	**22**	ND	ND	ND	**44**	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-18I2	OU2MW-18I2	OU2MW-18D	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I	OU2MW-19I2	OU2MW-19I2	OU2MW-19I2	OU2MW-19I2
		Start Depth	35	35	60	13	13	13	13	35	35	35	35
		End Depth	45	45	70	23	23	23	23	45	45	45	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	03/04/14	06/04/14	06/04/14	07/31/13	10/18/13	01/24/14	05/07/14	07/31/13	10/18/13	01/24/14	05/07/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-19D	DUP-03Q3	OU2MW-19D	OU2MW-19D	OU2MW-19D	OU2MW-20S	DUP-08-Q2	OU2MW-20I	OU2MW-20I	OU2MW-20I2	OU2MW-20D
		Start Depth	65	65	65	65	65	4	4	13	13	35	65
		End Depth	70	70	70	70	70	9	9	23	23	45	70
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	07/31/13	07/31/13	10/18/13	01/24/14	05/07/14	04/29/14	04/29/14	08/01/13	04/29/14	04/30/14	04/28/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	**19**	**19**	**7**	**14**	**12**	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	**46**	**45**	**10**	**55**	**36**	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**350**	**350**	**120**	**560 D**	**270**	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	**415**	**414**	**137**	**629**	**318**	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-19D	DUP-03Q3	OU2MW-19D	OU2MW-19D	OU2MW-19D	OU2MW-20S	DUP-08-Q2	OU2MW-20I	OU2MW-20I	OU2MW-20I2	OU2MW-20D
		Start Depth	65	65	65	65	65	4	4	13	13	35	65
		End Depth	70	70	70	70	70	9	9	23	23	45	70
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	07/31/13	07/31/13	10/18/13	01/24/14	05/07/14	04/29/14	04/29/14	08/01/13	04/29/14	04/30/14	04/28/14
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	**5 J**	**5 J**	10 U	**3 J**	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	**89 J**	**73**	10 U	**48**	**46**	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	**8 J**	**8 J**	**3 J**	**6 J**	**5 J**	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**200 J**	**180 J**	10 U	**160 DJ**	**150 DJ**	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	**1600 J**	**890 J**	10 U	**920 D**	**1100 D**	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	**8 J**	**7 J**	10 U	**4 J**	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	**1911**	**1163**	**3**	**1141**	**1308**	ND	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	9.5 U	9.5 U	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	1.2 UJ	1.2 UJ	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	2.8 U	2.8 U	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	**50.4 J**	**50.8 J**	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	0.1 U	0.1 U	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	0.1 U	0.1 U	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	**13800**	**13800**	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	1.1 UJ	1 UJ	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	**17.1 J**	**16.3 J**	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-19D	DUP-03Q3	OU2MW-19D	OU2MW-19D	OU2MW-19D	OU2MW-20S	DUP-08-Q2	OU2MW-20I	OU2MW-20I	OU2MW-20I2	OU2MW-20D
			Start Depth	65	65	65	65	65	4	4	13	13	35	65
			End Depth	70	70	70	70	70	9	9	23	23	45	70
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	07/31/13	07/31/13	10/18/13	01/24/14	05/07/14	04/29/14	04/29/14	08/01/13	04/29/14	04/30/14	04/28/14
Analyte	**Units**	**NYS AWQS**												
Copper	µg/L	200	**67.3**	**67.6**	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	**574**	**505**	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	**12**	**10.4 J**	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	**4830 J**	**4760 J**	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	**329**	**324**	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	0.1 U	0.1 U	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	**25 J**	**25.1 J**	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	**4010 J**	**4300 J**	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	2.3 UJ	2.3 UJ	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	0.2 UJ	0.2 UJ	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	**56900**	**57900**	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	2.4 UJ	1.9 U	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	**2 J**	**1.9 J**	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	12.2 UJ	17.7 UJ	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	**57200**	**59400**	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	**2850**	**2840**	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	**3510**	**3520**	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	100 U	100 U	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	100 UJ	100 UJ	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	**3510**	**3520**	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	**70500**	**68800**	**47400**	**59600 D**	**45000**	--	--	--	--	--	--
Sulfide	µg/L	50*	2000 U	2000 U	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	50 U	50 U	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-21S	OU2MW-21I	DUP-07-Q2	OU2MW-21I2	OU2MW-22S	OU2MW-22I	OU2MW-22I	OU2MW-22I	OU2MW-22I2	OU2MW-22D	OU2MW-23S
		Start Depth	5	13	13	35	5	25	25	25	46	67	5
		End Depth	15	23	23	45	15	30	30	30	51	72	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/25/14	04/25/14	04/25/14	04/25/14	05/12/14	08/07/13	11/04/13	05/12/14	05/12/14	05/12/14	05/16/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	**8**	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	**2**	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	**10**	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-21S	OU2MW-21I	DUP-07-Q2	OU2MW-21I2	OU2MW-22S	OU2MW-22I	OU2MW-22I	OU2MW-22I	OU2MW-22I2	OU2MW-22D	OU2MW-23S
			Start Depth	5	13	13	35	5	25	25	25	46	67	5
			End Depth	15	23	23	45	15	30	30	30	51	72	15
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	04/25/14	04/25/14	04/25/14	04/25/14	05/12/14	08/07/13	11/04/13	05/12/14	05/12/14	05/12/14	05/16/14
Analyte	**Units**	**NYS AWQS**												
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17														
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	**3**	ND	ND	ND	ND
Total Metals	µg/L													
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-21S	OU2MW-21I	DUP-07-Q2	OU2MW-21I2	OU2MW-22S	OU2MW-22I	OU2MW-22I	OU2MW-22I	OU2MW-22I2	OU2MW-22D	OU2MW-23S
		Start Depth	5	13	13	35	5	25	25	25	46	67	5
		End Depth	15	23	23	45	15	30	30	30	51	72	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/25/14	04/25/14	04/25/14	04/25/14	05/12/14	08/07/13	11/04/13	05/12/14	05/12/14	05/12/14	05/16/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-23I	OU2MW-23I2	OU2MW-23I2	OU2MW-23I2	OU2MW-23I2	OU2MW-23D	OU2MW-23D	OU2MW-24S	OU2MW-24I	OU2MW-24I2	DUP-07 Q3
		Start Depth	25	45	45	45	45	65	65	5	25	45	45
		End Depth	30	50	50	50	50	70	70	15	30	50	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/16/14	08/07/13	11/04/13	03/11/14	05/16/14	08/07/13	05/16/14	05/14/14	05/14/14	08/07/13	08/07/13
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**33 J**	**37**
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**5 J**	**6**
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**14**	**15**
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**110**	**120**
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	**162**	**178**
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-23I	OU2MW-23I2	OU2MW-23I2	OU2MW-23I2	OU2MW-23I2	OU2MW-23D	OU2MW-23D	OU2MW-24S	OU2MW-24I	OU2MW-24I2	DUP-07 Q3
			Start Depth	25	45	45	45	45	65	65	5	25	45	45
			End Depth	30	50	50	50	50	70	70	15	30	50	50
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	05/16/14	08/07/13	11/04/13	03/11/14	05/16/14	08/07/13	05/16/14	05/14/14	05/14/14	08/07/13	08/07/13
Analyte	**Units**	**NYS AWQS**												
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**54**	**55**
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**69**	**79**
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	**1 J**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**2 J**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**12**	**12**
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1800**	**1700**
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**21**	**23**
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1959**	**1872**
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-23I	OU2MW-23I2	OU2MW-23I2	OU2MW-23I2	OU2MW-23I2	OU2MW-23D	OU2MW-23D	OU2MW-24S	OU2MW-24I	OU2MW-24I2	DUP-07 Q3
		Start Depth	25	45	45	45	45	65	65	5	25	45	45
		End Depth	30	50	50	50	50	70	70	15	30	50	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/16/14	08/07/13	11/04/13	03/11/14	05/16/14	08/07/13	05/16/14	05/14/14	05/14/14	08/07/13	08/07/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	**50400**	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-24I2	OU2MW-24I2	OU2MW-24I2	OU2MW-24D	OU2MW-24D	OU2MW-24D	OU2MW-25S	OU2MW-25I	DUP-06 Q3	OU2MW-25I	OU2MW-25I
		Start Depth	45	45	45	62	62	62	5	25	25	25	25
		End Depth	50	50	50	67	67	67	15	30	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	11/04/13	03/10/14	05/14/14	08/07/13	03/10/14	05/14/14	05/16/14	08/06/13	08/06/13	11/04/13	03/10/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	**11**	**23**	**17**	1 U	1 U	1 U	1 U	1 U	1 U	**6**	1 U
Toluene	µg/L	5	**2**	**6**	**1**	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U
Ethylbenzene	µg/L	5	**4**	**78**	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**89**	**360**	**47**	1 U	1 U	1 U	1 U	1 U	1 U	**2**	1 U
Total BTEX (ND=0)	µg/L	NE	**106**	**467**	**67**	ND	ND	ND	ND	ND	ND	**8**	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-24I2	OU2MW-24I2	OU2MW-24I2	OU2MW-24D	OU2MW-24D	OU2MW-24D	OU2MW-25S	OU2MW-25I	DUP-06 Q3	OU2MW-25I	OU2MW-25I
			Start Depth	45	45	45	62	62	62	5	25	25	25	25
			End Depth	50	50	50	67	67	67	15	30	30	30	30
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	11/04/13	03/10/14	05/14/14	08/07/13	03/10/14	05/14/14	05/16/14	08/06/13	08/06/13	11/04/13	03/10/14
Analyte	**Units**	**NYS AWQS**												
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	**11**	**39**	**19**	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U
Acenaphthylene	µg/L	NE	**61**	**150 J**	**14**	10 U	10 U	10 U	10 U	10 U	10 U	**13**	10 U
Anthracene	µg/L	50*	**2 J**	**5 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	**2 J**	**5 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**2 J**	**8 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	**860 D**	**2900**	**280 D**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	**23**	**23**	**7 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	**961**	**3130**	**322**	ND	ND	ND	ND	ND	ND	**16**	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-24I2	OU2MW-24I2	OU2MW-24I2	OU2MW-24D	OU2MW-24D	OU2MW-24D	OU2MW-25S	OU2MW-25I	DUP-06 Q3	OU2MW-25I	OU2MW-25I
		Start Depth	45	45	45	62	62	62	5	25	25	25	25
		End Depth	50	50	50	67	67	67	15	30	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	11/04/13	03/10/14	05/14/14	08/07/13	03/10/14	05/14/14	05/16/14	08/06/13	08/06/13	11/04/13	03/10/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	**62100**	**38700**	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-25I	OU2MW-25I2	OU2MW-25D	OU2MW-26S	OU2MW-26I	OU2MW-26I2	OU2MW-26D	OU2MW-26D	OU2MW-26D	OU2MW-26D	OU2MW-27S
		Start Depth	25	45	70	6	13	35	60	60	60	60	5
		End Depth	30	50	75	11	23	45	70	70	70	70	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/14/14	05/14/14	05/16/14	04/25/14	04/25/14	04/25/14	08/14/13	11/11/13	02/20/14	04/25/14	06/20/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	**4**	**1**	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	**4**	**1**	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-25I	OU2MW-25I2	OU2MW-25D	OU2MW-26S	OU2MW-26I	OU2MW-26I2	OU2MW-26D	OU2MW-26D	OU2MW-26D	OU2MW-26D	OU2MW-27S
			Start Depth	25	45	70	6	13	35	60	60	60	60	5
			End Depth	30	50	75	11	23	45	70	70	70	70	15
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	05/14/14	05/14/14	05/16/14	04/25/14	04/25/14	04/25/14	08/14/13	11/11/13	02/20/14	04/25/14	06/20/14
Analyte	**Units**	**NYS AWQS**												
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	**1**	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-25I	OU2MW-25I2	OU2MW-25D	OU2MW-26S	OU2MW-26I	OU2MW-26I2	OU2MW-26D	OU2MW-26D	OU2MW-26D	OU2MW-26D	OU2MW-27S
			Start Depth	25	45	70	6	13	35	60	60	60	60	5
			End Depth	30	50	75	11	23	45	70	70	70	70	15
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	05/14/14	05/14/14	05/16/14	04/25/14	04/25/14	04/25/14	08/14/13	11/11/13	02/20/14	04/25/14	06/20/14
Analyte	**Units**	**NYS AWQS**												
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-27I	OU2MW-27I2	OU2MW-27D	OU2MW-27D	OU2MW-27D	OU2MW-27D	DUP-25 Q2	OU2MW-28S	DUP-05-Q2	OU2MW-28I	OU2MW-28I2
		Start Depth	25	45	65	65	65	65	65	5	5	28	40
		End Depth	30	50	70	70	70	70	70	15	15	33	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	06/20/14	06/20/14	08/15/13	12/11/13	03/18/14	06/20/14	6/20/2014	04/22/14	4/22/2014	04/22/14	08/12/13
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-27I	OU2MW-27I2	OU2MW-27D	OU2MW-27D	OU2MW-27D	OU2MW-27D	DUP-25 Q2	OU2MW-28S	DUP-05-Q2	OU2MW-28I	OU2MW-28I2
		Start Depth	25	45	65	65	65	65	65	5	5	28	40
		End Depth	30	50	70	70	70	70	70	15	15	33	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	06/20/14	06/20/14	08/15/13	12/11/13	03/18/14	06/20/14	6/20/2014	04/22/14	4/22/2014	04/22/14	08/12/13
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2**	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-27I	OU2MW-27I2	OU2MW-27D	OU2MW-27D	OU2MW-27D	OU2MW-27D	DUP-25 Q2	OU2MW-28S	DUP-05-Q2	OU2MW-28I	OU2MW-28I2
		Start Depth	25	45	65	65	65	65	65	5	5	28	40
		End Depth	30	50	70	70	70	70	70	15	15	33	45
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	06/20/14	06/20/14	08/15/13	12/11/13	03/18/14	06/20/14	6/20/2014	04/22/14	4/22/2014	04/22/14	08/12/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	**102000 D**	**65400 D**	**72400**	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-28I2	OU2MW-28I2	OU2MW-28I2	OU2MW-29I	OU2MW-29I	OU2MW-29I	OU2MW-29I	OU2MW-29I2	OU2MW-29I2	OU2MW-29I2	OU2MW-29I2
		Start Depth	40	40	40	18	18	18	18	30	30	30	30
		End Depth	45	45	45	23	23	23	23	35	35	35	35
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	10/25/13	02/18/14	04/22/14	08/12/13	10/25/13	02/18/14	04/22/14	08/12/13	10/25/13	02/18/14	04/22/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-28I2	OU2MW-28I2	OU2MW-28I2	OU2MW-29I	OU2MW-29I	OU2MW-29I	OU2MW-29I	OU2MW-29I2	OU2MW-29I2	OU2MW-29I2	OU2MW-29I2
		Start Depth	40	40	40	18	18	18	18	30	30	30	30
		End Depth	45	45	45	23	23	23	23	35	35	35	35
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	10/25/13	02/18/14	04/22/14	08/12/13	10/25/13	02/18/14	04/22/14	08/12/13	10/25/13	02/18/14	04/22/14
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**5 J**	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**9 J**	10 U	**1 J**	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**5 J**	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**6 J**	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**8 J**	10 U	**1 J**	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	**13**	10 U	**2 J**	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	**4 J**	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**9 J**	10 U	**1 J**	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	ND	ND	**10**	ND	ND	**67**	ND	**5**	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-28I2	OU2MW-28I2	OU2MW-28I2	OU2MW-29I	OU2MW-29I	OU2MW-29I	OU2MW-29I	OU2MW-29I2	OU2MW-29I2	OU2MW-29I2	OU2MW-29I2
		Start Depth	40	40	40	18	18	18	18	30	30	30	30
		End Depth	45	45	45	23	23	23	23	35	35	35	35
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	10/25/13	02/18/14	04/22/14	08/12/13	10/25/13	02/18/14	04/22/14	08/12/13	10/25/13	02/18/14	04/22/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	**119000 D**	**66900 D**	**58200 D**	**41000**	**37700**
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-29D	OU2MW-29D	OU2MW-29D	OU2MW-29D	OU2MW-30S	OU2MW-30S	OU2MW-30S	OU2MW-30S	OU2MW-30I	OU2MW-30I	OU2MW-30I
		Start Depth	45	45	45	45	5	5	5	5	25	25	25
		End Depth	50	50	50	50	15	15	15	15	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/12/13	10/25/13	02/18/14	04/22/14	08/12/13	11/01/13	02/17/14	04/21/14	08/12/13	11/01/13	02/17/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	**1**	**1**	**1**	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**9**	**11**	**22**	**18**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	**10**	**12**	**23**	**19**	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-29D	OU2MW-29D	OU2MW-29D	OU2MW-29D	OU2MW-30S	OU2MW-30S	OU2MW-30S	OU2MW-30S	OU2MW-30I	OU2MW-30I	OU2MW-30I
		Start Depth	45	45	45	45	5	5	5	5	25	25	25
		End Depth	50	50	50	50	15	15	15	15	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/12/13	10/25/13	02/18/14	04/22/14	08/12/13	11/01/13	02/17/14	04/21/14	08/12/13	11/01/13	02/17/14
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	**4 J**	**5 J**	**3 J**	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	**18**	**21**	**19**	**19**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	**1 J**	**1 J**	**1 J**	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	**38**	**89 D**	**89**	**49**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	**9 J**	**12**	**6 J**	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	**70**	**128**	**118**	**76**	ND	ND	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-29D	OU2MW-29D	OU2MW-29D	OU2MW-29D	OU2MW-30S	OU2MW-30S	OU2MW-30S	OU2MW-30S	OU2MW-30I	OU2MW-30I	OU2MW-30I
		Start Depth	45	45	45	45	5	5	5	5	25	25	25
		End Depth	50	50	50	50	15	15	15	15	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/12/13	10/25/13	02/18/14	04/22/14	08/12/13	11/01/13	02/17/14	04/21/14	08/12/13	11/01/13	02/17/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	**100000 D**	**136000 D**	**123000**	**181000 D**	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-30I	OU2MW-30I2	OU2MW-30I2	OU2MW-30I2	DUP-05 Q1	OU2MW-30I2	OU2MW-30I3	OU2MW-30I3	OU2MW-30I3	OU2MW-30I3	OU2MW-30D
		Start Depth	25	30	30	30	30	30	45	45	45	45	50
		End Depth	30	35	35	35	35	35	50	50	50	50	55
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/21/14	08/12/13	11/01/13	02/17/14	02/17/14	04/21/14	08/12/13	11/01/13	02/17/14	04/21/14	08/12/13
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-30I	OU2MW-30I2	OU2MW-30I2	OU2MW-30I2	DUP-05 Q1	OU2MW-30I2	OU2MW-30I3	OU2MW-30I3	OU2MW-30I3	OU2MW-30I3	OU2MW-30D
			Start Depth	25	30	30	30	30	30	45	45	45	45	50
			End Depth	30	35	35	35	35	35	50	50	50	50	55
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	04/21/14	08/12/13	11/01/13	02/17/14	02/17/14	04/21/14	08/12/13	11/01/13	02/17/14	04/21/14	08/12/13
Analyte	**Units**	**NYS AWQS**												
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-30I	OU2MW-30I2	OU2MW-30I2	OU2MW-30I2	DUP-05 Q1	OU2MW-30I2	OU2MW-30I3	OU2MW-30I3	OU2MW-30I3	OU2MW-30I3	OU2MW-30D
		Start Depth	25	30	30	30	30	30	45	45	45	45	50
		End Depth	30	35	35	35	35	35	50	50	50	50	55
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/21/14	08/12/13	11/01/13	02/17/14	02/17/14	04/21/14	08/12/13	11/01/13	02/17/14	04/21/14	08/12/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	**28100**	**30600**	**36300**	**30700**	**67400 D**
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-30D	OU2MW-30D	OU2MW-30D	OU2MW-30D2	OU2MW-30D2	OU2MW-30D2	OU2MW-30D2	OU2MW-31I	OU2MW-31I2	OU2MW-32S	OU2MW-32I
		Start Depth	50	50	50	60	60	60	60	18	30	5	20
		End Depth	55	55	55	65	65	65	65	23	35	15	25
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	11/01/13	02/17/14	04/21/14	08/12/13	11/01/13	02/17/14	04/21/14	04/21/14	04/21/14	04/21/14	04/21/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	**3**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	**9**	**2**	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	**12**	**2**	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-30D	OU2MW-30D	OU2MW-30D	OU2MW-30D2	OU2MW-30D2	OU2MW-30D2	OU2MW-30D2	OU2MW-31I	OU2MW-31I2	OU2MW-32S	OU2MW-32I
		Start Depth	50	50	50	60	60	60	60	18	30	5	20
		End Depth	55	55	55	65	65	65	65	23	35	15	25
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	11/01/13	02/17/14	04/21/14	08/12/13	11/01/13	02/17/14	04/21/14	04/21/14	04/21/14	04/21/14	04/21/14
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	**4 J**	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	**6 J**	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	**4**	**10**	ND	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-30D	OU2MW-30D	OU2MW-30D	OU2MW-30D2	OU2MW-30D2	OU2MW-30D2	OU2MW-30D2	OU2MW-31I	OU2MW-31I2	OU2MW-32S	OU2MW-32I
		Start Depth	50	50	50	60	60	60	60	18	30	5	20
		End Depth	55	55	55	65	65	65	65	23	35	15	25
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	11/01/13	02/17/14	04/21/14	08/12/13	11/01/13	02/17/14	04/21/14	04/21/14	04/21/14	04/21/14	04/21/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	**71200 D**	**67900**	**11100**	**273000 D**	**377000 D**	**411000**	**23900**	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-32I2	OU2MW-32I2	OU2MW-32I2	OU2MW-32I2	OU2MW-32D	OU2MW-32D	OU2MW-32D	OU2MW-32D	OU2MW-33S	OU2MW-33I	OU2MW-33I2
			Start Depth	30	30	30	30	40	40	40	40	5	25	35
			End Depth	35	35	35	35	45	45	45	45	15	30	40
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	08/14/13	10/25/13	02/19/14	04/21/14	08/14/13	10/25/13	02/19/14	04/21/14	04/23/14	04/23/14	04/23/14
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	1 U	**31**	1 U	1 U	**150**	**50**	**110**	**39**	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	**7**	**5**	**2**	**3**	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	**11**	**1**	1 U	**2**	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	**24**	1 U	1 U	**120**	**58**	**62**	**61**	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	**55**	ND	ND	**288**	**114**	**174**	**105**	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-32I2	OU2MW-32I2	OU2MW-32I2	OU2MW-32I2	OU2MW-32D	OU2MW-32D	OU2MW-32D	OU2MW-32D	OU2MW-33S	OU2MW-33I	OU2MW-33I2
		Start Depth	30	30	30	30	40	40	40	40	5	25	35
		End Depth	35	35	35	35	45	45	45	45	15	30	40
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/14/13	10/25/13	02/19/14	04/21/14	08/14/13	10/25/13	02/19/14	04/21/14	04/23/14	04/23/14	04/23/14
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	**4 J**	10 U	10 U	**22**	**11**	**10**	**10**	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	**27**	10 U	10 U	**200 DJ**	**71**	**45**	**33**	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	**23**	**7 J**	**4 J**	**4 J**	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	**11**	**3 J**	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	**16**	10 U	10 U	**1300 D**	**650 D**	**220**	**390 D**	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	**11**	**10**	**5 J**	**3 J**	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	**47**	ND	ND	**1572**	**752**	**284**	**440**	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-32I2	OU2MW-32I2	OU2MW-32I2	OU2MW-32I2	OU2MW-32D	OU2MW-32D	OU2MW-32D	OU2MW-32D	OU2MW-33S	OU2MW-33I	OU2MW-33I2
		Start Depth	30	30	30	30	40	40	40	40	5	25	35
		End Depth	35	35	35	35	45	45	45	45	15	30	40
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/14/13	10/25/13	02/19/14	04/21/14	08/14/13	10/25/13	02/19/14	04/21/14	04/23/14	04/23/14	04/23/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-33D	OU2MW-33D	OU2MW-34S	OU2MW-34I	OU2MW-34I	OU2MW-34I	OU2MW-34I	OU2MW-34I2	OU2MW-34I2	OU2MW-34I2	OU2MW-34I2
			Start Depth	50	50	5	25	25	25	25	45	45	45	45
			End Depth	55	55	15	30	30	30	30	50	50	50	50
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	11/11/13	04/23/14	06/05/14	08/13/13	11/05/13	03/12/14	06/05/14	08/13/13	11/05/13	03/12/14	06/05/14
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	**28**	**42**	1 U	1 U	1 U	1 U	1 U	**27**	**88**	**5**	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**12**	1 U	1 U	1 U	1 U	1 U	1 U	**8**	**14**	**1**	1 U
Total BTEX (ND=0)	µg/L	NE	**40**	**42**	ND	ND	ND	ND	ND	**35**	**102**	**6**	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-33D	OU2MW-33D	OU2MW-34S	OU2MW-34I	OU2MW-34I	OU2MW-34I	OU2MW-34I	OU2MW-34I2	OU2MW-34I2	OU2MW-34I2	OU2MW-34I2
			Start Depth	50	50	5	25	25	25	25	45	45	45	45
			End Depth	55	55	15	30	30	30	30	50	50	50	50
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	11/11/13	04/23/14	06/05/14	08/13/13	11/05/13	03/12/14	06/05/14	08/13/13	11/05/13	03/12/14	06/05/14
Analyte	**Units**	**NYS AWQS**												
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**6 J**	**46**	**6 J**	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**14**	**58**	**6 J**	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	**6 J**	**1 J**	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	**15**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	**7 J**	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	**1 J**	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	**15**	**2**	ND	ND	ND	ND	ND	**24**	**121**	**14**	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-33D	OU2MW-33D	OU2MW-34S	OU2MW-34I	OU2MW-34I	OU2MW-34I	OU2MW-34I	OU2MW-34I2	OU2MW-34I2	OU2MW-34I2	OU2MW-34I2
		Start Depth	50	50	5	25	25	25	25	45	45	45	45
		End Depth	55	55	15	30	30	30	30	50	50	50	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	11/11/13	04/23/14	06/05/14	08/13/13	11/05/13	03/12/14	06/05/14	08/13/13	11/05/13	03/12/14	06/05/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-35S	OU2MW-35I	OU2MW-35I2	OU2MW-35D	DUP-05 Q3	OU2MW-35D	OU2MW-35D	OU2MW-35D	OU2MW-36S	OU2MW-36I	OU2MW-36I2
		Start Depth	5	25	45	57	57	57	57	57	5	25	45
		End Depth	15	30	50	62	62	62	62	62	15	30	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/13/14	05/13/14	05/13/14	08/05/13	08/05/13	11/04/13	03/11/14	05/13/14	05/13/14	05/13/14	05/13/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U			1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	**4**	**4**			1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	**2**	**2**			1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	**24**	**25**			1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	**30**	**31**			ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-35S	OU2MW-35I	OU2MW-35I2	OU2MW-35D	DUP-05 Q3	OU2MW-35D	OU2MW-35D	OU2MW-35D	OU2MW-36S	OU2MW-36I	OU2MW-36I2
		Start Depth	5	25	45	57	57	57	57	57	5	25	45
		End Depth	15	30	50	62	62	62	62	62	15	30	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/13/14	05/13/14	05/13/14	08/05/13	08/05/13	11/04/13	03/11/14	05/13/14	05/13/14	05/13/14	05/13/14
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	**2 J**	**3 J**			10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	**14**	**15**			10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U			10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	ND	**16**	**18**			ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	**190 B**	**270**	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	**6.1 B**	**2.5 B**	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	2.8 U	2.8 U	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	**30.7 B**	**30.4 B**	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	0.1 U	0.1 U	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	0.1 U	0.1 U	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	**19700**	**19400**	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	**1.8 B**	**1.8 B**	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	**5.2 B**	**5.3 B**	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-35S	OU2MW-35I	OU2MW-35I2	OU2MW-35D	DUP-05 Q3	OU2MW-35D	OU2MW-35D	OU2MW-35D	OU2MW-36S	OU2MW-36I	OU2MW-36I2
		Start Depth	5	25	45	57	57	57	57	57	5	25	45
		End Depth	15	30	50	62	62	62	62	62	15	30	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/13/14	05/13/14	05/13/14	08/05/13	08/05/13	11/04/13	03/11/14	05/13/14	05/13/14	05/13/14	05/13/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	**2.6 B**	**3.1 B**	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	**206**	**324**	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	**7.7**	**8.3**	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	**5250**	**5130**	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	**528**	**521**	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	**0.15 BN**	**0.15 BN**	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	**27 B**	**26.6 B**	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	**2940 BE**	**2780 BE**	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	2.3 U	2.3 U	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	0.2 U	**0.24 B**	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	**21300**	**21400**	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	1.9 U	1.9 U	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	0.3 U	0.3 U	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	**31.9**	**29.8**	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	**28200**	**26400**	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	**760**	**780**	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	**1100**	**1210**	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	1000 U	1000 U	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	**220**	**220**	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	**1320**	**1430**	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	**114000 D**	**79200 D**	**68700 D**	**101000**	--	--	--	--
Sulfide	µg/L	50*	--	--	--	2000 U	2000 U	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	50 U	50 U	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-36D	OU2MW-36D	OU2MW-36D	OU2MW-37S	OU2MW-37I	OU2MW-37I2	OU2MW-37D	OU2MW-37D	OU2MW-38S	OU2MW-38I	OU2MW-38I2
		Start Depth	61	61	61	5	25	45	67	67	5	25	46
		End Depth	66	66	66	15	30	50	72	72	15	30	51
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/06/13	03/11/14	05/14/14	05/12/14	05/12/14	05/12/14	08/07/13	05/12/14	05/12/14	05/12/14	08/05/13
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-36D	OU2MW-36D	OU2MW-36D	OU2MW-37S	OU2MW-37I	OU2MW-37I2	OU2MW-37D	OU2MW-37D	OU2MW-38S	OU2MW-38I	OU2MW-38I2
		Start Depth	61	61	61	5	25	45	67	67	5	25	46
		End Depth	66	66	66	15	30	50	72	72	15	30	51
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/06/13	03/11/14	05/14/14	05/12/14	05/12/14	05/12/14	08/07/13	05/12/14	05/12/14	05/12/14	08/05/13
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U		10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	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)	µg/L	NE	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-36D	OU2MW-36D	OU2MW-36D	OU2MW-37S	OU2MW-37I	OU2MW-37I2	OU2MW-37D	OU2MW-37D	OU2MW-38S	OU2MW-38I	OU2MW-38I2
		Start Depth	61	61	61	5	25	45	67	67	5	25	46
		End Depth	66	66	66	15	30	50	72	72	15	30	51
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/06/13	03/11/14	05/14/14	05/12/14	05/12/14	05/12/14	08/07/13	05/12/14	05/12/14	05/12/14	08/05/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	**38000**	**31700**	**31800**	--	--	--	**78900**	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-38I2	OU2MW-38I2	OU2MW-38D	OU2MW-38D	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39I	OU2MW-39I	OU2MW-39I
		Start Depth	46	46	56	56	5	5	5	5	25	25	25
		End Depth	51	51	61	61	15	15	15	15	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	11/04/13	05/12/14	08/05/13	05/12/14	08/06/13	10/16/13	02/24/14	04/24/14	08/06/13	10/16/13	02/24/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-38I2	OU2MW-38I2	OU2MW-38D	OU2MW-38D	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39I	OU2MW-39I	OU2MW-39I
			Start Depth	46	46	56	56	5	5	5	5	25	25	25
			End Depth	51	51	61	61	15	15	15	15	30	30	30
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	11/04/13	05/12/14	08/05/13	05/12/14	08/06/13	10/16/13	02/24/14	04/24/14	08/06/13	10/16/13	02/24/14
Analyte	**Units**	**NYS AWQS**												
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	**1 J**	**1 J**	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	**1**	ND	ND	ND	**1**	**1**	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-38I2	OU2MW-38I2	OU2MW-38D	OU2MW-38D	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39S	OU2MW-39I	OU2MW-39I	OU2MW-39I
		Start Depth	46	46	56	56	5	5	5	5	25	25	25
		End Depth	51	51	61	61	15	15	15	15	30	30	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	11/04/13	05/12/14	08/05/13	05/12/14	08/06/13	10/16/13	02/24/14	04/24/14	08/06/13	10/16/13	02/24/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-39I	OU2MW-39I2	OU2MW-39I2	OU2MW-39I2	OU2MW-39I2	OU2MW-39D	OU2MW-39D	OU2MW-39D	OU2MW-39D	OU2MW-40S	OU2MW-40S
		Start Depth	25	45	45	45	45	70	70	70	70	5	5
		End Depth	30	50	50	50	50	75	75	75	75	15	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/24/14	08/06/13	10/16/13	02/24/14	04/24/14	08/06/13	10/16/13	02/24/14	04/24/14	08/14/13	11/11/13
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	**21**	**19**	**6**	**9**	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	**2**	**4**	1 U	**1**	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	**2**	**18**	**2**	**6**	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	**61**	**74**	**22**	**47**	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	**86**	**115**	**30**	**63**	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-39I	OU2MW-39I2	OU2MW-39I2	OU2MW-39I2	OU2MW-39I2	OU2MW-39D	OU2MW-39D	OU2MW-39D	OU2MW-39D	OU2MW-40S	OU2MW-40S
		Start Depth	25	45	45	45	45	70	70	70	70	5	5
		End Depth	30	50	50	50	50	75	75	75	75	15	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/24/14	08/06/13	10/16/13	02/24/14	04/24/14	08/06/13	10/16/13	02/24/14	04/24/14	08/14/13	11/11/13
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	**59**	**120 DJ**	**19**	**21**	10 U	10 U	10 U	10 U	**2 J**	10 U
Acenaphthylene	µg/L	NE	10 U	**39**	**29**	**6 J**	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	**5 J**	**6 J**	**1 J**	10 U	10 U	10 U	10 U	10 U	**100 D**	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**60 D**	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**240 D**	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**73**	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**78 D**	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**130 D**	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**170 D**	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**24**	10 U
Fluoranthene	µg/L	50*	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	**250 D**	10 U
Fluorene	µg/L	50*	10 U	**2 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**77**	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	**5 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	**740 D**	**1800 D**	**190**	**47**	**1 J**	**8 J**	10 U	**1 J**	**1 J**	10 U
Phenanthrene	µg/L	50*	10 U	**32**	**39**	**7 J**	**5 J**	10 U	10 U	10 U	10 U	**72**	10 U
Pyrene	µg/L	50*	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	**210 D**	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	**877**	**2004**	**223**	**76**	**1**	**8**	ND	**1**	**1490**	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-39I	OU2MW-39I2	OU2MW-39I2	OU2MW-39I2	OU2MW-39I2	OU2MW-39D	OU2MW-39D	OU2MW-39D	OU2MW-39D	OU2MW-40S	OU2MW-40S
		Start Depth	25	45	45	45	45	70	70	70	70	5	5
		End Depth	30	50	50	50	50	75	75	75	75	15	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	04/24/14	08/06/13	10/16/13	02/24/14	04/24/14	08/06/13	10/16/13	02/24/14	04/24/14	08/14/13	11/11/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-40S	OU2MW-40S	OU2MW-40I	OU2MW-41S	OU2MW-41I	OU2MW-41I	OU2MW-41I	OU2MW-41I	OU2MW-42S	OU2MW-42I	OU2MW-42I2
		Start Depth	5	5	18	5	18	18	18	18	5	25	45
		End Depth	15	15	23	15	23	23	23	23	15	30	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	02/19/14	04/24/14	04/23/14	04/23/14	08/14/13	11/11/13	02/19/14	04/23/14	05/21/14	05/21/14	11/05/13
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-40S	OU2MW-40S	OU2MW-40I	OU2MW-41S	OU2MW-41I	OU2MW-41I	OU2MW-41I	OU2MW-41I	OU2MW-42S	OU2MW-42I	OU2MW-42I2
		Start Depth	5	5	18	5	18	18	18	18	5	25	45
		End Depth	15	15	23	15	23	23	23	23	15	30	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	02/19/14	04/24/14	04/23/14	04/23/14	08/14/13	11/11/13	02/19/14	04/23/14	05/21/14	05/21/14	11/05/13
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	**6 J**	**1 J**	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	**3 J**	**3 J**	10 U	10 U	10 U	**16**	**3 J**	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	**1 J**	**1 J**	10 U	10 U	10 U	**4 J**	**2 J**	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	**1 J**	**2 J**	10 U	10 U	10 U	**7 J**	**2 J**	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	**1 J**	10 U	10 U	10 U	**8 J**	**2 J**	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	**4 J**	**2 J**	10 U	10 U	10 U	**12**	**3 J**	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	**11**	**2 J**	10 U	10 U	10 U	**19**	**6 J**	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	**1 J**	10 U	10 U	10 U	**6 J**	**1 J**	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**15**
Phenanthrene	µg/L	50*	**7 J**	10 U	10 U	10 U	10 U	**8 J**	**3 J**	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	**6 J**	**2 J**	10 U	10 U	10 U	**14**	**4 J**	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	**33**	**14**	ND	ND	ND	**102**	**27**	ND	ND	ND	**22**
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-40S	OU2MW-40S	OU2MW-40I	OU2MW-41S	OU2MW-41I	OU2MW-41I	OU2MW-41I	OU2MW-41I	OU2MW-42S	OU2MW-42I	OU2MW-42I2
		Start Depth	5	5	18	5	18	18	18	18	5	25	45
		End Depth	15	15	23	15	23	23	23	23	15	30	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	02/19/14	04/24/14	04/23/14	04/23/14	08/14/13	11/11/13	02/19/14	04/23/14	05/21/14	05/21/14	11/05/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-42I2	OU2MW-42I2	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-43S	OU2MW-43I	OU2MW-43I2	OU2MW-43I2	DUP-04 Q4
		Start Depth	45	45	60	60	60	60	5	25	45	45	45
		End Depth	50	50	65	65	65	65	15	30	50	50	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	03/11/14	05/21/14	08/05/13	11/05/13	03/11/14	05/21/14	05/16/14	05/16/14	08/14/13	11/05/13	11/05/13
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	**1**	**2**
Toluene	µg/L	5	**1**	1 U	**250 D**	**130**	**220**	**160**	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	**87**	**89**	**170**	**110**	1 U	1 U	**2**	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**8**	1 U	**1300 D**	**1000 D**	**1900**	**1200 D**	1 U	1 U	**8**	**3**	**3**
Total BTEX (ND=0)	µg/L	NE	**9**	ND	**1637**	**1219**	**2290**	**1470**	ND	ND	**12**	**4**	**5**
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-42I2	OU2MW-42I2	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-43S	OU2MW-43I	OU2MW-43I2	OU2MW-43I2	DUP-04 Q4
		Start Depth	45	45	60	60	60	60	5	25	45	45	45
		End Depth	50	50	65	65	65	65	15	30	50	50	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	03/11/14	05/21/14	08/05/13	11/05/13	03/11/14	05/21/14	05/16/14	05/16/14	08/14/13	11/05/13	11/05/13
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	**13**	**14**	**18**	**12**	10 U	10 U	**18**	**14**	**13**
Acenaphthylene	µg/L	NE	**7 J**	10 U	**100 DJ**	**120 DJ**	**140 J**	**130 DJ**	10 U	10 U	**18**	**11**	**11**
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	**1 J**	**1 J**	**1 J**	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	**1 J**	10 U	**11**	**20**	**24**	**18**	10 U	10 U	**6 J**	**4 J**	**4 J**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**3 J**	10 U	**370 DJ**	**440 DJ**	**450 J**	**370 DJ**	10 U	10 U	**13**	**4 J**	**4 J**
Naphthalene	µg/L	10*	**22**	10 U	**2400 D**	**2900 D**	**3300**	**2900 D**	10 U	10 U	**540 D**	**380 D**	**330 D**
Phenanthrene	µg/L	50*	10 U	10 U	**7 J**	**9 J**	**15**	**13**	10 U	10 U	**6 J**	**4 J**	**4 J**
Pyrene	µg/L	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) (ND=0)	µg/L	NE	**33**	ND	**2901**	**3504**	**3948**	**3444**	ND	ND	**602**	**417**	**366**
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	**3440**	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	1.2 U	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	2.8 U	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	**15 B**	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	**0.6 B**	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	0.1 U	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	**28500**	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	**4.4 B**	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	**15.3 B**	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-42I2	OU2MW-42I2	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-42D	OU2MW-43S	OU2MW-43I	OU2MW-43I2	OU2MW-43I2	DUP-04 Q4
		Start Depth	45	45	60	60	60	60	5	25	45	45	45
		End Depth	50	50	65	65	65	65	15	30	50	50	50
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	03/11/14	05/21/14	08/05/13	11/05/13	03/11/14	05/21/14	05/16/14	05/16/14	08/14/13	11/05/13	11/05/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	**9 B**	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	**8410**	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	**13.6**	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	**9900**	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	**1360**	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	0.1 UN	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	**51.2**	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	**5230 E**	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	2.3 U	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	**0.26 B**	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	**70200**	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	**3.5 B**	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	0.3 U	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	**27.6**	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	**102000**	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	**2130**	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	**3400 D**	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	1000 U	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	100 U	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	**3400**	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	**262000 D**	**384000 D**	**463000**	**34500**	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-43I2	OU2MW-43I2	OU2MW-43D	OU2MW-43D	OU2MW-43D	OU2MW-43D	OU2MW-44S	OU2MW-44I	OU2MW-44I2	OU2MW-44D	OU2MW-45S
		Start Depth	45	45	65	65	65	65	5	25	45	65	5
		End Depth	50	50	70	70	70	70	15	30	50	70	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	03/05/14	05/16/14	08/14/13	11/05/13	03/05/14	05/16/14	05/16/14	05/16/14	05/16/14	05/16/14	05/15/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	**2**	**2**	**3**	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	**19**	**15**	**36**	**16**	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	**1**	1 U	**62**	**57**	**97**	**47**	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**7**	1 U	**390**	**410**	**530**	**310**	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	**8**	ND	**471**	**484**	**665**	**376**	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-43I2	OU2MW-43I2	OU2MW-43D	OU2MW-43D	OU2MW-43D	OU2MW-43D	OU2MW-44S	OU2MW-44I	OU2MW-44I2	OU2MW-44D	OU2MW-45S
			Start Depth	45	45	65	65	65	65	5	25	45	65	5
			End Depth	50	50	70	70	70	70	15	30	50	70	15
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	03/05/14	05/16/14	08/14/13	11/05/13	03/05/14	05/16/14	05/16/14	05/16/14	05/16/14	05/16/14	05/15/14
Analyte	**Units**	**NYS AWQS**												
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17														
Acenaphthene	µg/L	20*	**6 J**	10 U	**7 J**	**8 J**	**11**	**6 J**	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	**19**	10 U	**51**	**110 DJ**	**80 J**	**100 DJ**	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	**2 J**	**2 J**	**3 J**	**2 J**	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	1000 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	1000 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	1000 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	1000 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	1000 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	**4 J**	10 U	**4 J**	**8 J**	**13**	**10**	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	1000 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**19**	10 U	**450 DJ**	**240 DJ**	**310 J**	**260 DJ**	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	**120**	**5 J**	**4400 D**	**1900 D**	**2600**	**2000 D**	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	**2 J**	10 U	**13**	**18**	**25**	**15**	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	**1 J**	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	**170**	**5**	**4928**	**2286**	**3044**	**2393**	ND	ND	ND	ND	ND
Total Metals	µg/L													
Aluminum	µg/L	NE	--	--	**1090**	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	1.2 U	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	2.8 U	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	**27.5 B**	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	**0.3 B**	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	0.1 U	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	**27000**	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	**5.2 B**	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	**16.2 B**	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-43I2	OU2MW-43I2	OU2MW-43D	OU2MW-43D	OU2MW-43D	OU2MW-43D	OU2MW-44S	OU2MW-44I	OU2MW-44I2	OU2MW-44D	OU2MW-45S
			Start Depth	45	45	65	65	65	65	5	25	45	65	5
			End Depth	50	50	70	70	70	70	15	30	50	70	15
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	03/05/14	05/16/14	08/14/13	11/05/13	03/05/14	05/16/14	05/16/14	05/16/14	05/16/14	05/16/14	05/15/14
Analyte	**Units**	**NYS AWQS**												
Copper	µg/L	200	--	--	**12.7 B**	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	**19500**	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	1 U	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	**10100**	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	**1120**	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	**0.11 BN**	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	**40.2**	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	**5110 E**	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	2.3 U	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	0.2 U	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	**79600**	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	1.9 U	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	**13.6 B**	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	**51.8**	--	--	--	--	--	--	--	--
Other														
Carbon dioxide	µg/L	NE	--	--	**65100**	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	**5290 D**	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	**5930 D**	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	2000 U	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	100 U	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	**5930**	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	**231000 D**	**223000 D**	**267000**	**174000 D**	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-45I	OU2MW-45I2	OU2MW-45D	OU2MW-46S	OU2MW-46I	OU2MW-46I2	OU2MW-46I2	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S
		Start Depth	20	40	55	5	20	40	40	5	5	5	5
		End Depth	25	45	60	15	25	45	45	15	15	15	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/15/14	05/15/14	05/15/14	05/15/14	05/15/14	08/14/13	05/15/14	08/13/13	10/15/13	02/20/14	04/23/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	**3**	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	**3**	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-45I	OU2MW-45I2	OU2MW-45D	OU2MW-46S	OU2MW-46I	OU2MW-46I2	OU2MW-46I2	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S
			Start Depth	20	40	55	5	20	40	40	5	5	5	5
			End Depth	25	45	60	15	25	45	45	15	15	15	15
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	05/15/14	05/15/14	05/15/14	05/15/14	05/15/14	08/14/13	05/15/14	08/13/13	10/15/13	02/20/14	04/23/14
Analyte	**Units**	**NYS AWQS**												
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	**2**	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-45I	OU2MW-45I2	OU2MW-45D	OU2MW-46S	OU2MW-46I	OU2MW-46I2	OU2MW-46I2	OU2MW-47S	OU2MW-47S	OU2MW-47S	OU2MW-47S
		Start Depth	20	40	55	5	20	40	40	5	5	5	5
		End Depth	25	45	60	15	25	45	45	15	15	15	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/15/14	05/15/14	05/15/14	05/15/14	05/15/14	08/14/13	05/15/14	08/13/13	10/15/13	02/20/14	04/23/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	**16500**	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-47I	OU2MW-47I	OU2MW-47I	DUP-06Q1CB	OU2MW-47I	OU2MW-47I2	OU2MW-47I2	DUP-01Q4CB	OU2MW-47I2	OU2MW-47I2	OU2MW-47D
		Start Depth	20	20	20	20	20	40	40	40	40	40	60
		End Depth	25	25	25	25	25	45	45	45	45	45	65
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/13/13	10/15/13	02/20/14	02/20/14	04/23/14	08/13/13	10/15/13	10/15/13	02/20/14	04/23/14	08/13/13
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-47I	OU2MW-47I	OU2MW-47I	DUP-06Q1CB	OU2MW-47I	OU2MW-47I2	OU2MW-47I2	DUP-01Q4CB	OU2MW-47I2	OU2MW-47I2	OU2MW-47D
		Start Depth	20	20	20	20	20	40	40	40	40	40	60
		End Depth	25	25	25	25	25	45	45	45	45	45	65
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/13/13	10/15/13	02/20/14	02/20/14	04/23/14	08/13/13	10/15/13	10/15/13	02/20/14	04/23/14	08/13/13
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-47I	OU2MW-47I	OU2MW-47I	DUP-06Q1CB	OU2MW-47I	OU2MW-47I2	OU2MW-47I2	DUP-01Q4CB	OU2MW-47I2	OU2MW-47I2	OU2MW-47D
		Start Depth	20	20	20	20	20	40	40	40	40	40	60
		End Depth	25	25	25	25	25	45	45	45	45	45	65
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/13/13	10/15/13	02/20/14	02/20/14	04/23/14	08/13/13	10/15/13	10/15/13	02/20/14	04/23/14	08/13/13
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	**21000**
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-47D	OU2MW-47D	OU2MW-47D	OU2MW-52S	OU2MW-52I	OU2MW-52D	OU2MW-53S	OU2MW-53I	OU2MW-53D	OU2MW-54S	OU2MW-54I
		Start Depth	60	60	60	3	20	35	3	20	35	5	25
		End Depth	65	65	65	8	25	40	8	25	40	15	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	10/15/13	02/19/14	04/23/14	06/05/14	06/05/14	06/05/14	06/17/14	06/17/14	06/17/14	05/29/14	05/29/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-47D	OU2MW-47D	OU2MW-47D	OU2MW-52S	OU2MW-52I	OU2MW-52D	OU2MW-53S	OU2MW-53I	OU2MW-53D	OU2MW-54S	OU2MW-54I
		Start Depth	60	60	60	3	20	35	3	20	35	5	25
		End Depth	65	65	65	8	25	40	8	25	40	15	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	10/15/13	02/19/14	04/23/14	06/05/14	06/05/14	06/05/14	06/17/14	06/17/14	06/17/14	05/29/14	05/29/14
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-47D	OU2MW-47D	OU2MW-47D	OU2MW-52S	OU2MW-52I	OU2MW-52D	OU2MW-53S	OU2MW-53I	OU2MW-53D	OU2MW-54S	OU2MW-54I
		Start Depth	60	60	60	3	20	35	3	20	35	5	25
		End Depth	65	65	65	8	25	40	8	25	40	15	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	10/15/13	02/19/14	04/23/14	06/05/14	06/05/14	06/05/14	06/17/14	06/17/14	06/17/14	05/29/14	05/29/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	**33500**	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-54I2	OU2MW-54D	OU2MW-55S	OU2MW-55S	OU2MW-55S	OU2MW-55S	OU2MW-55I	OU2MW-55I	DUP-10 Q4	OU2MW-55I	OU2MW-55I
			Start Depth	40	60	5	5	5	5	30	30	30	30	30
			End Depth	45	65	15	15	15	15	35	35	35	35	35
			Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
			Sample Date	05/29/14	05/29/14	08/13/13	12/10/13	02/14/14	06/14/14	08/13/13	12/10/13	12/10/13	02/14/14	06/14/14
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	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	µg/L	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
Ethylbenzene	µg/L	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
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs														
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-54I2	OU2MW-54D	OU2MW-55S	OU2MW-55S	OU2MW-55S	OU2MW-55S	OU2MW-55I	OU2MW-55I	DUP-10 Q4	OU2MW-55I	OU2MW-55I
		Start Depth	40	60	5	5	5	5	30	30	30	30	30
		End Depth	45	65	15	15	15	15	35	35	35	35	35
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/29/14	05/29/14	08/13/13	12/10/13	02/14/14	06/14/14	08/13/13	12/10/13	12/10/13	02/14/14	06/14/14
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-54I2	OU2MW-54D	OU2MW-55S	OU2MW-55S	OU2MW-55S	OU2MW-55S	OU2MW-55I	OU2MW-55I	DUP-10 Q4	OU2MW-55I	OU2MW-55I
		Start Depth	40	60	5	5	5	5	30	30	30	30	30
		End Depth	45	65	15	15	15	15	35	35	35	35	35
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	05/29/14	05/29/14	08/13/13	12/10/13	02/14/14	06/14/14	08/13/13	12/10/13	12/10/13	02/14/14	06/14/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-55I2	OU2MW-55I2	OU2MW-55I2	OU2MW-55I2	OU2MW-55D	DUP-09 Q3	OU2MW-55D	OU2MW-55D	OU2MW-55D	OU2MW-56S	OU2MW-56I
		Start Depth	50	50	50	50	65	65	65	65	65	5	25
		End Depth	55	55	55	55	70	70	70	70	70	15	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/13/13	12/10/13	02/14/14	06/14/14	08/13/13	08/13/13	12/10/13	02/14/14	06/14/14	06/07/14	06/07/14
Analyte	**Units**	**NYS AWQS**											
BTEX													
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	**2**	ND	ND	ND	ND	ND	ND
Other VOCs													
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-55I2	OU2MW-55I2	OU2MW-55I2	OU2MW-55I2	OU2MW-55D	DUP-09 Q3	OU2MW-55D	OU2MW-55D	OU2MW-55D	OU2MW-56S	OU2MW-56I
		Start Depth	50	50	50	50	65	65	65	65	65	5	25
		End Depth	55	55	55	55	70	70	70	70	70	15	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/13/13	12/10/13	02/14/14	06/14/14	08/13/13	08/13/13	12/10/13	02/14/14	06/14/14	06/07/14	06/07/14
Analyte	**Units**	**NYS AWQS**											
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17													
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Metals	µg/L												
Aluminum	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Antimony	µg/L	3	--	--	--	--	--	--	--	--	--	--	--
Arsenic	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Barium	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--	--	--	--	--	--	--	--
Cadmium	µg/L	5	--	--	--	--	--	--	--	--	--	--	--
Calcium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Chromium	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-55I2	OU2MW-55I2	OU2MW-55I2	OU2MW-55I2	OU2MW-55D	DUP-09 Q3	OU2MW-55D	OU2MW-55D	OU2MW-55D	OU2MW-56S	OU2MW-56I
		Start Depth	50	50	50	50	65	65	65	65	65	5	25
		End Depth	55	55	55	55	70	70	70	70	70	15	30
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/13/13	12/10/13	02/14/14	06/14/14	08/13/13	08/13/13	12/10/13	02/14/14	06/14/14	06/07/14	06/07/14
Analyte	**Units**	**NYS AWQS**											
Copper	µg/L	200	--	--	--	--	--	--	--	--	--	--	--
Iron	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Lead	µg/L	25	--	--	--	--	--	--	--	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--	--	--	--	--	--	--	--
Manganese	µg/L	300	--	--	--	--	--	--	--	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--	--	--	--	--	--	--	--
Nickel	µg/L	100	--	--	--	--	--	--	--	--	--	--	--
Potassium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Selenium	µg/L	10	--	--	--	--	--	--	--	--	--	--	--
Silver	µg/L	50	--	--	--	--	--	--	--	--	--	--	--
Sodium	µg/L	20000	--	--	--	--	--	--	--	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--	--	--	--	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--	--	--	--	--	--	--	--
Other													
Carbon dioxide	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--	--	--	--	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--	--	--	--	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--	--	--	--	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--	--	--	--	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-56I2	OU2MW-56D	OU2MW-58S	OU2MW-58I
			Start Depth	50	65	5	25
			End Depth	55	70	15	30
			Depth Unit	ft	ft	ft	ft
			Sample Date	06/07/14	06/07/14	06/03/14	06/03/14
Analyte	**Units**	**NYS AWQS**					
BTEX							
Benzene	µg/L	1	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND
Other VOCs							
Acetaldehyde	µg/L	8*	--	--	--	--
Acetone	µg/L	50*	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--
Allyl chloride (3-Chloropropene)	µg/L	5	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--
Chloroform	µg/L	7	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--
Dichlorodifluoromethane (Freon 12)	µg/L	5	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--
Iodomethane	µg/L	5	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

			Operable Unit	OU2	OU2	OU2	OU2
			Sample Name	OU2MW-56I2	OU2MW-56D	OU2MW-58S	OU2MW-58I
			Start Depth	50	65	5	25
			End Depth	55	70	15	30
			Depth Unit	ft	ft	ft	ft
			Sample Date	06/07/14	06/07/14	06/03/14	06/03/14
Analyte	**Units**	**NYS AWQS**					
Methyl ethyl ketone (2-Butanone)	µg/L	50*	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--
Styrene	µg/L	5	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	µg/L	5	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--
Trichlorofluoromethane (Freon 11)	µg/L	5	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethyltoluene	µg/L	5	--	--	--	--
2,2,4-Trimethylpentane (iso-Octane)	µg/L	NE	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--
NYSDEC PAH17						
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	ND	ND
Total Metals	µg/L					
Aluminum	µg/L	NE	--	--	--	--
Antimony	µg/L	3	--	--	--	--
Arsenic	µg/L	25	--	--	--	--
Barium	µg/L	1000	--	--	--	--
Beryllium	µg/L	3*	--	--	--	--
Cadmium	µg/L	5	--	--	--	--
Calcium	µg/L	NE	--	--	--	--
Chromium	µg/L	50	--	--	--	--
Cobalt	µg/L	NE	--	--	--	--

Table 4-10. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual GM and OM&M Report
Operable Unit 2 (OU-2)

		Operable Unit	OU2	OU2	OU2	OU2
		Sample Name	OU2MW-56I2	OU2MW-56D	OU2MW-58S	OU2MW-58I
		Start Depth	50	65	5	25
		End Depth	55	70	15	30
		Depth Unit	ft	ft	ft	ft
		Sample Date	06/07/14	06/07/14	06/03/14	06/03/14
Analyte	**Units**	**NYS AWQS**				
Copper	µg/L	200	--	--	--	--
Iron	µg/L	300	--	--	--	--
Lead	µg/L	25	--	--	--	--
Magnesium	µg/L	35000*	--	--	--	--
Manganese	µg/L	300	--	--	--	--
Mercury	µg/L	0.7	--	--	--	--
Nickel	µg/L	100	--	--	--	--
Potassium	µg/L	NE	--	--	--	--
Selenium	µg/L	10	--	--	--	--
Silver	µg/L	50	--	--	--	--
Sodium	µg/L	20000	--	--	--	--
Thallium	µg/L	0.5*	--	--	--	--
Vanadium	µg/L	NE	--	--	--	--
Zinc	µg/L	2000*	--	--	--	--
Other						
Carbon dioxide	µg/L	NE	--	--	--	--
Ammonia	µg/L	2000	--	--	--	--
Total Kjeldahl Nitrogen	µg/L	NE	--	--	--	--
Nitrate as Nitrogen	µg/L	10000	--	--	--	--
Nitrite as Nitrogen	µg/L	1000	--	--	--	--
Total Nitrogen	µg/L	NE	--	--	--	--
Sulfate	µg/L	250000	--	--	--	--
Sulfide	µg/L	50*	--	--	--	--
Total Phosphorous	µg/L	NE	--	--	--	--

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

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1997		1998			1999				2000		
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May	Sep
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	85	--	--	--
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	15	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--
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
MW-02I/I-R	22.5 - 23.5	--	--	238,900	1,435	4,201	650	965	144	0	65	199	33	--
MW-03	4.94 - 14.94	--	35	--	1	--	--	--	--	--	178	--	--	--
MW-04	5.1 - 15.1	--	1	--	0	--	--	--	--	--	0	--	--	--
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	--	--	--	--	2,130	635	1,355	4,070	6,910	2,547	1,401	2,360	--
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
MW-16I	14.0 - 19.0	--	--	--	24	10	55	1	45	0	0	6	12	0
MW-17W	2.0 - 10.0	--	0	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	0	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	--	--	--	--	--	0	0	--	0	0	0	0	10
MW-29D	14.0 - 19.0	--	--	--	0	--	0	0	0	0	0	0	0	8
MW-30W/W-R	2.0 - 9.0	--	11,740	--	--	--	--	--	--	--	--	--	--	--
MW-32W/W-R	2.0 - 9.0	--	22,000	--	--	4,020	45,800	18,460	3,620	--	--	--	--	--
MW-34S	2.0 - 10.0	--	39,100	17,000	--	17,600	49,500	3,910	19,750	34,700	28,400	22,700	9,600	--
MW-34I	18.5 - 19.5	--	--	25,600	--	0	3	0	0	0	6	10	3	0
MW-34D	27.5 - 28.5	--	--	16,200	--	35	3	0	1	0	0	15	0	55
MW-34DD	27.5 - 28.5	--	--	--	--	0	--	--	61	--	--	--	--	--
MW-37W	2.0 - 10.0	--	0	--	0	--	--	--	--	--	--	--	--	--

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1997		1998			1999				2000		
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May	Sep
MW-39W	2.0 - 10.0	--	0	--	0	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	--	5,500	--	195	--	--	--	--	--	--	--	--	13,230
MW-46W/W-R	2.0 - 10.0	--	30,000	--	29,900	--	--	--	--	--	--	--	--	57,900
MW-64	19.0 - 24.0	--	--	--	0	0	0	0	0	0	0	25	--	0
MW-65	11.0 - 16.0	--	--	--	0	--	--	--	--	18	--	31	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
MW-73	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-75	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-78	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-79	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-80	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-81	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-82	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-83	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-01S	5.0 - 15.0	--	2	--	--	--	--	--	--	--	151	--	--	--
MWBS-02S	5.0 - 15.0	--	997	60	0	--	221	264	40	0	5,510	50	0	0
MWBS-02I	14.5 - 15.5	--	--	13	330	347	341	9,998	608	0	7	12	0	0
MWBS-02D	24.5 - 25.5	--	--	62	0	--	2,450	23	25	0	17,530	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	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1997		1998			1999				2000		
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May	Sep
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	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2000	2001				2002						2003	
		Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec	Feb-Apr	Jul/Aug
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	2	--	3	5	0	0
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	0	--	--	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01S	4.0 -14.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02S/S-R	2.0 - 12.0	123,100	--	--	--	--	159,200	149,000	166,500	180,000	134,000	149,600	99,400	124,800
MW-02I/I-R	22.5 - 23.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	--	--	--	--	--	--	24	24	--	3	28	23	85
MW-04	5.1 - 15.1	--	--	--	--	--	--	--	2	--	28	9	0	69
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	1,390	242	4,900	170	489	--	2,410	--	175	101	17	172	382
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	15,370	--	--	3,350	122,600	75,500	59,800	24,550	22,700	45,500	4,424	10,400	27,260
MW-16I	14.0 - 19.0	--	--	--	--	--	--	--	--	2	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	0	0	2	0	0	--	--	--	0	0	0	0	0
MW-29D	14.0 - 19.0	--	--	--	--	--	--	--	--	0	--	--	--	--
MW-30W/W-R	2.0 - 9.0	27,200	16	0	40	6,240	--	77	--	0	104	170	--	--
MW-32W/W-R	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	2,290
MW-34S	2.0 - 10.0	8,621	5	3,530	1,500	8	--	71	--	7,440	179	2,142	2,141	34,600
MW-34I	18.5 - 19.5	--	--	--	--	--	--	--	--	3,690	--	--	--	--
MW-34D	27.5 - 28.5	--	--	--	--	--	--	--	--	0	--	--	--	0
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2000	2001				2002						2003	
		Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec	Feb-Apr	Jul/Aug
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	134	53,700	1,240	24	219	--	--	2,550	7	1	0	--	8,500
MW-46W/W-R	2.0 - 10.0	25,300	23,800	17,300	--	--	--	--	--	--	--	21,100	35,800	18,800
MW-64	19.0 - 24.0	0	0	0	--	84	--	--	9	0	0	14	85,000	0
MW-65	11.0 - 16.0	0	1	0	51	0	--	--	9	0	0	31	0	0
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--	--
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	8,160	7,920	31	7	0	--	403	--	100	3	5	23,800	12
MW-73	2.0 - 12.0	--	--	--	--	--	29,500	8,990	7,140	9,400	26,600	5,220	--	64,000
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
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	--	--	--	--	--	2,702	230	37	252	4,560	21	0	109
MW-78	5.0 - 20.0	--	--	--	--	--	17,400	3,790	2,156	2,840	17,700	1,320	11,960	30,800
MW-79	5.0 - 20.0	--	--	--	--	--	--	2,090	627	74,200	87,100	12,700	69,800	101,600
MW-80	5.0 - 20.0	--	--	--	--	--	48,000	635	457	6,220	87,600	387	33,300	88,000
MW-81	5.0 - 20.0	--	--	--	--	--	--	1,449	1,318	28,200	31,600	1,530	12,930	53,600
MW-82	5.0 - 20.0	--	--	--	--	--	5,840	1,269	110	26,900	48,300	1,444	17,910	245,000
MW-83	5.0 - 20.0	--	--	--	--	--	189	120	3	458	1,297	8	62	40
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	0	--	--	--	--	--
MWBS-02S	5.0 - 15.0	6	4	0	0	0	--	1	--	0	0	0	0	0
MWBS-02I	14.5 - 15.5	4,740	0	59	20	0	--	84	--	0	0	--	0	--
MWBS-02D	24.5 - 25.5	--	--	--	--	--	--	--	--	3	--	--	0	--
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	694	885	--	307	1,727	1,033	1,110
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	661	1,340	--	335	599	1,160	2,400
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	75	141	--	21	46	33	79
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--

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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2000	2001				2002						2003	
		Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec	Feb-Apr	Jul/Aug
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	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	--	--	--	--	--	30,700	19,700	23,100	--	--	14,500	1,400	0
PDMW-02	5.0 - 20.0	--	--	--	--	--	86,100	72,600	67,700	93,600	53,300	--	--	68,000
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	--	52	40	2	137	820	2	127	73,800
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

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2003	2004				2005				2006			
		Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	0	0	0	0	--	--	--	--
BBMW-28I	10.0 - 20.0	--	--	--	--	--	0	0	0	0	--	--	--	--
BBMW-29	2.0 - 9.0	--	--	--	--	--	0	0	0	4,368	974	134	0	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	--	--	--	--	--	--	--	--	--	0	0	0	0
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	0
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	0
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	7,580	5,380	83	10	21,100	290	3,627	45	0	0	0	101
MW-01S	4.0 -14.0	--	--	--	--	0	--	--	--	460	--	0	0	0
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	0	0
MW-02S/S-R	2.0 - 12.0	263,000	149,000	172,400	22,000	427	2,050	13	94	194	945	51	0	68
MW-02I/I-R	22.5 - 23.5	63	14	--	--	--	62	--	--	--	0	--	--	--
MW-03	4.94 - 14.94	--	35	51	52	0	22	28	24	27	0	24	28	14
MW-04	5.1 - 15.1	--	0	0	0	0	0	0	0	0	12	0	0	0
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	16	0	0	0	1,449	30	6,580	1,400	2,071	190	61	0	933
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	42,700	354	1,320	41,800	317	66,800	65,500	34,600	45,820	42,100	15,000	17,900	18,600
MW-16I	14.0 - 19.0	0	0	--	--	--	0	--	--	--	0	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-29D	14.0 - 19.0	--	0	--	--	0	--	--	--	0	--	--	--	--
MW-30W/W-R	2.0 - 9.0	--	--	--	--	--	0	0	10	0	0	106	130	0
MW-32W/W-R	2.0 - 9.0	4,832	1,189	2,048	74,400	33,300	8,413	5,171	4,400	9,200	4,565	5,950	5,100	1,502
MW-34S	2.0 - 10.0	2,827	13,000	13,900	3,364	12,370	5,068	11,700	29,200	3,820	14,600	25,500	9,240	5,760
MW-34I	18.5 - 19.5	--	4,090	--	--	--	1,348	--	--	--	0	--	--	--
MW-34D	27.5 - 28.5	0	0	--	--	--	0	--	--	--	0	--	--	--
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2003	2004				2005				2006			
		Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	720	1,950	25,000	2,780	11,300	39,300	14,000	19,300	16,100	14,600	2,214	1,720	5,770
MW-46W/W-R	2.0 - 10.0	8,800	43,400	20,800	23,100	22,500	37,100	40,200	42,400	15,760	17,110	7,270	2,750	2,330
MW-64	19.0 - 24.0	0	0	0	24	7,650	0	5,651	0	750	19	0	0	0
MW-65	11.0 - 16.0	0	0	0	0	3,852	0	0	0	0	0	0	0	0
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--	--
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	1,170	1,114	6,150	39,400	70	267	45,500	57,000	4,630	4,360	175	277	363
MW-73	2.0 - 12.0	89,000	34,000	33,000	71,500	27,700	26,700	26,500	52,000	557	8,460	14,520	36,200	15,070
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-75	2.0 - 12.0	110,500	4,060	1,302	34,500	212	1,815	129,200	157,100	17,000	5,389	1,540	3,600	491
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	136	0	--	0	33	0	170	23	0	27	0	0	0
MW-78	5.0 - 20.0	42,000	11,800	18,200	13,400	8,400	15,700	21,800	8,700	3,090	5,900	4,710	18,100	4,080
MW-79	5.0 - 20.0	93,700	116,000	82,600	34,820	24,100	32,300	9,800	7,300	588	3,740	3,320	1,220	7,690
MW-80	5.0 - 20.0	126,000	118,000	96,000	81,400	66,900	132,000	197,000	301,000	38,300	44,000	38,700	6,170	41,100
MW-81	5.0 - 20.0	33,000	63,000	25,000	20,400	35,200	37,800	22,870	29,100	15,660	5,000	9,510	3,499	16,900
MW-82	5.0 - 20.0	46,000	20,280	9,160	30,300	10,400	5,340	25,300	140	58,900	44,200	30,000	43,400	21,800
MW-83	5.0 - 20.0	950	0	54	0	1,543	788	980	1,280	142	101	0	5,042	161
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	0	2,853	323	0	0	22	82	0	0	0	0	0	0
MWBS-02I	14.5 - 15.5	--	0	0	0	0	0	0	0	0	0	0	0	0
MWBS-02D	24.5 - 25.5	--	0	--	--	--	87	--	--	--	191	--	--	--
MW-UST1	2.0 - 12.0	1,911	51	2,343	2,700	240	122	660	830	1,083	117	1,270	2,400	944
MW-UST2	2.0 - 12.0	1,854	440	1,812	3,800	1,430	3,117	1,880	2,700	1,410	1,652	1,925	3,011	1,250
MW-UST3	2.0 - 12.0	74	145	320	0	22	247	41	12	0	0	19	0	0
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--

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Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2003	2004				2005				2006			
		Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec
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	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0
PDMW-02	5.0 - 20.0	74,000	115,900	117,600	82,000	83,000	90,000	60,300	37,300	100,000	19,500	85,100	67,500	98,000
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	92,300	0	0	0	0	0	26,900	24,900	25,500	1,600	32	27,400	42
SV-02I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	23,100	33,200	11,600	615	4,400	936	5,509	249	2,702	570	257	831	116

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2007				2008				2009				2010
		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
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-09I	30.0 - 40.0	0	--	0	--	0	--	--	--	0	--	--	--	0
BBMW-09D	62.0 - 72.0	0	--	0	--	0	--	--	--	0	--	--	--	0
BBMW-28S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-28I	10.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-29	2.0 - 9.0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-30S	2.0 - 10.0	--	0	0	0	0	--	--	--	0	--	--	0	0
BBMW-30I	14.0 - 19.0	--	0	0	0	0	--	--	--	0	--	--	0	0
BBMW-30D	30.0 - 35.0	--	0	0	0	0	--	--	--	0	--	--	0	0
BBMW-31S	2.0 - 10.0	--	0	0	0	0	--	--	--	2	--	--	0	0
BBMW-31I	14.0 - 19.0	--	0	0	0	0	--	--	--	3	--	--	0	0
BBMW-31D	30.0 - 35.0	--	0	0	0	0	--	--	--	3	--	--	0	0
BBMW-32S	2.0 - 10.0	--	0	0	0	0	--	--	--	0	--	--	0	0
BBMW-32I	14.0 - 19.0	--	0	0	0	0	--	--	--	0	--	--	0	0
BBMW-32D	30.0 - 35.0	--	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
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	1	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
BW-UST-29	5.0 - 10.0	--	0	0	0	0	0	0	0	0	0	0	0	0
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	2,300	0	0	83	0	73	0	0	0	0	0	0	0
MW-01S	4.0 -14.0	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
MW-02S/S-R	2.0 - 12.0	346	625	1,695	248	27	1	16	47	812	64	--	--	--
MW-02I/I-R	22.5 - 23.5	0	0	0	0	0	0	3	0	0	0	--	--	--
MW-03	4.94 - 14.94	0	0	20	18	5	5	9	11	6	14	16	18	14
MW-04	5.1 - 15.1	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	42	110	62	97	95	77	35	8	0	0	27	0	0
MW-12W	2.0 - 10.0	0	0	0	0	0	0	0	0	2	0	0	0	0
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	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	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
MW-29D	14.0 - 19.0	0	0	0	0	0	--	--	--	0	0	0	0	0
MW-30W/W-R	2.0 - 9.0	0	0	0	0	0	0	1	0	0	0	0	0	0
MW-32W/W-R	2.0 - 9.0	1,060	567	1,080	9,760	2,040	57	0	29	232	91	277	2	120
MW-34S	2.0 - 10.0	85	9,750	35,100	19,800	7,750	25,870	5,638	9,100	3,636	2,310	57	2	16
MW-34I	18.5 - 19.5	0	0	5	934	35	0	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
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2007				2008				2009				2010
		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
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	3,200	43,400	1,236	1,717	3,600	5,690	242	142	4,210	15,700	1,737	15	323
MW-46W/W-R	2.0 - 10.0	1,256	3,810	915	1,400	8,130	1,664	3,471	1,231	525	1,510	811	559	431
MW-64	19.0 - 24.0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-65	11.0 - 16.0	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	0
MW-66D	24.0 - 29.0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	31	268	351	1,577	11,590	7,750	10,910	675	1,124	621	410	57	169
MW-73	2.0 - 12.0	18,700	22,500	15,300	14,000	12,800	5,970	9,800	5,380	7,100	62,600	45,100	7,400	8,970
MW-73I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-75	2.0 - 12.0	580	355	9,420	2,254	268	1,802	77,440	1,181	569	7,290	68,310	935	1,375
MW-75I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	0	0	4	7	2	0	1	0	0	0	0	0	0
MW-78	5.0 - 20.0	2,320	3,050	2,480	2,270	54	167	449	312	2,590	2,140	3,370	599	650
MW-79	5.0 - 20.0	13,900	2,840	2,030	542	3,160	32	3,110	2,060	10,100	189	893	6,780	1,020
MW-80	5.0 - 20.0	148,000	26,100	41,000	106,000	3,220	18,700	52,300	90,400	55,200	34,500	8,750	20,100	3,750
MW-81	5.0 - 20.0	65,800	16,100	36,300	61,800	8,690	1,080	18,840	5,020	257	152	607	25,120	6,120
MW-82	5.0 - 20.0	7,144	14,460	4,338	17,989	1,164	2,254	6,942	19,071	6,151	403	1,822	4,140	4,260
MW-83	5.0 - 20.0	41	2,320	6,761	39	36	0	687	2,145	0	0	66	0	0
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	0	0	0	8	0	0	0	0	98	0	268	103	939
MWBS-02I	14.5 - 15.5	0	0	0	0	0	0	17	0	0	3	30	14	4
MWBS-02D	24.5 - 25.5	0	0	0	0	17	0	0	0	0	0	0	0	1
MW-UST1	2.0 - 12.0	950	1,250	796	470	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	960	1,260	1,173	1,686	--	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	14	0	6	4	--	--	--	--	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	0	0	5
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	58	0	0
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	0	0	4
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	37	114	0
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	187	0	0
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	0	0
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	0	0
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	3,461
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2007				2008				2009				2010
		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
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	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	0	0	0	70,920	0	0	0	0	0	0	--	0	0
PDMW-02	5.0 - 20.0	62,700	79,700	68,020	84,400	70,570	65,260	51,400	73,810	59,210	46,350	--	--	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	45,561	27,913	14,511	27,515	--	--	--
SV-02	2.0 - 12.0	0	0	26,000	0	0	0	0	0	26	1	34,300	4	0
SV-02I	22.0 - 27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	65	207	185	341	105	477	60	56	29	10	5	8	0

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2010			2011				2012				2013	
		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
BBMW-09S	5.0 - 15.0	0	0	0	0	--	--	--	0	--	--	--	--	--
BBMW-09I	30.0 - 40.0	--	--	--	0	--	--	--	0	--	--	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	0	--	--	--	0	--	--	--	--	--
BBMW-28S	2.0 - 12.0	0	0	0	0	0	--	0	0	0	0	0	0	0
BBMW-28I	10.0 - 20.0	10	0	0	0	0	--	0	0	0	0	0	0	0
BBMW-29	2.0 - 9.0	0	0	0	0	1	0	0	0	0	15	0	1	0
BBMW-30S	2.0 - 10.0	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
BBMW-30D	30.0 - 35.0	0	0	0	0	0	0	0	0	0	2	--	0	0
BBMW-31S	2.0 - 10.0	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
BBMW-31D	30.0 - 35.0	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
BBMW-32I	14.0 - 19.0	0	0	0	0	0	0	0	0	0	0	--	0	0
BBMW-32D	30.0 - 35.0	0	2	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
BW-UST-10	5.0 - 10.0	0	0	0	0	--	--	--	0	--	--	--	--	--
BW-UST-11	5.0 - 10.0	0	0	0	0	--	--	--	0	--	--	--	--	--
BW-UST-28	5.0 - 10.0	0	0	0	0	--	--	--	0	--	--	--	--	--
BW-UST-29	5.0 - 10.0	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	1,275	82	17,660	11,855	13,120	9,050	4,578	5,794	0	0	0	0
MW-01S	4.0 -14.0	0	0	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	14	12	3	3	--	--	--	0	--	--	--	--	--
MW-04	5.1 - 15.1	0	0	0	0	--	--	--	0	--	--	--	--	--
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	0	--	--	--	--	--
MW-11W	2.0 - 10.0	0	0	0	0	10	33	52	13	585	1,534	428	2	4
MW-12W	2.0 - 10.0	0	0	0	0	0	0	0	4	488	18	0	15	80
MW-13W	2.0 - 10.0	--	--	--	--	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	--	--	--	--	--
MW-29D	14.0 - 19.0	0	--	--	0	--	--	--	0	--	--	--	--	--
MW-30W/W-R	2.0 - 9.0	0	3	0	0	0	0	0	30	26	0	--	0	0
MW-32W/W-R	2.0 - 9.0	0	0	0	0	62	1,548	795	8	25	10	156	2	3
MW-34S	2.0 - 10.0	80	4,080	1,666	179	225	11,830	5,930	4,310	1,737	227	126	1	0
MW-34I	18.5 - 19.5	0	222	0	1,240	4,970	6,421	7,177	11,070	4,165	80	58	38	18
MW-34D	27.5 - 28.5	0	0	0	0	0	1,773	2,357	236	1,747	203	1	2	13
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	0	--	--	0	--	0
MW-37W	2.0 - 10.0	--	--	--	--	0	0	0	0	0	0	0	0	0

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2010			2011				2012				2013	
		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
MW-39W	2.0 - 10.0	--	--	--	--	0	0	0	0	0	0	0	0	0
MW-45W	2.0 - 10.0	1,075	1	0	14	0	0	0	36	0	0	0	0	0
MW-46W/W-R	2.0 - 10.0	1,135	954	549	2,335	1,835	1,152	184	270	1,187	9	3	0	0
MW-64	19.0 - 24.0	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
MW-65	11.0 - 16.0	0	0	5	0	0	0	5,639	2,324	564	557	328	309	4
MW-66S	1.5 - 11.5	0	0	0	0	0	0	0	0	0	0	--	0	0
MW-66D	24.0 - 29.0	0	0	0	0	0	0	0	0	0	0	--	0	0
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	0	--	--	--	--	0
MW-67D	24 - 29	--	--	--	--	--	--	--	0	--	--	--	--	0
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	0	0
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	20	2
MW-70/70S	2.0 - 12.0	353	754	1,546	1,107	9,700	7,580	4,096	5,120	1,908	1,735	38	4	0
MW-73	2.0 - 12.0	12,000	612	258	863	3,560	1,225	2,276	581	3,610	1,128	1,338	1,109	1,822
MW-73I	22.0 - 27.0	--	--	--	--	--	8,350	1,760	1,200	1,590	1,325	1,098	1,147	719
MW-75	2.0 - 12.0	608	50,410	4,707	5	7	12,710	468	32	72	6,990	3,420	24	173
MW-75I	22.0 - 27.0	--	--	--	--	--	3,370	5,821	20,409	990	2,012	1,652	492	517
MW-76	2.0 - 12.0	2	0	0	1	0	0	112	0	0	0	0	0	0
MW-78	5.0 - 20.0	--	4,890	4,650	210	1,380	583	3,010	4,390	4,280	25,300	8,900	2,030	18,290
MW-79	5.0 - 20.0	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
MW-80	5.0 - 20.0	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
MW-81	5.0 - 20.0	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
MW-82	5.0 - 20.0	18,100	1,890	5,410	655	55	1,743	508	1,487	1,196	259	1,609	523	461
MW-83	5.0 - 20.0	4	10	2,387	11	16	155	2,339	1,992	662	186	281	8	34
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	56	115	3	0	11	4	120	177	28	12	1	0	0
MWBS-02I	14.5 - 15.5	107	83	0	2	4	1	34	43	80	376	3	0	1
MWBS-02D	24.5 - 25.5	0	0	0	1	0	0	0	0	2,971	414	71	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	43	0	0	8	0	0
OU3MW-02S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-02I	15.0 - 20.0	0	0	0	0	3	0	0	0	0	0	0	0	0
OU3MW-03S	1.0 - 11.0	15	0	0	542	224	698	8,690	665	530	81	89	48	2
OU3MW-03I	20.0 - 25.0	132	0	0	2,463	1,480	5,630	769	138	285	1,621	21	0	2,472
OU3MW-04S	1.0 - 11.0	0	7	0	21	2	0	18	0	4	0	0	0	0
OU3MW-04I	16.0 - 21.0	336	208	0	0	108	541	115	0	0	0	0	0	0
OU3MW-04D	26.0 - 31.0	0	0	0	0	0	152	15,384	2,837	939	3,001	1,665	7	7
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	11	6	770	400	13	4
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	0	0	1	0	0	0
OU3MW-05S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-05I	15.0 - 20.0	0	0	0	246	75	0	0	0	0	72	39	115	364
OU3MW-06	3.0 - 13.0	0	7	0	0	11	0	0	32	0	0	0	0	0
OU3MW-07S	3.0 - 13.0	39	8	251	179	108	0	0	0	23	0	0	0	0
OU3MW-07I	15.0 - 20.0	0	0	0	4,040	326	61	38	0	850	57	1,121	0	0
OU3MW-07I2	20.0 - 25.0	0	0	0	3,267	10,427	3,520	1,416	7,366	2,502	37	20	19	14
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	12,187	107	12	3	36	5
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	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

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)												
		Sampling Date												
		2010			2011				2012				2013	
		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
OU3MW-08I	25.0 - 30.0	--	--	0	0	0	0	0	0	2	0	--	--	0
OU3MW-09S	2.0 - 12.0	--	--	2,002	407	365	287	79	37	56	59	115	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
OU3MW-09I2	35.0 - 40.0	--	--	--	--	--	4	46	27	18	73	27	16	70
OU3MW-10S	2.0 - 12.0	--	--	4,614	3,084	958	492	251	113	143	42	40	0	0
OU3MW-10I	25.0 - 30.0	--	--	8	0	0	1	63	201	440	712	303	469	580
OU3MW-11S	2.0 - 12.0	--	--	0	0	0	0	0	8	0	0	--	--	0
OU3MW-11I	25.0 - 30.0	--	--	1	0	0	0	0	0	0	0	--	--	0
OU3MW-12S	2.0 - 12.0	--	--	0	0	0	0	0	5	0	0	--	--	0
OU3MW-12I	25.0 - 30.0	--	--	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
OU3MW-14S	2.0 - 12.0	--	--	--	--	--	34,200	31,100	23,600	27,800	20,100	23,100	21,500	19,600
OU3MW-15S	2.0 - 12.0	--	--	--	--	--	2,598	1,444	204	412	1,847	2,254	51	184
OU3MW-16S	2.0 - 12.0	--	--	--	--	--	43	898	769	846	259	164	1,128	219
OU3MW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-17I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-17I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	2
OU3MW-18I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	55
OU3MW-18I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	5
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	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-22I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-23I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I	10.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-24I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	0	0	0	0	18	0	0	2	0	0	--	--	0
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	212	32,000	27	0	0	17	20	114	0	767	1	0	0
SV-02I	22.0 - 27.0	--	--	--	--	--	12,120	1,562	1,035	8,568	6,944	25,765	1,407	294
SV-02I2	35.0 - 40.0	--	--	--	--	--	0	0	2	62	47	1	0	0
SV-03	2.0 - 12.0	0	5	144	3	7	10	3	73	536	21	5	17	0

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)								
		Sampling Date				Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2013		2014						
		Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-09S	5.0 - 15.0	--	--	--	--	0	85	3	0	85
BBMW-09I	30.0 - 40.0	--	--	--	--	0	0	0	0	0
BBMW-09D	62.0 - 72.0	--	--	--	--	0	15	2	0	15
BBMW-28S	2.0 - 12.0	0	0	0	0	0	0	0	0	0
BBMW-28I	10.0 - 20.0	0	0	0	0	0	10	0	0	10
BBMW-29	2.0 - 9.0	0	0	0	0	0	4,368	148	0	4,368
BBMW-30S	2.0 - 10.0	--	--	--	0	0	0	0	0	0
BBMW-30I	14.0 - 19.0	--	--	--	0	0	0	0	0	0
BBMW-30D	30.0 - 35.0	--	--	--	0	0	2	0	0	2
BBMW-31S	2.0 - 10.0	0	0	0	0	0	2	0	0	2
BBMW-31I	14.0 - 19.0	0	0	0	0	0	3	0	0	3
BBMW-31D	30.0 - 35.0	0	0	0	0	0	3	0	0	3
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	2	0	0	2
BBMW-33	7.0 - 12.0	0	0	0	0	0	0	0	0	0
BW-UST-10	5.0 - 10.0	--	--	--	--	0	0	0	0	0
BW-UST-11	5.0 - 10.0	--	--	--	--	0	1	0	0	1
BW-UST-28	5.0 - 10.0	--	--	--	--	0	0	0	0	0
BW-UST-29	5.0 - 10.0	--	--	--	--	0	0	0	0	0
GM-02AS	8.91 - 23.91	--	--	--	--	0	0	0	0	0
GM-02AI	35.24 - 50.24	--	--	--	--	0	0	0	0	0
GM-02AD	59.8 - 74.8	--	--	--	--	0	0	0	0	0
IO-10	6.0 - 16.0	0	3	0	0	0	21,100	2,539	0	21,100
MW-01S	4.0 -14.0	--	--	--	--	0	460	17	0	460
MW-01D	35.0 - 45.0	--	--	--	--	0	0	0	0	0
MW-02S/S-R	2.0 - 12.0	--	--	--	--	0	295,000	77,916	0	295,000
MW-02I/I-R	22.5 - 23.5	--	--	--	--	0	238,900	10,281	0	238,900
MW-03	4.94 - 14.94	--	--	--	--	0	178	22	0	178
MW-04	5.1 - 15.1	--	--	--	--	0	69	3	0	69
MW-08W	5.0 - 10.0	--	--	--	--	0	0	0	0	0
MW-11W	2.0 - 10.0	0	--	0	0	0	6,910	797	0	6,910
MW-12W	2.0 - 10.0	0	2	0	0	0	488	20	0	488
MW-13W	2.0 - 10.0	0	0	0	0	0	0	0	0	0
MW-16W	2.0 - 10.0	--	--	--	--	55	55	55	55	55
MW-16SR	2.0 - 10.0	--	--	--	--	317	122,600	30,530	317	122,600
MW-16I	14.0 - 19.0	--	--	--	--	0	103	17	0	103
MW-17W	2.0 - 10.0	--	--	--	--	0	0	0	0	0
MW-24D	14.0 - 19.0	--	--	--	--	0	0	0	0	0
MW-26D	14.0 - 19.0	--	--	--	--	0	0	0	0	0
MW-29S	5.0 - 10.0	--	--	--	--	0	10	0	0	10
MW-29D	14.0 - 19.0	--	--	--	--	0	8	0	0	8
MW-30W/W-R	2.0 - 9.0	0	0	0	0	0	27,200	998	0	27,200
MW-32W/W-R	2.0 - 9.0	1	0	0	0	0	74,400	5,712	0	74,400
MW-34S	2.0 - 10.0	0	1	0	0	0	49,500	9,561	0	49,500
MW-34I	18.5 - 19.5	13	4	510	0	0	25,600	1,668	0	25,600
MW-34D	27.5 - 28.5	1	14	0	0	0	16,200	503	0	16,200
MW-34DD	27.5 - 28.5	0	0	0	0	0	61	8	0	61
MW-37W	2.0 - 10.0	21	0	0	0	0	21	2	0	21

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)								
		Sampling Date				Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2013		2014						
		Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
MW-39W	2.0 - 10.0	0	0	0	0	0	0	0	0	0
MW-45W	2.0 - 10.0	0	0	0	0	0	53,700	5,862	0	53,700
MW-46W/W-R	2.0 - 10.0	0	156	0	0	0	57,900	11,351	0	57,900
MW-64	19.0 - 24.0	1,593	35	4,811	1,696	0	85,000	3,981	0	85,000
MW-65	11.0 - 16.0	151	94	58	12	0	5,639	242	0	5,639
MW-66S	1.5 - 11.5	--	0	0	0	0	0	0	0	0
MW-66D	24.0 - 29.0	--	0	0	0	0	0	0	0	0
MW-67S	2.5 - 12.5	--	0	0	0	0	0	0	0	0
MW-67D	24 - 29	--	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	0	0	5	0	0	172	17	0	172
MW-70/70S	2.0 - 12.0	3	9	0	0	0	57,000	5,769	0	57,000
MW-73	2.0 - 12.0	315	3	11	0	3	89,000	17,396	0	89,000
MW-73I	22.0 - 27.0	945	4	13	10	4	8,350	1,650	4	8,350
MW-75	2.0 - 12.0	1,471	7	0	0	0	161,100	20,418	0	161,100
MW-75I	22.0 - 27.0	335	22	104	12	22	20,409	3,248	12	20,409
MW-76	2.0 - 12.0	2	0	0	0	0	4,560	172	0	4,560
MW-78	5.0 - 20.0	14,250	88	7	0	7	42,000	7,685	0	42,000
MW-79	5.0 - 20.0	4,030	25	6	0	6	116,000	18,534	0	116,000
MW-80	5.0 - 20.0	5,230	50	421	44	50	301,000	45,247	44	301,000
MW-81	5.0 - 20.0	1,096	8	6	0	6	65,800	15,675	0	65,800
MW-82	5.0 - 20.0	564	12	0	0	0	245,000	16,332	0	245,000
MW-83	5.0 - 20.0	61	37	27	25	0	6,761	670	0	6,761
MWBS-01S	5.0 - 15.0	--	--	--	--	0	151	51	0	151
MWBS-02S	5.0 - 15.0	0	0	0	0	0	5,510	193	0	5,510
MWBS-02I	14.5 - 15.5	8	0	0	3	0	9,998	285	0	9,998
MWBS-02D	24.5 - 25.5	0	0	0	0	0	17,530	542	0	17,530
MW-UST1	2.0 - 12.0	--	--	--	--	51	2,700	1,039	51	2,700
MW-UST2	2.0 - 12.0	--	--	--	--	335	3,800	1,646	335	3,800
MW-UST3	2.0 - 12.0	--	--	--	--	0	320	56	0	320
OU3MW-01S	3.0 - 13.0	0	0	0	0	0	43	3	0	43
OU3MW-02S	3.0 - 13.0	0	0	0	0	0	5	0	0	5
OU3MW-02I	15.0 - 20.0	0	0	0	0	0	3	0	0	3
OU3MW-03S	1.0 - 11.0	1	5	2	0	0	8,690	613	0	8,690
OU3MW-03I	20.0 - 25.0	76	627	108	0	0	5,630	833	0	5,630
OU3MW-04S	1.0 - 11.0	0	0	0	7	0	114	11	0	114
OU3MW-04I	16.0 - 21.0	0	0	0	6	0	541	79	0	541
OU3MW-04D	26.0 - 31.0	0	0	0	0	0	15,384	1,263	0	15,384
OU3MW-04D2	31.0 - 36.0	3	0	0	0	0	770	134	0	770
OU3MW-04D3	41.0 - 46.0	0	0	0	0	0	1	0	0	1
OU3MW-05S	2.0 - 12.0	0	3	0	0	0	3	0	0	3
OU3MW-05I	15.0 - 20.0	60	0	0	0	0	364	54	0	364
OU3MW-06	3.0 - 13.0	16	0	0	0	0	32	3	0	32
OU3MW-07S	3.0 - 13.0	0	0	0	0	0	3,461	239	0	3,461
OU3MW-07I	15.0 - 20.0	0	0	0	0	0	4,040	382	0	4,040
OU3MW-07I2	20.0 - 25.0	6	4	2	1	0	10,427	1,682	0	10,427
OU3MW-07I3	25.0 - 30.0	0	1	0	0	0	12,187	1,372	0	12,187
OU3MW-07I4	35.0 - 40.0	0	0	0	0	0	0	0	0	0
OU3MW-08S	2.0 - 12.0	1,580	1,930	2,240	1,003	165	5,730	2,644	165	5,730

Table 4-11. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentrations (µg/L)								
		Sampling Date				Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2013		2014						
		Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
OU3MW-08I	25.0 - 30.0	--	--	--	0	0	2	0	0	2
OU3MW-09S	2.0 - 12.0	15	25	0	0	0	2,002	246	0	2,002
OU3MW-09I	25.0 - 30.0	428	333	588	346	333	38,700	11,071	333	38,700
OU3MW-09I2	35.0 - 40.0	9	14	6	10	4	73	28	4	73
OU3MW-10S	2.0 - 12.0	6	6	0	1	0	4,614	696	0	4,614
OU3MW-10I	25.0 - 30.0	314	326	574	642	0	712	285	0	712
OU3MW-11S	2.0 - 12.0	--	--	--	1	0	8	1	0	8
OU3MW-11I	25.0 - 30.0	--	--	--	0	0	1	0	0	1
OU3MW-12S	2.0 - 12.0	--	--	--	0	0	5	1	0	5
OU3MW-12I	25.0 - 30.0	--	--	--	0	0	0	0	0	0
OU3MW-13S	2.0 - 12.0	537	4	277	810	4	21,000	6,536	4	21,000
OU3MW-14S	2.0 - 12.0	18,200	14	9	0	9	34,200	19,929	0	34,200
OU3MW-15S	2.0 - 12.0	881	21	0	0	0	2,598	900	0	2,598
OU3MW-16S	2.0 - 12.0	161	18	200	180	18	1,128	428	18	1,128
OU3MW-17S	2.0 - 12.0	0	0	0	0	0	0	0	0	0
OU3MW-17I	15.0 - 20.0	0	0	0	7	0	0	0	0	7
OU3MW-17I2	25.0 - 30.0	0	0	0	5	0	2	1	0	5
OU3MW-18I	15.0 - 20.0	4	5	0	2	0	55	16	0	55
OU3MW-18I2	25.0 - 30.0	0	0	0	0	0	5	1	0	5
OU3MW-19S	2.0 - 12.0	6,350	5,560	4,410	--	4,410	6,350	5,440	4,410	6,350
OU3MW-19I	20.0 - 25.0	106	502	0	--	0	502	203	0	502
OU3MW-19I2	30.0 - 35.0	0	0	0	--	0	0	0	0	0
OU3MW-20S	2.0 - 12.0	85	82	3	0	3	85	57	0	85
OU3MW-20I	20.0 - 25.0	431	551	2	0	2	551	328	0	551
OU3MW-20I2	30.0 - 35.0	0	9	0	0	0	9	3	0	9
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	11	4	0	11
OU3MW-22I	10.0 - 15.0	--	30,200	32,200	--	30,200	32,200	31,200	30,200	32,200
OU3MW-22I2	25.0 - 30.0	--	0	480	--	0	480	240	0	480
OU3MW-23I	10.0 - 15.0	--	16,900	16,000	--	16,000	16,900	16,450	16,000	16,900
OU3MW-23I2	25.0 - 30.0	--	2,210	1,960	--	1,960	2,210	2,085	1,960	2,210
OU3MW-24I	10.0 - 15.0	--	3,530	2,145	--	2,145	3,530	2,838	2,145	3,530
OU3MW-24I2	25.0 - 30.0	--	5,821	20,120	--	5,821	20,120	12,971	5,821	20,120
PDMW-01	5.0 - 20.0	--	--	--	0	0	70,920	3,818	0	70,920
PDMW-02	5.0 - 20.0	--	--	--	--	19,500	117,600	73,549	19,500	117,600
PDMW-03	5.0 - 15.0	--	--	--	--	14,511	45,561	28,875	14,511	45,561
SV-02	2.0 - 12.0	0	7	0	0	0	92,300	7,343	0	92,300
SV-02I	22.0 - 27.0	147	32	0	6	0	25,765	5,261	0	25,765
SV-02I2	35.0 - 40.0	0	0	0	0	0	62	10	0	62
SV-03	2.0 - 12.0	4	3	0	0	0	33,200	2,515	0	33,200

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

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1997		1998			1999				2000		
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May	Sep
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
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	--	--	--	--	--	--	--	--	--	--	--	--	--
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
MW-02I/I-R	22.5 - 23.5	--	--	6,478	99	12	11	10	1	0	0	0	53	--
MW-03	4.94 - 14.94	--	40	--	0	--	--	--	--	--	77	--	--	--
MW-04	5.1 - 15.1	--	4	--	99	--	--	--	--	--	0	--	--	--
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	--	--	--	--	861	222	142	298	469	62	290	389	--
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
MW-16I	14.0 - 19.0	--	--	--	18	0	0	3	0	0	7	0	0	0
MW-17W	2.0 - 10.0	--	11	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	1	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	--	--	--	--	--	0	0	--	0	516	0	0	2
MW-29D	14.0 - 19.0	--	--	--	0	--	0	0	0	0	0	0	0	2
MW-30W/W-R	2.0 - 9.0	--	753	--	--	--	--	--	--	--	--	--	--	--
MW-32W/W-R	2.0 - 9.0	--	322	--	--	730	1,435	810	368	--	--	--	--	--
MW-34S	2.0 - 10.0	--	333	1,002	--	1,035	1,604	341	1,355	1,157	502	611	381	--
MW-34I	18.5 - 19.5	--	--	103	--	0	0	2	8	0	0	0	203	0
MW-34D	27.5 - 28.5	--	--	10	--	0	0	0	2	0	0	0	0	2
MW-34DD	27.5 - 28.5	--	--	--	--	0	--	--	0	--	--	--	--	--
MW-37W	2.0 - 10.0	--	0	--	0	--	--	--	--	--	--	--	--	--

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1997		1998			1999				2000		
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May	Sep
MW-39W	2.0 - 10.0	--	0	--	0	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	--	170	--	330	--	--	--	--	--	--	--	--	781
MW-46W/W-R	2.0 - 10.0	--	1,482	--	4,156	--	--	--	--	--	--	--	--	2,141
MW-64	19.0 - 24.0	--	--	--	1	0	0	12	3	0	14	0	13	97
MW-65	11.0 - 16.0	--	--	--	17	--	--	--	--	3	--	9	34	8
MW-66S	1.5 - 11.5	--	--	--	0	--	--	--	--	--	--	--	--	--
MW-66D	24.0 - 29.0	--	--	--	2	--	--	--	--	--	--	--	--	--
MW-67S	2.5 - 12.5	--	--	--	0	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	--	0	--	--	--	--	--	--	--	--	--
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	1	0	0	3	0	0	0	--	--	--
MW-70/70S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	1,720
MW-73	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-73I	22.0-27.0													
MW-75	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-75I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-78	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-79	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-80	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-81	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-82	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-83	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-01S	5.0 - 15.0	--	2	--	--	--	--	--	--	--	64	--	--	--
MWBS-02S	5.0 - 15.0	--	167	24	0	--	262	36	5	79	245	274	81	115
MWBS-02I	14.5 - 15.5	--	--	27	485	696	0	640	8	0	0	11	258	3
MWBS-02D	24.5 - 25.5	--	--	1	47	--	254	0	0	0	237	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	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		1992	1997			1998		1999				2000		
		Sep	Jun	Aug	Mar/Apr	Jun	Dec	Mar	Jun	Sep	Oct/Nov	Feb	May	Sep
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	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2000	2001				2002						2003	
		Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec	Feb-Apr	Jul/Aug
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	99	--	99	53	0	0
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	0	--	--	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	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	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01S	4.0 -14.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02S/S-R	2.0 - 12.0	1,620	--	--	--	--	1,595	1,583	1,367	10,830	6,440	2,542	1,800	1,300
MW-02I/I-R	22.5 - 23.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-03	4.94 - 14.94	--	--	--	--	--	--	103	85	--	89	50	0	45
MW-04	5.1 - 15.1	--	--	--	--	--	--	--	90	--	99	--	0	53
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	178	265	363	159	156	--	246	--	225	145	22	21	35
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	1,036	--	--	77	38,045	6,557	3,414	1,558	2,430	6,140	214	72	590
MW-16I	14.0 - 19.0	--	--	--	--	--	--	--	--	0	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	0	0	0	0	0	--	--	--	0	0	0	0	0
MW-29D	14.0 - 19.0	--	--	--	--	--	--	--	--	0	--	--	--	--
MW-30W/W-R	2.0 - 9.0	1,300	228	229	4	125	--	55	--	0	8	2	--	--
MW-32W/W-R	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	11
MW-34S	2.0 - 10.0	518	130	0	30	1	--	0	--	85	0	22	27	130
MW-34I	18.5 - 19.5	--	--	--	--	--	--	--	--	22	--	--	--	--
MW-34D	27.5 - 28.5	--	--	--	--	--	--	--	--	0	--	--	--	0
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2000	2001				2002						2003	
		Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec	Feb-Apr	Jul/Aug
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	10	1,676	11	0	6	--	--	52	2	64	0	--	49
MW-46W/W-R	2.0 - 10.0	228	0	21	--	--	--	--	--	--	--	380	690	264
MW-64	19.0 - 24.0	0	14	2	--	50	--	--	0	1	9	0	1,600	0
MW-65	11.0 - 16.0	13	34	4	--	228	--	--	0	0	0	38	0	65
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	84	2	1	0	4	--	7	--	4	3	0	200	18
MW-73	2.0 - 12.0	--	--	--	--	--	1,471	223	213	738	1,336	280	--	940
MW-73I	22.0-27.0													
MW-75	2.0 - 12.0	--	--	--	--	73	153	93	100	2,553	2,863	58	0	1,700
MW-75I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	--	--	--	--	--	142	105	101	116	115	58	--	15
MW-78	5.0 - 20.0	--	--	--	--	--	1,439	371	278	161	735	66	550	692
MW-79	5.0 - 20.0	--	--	--	--	--	--	120	106	6,015	2,911	234	2,000	1,100
MW-80	5.0 - 20.0	--	--	--	--	--	1,511	88	2,316	152	1,426	53	1,100	1,178
MW-81	5.0 - 20.0	--	--	--	--	--	--	118	129	2,345	1,382	101	780	2,100
MW-82	5.0 - 20.0	--	--	--	--	--	245	138	83	2,784	3,090	49	390	570
MW-83	5.0 - 20.0	--	--	--	--	--	116	98	108	108	180	180	0	14
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	0	--	--	--	--	--
MWBS-02S	5.0 - 15.0	105	242	39	2	84	--	164	--	0	0	0	0	18
MWBS-02I	14.5 - 15.5	261	576	513	122	3	--	4	--	2	8	0	0	--
MWBS-02D	24.5 - 25.5	--	--	--	--	--	--	--	--	0	--	--	0	--
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	247	216	--	112	979	230	96
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	263	330	--	101	53	140	357
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	92	134	--	105	--	0	14
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2000	2001				2002						2003	
		Nov/Dec	Mar	Jun	Sep	Dec	Jan/Feb	Mar	Apr/May	Jun/Jul	Aug/Sep	Nov/Dec	Feb-Apr	Jul/Aug
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	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	--	--	--	--	--	1,538	1,432	1,431	--	--	2,188	13,000	0
PDMW-02	5.0 - 20.0	--	--	--	--	--	1,929	2,181	1,933	5,848	3,250	--	--	1,130
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	--	95	112	99	99	186	103	0	430
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

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2003	2004				2005				2006			
		Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	0	0	68	0	--	--	--	--
BBMW-28I	10.0 - 20.0	--	--	--	--	--	0	0	0	0	--	--	--	--
BBMW-29	2.0 - 9.0	--	--	--	--	--	0	0	0	170	120	37	0	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	--	--	--	--	--	--	--	--	--	0	0	0	0
BW-UST-10	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	0
BW-UST-11	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	0
BW-UST-28	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BW-UST-29	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	786	625	0	0	937	91	350	0	0	0	0	0
MW-01S	4.0 -14.0	--	--	--	--	0	--	--	--	0	--	0	0	0
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	263	0
MW-02S/S-R	2.0 - 12.0	1,500	2,400	2060	254	0	14	0	0	0	0	0	0	0
MW-02I/I-R	22.5 - 23.5	0	0	--	--	--	0	--	--	--	0	--	--	--
MW-03	4.94 - 14.94	--	26	19	43	19	21	34	40	57	0	28	35	34
MW-04	5.1 - 15.1	--	0	0	0	0	0	0	0	0	0	0	0	0
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-11W	2.0 - 10.0	11	0	1729	0	110	0	10	0	27	15	18	0	19
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-13W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2.0 - 10.0	649	0	0	1,022	2,068	3,500	3,900	3,611	1,280	2,183	1,870	1,056	676
MW-16I	14.0 - 19.0	0	0	--	--	--	57	--	--	--	0	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29S	5.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-29D	14.0 - 19.0	--	0	--	--	0	--	--	--	0	--	--	--	--
MW-30W/W-R	2.0 - 9.0	--	--	--	--	--	0	0	0	0	0	0	0	0
MW-32W/W-R	2.0 - 9.0	130	0	0	370	877	55	59	0	180	110	89	98	100
MW-34S	2.0 - 10.0	30	160	130	49	210	212	52	67	110	461	397	210	140
MW-34I	18.5 - 19.5	--	496	--	--	--	290	--	--	--	0	--	--	--
MW-34D	27.5 - 28.5	96	0	--	--	--	0	--	--	--	0	--	--	--
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2003	2004				2005				2006			
		Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	38	170	699	65	341	723	180	424	561	895	74	40	233
MW-46W/W-R	2.0 - 10.0	160	647	150	589	443	1,048	972	1,200	1,045	544	50	233	192
MW-64	19.0 - 24.0	0	0	0	0	120	0	318	0	0	0	0	0	0
MW-65	11.0 - 16.0	0	37	0	0	502	0	0	0	0	0	0	0	0
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-67D	24 - 29 ft	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	32	18	46	260	0	0	170	556	57	91	0	11	13
MW-73	2.0 - 12.0	1,557	843	1,470	1,500	1,030	956	829	1,290	1,800	575	669	1,100	545
MW-73I	22.0-27.0													
MW-75	2.0 - 12.0	1,490	60	0	387	0	22	1,350	2,890	384	100	56	55	0
MW-75I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	120	0	0	0	0	47	0	0	0	14	0	0	0
MW-78	5.0 - 20.0	958	585	707	85	22	463	1,160	493	0	445	493	616	0
MW-79	5.0 - 20.0	1,380	2,000	0	1,200	661	1,400	790	522	104	281	103	41	0
MW-80	5.0 - 20.0	1,700	2,500	1,600	1,390	1,370	2,400	2,200	2,300	1,080	1,200	694	258	1,480
MW-81	5.0 - 20.0	1,611	1,714	696	1,112	1,100	1,700	100	1,210	434	487	274	2,700	807
MW-82	5.0 - 20.0	810	733	276	19	995	233	358	488	1,571	1,140	837	1,137	150
MW-83	5.0 - 20.0	29	0	0	0	76	140	0	150	25	0	0	230	0
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	24	160	75	25	0	150	41	0	0	0	0	0	0
MWBS-02I	14.5 - 15.5	--	0	0	0	0	0	0	0	0	0	0	0	0
MWBS-02D	24.5 - 25.5	--	64	--	--	--	0	--	--	--	16	--	--	--
MW-UST1	2.0 - 12.0	344	0	221	520	52	55	260	392	373	140	520	541	260
MW-UST2	2.0 - 12.0	227	0	297	500	353	621	373	361	208	265	457	227	120
MW-UST3	2.0 - 12.0	25	33	0	0	16	26	0	0	0	0	12	0	0
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2003	2004				2005				2006			
		Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec	March	Jun	Jul/Aug	Nov/Dec
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	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	0	0	0	0	71	0	0	0	0	0	0	0	0
PDMW-02	5.0 - 20.0	1,714	2,300	2,463	1,918	2,316	2,616	2,312	2,716	2,416	2,013	2,420	2,119	3,022
PDMW-03	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	515	0	0	0	0	0	39	190	324	0	0	35	0
SV-02I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	548	536	272	150	130	80	33	0	0	96	57	0	0

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2007				2008				2009				2010
		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
BBMW-09S	5.0 - 15.0	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	0	0	0	0	3	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
BBMW-29	2.0 - 9.0	0	252	0	0	0	0	5	0	0	0	0	0	0
BBMW-30S	2.0 - 10.0	--	0	0	0	0	--	--	--	0	--	--	0	0
BBMW-30I	14.0 - 19.0	--	0	4	0	0	--	--	--	0	--	--	3	0
BBMW-30D	30.0 - 35.0	--	0	0	0	0	--	--	--	0	--	--	0	0
BBMW-31S	2.0 - 10.0	--	0	0	0	0	--	--	--	0	--	--	0	0
BBMW-31I	14.0 - 19.0	--	0	4	0	0	--	--	--	0	--	--	0	2
BBMW-31D	30.0 - 35.0	--	0	0	0	0	--	--	--	0	--	--	0	0
BBMW-32S	2.0 - 10.0	--	0	1	1	0	--	--	--	0	--	--	3	0
BBMW-32I	14.0 - 19.0	--	0	0	0	0	--	--	--	0	--	--	0	0
BBMW-32D	30.0 - 35.0	--	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
BW-UST-10	5.0 - 10.0	0	0	69	0	0	0	0	0	0	0	0	0	0
BW-UST-11	5.0 - 10.0	0	0	68	0	2	1	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
BW-UST-29	5.0 - 10.0	--	0	0	0	0	0	3	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	100	0	0	18	0	4	0	0	0	0	0	0	0
MW-01S	4.0 -14.0	0	0	0	0	0	0	0	0	1	0	0	0	0
MW-01D	35.0 - 45.0	0	0	0	0	0	--	--	--	0	0	0		0
MW-02S/S-R	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	--	--	--
MW-02I/I-R	22.5 - 23.5	0	0	0	0	0	0	0	0	0	0	--	--	--
MW-03	4.94 - 14.94	35	11	56	0	12	0	0	28	0	0	82	16	0
MW-04	5.1 - 15.1	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	0	5	1	2	0	0	0	0	0	0	1	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	842	232	280	579	922	355	552	104	28	143	--	--	--
MW-16I	14.0 - 19.0	0	44	0	0	0	0	0	0	0	0	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-24D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	3	0	0	0	0	0	--	--	--
MW-29S	5.0 - 10.0	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
MW-30W/W-R	2.0 - 9.0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-32W/W-R	2.0 - 9.0	97	45	47	105	123	38	12	0	3	6	4	4	0
MW-34S	2.0 - 10.0	150	68	110	402	81	186	51	42	83	105	17	0	15
MW-34I	18.5 - 19.5	0	0	0	124	12	0	0	0	0	0	0	0	0
MW-34D	27.5 - 28.5	0	0	0	6	0	0	0	0	0	0	0	0	0
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-37W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2007				2008				2009				2010
		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
MW-39W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-45W	2.0 - 10.0	0	0	10	9	0	0	0	0	10	153	60	0	2
MW-46W/W-R	2.0 - 10.0	37	71	47	74	102	24	0	39	39	60	31	10	19
MW-64	19.0 - 24.0	0	0	0	0	0	0	0	0	0	9	3	0	0
MW-65	11.0 - 16.0	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
MW-66D	24.0 - 29.0	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	0	0	10	13	39	25	96	22	14	8	13	0	25
MW-73	2.0 - 12.0	497	345	495	1,189	444	105	1	0	97	1,308	1,295	480	588
MW-73I	22.0-27.0													
MW-75	2.0 - 12.0	0	0	180	47	0	0	1,024	0	1	101	1,667	30	38
MW-75I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-76	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-78	5.0 - 20.0	0	46	40	31	0	0	0	0	0	191	0	0	0
MW-79	5.0 - 20.0	140	0	0	0	90	1	6	0	13	0	0	3	0
MW-80	5.0 - 20.0	831	601	884	1,173	277	509	790	701	522	568	79	467	11
MW-81	5.0 - 20.0	1,068	448	1,130	1,508	480	0	50	4	19	0	0	1,306	59
MW-82	5.0 - 20.0	234	286	127	306	0	1	0	448	0	0	2	72	0
MW-83	5.0 - 20.0	0	0	0	2	0	0	1	0	0	0	0	0	0
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	0	0	0	0	0	7	0	0	3	1	7	13	122
MWBS-02I	14.5 - 15.5	10	0	0	0	0	0	0	0	0	0	0	0	0
MWBS-02D	24.5 - 25.5	22	0	0	0	0	0	0	0	0	0	0	0	0
MW-UST1	2.0 - 12.0	358	363	239	140	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	155	59	450	550	--	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	0	0	0	0	--	--	--	--	--	--	--	--	--
OU3MW-01S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	0	0	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	--	--	--	--	--	--	--	--	--	--	2	0	0
OU3MW-03I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU3MW-04S	1.0 - 11.0	--	--	--	--	--	--	--	--	--	--	19	21	0
OU3MW-04I	16.0 - 21.0	--	--	--	--	--	--	--	--	--	--	9	0	0
OU3MW-04D	26.0 - 31.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-05S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	0	0
OU3MW-05I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	0	0
OU3MW-06	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	0	0	0
OU3MW-07S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	527
OU3MW-07I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-07I2	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2.0-12.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2007				2008				2009				2010
		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
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	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	0	0	0	1,464	0	0	2	0	0	0	--	0	0
PDMW-02	5.0 - 20.0	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	133	0	0	3	0	0	0	0	669	0	0
SV-02I	22.0-27.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02I2	35.0-40.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	17	0	31	72	17	0	0	0	0	0	1	0	0

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2010			2011				2012				2013	
		Apr-Jun	Jul-Sep	Oct-Dec	Mar-Apr	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	0	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
BBMW-28I	10.0 - 20.0	0	0	0	0	7	--	0	0	0	0	0	0	0
BBMW-29	2.0 - 9.0	0	0	0	0	0	2	0	0	0	0	0	0	0
BBMW-30S	2.0 - 10.0	0	0	0	0	0	0	0	4	0	0	--	0	0
BBMW-30I	14.0 - 19.0	0	0	0	0	0	0	0	0	1	5	--	0	0
BBMW-30D	30.0 - 35.0	0	0	0	0	0	0	0	0	0	2	--	0	0
BBMW-31S	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-31I	14.0 - 19.0	0	12	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
BBMW-32S	2.0 - 10.0	0	0	1	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
BBMW-32D	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	--	0	0
BBMW-33	7.0 - 12.0	0	0	0	0	0	--	0	0	0	0	0	0	0
BW-UST-10	5.0 - 10.0	0	0	0	0	--	--	--	0	--	--	--	--	--
BW-UST-11	5.0 - 10.0	0	0	0	0	--	--	--	16	--	--	--	--	--
BW-UST-28	5.0 - 10.0	0	0	0	0	--	--	--	0	--	--	--	--	--
BW-UST-29	5.0 - 10.0	0	0	0	0	--	--	--	0	--	--	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	0	102	0	992	1,285	682	689	704	876	0	0	0	0
MW-01S	4.0 -14.0	0	0	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	62	0	0	3	--	--	--	6	--	--	--	--	--
MW-04	5.1 - 15.1	0	0	0	0	--	--	--	0	--	--	--	--	--
MW-08W	5.0 - 10.0	--	--	--	--	--	--	--	0	--	--	--	--	--
MW-11W	2.0 - 10.0	0	0	0	0	0	0	1	2	8	37	38	3	0
MW-12W	2.0 - 10.0	0	0	0	0	0	0	0	0	47	0	0	7	52
MW-13W	2.0 - 10.0	--	--	--	--	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	--	--	--	--	--
MW-29D	14.0 - 19.0	0	--	--	0	--	--	--	0	--	--	--	--	--
MW-30W/W-R	2.0 - 9.0	0	0	0	0	0	0	0	0	1	0	--	0	0
MW-32W/W-R	2.0 - 9.0	0	0	0	0	0	29	39	14	3	0	16	0	0
MW-34S	2.0 - 10.0	14	49	702	112	78	229	179	284	196	120	134	0	0
MW-34I	18.5 - 19.5	0	247	0	150	234	832	598	869	696	8	23	0	7
MW-34D	27.5 - 28.5	0	0	0	0	0	306	290	40	281	82	0	0	11
MW-34DD	27.5 - 28.5	--	--	--	--	--	--	--	0	--	--	0	--	0
MW-37W	2.0 - 10.0	--	--	--	--	0	0	0	0	0	0	0	0	0

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2010			2011				2012				2013	
		Apr-Jun	Jul-Sep	Oct-Dec	Mar-Apr	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
MW-39W	2.0 - 10.0	--	--	--	--	0	0	0	0	0	0	0	0	0
MW-45W	2.0 - 10.0	0	1	0	0	0	0	0	0	0	0	0	0	0
MW-46W/W-R	2.0 - 10.0	3	173	168	195	103	92	51	27	95	3	1	0	0
MW-64	19.0 - 24.0	0	284	806	1,067	995	1,183	516	500	2,199	2,168	1,134	648	370
MW-65	11.0 - 16.0	0	0	0	0	0	0	1,415	1,268	299	208	201	76	3
MW-66S	1.5 - 11.5	0	0	0	0	0	0	0	0	0	0	--	0	0
MW-66D	24.0 - 29.0	0	0	0	0	0	0	0	0	0	0	--	0	0
MW-67S	2.5 - 12.5	--	--	--	--	--	--	--	0	--	--	--	--	0
MW-67D	24 - 29 ft	--	--	--	--	--	--	--	0	--	--	--	--	0
MW-68S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	0	0
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	0	0
MW-70/70S	2.0 - 12.0	2	102	179	182	222	319	257	295	243	264	40	1	0
MW-73	2.0 - 12.0	1,169	234	19	37	190	175	171	16	183	123	89	31	92
MW-73I	22.0-27.0				--	--	698	131	96	134	120	130	80	95
MW-75	2.0 - 12.0	0	2,178	435	0	0	765	10	0	0	395	114	1	0
MW-75I	22.0-27.0	--	--	--	--	--	656	656	3,289	469	670	837	230	105
MW-76	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0
MW-78	5.0 - 20.0	--	0	36	58	0	37	155	264	1	527	476	176	744
MW-79	5.0 - 20.0	0	0	675	32	0	623	6	443	5	1,206	838	246	894
MW-80	5.0 - 20.0	321	841	677	215	0	640	14	79	487	229	275	223	121
MW-81	5.0 - 20.0	697	547	236	86	0	463	5	126	563	850	784	27	107
MW-82	5.0 - 20.0	48	33	209	50	0	326	182	522	319	0	341	74	74
MW-83	5.0 - 20.0	0	0	0	11	7	23	0	242	249	5	78	0	6
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5.0 - 15.0	45	33	0	0	0	0	0	88	31	2	0	0	0
MWBS-02I	14.5 - 15.5	0	0	0	0	0	0	0	5	5	14	14	0	0
MWBS-02D	24.5 - 25.5	0	0	0	0	0	0	0	0	174	160	3	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	1	0	0	0	0	0
OU3MW-02S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-02I	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU3MW-03S	1.0 - 11.0	0	0	0	34	160	17	100	110	35	28	12	19	0
OU3MW-03I	20.0 - 25.0	6	0	0	40	57	368	33	13	28	252	21	0	611
OU3MW-04S	1.0 - 11.0	0	0	8	69	25	0	0	0	1	0	0	0	0
OU3MW-04I	16.0 - 21.0	30	44	0	0	2	24	15	0	0	0	0	0	0
OU3MW-04D	26.0 - 31.0	0	0	0	0	0	32	690	297	134	804	402	0	26
OU3MW-04D2	31.0 - 36.0	--	--	--	--	--	--	--	0	6	195	126	0	1
OU3MW-04D3	41.0 - 46.0	--	--	--	--	--	--	--	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
OU3MW-05I	15.0 - 20.0	0	0	0	6	12	0	0	0	0	3	7	10	156
OU3MW-06	3.0 - 13.0	0	10	0	0	3	0	0	0	0	0	0	0	0
OU3MW-07S	3.0 - 13.0	36	13	5	0	1	0	0	0	0	0	0	0	0
OU3MW-07I	15.0 - 20.0	0	0	0	73	21	0	0	0	77	1	86	0	0
OU3MW-07I2	20.0 - 25.0	0	0	0	91	654	695	257	1,020	517	6	5	1	1
OU3MW-07I3	25.0 - 30.0	--	--	--	--	--	--	--	1,800	0	3	0	0	3
OU3MW-07I4	35.0 - 40.0	--	--	--	--	--	--	--	0	0	0	0	0	0
OU3MW-08S	2.0-12.0	--	--	297	449	0	855	0	376	360	206	153	397	28

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)												
		Sampling Date												
		2010			2011				2012				2013	
		Apr-Jun	Jul-Sep	Oct-Dec	Mar-Apr	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun
OU3MW-08I	25.0-30.0	--	--	0	0	0	0	0	0	2	0	--	--	0
OU3MW-09S	2.0-12.0	--	--	345	0	0	61	3	0	0	4	8	0	0
OU3MW-09I	25.0-30.0	--	--	1,453	1,528	1,207	1,765	1,973	1,263	331	259	525	267	283
OU3MW-09I2	35.0-40.0	--	--		--	--	0	2	3	2	4	2	2	9
OU3MW-10S	2.0-12.0	--	--	417	240	225	123	0	42	51	16	3	0	0
OU3MW-10I	25.0-30.0	--	--	0	0	0	0	30	116	28	85	79	0	120
OU3MW-11S	2.0-12.0	--	--	0	0	0	0	0	2	0	0	--	--	0
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
OU3MW-14S	2.0-12.0	--	--	--	--	--	785	579	641	660	612	661	413	380
OU3MW-15S	2.0-12.0	--	--	--	--	--	377	113	19	0	277	260	4	12
OU3MW-16S	2.0-12.0	--	--	--	--	--	9	110	140	220	191	120	263	161
OU3MW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-17I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-17I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	0
OU3MW-18I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	52
OU3MW-18I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	3
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	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	0	0	0	0	4	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	770	0	0	0	6	1	1	0	9	0	0	0
SV-02I	22.0-27.0	--	--	--	--	--	1,075	133	104	618	626	1,688	386	68
SV-02I2	35.0-40.0	--	--	--	--	--	0	0	0	5	5	0	0	0
SV-03	2.0 - 12.0	0	0	1	0	0	0	6	11	17	39	8	6	1

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)								
		Sampling Date				Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2013		2014						
		Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
BBMW-09S	5.0 - 15.0	--	--	--	--	0	99	7	0	99
BBMW-09I	30.0 - 40.0	--	--	--	--	0	150	17	0	150
BBMW-09D	62.0 - 72.0	--	--	--	--	0	0	0	0	0
BBMW-28S	2.0 - 12.0	0	0	0	0	0	68	2	0	68
BBMW-28I	10.0 - 20.0	0	0	0	0	0	7	0	0	7
BBMW-29	2.0 - 9.0	2	0	0	0	0	252	16	0	252
BBMW-30S	2.0 - 10.0	--	--	--	0	0	4	0	0	4
BBMW-30I	14.0 - 19.0	--	--	--	3	0	5	1	0	5
BBMW-30D	30.0 - 35.0	--	--	--	0	0	2	0	0	2
BBMW-31S	2.0 - 10.0	0	0	0	0	0	0	0	0	0
BBMW-31I	14.0 - 19.0	0	0	0	0	0	12	1	0	12
BBMW-31D	30.0 - 35.0	0	0	0	0	0	0	0	0	0
BBMW-32S	2.0 - 10.0	--	--	--	0	0	3	0	0	3
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
BW-UST-10	5.0 - 10.0	--	--	--	--	0	69	4	0	69
BW-UST-11	5.0 - 10.0	--	--	--	--	0	68	5	0	68
BW-UST-28	5.0 - 10.0	--	--	--	--	0	0	0	0	0
BW-UST-29	5.0 - 10.0	--	--	--	--	0	3	0	0	3
GM-02AS	8.91 - 23.91	--	--	--	--	0	0	0	0	0
GM-02AI	35.24 - 50.24	--	--	--	--	0	0	0	0	0
GM-02AD	59.8 - 74.8	--	--	--	--	0	0	0	0	0
IO-10	6.0 - 16.0	0	4	0	0	0	1,285	201	0	1,285
MW-01S	4.0 -14.0	--	--	--	--	0	1	0	0	1
MW-01D	35.0 - 45.0	--	--	--	--	0	263	16	0	263
MW-02S/S-R	2.0 - 12.0	--	--	--	--	0	21,640	2,517	0	21,640
MW-02I/I-R	22.5 - 23.5	--	--	--	--	0	6,478	278	0	6,478
MW-03	4.94 - 14.94	--	--	--	--	0	103	30	0	103
MW-04	5.1 - 15.1	--	--	--	--	0	99	9	0	99
MW-08W	5.0 - 10.0	--	--	--	--	0	0	0	0	0
MW-11W	2.0 - 10.0	0	--	2	0	0	861	82	0	861
MW-12W	2.0 - 10.0	0	0	0	0	0	52	4	0	52
MW-13W	2.0 - 10.0	0	0	0	0	0	0	0	0	0
MW-16W	2.0 - 10.0	--	--	--	--	3	3	3	3	3
MW-16SR	2.0 - 10.0	--	--	--	--	0	38,045	2,885	0	38,045
MW-16I	14.0 - 19.0	--	--	--	--	0	57	5	0	57
MW-17W	2.0 - 10.0	--	--	--	--	11	11	11	11	11
MW-24D	14.0 - 19.0	--	--	--	--	0	1	0	0	1
MW-26D	14.0 - 19.0	--	--	--	--	0	3	1	0	3
MW-29S	5.0 - 10.0	--	--	--	--	0	516	12	0	516
MW-29D	14.0 - 19.0	--	--	--	--	0	2	0	0	2
MW-30W/W-R	2.0 - 9.0	0	0	0	0	0	1,300	59	0	1,300
MW-32W/W-R	2.0 - 9.0	0	0	0	0	0	1,435	132	0	1,435
MW-34S	2.0 - 10.0	0	0	0	0	0	1,604	238	0	1,604
MW-34I	18.5 - 19.5	1	0	26	0	0	869	115	0	869
MW-34D	27.5 - 28.5	0	37	0	0	0	306	26	0	306
MW-34DD	27.5 - 28.5	0	0	0	0	0	0	0	0	0
MW-37W	2.0 - 10.0	3	0	0	0	0	3	0	0	3

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)								
		Sampling Date				Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2013		2014						
		Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
MW-39W	2.0 - 10.0	0	0	0	0	0	0	0	0	0
MW-45W	2.0 - 10.0	0	0	0	0	0	1,676	132	0	1,676
MW-46W/W-R	2.0 - 10.0	0	2	0	0	0	4,156	355	0	4,156
MW-64	19.0 - 24.0	267	0	598	193	0	2,199	242	0	2,199
MW-65	11.0 - 16.0	20	57	24	22	0	1,415	80	0	1,415
MW-66S	1.5 - 11.5	--	0	0	0	0	1	0	0	1
MW-66D	24.0 - 29.0	--	0	0	0	0	2	0	0	2
MW-67S	2.5 - 12.5	--	0	0	0	0	0	0	0	0
MW-67D	24 - 29 ft	--	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	0	0	0	0	0	3	0	0	3
MW-70/70S	2.0 - 12.0	0	1	0	0	0	1,720	105	0	1,720
MW-73	2.0 - 12.0	5	0	0	0	0	1,800	587	0	1,800
MW-73I	22.0-27.0	124	0	0	0	0	698	146	0	698
MW-75	2.0 - 12.0	0	0	0	0	0	2,890	419	0	2,890
MW-75I	22.0-27.0	176	8	10	3	8	3,289	646	3	3,289
MW-76	2.0 - 12.0	0	0	0	0	0	142	17	0	142
MW-78	5.0 - 20.0	743	4	0	0	0	1,439	283	0	1,439
MW-79	5.0 - 20.0	474	0	2	0	0	6,015	544	0	6,015
MW-80	5.0 - 20.0	188	0	11	0	0	2,500	795	0	2,500
MW-81	5.0 - 20.0	205	0	0	0	0	2,700	646	0	2,700
MW-82	5.0 - 20.0	180	0	0	0	0	3,090	399	0	3,090
MW-83	5.0 - 20.0	0	0	7	3	0	249	42	0	249
MWBS-01S	5.0 - 15.0	--	--	--	--	0	64	22	0	64
MWBS-02S	5.0 - 15.0	0	0	0	0	0	274	43	0	274
MWBS-02I	14.5 - 15.5	0	8	0	0	0	696	59	0	696
MWBS-02D	24.5 - 25.5	0	0	0	0	0	254	22	0	254
MW-UST1	2.0 - 12.0	--	--	--	--	0	979	289	0	979
MW-UST2	2.0 - 12.0	--	--	--	--	0	621	281	0	621
MW-UST3	2.0 - 12.0	--	--	--	--	0	134	21	0	134
OU3MW-01S	3.0 - 13.0	0	0	0	0	0	1	0	0	1
OU3MW-02S	3.0 - 13.0	0	0	0	0	0	0	0	0	0
OU3MW-02I	15.0 - 20.0	0	0	0	0	0	0	0	0	0
OU3MW-03S	1.0 - 11.0	0	0	0	0	0	160	27	0	160
OU3MW-03I	20.0 - 25.0	5	209	1	0	0	611	87	0	611
OU3MW-04S	1.0 - 11.0	0	0	0	0	0	69	8	0	69
OU3MW-04I	16.0 - 21.0	0	0	0	0	0	44	7	0	44
OU3MW-04D	26.0 - 31.0	0	0	0	0	0	804	126	0	804
OU3MW-04D2	31.0 - 36.0	0	0	0	0	0	195	36	0	195
OU3MW-04D3	41.0 - 46.0	0	0	0	0	0	0	0	0	0
OU3MW-05S	2.0 - 12.0	0	0	0	0	0	0	0	0	0
OU3MW-05I	15.0 - 20.0	29	0	0	0	0	156	12	0	156
OU3MW-06	3.0 - 13.0	0	0	0	0	0	10	1	0	10
OU3MW-07S	3.0 - 13.0	0	0	0	0	0	527	34	0	527
OU3MW-07I	15.0 - 20.0	0	0	0	0	0	86	15	0	86
OU3MW-07I2	20.0 - 25.0	79	0	0	0	0	1,020	196	0	1,020
OU3MW-07I3	25.0 - 30.0	0	0	0	0	0	1,800	201	0	1,800
OU3MW-07I4	35.0 - 40.0	0	0	0	0	0	0	0	0	0
OU3MW-08S	2.0-12.0	285	468	383	247	0	855	304	0	855

Table 4-12. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentrations (µg/L)								
		Sampling Date				Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2013		2014						
		Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
OU3MW-08I	25.0-30.0	--	--	--	0	0	2	0	0	2
OU3MW-09S	2.0-12.0	0	0	0	0	0	345	30	0	345
OU3MW-09I	25.0-30.0	184	121	123	55	121	1,973	806	55	1,973
OU3MW-09I2	35.0-40.0	2	2	1	1	0	9	3	0	9
OU3MW-10S	2.0-12.0	0	0	0	0	0	417	80	0	417
OU3MW-10I	25.0-30.0	121	105	97	132	0	121	56	0	132
OU3MW-11S	2.0-12.0	--	--	--	4	0	2	0	0	4
OU3MW-11I	25.0-30.0	--	--	--	0	0	0	0	0	0
OU3MW-12S	2.0-12.0	--	--	--	0	0	0	0	0	0
OU3MW-12I	25.0-30.0	--	--	--	0	0	0	0	0	0
OU3MW-13S	2.0-12.0	262	0	0	89	0	1,244	358	0	1,244
OU3MW-14S	2.0-12.0	778	3	2	0	2	785	501	0	785
OU3MW-15S	2.0-12.0	282	3	0	0	0	377	122	0	377
OU3MW-16S	2.0-12.0	0	8	61	94	0	263	117	0	263
OU3MW-17S	2.0 - 12.0	0	0	0	0	0	0	0	0	0
OU3MW-17I	15.0 - 20.0	0	0	0	0	0	0	0	0	0
OU3MW-17I2	25.0 - 30.0	0	0	0	0	0	0	0	0	0
OU3MW-18I	15.0 - 20.0	2	1	0	0	0	52	14	0	52
OU3MW-18I2	25.0 - 30.0	0	0	0	0	0	3	1	0	3
OU3MW-19S	2.0 - 12.0	640	1,004	308	--	308	1,004	651	308	1,004
OU3MW-19I	20.0 - 25.0	17	61	0	--	0	61	26	0	61
OU3MW-19I2	30.0 - 35.0	0	0	0	--	0	0	0	0	0
OU3MW-20S	2.0 - 12.0	23	11	1	2	1	23	12	1	23
OU3MW-20I	20.0 - 25.0	310	421	3	0	3	421	245	0	421
OU3MW-20I2	30.0 - 35.0	0	6	0	0	0	6	2	0	6
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	14	5	0	14
PDMW-01	5.0 - 20.0	--	--	--	0	0	13,000	503	0	13,000
PDMW-02	5.0 - 20.0	--	--	--	--	1,130	5,848	2,421	1,130	5,848
PDMW-03	5.0 - 15.0	--	--	--	--	1,619	2,108	1,887	1,619	2,108
SV-02	2.0 - 12.0	0	0	0	0	0	770	76	0	770
SV-02I	22.0-27.0	51	3	0	0	0	1,688	432	0	1,688
SV-02I2	35.0-40.0	0	0	0	0	0	5	1	0	5
SV-03	2.0 - 12.0	6	5	0	0	0	548	75	0	548

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

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		BBMW-28S	BBMW-28S	BBMW-28S	BBMW-28S	BBMW-28I	BBMW-28I	BBMW-28I	BBMW-28I	BBMW-29	BBMW-29	BBMW-29	BBMW-29	BBMW-30S	BBMW-30I
	Start Depth		2	2	2	2	10	10	10	10	2	2	2	2	2	14
	End Depth		12	12	12	12	20	20	20	20	9	9	9	9	10	19
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		07/09/13	11/11/13	02/12/14	04/28/14	07/09/13	11/11/13	02/12/14	04/28/14	07/31/13	11/13/13	03/05/14	06/03/14	05/06/14	05/06/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	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
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		BBMW-28S	BBMW-28S	BBMW-28S	BBMW-28S	BBMW-28I	BBMW-28I	BBMW-28I	BBMW-28I	BBMW-29	BBMW-29	BBMW-29	BBMW-29	BBMW-30S	BBMW-30I
	Start Depth		2	2	2	2	10	10	10	10	2	2	2	2	2	14
	End Depth		12	12	12	12	20	20	20	20	9	9	9	9	10	19
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		07/09/13	11/11/13	02/12/14	04/28/14	07/09/13	11/11/13	02/12/14	04/28/14	07/31/13	11/13/13	03/05/14	06/03/14	05/06/14	05/06/14
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	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	**3 J**
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	**2**	ND	ND	ND	ND	**3**

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		DUP-10Q2	BBMW-30D	BBMW-31S	BBMW-31S	BBMW-31S	BBMW-31S	BBMW-31I	BBMW-31I	BBMW-31I	BBMW-31I	BBMW-31D	BBMW-31D	BBMW-31D	BBMW-31D
	Start Depth		14	30	2	2	2	2	14	14	14	14	30	30	30	30
	End Depth		19	35	10	10	10	10	19	19	19	19	35	35	35	35
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		05/06/14	05/06/14	07/10/13	12/12/13	02/27/14	06/10/14	07/09/13	12/12/13	02/27/14	06/10/14	07/09/13	12/10/13	02/27/14	06/10/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	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
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		DUP-10Q2	BBMW-30D	BBMW-31S	BBMW-31S	BBMW-31S	BBMW-31S	BBMW-31I	BBMW-31I	BBMW-31I	BBMW-31I	BBMW-31D	BBMW-31D	BBMW-31D	BBMW-31D
	Start Depth		14	30	2	2	2	2	14	14	14	14	30	30	30	30
	End Depth		19	35	10	10	10	10	19	19	19	19	35	35	35	35
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		05/06/14	05/06/14	07/10/13	12/12/13	02/27/14	06/10/14	07/09/13	12/12/13	02/27/14	06/10/14	07/09/13	12/10/13	02/27/14	06/10/14
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	**3**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		BBMW-32S	BBMW-32I	BBMW-32D	BBMW-33	BBMW-33	BBMW-33	BBMW-33	IO-10	IO-10	IO-10	IO-10	IO-10	IO-10	MW-11W	MW-11W
	Start Depth		2	14	30	7	7	7	7	6	6	6	6	6	6	2	2
	End Depth		10	19	35	12	12	12	12	16	16	16	16	16	16	10	10
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		04/09/14	04/09/14	04/09/14	08/21/13	12/13/13	03/07/14	05/12/14	07/03/13	08/16/13	11/21/13	03/12/14	04/23/14	07/11/13	08/09/13	
Analyte	**Units**	**NYS AWQS**															
BTEX																	
Benzene	µg/L	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	10 U	
Toluene	µg/L	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	10 U	
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	1 U	1 U	1 U	10 U	
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U	10 U	
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	**3**	ND	ND	ND	ND	
Other VOCs																	
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		BBMW-32S	BBMW-32I	BBMW-32D	BBMW-33	BBMW-33	BBMW-33	BBMW-33	IO-10	IO-10	IO-10	IO-10	IO-10	MW-11W	MW-11W
	Start Depth		2	14	30	7	7	7	7	6	6	6	6	6	2	2
	End Depth		10	19	35	12	12	12	12	16	16	16	16	16	10	10
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		04/09/14	04/09/14	04/09/14	08/21/13	12/13/13	03/07/14	05/12/14	07/03/13	08/16/13	11/21/13	03/12/14	04/23/14	07/11/13	08/09/13
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	**4 J**	10 U	10 U	--	--
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	--	ND	**4**	ND	ND	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-11W	MW-11W	MW-11W	MW-12W	MW-12W	MW-12W	DUP-11 Q3	MW-12W	MW-12W	MW-12W	MW-13W	MW-13W	MW-13W	MW-13W	MW-30WR
	Start Depth		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	End Depth		10	10	10	10	10	10	10	10	10	10	10	10	10	10	9
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		09/12/13	03/17/14	05/01/14	07/03/13	08/01/13	08/21/13	08/21/13	11/08/13	03/12/14	05/01/14	08/26/13	12/05/13	03/18/14	05/12/14	08/16/13
Analyte	**Units**	**NYS AWQS**															
BTEX																	
Benzene	µg/L	1	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	10 U	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	**2**	ND	ND	ND	ND	ND	ND	ND
Other VOCs																	
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-11W	MW-11W	MW-11W	MW-12W	MW-12W	MW-12W	DUP-11 Q3	MW-12W	MW-12W	MW-12W	MW-13W	MW-13W	MW-13W	MW-13W	MW-30WR
	Start Depth		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	End Depth		10	10	10	10	10	10	10	10	10	10	10	10	10	10	9
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		09/12/13	03/17/14	05/01/14	07/03/13	08/01/13	08/21/13	08/21/13	11/08/13	03/12/14	05/01/14	08/26/13	12/05/13	03/18/14	05/12/14	08/16/13
Analyte	**Units**	**NYS AWQS**															
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																	
Acenaphthene	µg/L	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	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	**1 J**	10 U	--	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	**1 J**	10 U	--	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	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	µg/L	10*	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	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	µg/L	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)	µg/L	NE	ND	**2**	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-30WR	MW-30WR	MW-30WR	MW-32WR	MW-32WR	MW-32WR	DUP-09-Q1	MW-32WR	MW-34S	MW-34S	MW-34S	MW-34S	MW-34S	MW-34S
	Start Depth		2	2	2	2	2	2	2	2	2	2	2	2	2	2
	End Depth		9	9	9	9	9	9	9	9	10	10	10	10	10	10
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		11/13/13	03/07/14	05/05/14	08/16/13	12/11/13	03/07/14	03/07/14	05/06/14	07/08/13	08/15/13	09/05/13	11/22/13	02/12/14	05/23/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	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
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	**1**	ND	ND	ND	ND	ND	ND	ND	**1**	ND	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-30WR	MW-30WR	MW-30WR	MW-32WR	MW-32WR	MW-32WR	DUP-09-Q1	MW-32WR	MW-34S	MW-34S	MW-34S	MW-34S	MW-34S	MW-34S
	Start Depth		2	2	2	2	2	2	2	2	2	2	2	2	2	2
	End Depth		9	9	9	9	9	9	9	9	10	10	10	10	10	10
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		11/13/13	03/07/14	05/05/14	08/16/13	12/11/13	03/07/14	03/07/14	05/06/14	07/08/13	08/15/13	09/05/13	11/22/13	02/12/14	05/23/14
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	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	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	--	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	--	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	--	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	--	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	--	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	--	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	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	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	--	10 U	10 U	10 U
Phenanthrene	µg/L	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	µg/L	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)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	--	ND	--	ND	ND	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-34I	MW-34I	MW-34I	MW-34I	MW-34I	MW-34I	DUP-08 Q4	MW-34I	MW-34I	MW-34I	MW-34I	MW-34D	MW-34D	MW-34D	MW-34D	MW-34D
	Start Depth		18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	27.5	27.5	27.5	27.5	27.5
	End Depth		19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	28.5	28.5	28.5	28.5	28.5
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		07/08/13	08/05/13	08/15/13	09/05/13	10/08/13	11/22/13	11/22/13	02/12/14	05/02/14	05/23/14	06/04/14	07/08/13	08/05/13	08/15/13	11/22/13	02/12/14
Analyte	**Units**	**NYS AWQS**																
BTEX																		
Benzene	µg/L	1	1 U	10 U	1 U	1 U	10 U	1 U	1 U	**1**	10 U	1 U	10 U	1 U	10 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	10 U	1 U	1 U	10 U	1 U	1 U	**19**	10 U	1 U	10 U	1 U	10 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	10 U	1 U	1 U	10 U	1 U	1 U	**90**	10 U	1 U	10 U	**7**	10 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**13**	**25**	**13**	**13**	10 U	**4**	**4**	**400**	10 U	1 U	10 U	**47**	10 U	**1**	**14**	1 U
Total BTEX (ND=0)	µg/L	NE	**13**	**25**	**13**	**13**	ND	**4**	**4**	**510**	ND	ND	ND	**54**	ND	**1**	**14**	ND
Other VOCs																		
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-34I	MW-34I	MW-34I	MW-34I	MW-34I	MW-34I	DUP-08 Q4	MW-34I	MW-34I	MW-34I	MW-34I	MW-34D	MW-34D	MW-34D	MW-34D	MW-34D
	Start Depth		18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5	27.5	27.5	27.5	27.5	27.5
	End Depth		19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	28.5	28.5	28.5	28.5	28.5
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		07/08/13	08/05/13	08/15/13	09/05/13	10/08/13	11/22/13	11/22/13	02/12/14	05/02/14	05/23/14	06/04/14	07/08/13	08/05/13	08/15/13	11/22/13	02/12/14
Analyte	**Units**	**NYS AWQS**																
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																		
Acenaphthene	µg/L	20*	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
Anthracene	µg/L	50*	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
Chrysene	µg/L	0.002*	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
Fluoranthene	µg/L	50*	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
Fluorene	µg/L	50*	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
Naphthalene	µg/L	10*	--	--	**1 J**	--	--	10 U	10 U	**26**	--	10 U	--	--	--	10 U	**37**	10 U
Phenanthrene	µg/L	50*	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
Pyrene	µg/L	50*	--	--	10 U	--	--	10 U	10 U	10 U	--	10 U	--	--	--	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	--	--	**1**	--	--	ND	ND	**26**	--	ND	--	--	--	ND	**37**	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-34D	MW-34DD	MW-34DD	MW-34DD	MW-34DD	MW-37W	MW-37W	DUP-12 Q3	MW-37W	MW-37W	MW-37W	MW-39W	MW-39W	MW-39W
	Start Depth		27.5	36	36	36	36	2	2	2	2	2	2	2	2	2
	End Depth		28.5	41	41	41	41	10	10	10	10	10	10	10	10	10
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		05/23/14	08/15/13	11/22/13	02/12/14	05/23/14	07/03/13	08/22/13	08/22/13	12/13/13	03/10/14	06/03/14	07/03/13	08/22/13	12/13/13
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	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
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	**21**	**20**	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	**21**	**21**	ND	ND	ND	ND	ND	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-34D	MW-34DD	MW-34DD	MW-34DD	MW-34DD	MW-37W	MW-37W	DUP-12 Q3	MW-37W	MW-37W	MW-37W	MW-39W	MW-39W	MW-39W
	Start Depth		27.5	36	36	36	36	2	2	2	2	2	2	2	2	2
	End Depth		28.5	41	41	41	41	10	10	10	10	10	10	10	10	10
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		05/23/14	08/15/13	11/22/13	02/12/14	05/23/14	07/03/13	08/22/13	08/22/13	12/13/13	03/10/14	06/03/14	07/03/13	08/22/13	12/13/13
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	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	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U
2-Methylnaphthalene	µg/L	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	µg/L	10*	10 U	10 U	10 U	10 U	10 U	--	**3 J**	**3 J**	10 U	10 U	10 U	--	10 U	10 U
Phenanthrene	µg/L	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	µg/L	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)	µg/L	NE	ND	ND	ND	ND	ND	--	**3**	**3**	ND	ND	ND	--	ND	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-39W	MW-39W	MW-45W	MW-45W	MW-45W	MW-45W	MW-45W	MW-46WR	MW-46WR	MW-46WR	MW-46WR	MW-46WR	MW-46WR	MW-46WR	MW-64
	Start Depth		2	2	2	2	2	2	2	19	2	2	2	2	2	2	19
	End Depth		10	10	10	10	10	10	10	24	10	10	10	10	10	10	24
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		03/10/14	06/12/14	07/03/13	08/21/13	12/19/13	03/10/14	06/06/14	02/24/14	08/16/13	11/21/13	03/07/14	04/28/14	05/05/14	06/04/14	07/31/13
Analyte	**Units**	**NYS AWQS**															
BTEX																	
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	**2**	1 U	1 U	1 U	10 U	**23**
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	**4**	1 U	1 U	1 U	10 U	**190**
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	**30**	1 U	1 U	1 U	10 U	**780 D**
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	**120**	1 U	1 U	1 U	10 U	**600**
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	**156**	ND	ND	ND	ND	**1593**
Other VOCs																	
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-39W	MW-39W	MW-45W	MW-45W	MW-45W	MW-45W	MW-45W	MW-46WR	MW-46WR	MW-46WR	MW-46WR	MW-46WR	MW-46WR	MW-46WR	MW-64
	Start Depth		2	2	2	2	2	2	2	19	2	2	2	2	2	2	19
	End Depth		10	10	10	10	10	10	10	24	10	10	10	10	10	10	24
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		03/10/14	06/12/14	07/03/13	08/21/13	12/19/13	03/10/14	06/06/14	02/24/14	08/16/13	11/21/13	03/07/14	04/28/14	05/05/14	06/04/14	07/31/13
Analyte	**Units**	**NYS AWQS**															
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																	
Acenaphthene	µg/L	20*	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	**4 J**
Acenaphthylene	µg/L	NE	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	**3 J**
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Chrysene	µg/L	0.002*	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Fluoranthene	µg/L	50*	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	**10**
Naphthalene	µg/L	10*	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	**2 J**	10 U	10 U	--	--	**250 D**
Phenanthrene	µg/L	50*	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	--	ND	ND	ND	ND	--	ND	**2**	ND	ND	--	--	**267**

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-64	MW-64	MW-64	MW-65	MW-65	MW-65	MW-65	MW-66S	MW-66S	MW-66S	MW-66D	MW-66D	MW-66D	MW-67S
	Start Depth		19	19	19	11	11	11	11	1.5	1.5	1.5	24	24	24	2.5
	End Depth		24	24	24	16	16	16	16	11.5	11.5	11.5	29	29	29	12.5
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		12/16/13	01/29/14	06/17/14	08/08/13	12/09/13	03/12/14	05/07/14	11/13/13	03/05/14	05/08/14	11/13/13	03/05/14	05/08/14	12/12/13
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	**11**	**7**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	**2**	**700 D**	**69**	**9**	**2**	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	**10**	**1100 D**	**1000**	**59**	**40**	**23**	**4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**23**	**3000 D**	**620**	**83**	**52**	**33**	**8**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	**35**	**4811**	**1696**	**151**	**94**	**58**	**12**	ND	ND	ND	ND	ND	ND	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-64	MW-64	MW-64	MW-65	MW-65	MW-65	MW-65	MW-66S	MW-66S	MW-66S	MW-66D	MW-66D	MW-66D	MW-67S
	Start Depth		19	19	19	11	11	11	11	1.5	1.5	1.5	24	24	24	2.5
	End Depth		24	24	24	16	16	16	16	11.5	11.5	11.5	29	29	29	12.5
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		12/16/13	01/29/14	06/17/14	08/08/13	12/09/13	03/12/14	05/07/14	11/13/13	03/05/14	05/08/14	11/13/13	03/05/14	05/08/14	12/12/13
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	10 U	**2 J**	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	**4 J**	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	**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
Naphthalene	µg/L	10*	10 U	**570 D**	**190**	**20**	**55**	**23**	**22**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	**1 J**	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	**598**	**193**	**20**	**57**	**24**	**22**	ND	ND	ND	ND	ND	ND	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-67S	MW-67S	MW-67D	MW-67D	MW-67D	MW-68S	MW-68S	MW-68S	MW-68S	MW-68S	MW-68D	MW-68D	MW-68D	MW-68D
	Start Depth		2.5	2.5	24	24	24	15	15	20	15	20	25	25	25	25
	End Depth		12.5	12.5	29	29	29	20	20	20	20	20	30	30	30	30
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		03/14/14	06/11/14	12/12/13	03/14/14	06/11/14	07/10/13	08/20/13	12/19/13	03/13/14	06/12/14	07/10/13	08/20/13	12/19/13	03/13/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	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	**5**
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	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
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5**
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-67S	MW-67S	MW-67D	MW-67D	MW-67D	MW-68S	MW-68S	MW-68S	MW-68S	MW-68S	MW-68D	MW-68D	MW-68D	MW-68D
	Start Depth		2.5	2.5	24	24	24	15	15	20	15	20	25	25	25	25
	End Depth		12.5	12.5	29	29	29	20	20	20	20	20	30	30	30	30
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		03/14/14	06/11/14	12/12/13	03/14/14	06/11/14	07/10/13	08/20/13	12/19/13	03/13/14	06/12/14	07/10/13	08/20/13	12/19/13	03/13/14
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	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	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	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	µg/L	10*	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U
Phenanthrene	µg/L	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	µg/L	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)	µg/L	NE	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	--	ND	ND	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-68D	DUP-22	MW-70/70S	MW-70/70S	MW-70/70S	MW-70/70S	MW-70/70S	MW-73	MW-73	MW-73	MW-73	MW-73I	MW-73I	MW-73I
	Start Depth		25	25	2	2	2	2	2	2	2	2	2	22	22	22
	End Depth		30	30	12	12	12	12	12	12	12	12	12	27	27	27
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		06/12/14	06/12/14	07/03/13	08/16/13	11/22/13	03/12/14	04/28/14	08/15/13	11/13/13	03/12/14	04/03/14	08/15/13	11/12/13	03/12/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**140**	1 U	**11**	1 U	**25**	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U	**110**	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	**2**	**4**	1 U	1 U	**14**	1 U	1 U	1 U	**400 D**	**2**	**5**
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	**1**	**5**	1 U	1 U	**160**	**3**	1 U	1 U	**410**	**2**	**8**
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	**3**	**9**	ND	ND	**315**	**3**	**11**	ND	**945**	**4**	**13**
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-68D	DUP-22	MW-70/70S	MW-70/70S	MW-70/70S	MW-70/70S	MW-70/70S	MW-73	MW-73	MW-73	MW-73	MW-73I	MW-73I	MW-73I
	Start Depth		25	25	2	2	2	2	2	2	2	2	2	22	22	22
	End Depth		30	30	12	12	12	12	12	12	12	12	12	27	27	27
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		06/12/14	06/12/14	07/03/13	08/16/13	11/22/13	03/12/14	04/28/14	08/15/13	11/13/13	03/12/14	04/03/14	08/15/13	11/12/13	03/12/14
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	10 U	10 U	--	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	50*	10 U	10 U	--	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	--	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	**120 D**	10 U	10 U
Phenanthrene	µg/L	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	µg/L	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)	µg/L	NE	ND	ND	--	ND	**1**	ND	ND	**5**	ND	ND	ND	**124**	ND	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-73I	MW-75	MW-75	MW-75	MW-75	MW-75I	MW-75I	MW-75I	MW-75I	MW-76	DUP-08Q3	MW-76	MW-76	MW-76
	Start Depth		22	2	2	2	2	22	22	22	22	2	2	2	2	2
	End Depth		27	12	12	12	12	27	27	27	27	12	12	12	12	12
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		04/03/14	08/15/13	12/09/13	03/12/14	04/07/14	08/15/13	12/09/13	03/12/14	04/07/14	08/08/13	08/08/13	12/16/13	03/12/14	05/09/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	**200 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
Toluene	µg/L	5	**6**	**41**	1 U	1 U	1 U	**25**	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	**560 J**	**2**	1 U	1 U	**120**	**3**	**28**	**2**	**2**	**1**	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**4**	**670 J**	**5**	1 U	1 U	**190**	**19**	**76**	**8**	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	**10**	**1471**	**7**	ND	ND	**335**	**22**	**104**	**12**	**2**	**1**	ND	ND	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-73I	MW-75	MW-75	MW-75	MW-75	MW-75I	MW-75I	MW-75I	MW-75I	MW-76	DUP-08Q3	MW-76	MW-76	MW-76
	Start Depth		22	2	2	2	2	22	22	22	22	2	2	2	2	2
	End Depth		27	12	12	12	12	27	27	27	27	12	12	12	12	12
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		04/03/14	08/15/13	12/09/13	03/12/14	04/07/14	08/15/13	12/09/13	03/12/14	04/07/14	08/08/13	08/08/13	12/16/13	03/12/14	05/09/14
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	**5 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	**15**	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	**150 D**	**7 J**	**10**	**3 J**	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	**176**	**8**	**10**	**3**	ND	ND	ND	ND	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-78	MW-78	MW-78	MW-78	MW-79	MW-79	MW-79	MW-79	MW-80	MW-80	MW-80	MW-80	MW-81	MW-81
	Start Depth		5	5	5	5	5	5	5	5	5	5	5	5	5	5
	End Depth		20	20	20	20	20	20	20	20	20	20	20	20	20	20
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		08/15/13	11/19/13	02/06/14	06/05/14	08/15/13	12/17/13	02/07/14	06/20/14	07/31/13	12/16/13	01/29/14	06/09/14	08/23/13	12/17/13
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	**550 D**	**6**	1 U	1 U	**390 D**	**2**	1 U	1 U	**870 D**	1 U	**3**	**11**	**36**	1 U
Toluene	µg/L	5	**3500 D**	**2**	**1**	1 U	**140**	1 U	1 U	1 U	**360 D**	**1**	**180 D**	**14**	**190**	1 U
Ethylbenzene	µg/L	5	**3800 D**	**17**	**1**	1 U	**1400 D**	**5**	**1**	1 U	**1600 D**	**14**	**38**	**6**	**490 D**	**2**
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**6400 D**	**63**	**5**	1 U	**2100 D**	**18**	**5**	1 U	**2400 D**	**35**	**200**	**13**	**380**	**6**
Total BTEX (ND=0)	µg/L	NE	**14250**	**88**	**7**	ND	**4030**	**25**	**6**	ND	**5230**	**50**	**421**	**44**	**1096**	**8**
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-78	MW-78	MW-78	MW-78	MW-79	MW-79	MW-79	MW-79	MW-80	MW-80	MW-80	MW-80	MW-81	MW-81
	Start Depth		5	5	5	5	5	5	5	5	5	5	5	5	5	5
	End Depth		20	20	20	20	20	20	20	20	20	20	20	20	20	20
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		08/15/13	11/19/13	02/06/14	06/05/14	08/15/13	12/17/13	02/07/14	06/20/14	07/31/13	12/16/13	01/29/14	06/09/14	08/23/13	12/17/13
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	**2 J**	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**5 J**	10 U
Acenaphthylene	µg/L	NE	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	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	**2 J**	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**39**	10 U	10 U	10 U	**42**	10 U	10 U	10 U	**18**	10 U	10 U	10 U	**5 J**	10 U
Naphthalene	µg/L	10*	**700 D**	**4 J**	10 U	10 U	**430 D**	10 U	**2 J**	10 U	**170 D**	10 U	**11**	10 U	**190 D**	10 U
Phenanthrene	µg/L	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	**2 J**	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	**743**	**4**	ND	ND	**474**	ND	**2**	ND	**188**	ND	**11**	ND	**205**	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-81	MW-81	MW-82	MW-82	MW-82	MW-82	MW-83	MW-83	MW-83	DUP-12 Q1	MW-83	MWBS-02S	MWBS-02S	MWBS-02S
	Start Depth		5	5	5	5	5	5	5	5	5	5	5	5	5	5
	End Depth		20	20	20	20	20	20	20	20	20	20	20	15	15	15
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		01/27/14	06/16/14	08/14/13	11/11/13	03/10/14	06/16/14	08/08/13	12/09/13	03/11/14	03/11/14	05/07/14	07/02/13	08/02/13	09/09/13
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	**2**	1 U	**8**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Toluene	µg/L	5	1 U	1 U	**56**	1 U	1 U	1 U	**5**	**2**	**3**	**3**	**1**	**3**	10 U	1 U
Ethylbenzene	µg/L	5	**1**	1 U	**200 D**	**3**	1 U	1 U	**18**	**8**	**11**	**11**	**11**	1 U	10 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**3**	1 U	**300**	**9**	1 U	1 U	**38**	**27**	**13**	**13**	**13**	1 U	10 U	1 U
Total BTEX (ND=0)	µg/L	NE	**6**	ND	**564**	**12**	ND	ND	**61**	**37**	**27**	**27**	**25**	**3**	ND	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MW-81	MW-81	MW-82	MW-82	MW-82	MW-82	MW-83	MW-83	MW-83	DUP-12 Q1	MW-83	MWBS-02S	MWBS-02S	MWBS-02S
	Start Depth		5	5	5	5	5	5	5	5	5	5	5	5	5	5
	End Depth		20	20	20	20	20	20	20	20	20	20	20	15	15	15
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		01/27/14	06/16/14	08/14/13	11/11/13	03/10/14	06/16/14	08/08/13	12/09/13	03/11/14	03/11/14	05/07/14	07/02/13	08/02/13	09/09/13
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	**5 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	50*	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	**42**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U
Naphthalene	µg/L	10*	10 U	10 U	**130 D**	10 U	10 U	10 U	10 U	10 U	**7 J**	**7 J**	**3 J**	--	--	10 U
Phenanthrene	µg/L	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	µg/L	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)	µg/L	NE	ND	ND	**180**	ND	ND	ND	ND	ND	**7**	**7**	**3**	--	--	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MWBS-02S	DUP-13-Q4	MWBS-02S	MWBS-02S	MWBS-02I	MWBS-02I	MWBS-02I	MWBS-02I	MWBS-02I	MWBS-02I	MWBS-02I	MWBS-02D	MWBS-02D	MWBS-02D	MWBS-02D
	Start Depth		5	5	5	5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	24.5	24.5	24.5	24.5
	End Depth		15	15	15	15	15.5	15.5	15.5	15.5	15.5	15.5	15.5	25.5	25.5	25.5	25.5
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		12/19/13	12/19/13	02/12/14	06/06/14	07/02/13	08/02/13	09/09/13	12/19/13	02/12/14	06/06/14	07/02/13	08/02/13	09/05/13	12/19/13	
Analyte	**Units**	**NYS AWQS**															
BTEX																	
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	
Toluene	µg/L	5	1 U	1 U	1 U	1 U	**12**	10 U	**8**	1 U	1 U	**3**	1 U	10 U	1 U	1 U	
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	**12**	ND	**8**	ND	ND	**3**	ND	ND	ND	ND	
Other VOCs																	
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MWBS-02S	DUP-13-Q4	MWBS-02S	MWBS-02S	MWBS-02I	MWBS-02I	MWBS-02I	MWBS-02I	MWBS-02I	MWBS-02I	MWBS-02D	MWBS-02D	MWBS-02D	MWBS-02D
	Start Depth		5	5	5	5	14.5	14.5	14.5	14.5	14.5	14.5	24.5	24.5	24.5	24.5
	End Depth		15	15	15	15	15.5	15.5	15.5	15.5	15.5	15.5	25.5	25.5	25.5	25.5
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		12/19/13	12/19/13	02/12/14	06/06/14	07/02/13	08/02/13	09/09/13	12/19/13	02/12/14	06/06/14	07/02/13	08/02/13	09/05/13	12/19/13
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	--	--	10 U	**2 J**	10 U	10 U	--	--	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	--	--	10 U	**2 J**	10 U	10 U	--	--	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	--	--	10 U	**2 J**	10 U	10 U	--	--	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	--	--	10 U	**2 J**	10 U	10 U	--	--	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	ND	ND	--	--	ND	**8**	ND	ND	--	--	ND	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MWBS-02D	MWBS-02D	OU3MW-01S	OU3MW-01S	OU3MW-01S	OU3MW-01S	OU3MW-02S	OU3MW-02S	OU3MW-02S	OU3MW-02S	OU3MW-02I	OU3MW-02I	OU3MW-02I	OU3MW-02I
	Start Depth		24.5	24.5	3	3	3	3	3	3	3	3	15	15	15	15
	End Depth		25.5	25.5	13	13	13	13	13	13	13	13	20	20	20	20
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		02/12/14	06/06/14	08/26/13	12/18/13	03/17/14	04/09/14	08/19/13	12/18/13	03/12/14	04/07/14	08/19/13	12/18/13	03/12/14	04/07/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	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
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		MWBS-02D	MWBS-02D	OU3MW-01S	OU3MW-01S	OU3MW-01S	OU3MW-01S	OU3MW-02S	OU3MW-02S	OU3MW-02S	OU3MW-02S	OU3MW-02I	OU3MW-02I	OU3MW-02I	OU3MW-02I
	Start Depth		24.5	24.5	3	3	3	3	3	3	3	3	15	15	15	15
	End Depth		25.5	25.5	13	13	13	13	13	13	13	13	20	20	20	20
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		02/12/14	06/06/14	08/26/13	12/18/13	03/17/14	04/09/14	08/19/13	12/18/13	03/12/14	04/07/14	08/19/13	12/18/13	03/12/14	04/07/14
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-03S	OU3MW-03S	OU3MW-03S	DUP-56 L	OU3MW-03S	OU3MW-03S	OU3MW-03S	OU3MW-03S	OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-03I
	Start Depth		1	1	1	1	1	1	1	1	20	20	20	20	20	20
	End Depth		11	11	11	11	11	11	11	11	25	25	25	25	25	25
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		07/08/13	08/01/13	08/06/13	08/06/13	09/04/13	12/03/13	03/03/14	04/07/14	07/08/13	08/01/13	08/06/13	09/04/13	10/07/13	11/05/13
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	**7**	10 U	**10**	**10**	**1**	**2**	**2**	1 U	**11**	10 U	**3**	1 U	10 U	**22**
Toluene	µg/L	5	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	**17**	10 U	**3**	1 U	**11**	10 U
Ethylbenzene	µg/L	5	1 U	10 U	**1**	**1**	1 U	1 U	1 U	1 U	**840 D**	**280 D**	**240 J**	**23**	**42**	**380 D**
o-Xylene	µg/L	5	--	--	**3**	**3**	--	--	--	--	--	--	**150**	--	--	--
m/p-Xylene	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	**170**	--	--	--
Total Xylene	µg/L	5	1 U	10 U			1 U	**3**	1 U	1 U	**1300 D**	**330**		**53**	**77**	**580**
Total BTEX (ND=0)	µg/L	NE	**7**	ND	**14**	**14**	**1**	**5**	**2**	ND	**2168**	**610**	**566**	**76**	**130**	**982**
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	10 U	10 U	--	--	--	--	--	--	10 U	--	--	--
Acetone	µg/L	50*	--	--	5 U	5 U	--	--	--	--	--	--	5 U	--	--	--
Acrylonitrile	µg/L	5	--	--	10 U	10 U	--	--	--	--	--	--	10 U	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	10 U	10 U	--	--	--	--	--	--	10 U	--	--	--
Bromochloromethane	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Bromodichloromethane	µg/L	50*	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Bromoform	µg/L	50*	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Bromomethane	µg/L	5	--	--	1 UJ	1 UJ	--	--	--	--	--	--	1 UJ	--	--	--
1,3-Butadiene	µg/L	NE	--	--	10 UJ	10 UJ	--	--	--	--	--	--	10 UJ	--	--	--
Carbon disulfide	µg/L	60*	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Carbon tetrachloride	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Chlorobenzene	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Chloroethane	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Chloroform	µg/L	7	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Chloromethane	µg/L	5	--	--	1 UJ	1 UJ	--	--	--	--	--	--	1 UJ	--	--	--
Chlorotoluene	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	10 U	10 U	--	--	--	--	--	--	10 U	--	--	--
Cyclohexane	µg/L	NE	--	--	10 U	10 U	--	--	--	--	--	--	**3 J**	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Dibromochloromethane	µg/L	50*	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
1,4-Dioxane	µg/L	NE	--	--	500 R	500 R	--	--	--	--	--	--	500 R	--	--	--
Ethanol	µg/L	NE	--	--	500 R	500 R	--	--	--	--	--	--	500 R	--	--	--
n-Heptane	µg/L	NE	--	--	10 U	10 U	--	--	--	--	--	--	10 U	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
n-Hexane	µg/L	NE	--	--	10 U	10 U	--	--	--	--	--	--	10 U	--	--	--
2-Hexanone	µg/L	50*	--	--	5 U	5 U	--	--	--	--	--	--	5 U	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-03S	OU3MW-03S	OU3MW-03S	DUP-56 L	OU3MW-03S	OU3MW-03S	OU3MW-03S	OU3MW-03S	OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-03I
	Start Depth		1	1	1	1	1	1	1	1	20	20	20	20	20	20
	End Depth		11	11	11	11	11	11	11	11	25	25	25	25	25	25
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		07/08/13	08/01/13	08/06/13	08/06/13	09/04/13	12/03/13	03/03/14	04/07/14	07/08/13	08/01/13	08/06/13	09/04/13	10/07/13	11/05/13
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Isopropyl benzene	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	**16**	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	5 U	5 U	--	--	--	--	--	--	5 U	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	10 U	10 U	--	--	--	--	--	--	10 U	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	5 U	5 U	--	--	--	--	--	--	5 U	--	--	--
Methylene chloride	µg/L	5	--	--	2 U	2 U	--	--	--	--	--	--	2 U	--	--	--
Naphthalene	µg/L	10*	--	--	**3 J**	**1 J**	--	--	--	--	--	--	**180**	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	500 U	500 U	--	--	--	--	--	--	500 U	--	--	--
n-Propylbenzene	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	**9**	--	--	--
Styrene	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	10 U	10 U	--	--	--	--	--	--	10 U	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	10 U	10 U	--	--	--	--	--	--	10 U	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	**97**	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	1 U	1 U	--	--	--	--	--	--	**52**	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	10 U	10 U	--	--	--	--	--	--	10 U	--	--	--
Vinyl acetate	µg/L	NE	--	--	1 UJ	1 UJ	--	--	--	--	--	--	1 UJ	--	--	--
Vinyl chloride	µg/L	2	--	--	1 U	1 U	--	--	--	--	--	--	1 U	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--
Acenaphthylene	µg/L	NE	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--
Anthracene	µg/L	50*	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--
Benzo(a)anthracene	µg/L	0.002*	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--
Benzo(b)fluoranthene	µg/L	0.002*	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--
Benzo(k)fluoranthene	µg/L	0.002*	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--
Benzo(g,h,i)perylene	µg/L	NE	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--
Benzo(a)pyrene	µg/L	ND	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--
Chrysene	µg/L	0.002*	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--
Dibenz(a,h)anthracene	µg/L	NE	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--
Fluoranthene	µg/L	50*	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--
Fluorene	µg/L	50*	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--
2-Methylnaphthalene	µg/L	NE	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	**8 J**	10 U	--	--
Naphthalene	µg/L	10*	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	**120 J**	**5 J**	--	--
Phenanthrene	µg/L	50*	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--
Pyrene	µg/L	50*	--	--	10 U	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--
Total PAH (17) (ND=0)	µg/L	NE	--	--	ND	ND	ND	ND	ND	ND	--	--	**128**	**5**	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-04S	OU3MW-04S	OU3MW-04S	OU3MW-04S	OU3MW-04S	OU3MW-04S	OU3MW-04I
	Start Depth		20	20	20	20	20	20	20	1	1	1	1	1	1	16
	End Depth		25	25	25	25	25	25	25	11	11	11	11	11	11	21
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		12/03/13	01/07/14	02/06/14	03/03/14	04/07/14	05/05/14	06/04/14	07/02/13	08/02/13	08/19/13	12/17/13	02/11/14	04/03/14	07/02/13
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	**64**	**29**	**44**	**63**	1 U	1 U	10 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	**3**	10 U	10 U	1 U	1 U	1 U	10 U	1 U	10 U	1 U	1 U	1 U	**5**	1 U
Ethylbenzene	µg/L	5	**280 D**	10 U	**29**	**42**	1 U	1 U	10 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**280**	**13**	10 U	**3**	1 U	1 U	10 U	1 U	10 U	1 U	1 U	1 U	**2**	1 U
Total BTEX (ND=0)	µg/L	NE	**627**	**42**	**73**	**108**	ND	ND	ND	ND	ND	ND	ND	ND	**7**	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-03I	OU3MW-04S	OU3MW-04S	OU3MW-04S	OU3MW-04S	OU3MW-04S	OU3MW-04S	OU3MW-04I
	Start Depth		20	20	20	20	20	20	20	1	1	1	1	1	1	16
	End Depth		25	25	25	25	25	25	25	11	11	11	11	11	11	21
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		12/03/13	01/07/14	02/06/14	03/03/14	04/07/14	05/05/14	06/04/14	07/02/13	08/02/13	08/19/13	12/17/13	02/11/14	04/03/14	07/02/13
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	**2 J**	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Acenaphthylene	µg/L	NE	**1 J**	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Anthracene	µg/L	50*	10 U	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Benzo(a)anthracene	µg/L	0.002*	10 U	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Benzo(b)fluoranthene	µg/L	0.002*	10 U	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Benzo(k)fluoranthene	µg/L	0.002*	10 U	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Benzo(g,h,i)perylene	µg/L	NE	10 U	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Benzo(a)pyrene	µg/L	ND	10 U	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Chrysene	µg/L	0.002*	10 U	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Dibenz(a,h)anthracene	µg/L	NE	10 U	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Fluoranthene	µg/L	50*	10 U	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Fluorene	µg/L	50*	10 U	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
2-Methylnaphthalene	µg/L	NE	**6 J**	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Naphthalene	µg/L	10*	**200 D**	--	--	**1 J**	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Phenanthrene	µg/L	50*	10 U	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Pyrene	µg/L	50*	10 U	--	--	10 U	10 U	--	--	--	--	10 U	10 U	10 U	10 U	--
Total PAH (17) (ND=0)	µg/L	NE	**209**	--	--	**1**	ND	--	--	--	--	ND	ND	ND	ND	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-04I	OU3MW-04I	OU3MW-04I	OU3MW-04I	OU3MW-04I	OU3MW-04I	DUP-04-Q1	OU3MW-04I	OU3MW-04D	OU3MW-04D	OU3MW-04D	OU3MW-04D	OU3MW-04D	OU3MW-04D
	Start Depth		16	16	16	16	16	16	16	16	26	26	26	26	26	26
	End Depth		21	21	21	21	21	21	21	21	31	31	31	31	31	31
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		08/02/13	08/19/13	09/05/13	10/04/13	12/17/13	02/11/14	02/11/14	04/03/14	07/02/13	08/02/13	08/19/13	09/04/13	10/04/13	12/18/13
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	10 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	10 U	1 U
Toluene	µg/L	5	10 U	1 U	1 U	10 U	1 U	1 U	1 U	**4**	1 U	10 U	1 U	1 U	10 U	1 U
Ethylbenzene	µg/L	5	10 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	10 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	10 U	1 U	1 U	10 U	1 U	1 U	1 U	**2**	**5**	10 U	1 U	1 U	10 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	**6**	**5**	ND	ND	ND	ND	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-04I	OU3MW-04I	OU3MW-04I	OU3MW-04I	OU3MW-04I	OU3MW-04I	DUP-04-Q1	OU3MW-04I	OU3MW-04D	OU3MW-04D	OU3MW-04D	OU3MW-04D	OU3MW-04D	OU3MW-04D
	Start Depth		16	16	16	16	16	16	16	16	26	26	26	26	26	26
	End Depth		21	21	21	21	21	21	21	21	31	31	31	31	31	31
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		08/02/13	08/19/13	09/05/13	10/04/13	12/17/13	02/11/14	02/11/14	04/03/14	07/02/13	08/02/13	08/19/13	09/04/13	10/04/13	12/18/13
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Acenaphthylene	µg/L	NE	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Anthracene	µg/L	50*	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Benzo(a)anthracene	µg/L	0.002*	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Benzo(b)fluoranthene	µg/L	0.002*	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Benzo(k)fluoranthene	µg/L	0.002*	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Benzo(g,h,i)perylene	µg/L	NE	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Benzo(a)pyrene	µg/L	ND	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Chrysene	µg/L	0.002*	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Dibenz(a,h)anthracene	µg/L	NE	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Fluoranthene	µg/L	50*	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Fluorene	µg/L	50*	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
2-Methylnaphthalene	µg/L	NE	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Naphthalene	µg/L	10*	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Phenanthrene	µg/L	50*	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Pyrene	µg/L	50*	--	10 U	--	--	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U
Total PAH (17) (ND=0)	µg/L	NE	--	ND	--	--	ND	ND	ND	ND	--	--	ND	--	--	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-04D	OU3MW-04D	OU3MW-04D2	OU3MW-04D2	OU3MW-04D2	DUP-12 Q4	OU3MW-04D2	OU3MW-04D2	DUP-01-Q2	OU3MW-04D3	OU3MW-04D3	OU3MW-04D3
	Start Depth		26	26	31	31	31	31	31	31	31	41	41	41
	End Depth		31	31	36	36	36	36	36	36	36	46	46	46
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		02/11/14	04/03/14	08/02/13	08/19/13	12/18/13	12/18/13	02/11/14	04/03/14	04/03/14	08/21/13	12/18/13	02/11/14
Analyte	**Units**	**NYS AWQS**												
BTEX														
Benzene	µg/L	1	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	10 U	**1**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	10 U	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	**3**	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs														
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-04D	OU3MW-04D	OU3MW-04D2	OU3MW-04D2	OU3MW-04D2	DUP-12 Q4	OU3MW-04D2	OU3MW-04D2	DUP-01-Q2	OU3MW-04D3	OU3MW-04D3	OU3MW-04D3
	Start Depth		26	26	31	31	31	31	31	31	31	41	41	41
	End Depth		31	31	36	36	36	36	36	36	36	46	46	46
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		02/11/14	04/03/14	08/02/13	08/19/13	12/18/13	12/18/13	02/11/14	04/03/14	04/03/14	08/21/13	12/18/13	02/11/14
Analyte	**Units**	**NYS AWQS**												
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17														
Acenaphthene	µg/L	20*	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	--	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-04D3	OU3MW-05S	OU3MW-05S	DUP-15 Q3	OU3MW-05S	OU3MW-05S	OU3MW-05S	OU3MW-05I	OU3MW-05I	OU3MW-05I	OU3MW-05I	OU3MW-05I	OU3MW-05I	OU3MW-05I
	Start Depth		41	2	2	2	2	2	2	15	15	15	15	15	15	15
	End Depth		46	12	12	12	12	12	12	20	20	20	20	20	20	20
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		04/03/14	07/08/13	09/12/13	09/12/13	11/08/13	03/07/14	04/10/14	07/08/13	08/09/13	09/12/13	11/08/13	12/06/13	01/10/14	02/06/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	10 U	10 U	10 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**5**	10 U	**3**	1 U	10 U	10 U	10 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	10 U	10 U	10 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	**3**	1 U	1 U	**110**	**150**	**57**	1 U	10 U	10 U	10 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	**3**	ND	ND	**115**	**150**	**60**	ND	ND	ND	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-04D3	OU3MW-05S	OU3MW-05S	DUP-15 Q3	OU3MW-05S	OU3MW-05S	OU3MW-05S	OU3MW-05I	OU3MW-05I	OU3MW-05I	OU3MW-05I	OU3MW-05I	OU3MW-05I	OU3MW-05I
	Start Depth		41	2	2	2	2	2	2	15	15	15	15	15	15	15
	End Depth		46	12	12	12	12	12	12	20	20	20	20	20	20	20
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		04/03/14	07/08/13	09/12/13	09/12/13	11/08/13	03/07/14	04/10/14	07/08/13	08/09/13	09/12/13	11/08/13	12/06/13	01/10/14	02/06/14
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
Acenaphthylene	µg/L	NE	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
Anthracene	µg/L	50*	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
Benzo(a)anthracene	µg/L	0.002*	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
Benzo(b)fluoranthene	µg/L	0.002*	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
Benzo(k)fluoranthene	µg/L	0.002*	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
Benzo(g,h,i)perylene	µg/L	NE	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
Benzo(a)pyrene	µg/L	ND	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
Chrysene	µg/L	0.002*	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
Dibenz(a,h)anthracene	µg/L	NE	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
Fluoranthene	µg/L	50*	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
Fluorene	µg/L	50*	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
2-Methylnaphthalene	µg/L	NE	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
Naphthalene	µg/L	10*	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	**29**	10 U	--	--	--
Phenanthrene	µg/L	50*	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
Pyrene	µg/L	50*	10 U	--	10 U	10 U	10 U	10 U	10 U	--	--	10 U	10 U	--	--	--
Total PAH (17) (ND=0)	µg/L	NE	ND	--	ND	ND	ND	ND	ND	--	--	**29**	ND	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-05I	OU3MW-05I	OU3MW-06	OU3MW-06	OU3MW-06	OU3MW-06	OU3MW-07S	OU3MW-07S	OU3MW-07S	OU3MW-07S	OU3MW-07S	OU3MW-07I	OU3MW-07I	OU3MW-07I
	Start Depth		15	15	3	3	3	3	3	3	3	3	3	15	15	15
	End Depth		20	20	13	13	13	13	13	13	13	13	13	20	20	20
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		03/07/14	04/10/14	08/08/13	11/22/13	03/10/14	04/09/14	07/01/13	08/19/13	11/20/13	01/27/14	05/22/14	07/01/13	08/08/13	08/19/13
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	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	10 U	1 U
Toluene	µg/L	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	10 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	**4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	**12**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	**16**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-05I	OU3MW-05I	OU3MW-06	OU3MW-06	OU3MW-06	OU3MW-06	OU3MW-07S	OU3MW-07S	OU3MW-07S	OU3MW-07S	OU3MW-07S	OU3MW-07I	OU3MW-07I	OU3MW-07I
	Start Depth		15	15	3	3	3	3	3	3	3	3	3	15	15	15
	End Depth		20	20	13	13	13	13	13	13	13	13	13	20	20	20
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		03/07/14	04/10/14	08/08/13	11/22/13	03/10/14	04/09/14	07/01/13	08/19/13	11/20/13	01/27/14	05/22/14	07/01/13	08/08/13	08/19/13
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Fluorene	µg/L	50*	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	--	10 U	10 U	10 U	10 U	--	--	10 U
Pyrene	µg/L	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) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	--	--	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-07I	OU3MW-07I	DUP-02 Q1	OU3MW-07I	OU3MW-07I2	OU3MW-07I2	OU3MW-07I2	OU3MW-07I2	OU3MW-07I2	OU3MW-07I2	OU3MW-07I2	OU3MW-07I2	OU3MW-07I3	OU3MW-07I3
	Start Depth		15	15	15	15	20	20	20	20	20	20	20	20	25	25
	End Depth		20	20	20	20	25	25	25	25	25	25	25	25	30	30
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		11/20/13	01/27/14	01/27/14	05/22/14	07/01/13	08/08/13	08/19/13	09/19/13	11/20/13	01/27/14	05/22/14	07/01/13	08/08/13	
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	10 U	**2**	1 U	1 U	1 U	1 U	1 U	10 U	
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	**7**	10 U	**4**	**4**	**4**	**2**	**1**	1 U	10 U	
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	**7**	ND	**6**	**4**	**4**	**2**	**1**	ND	ND	
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-07I	OU3MW-07I	DUP-02 Q1	OU3MW-07I	OU3MW-07I2	OU3MW-07I2	OU3MW-07I2	OU3MW-07I2	OU3MW-07I2	OU3MW-07I2	OU3MW-07I2	OU3MW-07I3	OU3MW-07I3
	Start Depth		15	15	15	15	20	20	20	20	20	20	20	25	25
	End Depth		20	20	20	20	25	25	25	25	25	25	25	30	30
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		11/20/13	01/27/14	01/27/14	05/22/14	07/01/13	08/08/13	08/19/13	09/19/13	11/20/13	01/27/14	05/22/14	07/01/13	08/08/13
Analyte	**Units**	**NYS AWQS**													
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17															
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	--	--	**12**	--	10 U	10 U	10 U	--	--
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	--	--	10 U	--	10 U	10 U	10 U	--	--
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	--	--	10 U	--	10 U	10 U	10 U	--	--
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	--	--	10 U	--	10 U	10 U	10 U	--	--
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	--	--	10 U	--	10 U	10 U	10 U	--	--
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	--	--	10 U	--	10 U	10 U	10 U	--	--
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	--	--	10 U	--	10 U	10 U	10 U	--	--
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	--	--	10 U	--	10 U	10 U	10 U	--	--
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	--	--	10 U	--	10 U	10 U	10 U	--	--
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	--	--	10 U	--	10 U	10 U	10 U	--	--
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	--	--	10 U	--	10 U	10 U	10 U	--	--
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	--	--	10 U	--	10 U	10 U	10 U	--	--
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	--	--	10 U	--	10 U	10 U	10 U	--	--
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	--	--	**11**	--	10 U	10 U	10 U	--	--
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	--	--	**42**	--	10 U	10 U	10 U	--	--
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	--	--	10 U	--	10 U	10 U	10 U	--	--
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	--	--	**14**	--	10 U	10 U	10 U	--	--
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	ND	ND	--	--	**79**	--	ND	ND	ND	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-07I3	OU3MW-07I3	OU3MW-07I3	OU3MW-07I3	OU3MW-07I3	OU3MW-07I4	OU3MW-07I4	OU3MW-07I4	OU3MW-07I4	OU3MW-08S	OU3MW-08S	OU3MW-08S	OU3MW-08S
	Start Depth		25	25	25	25	25	35	35	35	35	2	2	2	2
	End Depth		30	30	30	30	30	40	40	40	40	12	12	12	12
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		08/19/13	09/19/13	11/20/13	01/27/14	05/22/14	08/19/13	12/06/13	01/27/14	05/22/14	08/16/13	12/20/13	03/14/14	06/20/14
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**110**	**110**	**180**	**96**
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**450 D**	**440 D**	**440 D**	**37**
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**470 D**	**500 D**	**640 D**	**330**
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	**1**	1 U	1 U	1 U	1 U	1 U	1 U	**550**	**880 D**	**980 D**	**540**
Total BTEX (ND=0)	µg/L	NE	ND	ND	**1**	ND	ND	ND	ND	ND	ND	**1580**	**1930**	**2240**	**1003**
Other VOCs															
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-07I3	OU3MW-07I3	OU3MW-07I3	OU3MW-07I3	OU3MW-07I3	OU3MW-07I4	OU3MW-07I4	OU3MW-07I4	OU3MW-07I4	OU3MW-08S	OU3MW-08S	OU3MW-08S	OU3MW-08S
	Start Depth		25	25	25	25	25	35	35	35	35	2	2	2	2
	End Depth		30	30	30	30	30	40	40	40	40	12	12	12	12
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		08/19/13	09/19/13	11/20/13	01/27/14	05/22/14	08/19/13	12/06/13	01/27/14	05/22/14	08/16/13	12/20/13	03/14/14	06/20/14
Analyte	**Units**	**NYS AWQS**													
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17															
Acenaphthene	µg/L	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	µg/L	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	µg/L	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	µg/L	0.002*	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	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	µg/L	0.002*	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**5 J**	**8 J**	**13**	**7 J**
Naphthalene	µg/L	10*	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**280 D**	**460 D**	**370 D**	**240**
Phenanthrene	µg/L	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	µg/L	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)	µg/L	NE	ND	--	ND	ND	ND	ND	ND	ND	ND	**285**	**468**	**383**	**247**

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-08I	OU3MW-09S	DUP-10 Q3	OU3MW-09S	OU3MW-09S	OU3MW-09S	OU3MW-09I2	OU3MW-09I2	OU3MW-09I2	OU3MW-09I2	DUP-12 Q2 CB	OU3MW-09I	OU3MW-09I
	Start Depth		25	2	2	2	2	2	35	35	35	35	35	25	25
	End Depth		30	12	12	12	12	12	40	40	40	40	40	30	30
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		06/20/14	08/20/13	08/20/13	11/18/13	03/14/14	06/05/14	08/22/13	11/18/13	03/14/14	05/09/14	05/09/14	08/20/13	11/18/13
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	1 U	**8**	**7**	**14**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**11**	**16**
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	**1**	**2**	1 U	1 U	1 U	**67**	**7**
Ethylbenzene	µg/L	5	1 U	**2**	**2**	**8**	1 U	1 U	**3**	**5**	**2**	**3**	**4**	**150**	**180**
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	**5**	**4**	**3**	1 U	1 U	**5**	**7**	**4**	**7**	**7**	**200**	**130**
Total BTEX (ND=0)	µg/L	NE	ND	**15**	**13**	**25**	ND	ND	**9**	**14**	**6**	**10**	**11**	**428**	**333**
Other VOCs															
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-08I	OU3MW-09S	DUP-10 Q3	OU3MW-09S	OU3MW-09S	OU3MW-09S	OU3MW-09I2	OU3MW-09I2	OU3MW-09I2	OU3MW-09I2	DUP-12 Q2 CB	OU3MW-09I	OU3MW-09I
	Start Depth		25	2	2	2	2	2	35	35	35	35	35	25	25
	End Depth		30	12	12	12	12	12	40	40	40	40	40	30	30
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		06/20/14	08/20/13	08/20/13	11/18/13	03/14/14	06/05/14	08/22/13	11/18/13	03/14/14	05/09/14	05/09/14	08/20/13	11/18/13
Analyte	**Units**	**NYS AWQS**													
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17															
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	**4 J**
Acenaphthylene	µg/L	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	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**1 J**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**37**	**23**
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**2 J**	**1 J**	**1 J**	**1 J**	**140 D**	**91 D**
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	**2 J**
Pyrene	µg/L	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)	µg/L	NE	ND	ND	ND	ND	ND	ND	**2**	**2**	**1**	**1**	**1**	**184**	**121**

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-09I	OU3MW-09I	OU3MW-10S	OU3MW-10S	DUP-05 Q4	OU3MW-10S	OU3MW-10S	OU3MW-10I	OU3MW-10I	OU3MW-10I	OU3MW-10I	OU3MW-11S	OU3MW-11I	OU3MW-12S
	Start Depth		25	25	2	2	2	2	2	25	25	25	25	2	25	2
	End Depth		30	30	12	12	12	12	12	30	30	30	30	12	30	12
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		03/14/14	06/05/14	08/16/13	11/12/13	11/12/13	03/13/14	04/30/14	08/16/13	11/12/13	03/13/14	04/30/14	04/15/14	04/15/14	04/15/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	**8**	**5**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	**90**	**31**	**2**	1 U	1 U	1 U	1 U	**24**	**16**	**44**	**52**	1 U	1 U	1 U
Ethylbenzene	µg/L	5	**170 D**	**150**	**2**	**1**	1 U	1 U	1 U	**130**	**140**	**160 D**	**170 D**	**1**	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**320**	**160**	**2**	**5**	**4**	1 U	**1**	**160**	**170**	**370**	**420**	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	**588**	**346**	**6**	**6**	**4**	ND	**1**	**314**	**326**	**574**	**642**	**1**	ND	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-09I	OU3MW-09I	OU3MW-10S	OU3MW-10S	DUP-05 Q4	OU3MW-10S	OU3MW-10S	OU3MW-10I	OU3MW-10I	OU3MW-10I	OU3MW-10I	OU3MW-11S	OU3MW-11I	OU3MW-12S
	Start Depth		25	25	2	2	2	2	2	25	25	25	25	2	25	2
	End Depth		30	30	12	12	12	12	12	30	30	30	30	12	30	12
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		03/14/14	06/05/14	08/16/13	11/12/13	11/12/13	03/13/14	04/30/14	08/16/13	11/12/13	03/13/14	04/30/14	04/15/14	04/15/14	04/15/14
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	**3 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	**1 J**	**2 J**	**1 J**	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**3 J**	**4 J**	**4 J**	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**1 J**	**1 J**	**1 J**	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**8 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	**3 J**	**8 J**	**21**	**27**	10 U	10 U	10 U
Naphthalene	µg/L	10*	**110 D**	**51**	10 U	10 U	10 U	10 U	10 U	**110 D**	**89 D**	**69**	**100 D**	**4 J**	10 U	10 U
Phenanthrene	µg/L	50*	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	**2 J**	**1 J**	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	**123**	**55**	ND	ND	ND	ND	ND	**121**	**105**	**97**	**132**	**4**	ND	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-12I	OU3MW-13S	OU3MW-13S	OU3MW-13S	OU3MW-13S	OU3MW-14S	OU3MW-14S	OU3MW-14S	OU3MW-14S	OU3MW-15S	OU3MW-15S	OU3MW-15S	OU3MW-15S
	Start Depth		25	2	2	2	2	2	2	2	2	2	2	2	2
	End Depth		30	12	12	12	12	12	12	12	12	12	12	12	12
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		04/15/14	08/15/13	11/19/13	02/07/14	06/05/14	08/09/13	12/16/13	01/29/14	06/06/14	08/14/13	11/11/13	03/10/14	06/06/14
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	1 U	**34**	1 U	**120**	**240**	**2500**	1 U	1 U	1 U	**19**	1 U	1 U	1 U
Toluene	µg/L	5	1 U	**63**	1 U	**36**	**140**	**5900**	**1**	1 U	1 U	**62**	**2**	1 U	1 U
Ethylbenzene	µg/L	5	1 U	**190**	1 U	**21**	**180**	**4000**	**3**	**2**	1 U	**320 D**	**5**	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	**250**	**4**	**100**	**250**	**5800**	**10**	**7**	1 U	**480**	**14**	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	**537**	**4**	**277**	**810**	**18200**	**14**	**9**	ND	**881**	**21**	ND	ND
Other VOCs															
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-12I	OU3MW-13S	OU3MW-13S	OU3MW-13S	OU3MW-13S	OU3MW-14S	OU3MW-14S	OU3MW-14S	OU3MW-14S	OU3MW-15S	OU3MW-15S	OU3MW-15S	OU3MW-15S
	Start Depth		25	2	2	2	2	2	2	2	2	2	2	2	2
	End Depth		30	12	12	12	12	12	12	12	12	12	12	12	12
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		04/15/14	08/15/13	11/19/13	02/07/14	06/05/14	08/09/13	12/16/13	01/29/14	06/06/14	08/14/13	11/11/13	03/10/14	06/06/14
Analyte	**Units**	**NYS AWQS**													
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17															
Acenaphthene	µg/L	20*	10 U	**6 J**	10 U	10 U	10 U	**2 J**	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	**2 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	50*	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	**24**	10 U	10 U	**6 J**	**54**	10 U	10 U	10 U	**22**	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	**230 D**	10 U	10 U	**83**	**720**	10 U	**2 J**	10 U	**260 D**	**3 J**	10 U	10 U
Phenanthrene	µg/L	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	µg/L	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)	µg/L	NE	ND	**262**	ND	ND	**89**	**778**	**3**	**2**	ND	**282**	**3**	ND	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-16S	OU3MW-16S	OU3MW-16S	DUP-14 Q1	OU3MW-16S	OU3MW-17S	OU3MW-17S	OU3MW-17S	OU3MW-17S	OU3MW-17S	OU3MW-17S	OU3MW-17S	OU3MW-17S
	Start Depth		2	2	2	2	2	2	2	2	2	2	2	2	2
	End Depth		12	12	12	12	12	12	12	12	12	12	12	12	12
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		08/16/13	11/07/13	03/17/14	03/17/14	06/12/14	07/08/13	08/09/13	09/17/13	10/07/13	11/01/13	12/03/13	01/08/14	02/05/14
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	**10**	1 U	**13**	**13**	**9**	1 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U
Toluene	µg/L	5	**3**	1 U	**2**	**2**	**1**	1 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U
Ethylbenzene	µg/L	5	**100**	**11**	**140**	**140**	**130**	1 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**48**	**7**	**45**	**45**	**40**	1 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U
Total BTEX (ND=0)	µg/L	NE	**161**	**18**	**200**	**200**	**180**	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs															
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-16S	OU3MW-16S	OU3MW-16S	DUP-14 Q1	OU3MW-16S	OU3MW-17S	OU3MW-17S	OU3MW-17S	OU3MW-17S	OU3MW-17S	OU3MW-17S	OU3MW-17S	OU3MW-17S
	Start Depth		2	2	2	2	2	2	2	2	2	2	2	2	2
	End Depth		12	12	12	12	12	12	12	12	12	12	12	12	12
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		08/16/13	11/07/13	03/17/14	03/17/14	06/12/14	07/08/13	08/09/13	09/17/13	10/07/13	11/01/13	12/03/13	01/08/14	02/05/14
Analyte	**Units**	**NYS AWQS**													
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17															
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
2-Methylnaphthalene	µg/L	NE	10 U	10 U	**1 J**	10 U	**1 J**	--	--	10 U	--	--	10 U	--	--
Naphthalene	µg/L	10*	10 U	**8 J**	**60**	**9 J**	**93**	--	--	10 U	--	--	10 U	--	--
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Total PAH (17) (ND=0)	µg/L	NE	ND	**8**	**61**	**9**	**94**	--	--	ND	--	--	ND	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-17S	OU3MW-17S	OU3MW-17S	OU3MW-17S	OU3MW-17I	OU3MW-17I	OU3MW-17I	OU3MW-17I	OU3MW-17I	OU3MW-17I	OU3MW-17I	OU3MW-17I	OU3MW-17I	OU3MW-17I
	Start Depth		2	2	2	2	15	15	15	15	15	15	15	15	15	15
	End Depth		12	12	12	12	20	20	20	20	20	20	20	20	20	20
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		03/04/14	04/03/14	05/02/14	06/09/14	07/08/13	08/09/13	09/17/13	10/07/13	11/01/13	12/03/13	01/08/14	02/05/14	03/04/14	04/03/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	10 U	10 U	1 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	10 U	10 U	1 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	**4**
Ethylbenzene	µg/L	5	1 U	1 U	10 U	10 U	1 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	10 U	10 U	1 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	**3**
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**7**
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-17S	OU3MW-17S	OU3MW-17S	OU3MW-17S	OU3MW-17I	OU3MW-17I	OU3MW-17I	OU3MW-17I	OU3MW-17I	OU3MW-17I	OU3MW-17I	OU3MW-17I	OU3MW-17I	OU3MW-17I
	Start Depth		2	2	2	2	15	15	15	15	15	15	15	15	15	15
	End Depth		12	12	12	12	20	20	20	20	20	20	20	20	20	20
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		03/04/14	04/03/14	05/02/14	06/09/14	07/08/13	08/09/13	09/17/13	10/07/13	11/01/13	12/03/13	01/08/14	02/05/14	03/04/14	04/03/14
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	--	--	--	--	ND	--	--	ND	--	--	ND	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-17I	OU3MW-17I	OU3MW-17I2	OU3MW-17I2	OU3MW-17I2	OU3MW-17I2	OU3MW-17I2	OU3MW-17I2	OU3MW-17I2	OU3MW-17I2	OU3MW-17I2	DUP-08 Q1	OU3MW-17I2
	Start Depth		15	15	25	25	25	25	25	25	25	25	25	25	25
	End Depth		20	20	30	30	30	30	30	30	30	30	30	30	30
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		05/02/14	06/09/14	07/08/13	08/09/13	09/17/13	10/07/13	11/01/13	12/03/13	01/08/14	02/05/14	03/04/14	03/04/14	04/03/14
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	10 U	10 U	1 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	1 U	1 U
Toluene	µg/L	5	10 U	10 U	1 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	1 U	**3**
Ethylbenzene	µg/L	5	10 U	10 U	1 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	10 U	10 U	1 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	1 U	**2**
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**5**
Other VOCs															
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-17I	OU3MW-17I	OU3MW-17I2	OU3MW-17I2	OU3MW-17I2	OU3MW-17I2	OU3MW-17I2	OU3MW-17I2	OU3MW-17I2	OU3MW-17I2	OU3MW-17I2	DUP-08 Q1	OU3MW-17I2
	Start Depth		15	15	25	25	25	25	25	25	25	25	25	25	25
	End Depth		20	20	30	30	30	30	30	30	30	30	30	30	30
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		05/02/14	06/09/14	07/08/13	08/09/13	09/17/13	10/07/13	11/01/13	12/03/13	01/08/14	02/05/14	03/04/14	03/04/14	04/03/14
Analyte	**Units**	**NYS AWQS**													
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17															
Acenaphthene	µg/L	20*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Anthracene	µg/L	50*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Chrysene	µg/L	0.002*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Fluoranthene	µg/L	50*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Fluorene	µg/L	50*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Naphthalene	µg/L	10*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Phenanthrene	µg/L	50*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Pyrene	µg/L	50*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	--	--	--	--	ND	--	--	ND	--	--	ND	ND	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-17I2	OU3MW-17I2	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I2	OU3MW-18I2
	Start Depth		25	25	15	15	15	15	15	15	15	15	15	15	25	25
	End Depth		30	30	20	20	20	20	20	20	20	20	20	20	30	30
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		05/02/14	06/09/14	07/01/13	08/07/13	09/17/13	10/03/13	11/04/13	12/04/13	01/06/14	02/04/14	03/05/14	04/07/14	07/01/13	08/07/13
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	10 U	10 U	1 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	1 U	1 U	10 U
Toluene	µg/L	5	10 U	10 U	**2**	**49**	1 U	10 U	10 U	1 U	10 U	10 U	1 U	1 U	**1**	10 U
Ethylbenzene	µg/L	5	10 U	10 U	1 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	1 U	1 U	10 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	10 U	10 U	**16**	**140**	**4**	10 U	10 U	**5**	10 U	10 U	1 U	**2**	**25**	10 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	**18**	**189**	**4**	ND	ND	**5**	ND	ND	ND	**2**	**26**	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-17I2	OU3MW-17I2	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I	OU3MW-18I2	OU3MW-18I2
	Start Depth		25	25	15	15	15	15	15	15	15	15	15	15	25	25
	End Depth		30	30	20	20	20	20	20	20	20	20	20	20	30	30
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		05/02/14	06/09/14	07/01/13	08/07/13	09/17/13	10/03/13	11/04/13	12/04/13	01/06/14	02/04/14	03/05/14	04/07/14	07/01/13	08/07/13
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
Acenaphthylene	µg/L	NE	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
Anthracene	µg/L	50*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
Benzo(a)anthracene	µg/L	0.002*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
Benzo(b)fluoranthene	µg/L	0.002*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
Benzo(k)fluoranthene	µg/L	0.002*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
Benzo(g,h,i)perylene	µg/L	NE	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
Benzo(a)pyrene	µg/L	ND	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
Chrysene	µg/L	0.002*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
Dibenz(a,h)anthracene	µg/L	NE	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
Fluoranthene	µg/L	50*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
Fluorene	µg/L	50*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
2-Methylnaphthalene	µg/L	NE	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
Naphthalene	µg/L	10*	--	--	--	--	**2 J**	--	--	**1 J**	--	--	10 U	10 U	--	--
Phenanthrene	µg/L	50*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
Pyrene	µg/L	50*	--	--	--	--	10 U	--	--	10 U	--	--	10 U	10 U	--	--
Total PAH (17) (ND=0)	µg/L	NE	--	--	--	--	**2**	--	--	**1**	--	--	**ND**	ND	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-18I2	OU3MW-18I2	OU3MW-18I2	OU3MW-18I2	OU3MW-18I2	OU3MW-19S	DUP-16 Q3	OU3MW-19S	OU3MW-19S	OU3MW-19S	OU3MW-19I	OU3MW-19I	OU3MW-19I
	Start Depth		25	25	25	25	25	2	2	2	2	2	20	20	20
	End Depth		30	30	30	30	30	12	12	12	12	12	25	25	25
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		09/17/13	10/03/13	12/04/13	03/05/14	04/07/14	09/18/13	09/18/13	11/21/13	01/27/14	03/17/14	09/18/13	11/21/13	01/27/14
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	1 U	10 U	1 U	1 U	1 U	**850 D**	**840 D**	**600 D**	**680 D**	**890 D**	**11**	**54**	1 U
Toluene	µg/L	5	1 U	10 U	1 U	1 U	1 U	**600 D**	**600 D**	**360 D**	**170**	**120 D**	**6**	**38**	1 U
Ethylbenzene	µg/L	5	1 U	10 U	1 U	1 U	1 U	**2000 D**	**2000 D**	**1800 D**	**1500 D**	**1600 D**	**64**	**240 D**	**5**
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	10 U	1 U	1 U	1 U	**2900 D**	**3000 D**	**2800 D**	**2000 D**	**1800 D**	**25**	**170**	**2**
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	**6350**	**6440**	**5560**	**4350**	**4410**	**106**	**502**	**7**
Other VOCs															
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-18I2	OU3MW-18I2	OU3MW-18I2	OU3MW-18I2	OU3MW-18I2	OU3MW-19S	DUP-16 Q3	OU3MW-19S	OU3MW-19S	OU3MW-19S	OU3MW-19I	OU3MW-19I	OU3MW-19I
	Start Depth		25	25	25	25	25	2	2	2	2	2	20	20	20
	End Depth		30	30	30	30	30	12	12	12	12	12	25	25	25
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		09/17/13	10/03/13	12/04/13	03/05/14	04/07/14	09/18/13	09/18/13	11/21/13	01/27/14	03/17/14	09/18/13	11/21/13	01/27/14
Analyte	**Units**	**NYS AWQS**													
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-O	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17															
Acenaphthene	µg/L	20*	10 U	--	10 U	10 U	10 U	**2 J**	**3 J**	**3 J**	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	--	10 U	10 U	10 U	**2 J**	**2 J**	**2 J**	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	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	µg/L	0.002*	10 U	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	--	10 U	10 U	10 U	**46**	**53**	**59**	**13**	**18**	10 U	**3 J**	10 U
Naphthalene	µg/L	10*	10 U	--	10 U	10 U	10 U	**590 D**	**660 D**	**940 D**	**250 D**	**290 D**	**17**	**58**	**2 J**
Phenanthrene	µg/L	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	µg/L	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)	µg/L	NE	ND	--	ND	ND	ND	**640**	**718**	**1004**	**263**	**308**	**17**	**61**	**2**

Table 4-13. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-19I	OU3MW-19I2	OU3MW-19I2	OU3MW-19I2	OU3MW-19I2	OU3MW-20S	OU3MW-20S	OU3MW-20S	OU3MW-20S	OU3MW-20I	OU3MW-20I	OU3MW-20I	OU3MW-20I
	Start Depth		20	30	30	30	30	2	2	2	2	20	20	20	20
	End Depth		25	35	35	35	35	12	12	12	12	25	25	25	25
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		03/17/14	09/18/13	11/21/13	01/27/14	03/17/14	09/18/13	11/22/13	02/21/14	04/24/14	09/18/13	11/22/13	02/14/14	04/24/14
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U	**8**	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U	**31**	**53**	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	**26**	**29**	**3**	1 U	**170**	**220 D**	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	**59**	**51**	1 U	1 U	**230**	**270**	**2**	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	**85**	**82**	**3**	ND	**431**	**551**	**2**	ND
Other VOCs															
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-19I	OU3MW-19I2	OU3MW-19I2	OU3MW-19I2	OU3MW-19I2	OU3MW-20S	OU3MW-20S	OU3MW-20S	OU3MW-20S	OU3MW-20I	OU3MW-20I	OU3MW-20I	OU3MW-20I
	Start Depth		20	30	30	30	30	2	2	2	2	20	20	20	20
	End Depth		25	35	35	35	35	12	12	12	12	25	25	25	25
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		03/17/14	09/18/13	11/21/13	01/27/14	03/17/14	09/18/13	11/22/13	02/21/14	04/24/14	09/18/13	11/22/13	02/14/14	04/24/14
Analyte	**Units**	**NYS AWQS**													
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17															
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	**2 J**	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**5 J**	10 U	10 U
Anthracene	µg/L	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	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**3 J**	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	**15**	**49**	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	**22**	**11**	**1 J**	**2 J**	**290 D**	**360 D**	**3 J**	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**2 J**	10 U	10 U
Pyrene	µg/L	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)	µg/L	NE	ND	ND	ND	ND	ND	**23**	**11**	**1**	**2**	**310**	**421**	**3**	ND

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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-20I2	OU3MW-20I2	OU3MW-20I2	OU3MW-20I2	OU3MW-21S	OU3MW-21S	OU3MW-21S	OU3MW-21S	OU3MW-21S	OU3MW-21S	OU3MW-21S	OU3MW-21S	OU3MW-21S
	Start Depth		30	30	30	30	2	2	2	2	2	2	2	2	2
	End Depth		35	35	35	35	12	12	12	12	12	12	12	12	12
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		09/18/13	11/22/13	02/14/14	04/24/14	09/06/13	10/08/13	11/08/13	12/05/13	01/10/14	02/07/14	03/07/14	04/11/14	05/07/14
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	**9**	1 U	1 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	10 U	10 U
Total BTEX (ND=0)	µg/L	NE	ND	**9**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs															
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-20I2	OU3MW-20I2	OU3MW-20I2	OU3MW-20I2	OU3MW-21S	OU3MW-21S	OU3MW-21S	OU3MW-21S	OU3MW-21S	OU3MW-21S	OU3MW-21S	OU3MW-21S	OU3MW-21S
	Start Depth		30	30	30	30	2	2	2	2	2	2	2	2	2
	End Depth		35	35	35	35	12	12	12	12	12	12	12	12	12
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		09/18/13	11/22/13	02/14/14	04/24/14	09/06/13	10/08/13	11/08/13	12/05/13	01/10/14	02/07/14	03/07/14	04/11/14	05/07/14
Analyte	**Units**	**NYS AWQS**													
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17															
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Naphthalene	µg/L	10*	10 U	**6 J**	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	--	--	10 U	--	--	10 U	--	--
Total PAH (17) (ND=0)	µg/L	NE	ND	**6**	ND	ND	ND	--	--	ND	--	--	ND	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-21S	OU3MW-21I	OU3MW-21I	OU3MW-21I	OU3MW-21I	OU3MW-21I	OU3MW-21I	OU3MW-21I	DUP-10 Q1	OU3MW-21I	OU3MW-21I	OU3MW-21I	OU3MW-21I2	OU3MW-21I2
	Start Depth		2	15	15	15	15	15	15	15	15	15	15	15	25	25
	End Depth		12	20	20	20	20	20	20	20	20	20	20	20	30	30
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		06/06/14	09/06/13	10/08/13	11/08/13	12/05/13	01/10/14	02/07/14	03/07/14	03/07/14	04/11/14	05/07/14	06/06/14	09/06/13	10/08/13
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	1 U	10 U	10 U	1 U	1 U	10 U
Toluene	µg/L	5	1 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	1 U	10 U	10 U	1 U	1 U	10 U
Ethylbenzene	µg/L	5	1 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	1 U	10 U	10 U	1 U	1 U	10 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	1 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	1 U	10 U	10 U	1 U	1 U	10 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-21S	OU3MW-21I	OU3MW-21I	OU3MW-21I	OU3MW-21I	OU3MW-21I	OU3MW-21I	OU3MW-21I	DUP-10 Q1	OU3MW-21I	OU3MW-21I	OU3MW-21I	OU3MW-21I2	OU3MW-21I2
	Start Depth		2	15	15	15	15	15	15	15	15	15	15	15	25	25
	End Depth		12	20	20	20	20	20	20	20	20	20	20	20	30	30
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		06/06/14	09/06/13	10/08/13	11/08/13	12/05/13	01/10/14	02/07/14	03/07/14	03/07/14	04/11/14	05/07/14	06/06/14	09/06/13	10/08/13
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	20*	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Acenaphthylene	µg/L	NE	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Anthracene	µg/L	50*	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Benzo(a)anthracene	µg/L	0.002*	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Benzo(b)fluoranthene	µg/L	0.002*	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Benzo(k)fluoranthene	µg/L	0.002*	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Benzo(g,h,i)perylene	µg/L	NE	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Benzo(a)pyrene	µg/L	ND	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Chrysene	µg/L	0.002*	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Dibenz(a,h)anthracene	µg/L	NE	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Fluoranthene	µg/L	50*	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Fluorene	µg/L	50*	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
2-Methylnaphthalene	µg/L	NE	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Naphthalene	µg/L	10*	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Phenanthrene	µg/L	50*	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Pyrene	µg/L	50*	10 UJ	10 U	--	--	10 U	--	--	10 U	10 U	--	--	10 U	10 U	--
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	--	--	ND	--	--	ND	ND	--	--	ND	ND	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-21I2	OU3MW-21I2	OU3MW-21I2	OU3MW-21I2	OU3MW-21I2	OU3MW-21I2	OU3MW-21I2	OU3MW-21I2	OU3MW-22I	OU3MW-22I	OU3MW-22I	OU3MW-22I2	OU3MW-22I2
	Start Depth		25	25	25	25	25	25	25	25	10	10	10	25	25
	End Depth		30	30	30	30	30	30	30	30	15	15	15	30	30
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		11/08/13	12/05/13	01/10/14	02/07/14	03/07/14	04/11/14	05/07/14	06/06/14	11/14/13	12/13/13	01/16/14	11/14/13	12/13/13
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	10 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	**5200 D**	**3900 D**	**3900 D**	10 U	10 U
Toluene	µg/L	5	10 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	**15000 D**	**12000 D**	**13000 D**	10 U	10 U
Ethylbenzene	µg/L	5	10 U	1 U	10 U	10 U	1 U	10 U	10 U	1 U	**5800 D**	**5400 D**	**6100 D**	10 U	10 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	10 U	**11**	10 U	10 U	1 U	10 U	10 U	1 U	**9300 D**	**8900 D**	**9200 D**	10 U	10 U
Total BTEX (ND=0)	µg/L	NE	ND	**11**	ND	ND	ND	ND	ND	ND	**35300**	**30200**	**32200**	ND	ND
Other VOCs															
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-21I2	OU3MW-21I2	OU3MW-21I2	OU3MW-21I2	OU3MW-21I2	OU3MW-21I2	OU3MW-21I2	OU3MW-21I2	OU3MW-22I	OU3MW-22I	OU3MW-22I	OU3MW-22I2	OU3MW-22I2
	Start Depth		25	25	25	25	25	25	25	25	10	10	10	25	25
	End Depth		30	30	30	30	30	30	30	30	15	15	15	30	30
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		11/08/13	12/05/13	01/10/14	02/07/14	03/07/14	04/11/14	05/07/14	06/06/14	11/14/13	12/13/13	01/16/14	11/14/13	12/13/13
Analyte	**Units**	**NYS AWQS**													
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17															
Acenaphthene	µg/L	20*	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
Acenaphthylene	µg/L	NE	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
Anthracene	µg/L	50*	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
Benzo(a)anthracene	µg/L	0.002*	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
Benzo(b)fluoranthene	µg/L	0.002*	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
Benzo(k)fluoranthene	µg/L	0.002*	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
Benzo(g,h,i)perylene	µg/L	NE	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
Benzo(a)pyrene	µg/L	ND	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
Chrysene	µg/L	0.002*	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
Dibenz(a,h)anthracene	µg/L	NE	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
Fluoranthene	µg/L	50*	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
Fluorene	µg/L	50*	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
2-Methylnaphthalene	µg/L	NE	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
Naphthalene	µg/L	10*	--	**14**	--	--	10 U	--	--	10 U	--	--	--	--	--
Phenanthrene	µg/L	50*	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
Pyrene	µg/L	50*	--	10 U	--	--	10 U	--	--	10 U	--	--	--	--	--
Total PAH (17) (ND=0)	µg/L	NE	--	**14**	--	--	ND	--	--	ND	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-22I2	OU3MW-23I	OU3MW-23I	LIRR DUP-01	OU3MW-23I	OU3MW-23I2	OU3MW-23I2	OU3MW-23I2	OU3MW-24I	OU3MW-24I	OU3MW-24I	OU3MW-24I2	OU3MW-24I2
	Start Depth		25	10	10	10	10	25	25	25	10	10	10	25	25
	End Depth		30	15	15	15	15	30	30	30	15	15	15	30	30
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		01/16/14	11/14/13	12/13/13	12/13/13	01/16/14	11/14/13	12/13/13	01/16/14	11/14/13	12/13/13	01/16/14	11/14/13	12/13/13
Analyte	**Units**	**NYS AWQS**													
BTEX															
Benzene	µg/L	1	10 U	**1500 D**	**1200 D**	**1100 D**	**1900 D**	**180**	**170**	1000 U	**120**	**110**	**75**	**34**	**21**
Toluene	µg/L	5	10 U	**6600 D**	**5200 D**	**5000 D**	**5800 D**	**130**	**100**	1000 U	**1100 D**	**740 D**	**150**	**1900 D**	**1100 D**
Ethylbenzene	µg/L	5	**270 D**	**4200 D**	**3900 D**	**3700 D**	**3300 D**	**1400 D**	**840 D**	**1500 D**	**1300 D**	**980 D**	**220 D**	**1900 D**	**1600 D**
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**210**	**6900 D**	**6600 D**	**6400 D**	**5000 D**	**1900 D**	**1100 D**	**460**	**520**	**1700 D**	**1700 D**	**4100 D**	**3100 D**
Total BTEX (ND=0)	µg/L	NE	**480**	**19200**	**16900**	**16200**	**16000**	**3610**	**2210**	**1960**	**3040**	**3530**	**2145**	**7934**	**5821**
Other VOCs															
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-22I2	OU3MW-23I	OU3MW-23I	LIRR DUP-01	OU3MW-23I	OU3MW-23I2	OU3MW-23I2	OU3MW-23I2	OU3MW-24I	OU3MW-24I	OU3MW-24I	OU3MW-24I2	OU3MW-24I2	
	Start Depth		25	10	10	10	10	25	25	25	10	10	10	25	25	
	End Depth		30	15	15	15	15	30	30	30	15	15	15	30	30	
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	
	Sample Date		01/16/14	11/14/13	12/13/13	12/13/13	01/16/14	11/14/13	12/13/13	01/16/14	11/14/13	12/13/13	01/16/14	11/14/13	12/13/13	
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	
NYSDEC PAH17																
Acenaphthene	µg/L	20*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Acenaphthylene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
Anthracene	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(a)anthracene	µg/L	0.002*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(b)fluoranthene	µg/L	0.002*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(k)fluoranthene	µg/L	0.002*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(g,h,i)perylene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
Benzo(a)pyrene	µg/L	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	
Chrysene	µg/L	0.002*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Dibenz(a,h)anthracene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
Fluoranthene	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Fluorene	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	--	--	--	--	--	--	--	--	--	--	--	--	--	
2-Methylnaphthalene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Phenanthrene	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Pyrene	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	
Total PAH (17) (ND=0)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-24I2	PDMW-01	DUP-03Q2	SV-02	SV-02	SV-02	SV-02	SV-02I	SV-02I	SV-02I	SV-02I	SV-02I2	SV-02I2	SV-02I2
	Start Depth		25	5	5	2	2	2	2	22	22	22	22	35	35	35
	End Depth		30	20	20	12	12	12	12	27	27	27	27	40	40	40
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		01/16/14	04/18/14	04/18/14	08/09/13	12/10/13	02/12/14	04/04/14	08/09/13	12/10/13	02/12/14	04/04/14	08/09/13	12/10/13	02/12/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	**120**	1 U	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	µg/L	5	**6000 D**	1 U	1 U	1 U	1 U	1 U	1 U	**5**	**2**	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	**4400 D**	1 U	1 U	1 U	**2**	1 U	1 U	**69**	**4**	1 U	1 U	1 U	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Xylene	µg/L	5	**9600 D**	1 U	1 U	1 U	**5**	1 U	1 U	**73**	**26**	1 U	**6**	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	**20120**	ND	ND	ND	**7**	ND	ND	**147**	**32**	ND	**6**	ND	ND	ND
Other VOCs																
Acetaldehyde	µg/L	8*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
	Sample Name		OU3MW-24I2	PDMW-01	DUP-03Q2	SV-02	SV-02	SV-02	SV-02	SV-02I	SV-02I	SV-02I	SV-02I	SV-02I2	SV-02I2	SV-02I2
	Start Depth		25	5	5	2	2	2	2	22	22	22	22	35	35	35
	End Depth		30	20	20	12	12	12	12	27	27	27	27	40	40	40
	Depth Unit		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
	Sample Date		01/16/14	04/18/14	04/18/14	08/09/13	12/10/13	02/12/14	04/04/14	08/09/13	12/10/13	02/12/14	04/04/14	08/09/13	12/10/13	02/12/14
Analyte	**Units**	**NYS AWQS**														
Iodomethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NYSDEC PAH17																
Acenaphthene	µg/L	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	µg/L	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	µg/L	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	µg/L	0.002*	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	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	µg/L	ND	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	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	µg/L	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	µg/L	0.002*	--	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	--	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	--	10 U	10 U	10 U	10 U	10 U	10 U	**48**	**3 J**	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	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	µg/L	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)	µg/L	NE	--	ND	ND	ND	ND	ND	ND	**51**	**3**	ND	ND	ND	ND	ND

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

			Operable Unit	OU3	OU3	OU3	OU3	OU3
			Sample Name	SV-02I2	SV-03	SV-03	SV-03	SV-03
			Start Depth	35	2	2	2	2
			End Depth	40	12	12	12	12
			Depth Unit	ft	ft	ft	ft	ft
			Sample Date	04/04/14	08/08/13	12/16/13	03/12/14	05/09/14
Analyte	**Units**	**NYS AWQS**						
BTEX								
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	**1**	1 U	1 U
o-Xylene	µg/L	5	--	--	--	--	--
m/p-Xylene	µg/L	5	--	--	--	--	--
Total Xylene	µg/L	5	1 U	**4**	**2**	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	**4**	**3**	ND	ND
Other VOCs								
Acetaldehyde	µg/L	8*	--	--	--	--	--
Acetone	µg/L	50*	--	--	--	--	--
Acrylonitrile	µg/L	5	--	--	--	--	--
Allyl chloride (3-Chloropropene	µg/L	5	--	--	--	--	--
Bromochloromethane	µg/L	5	--	--	--	--	--
Bromodichloromethane	µg/L	50*	--	--	--	--	--
Bromoform	µg/L	50*	--	--	--	--	--
Bromomethane	µg/L	5	--	--	--	--	--
1,3-Butadiene	µg/L	NE	--	--	--	--	--
Carbon disulfide	µg/L	60*	--	--	--	--	--
Carbon tetrachloride	µg/L	5	--	--	--	--	--
Chlorobenzene	µg/L	5	--	--	--	--	--
Chloroethane	µg/L	5	--	--	--	--	--
2-Chloroethyl vinyl ether	µg/L	NE	--	--	--	--	--
Chloroform	µg/L	7	--	--	--	--	--
Chloromethane	µg/L	5	--	--	--	--	--
Chlorotoluene	µg/L	5	--	--	--	--	--
Cryofluorane (Freon 114)	µg/L	NE	--	--	--	--	--
Cyclohexane	µg/L	NE	--	--	--	--	--
1,2-Dibromo-3-chloropropane	µg/L	0.04	--	--	--	--	--
Dibromochloromethane	µg/L	50*	--	--	--	--	--
1,2-Dibromoethane (EDB)	µg/L	0.0006	--	--	--	--	--
trans-1,4-dichloro-2-butene	µg/L	5	--	--	--	--	--
1,2-Dichlorobenzene	µg/L	3	--	--	--	--	--
1,3-Dichlorobenzene	µg/L	3	--	--	--	--	--
1,4-Dichlorobenzene	µg/L	3	--	--	--	--	--
Dichlorodifluoromethane (Freo	µg/L	5	--	--	--	--	--
1,1-Dichloroethane	µg/L	5	--	--	--	--	--
1,2-Dichloroethane	µg/L	0.6	--	--	--	--	--
1,1-Dichloroethene	µg/L	0.07	--	--	--	--	--
cis-1,2-Dichloroethene	µg/L	5	--	--	--	--	--
trans-1,2-Dichloroethene	µg/L	5	--	--	--	--	--
1,2-Dichloropropane	µg/L	1	--	--	--	--	--
cis-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--
trans-1,3-Dichloropropene	µg/L	0.4	--	--	--	--	--
1,4-Dioxane	µg/L	NE	--	--	--	--	--
Ethanol	µg/L	NE	--	--	--	--	--
n-Heptane	µg/L	NE	--	--	--	--	--
Hexachlorobutadiene (C-46)	µg/L	0.5	--	--	--	--	--
n-Hexane	µg/L	NE	--	--	--	--	--
2-Hexanone	µg/L	50*	--	--	--	--	--

Table 4-13. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 3 (OU-3)

	Operable Unit		OU3	OU3	OU3	OU3	OU3
	Sample Name		SV-02I2	SV-03	SV-03	SV-03	SV-03
	Start Depth		35	2	2	2	2
	End Depth		40	12	12	12	12
	Depth Unit		ft	ft	ft	ft	ft
	Sample Date		04/04/14	08/08/13	12/16/13	03/12/14	05/09/14
Analyte	**Units**	**NYS AWQS**					
Iodomethane	µg/L	5	--	--	--	--	--
Isopropyl benzene	µg/L	5	--	--	--	--	--
Methyl ethyl ketone (2-Butanor	µg/L	50*	--	--	--	--	--
Methyl tert-butyl ether (MTBE)	µg/L	10*	--	--	--	--	--
4-Methyl-2-pentanone (MIBK)	µg/L	NE	--	--	--	--	--
Methylene chloride	µg/L	5	--	--	--	--	--
Naphthalene	µg/L	10*	--	--	--	--	--
2-Propanol (Isopropyl Alcohol)	µg/L	NE	--	--	--	--	--
n-Propylbenzene	µg/L	5	--	--	--	--	--
Styrene	µg/L	5	--	--	--	--	--
1,1,1,2-Tetrachloroethane	µg/L	5	--	--	--	--	--
1,1,2,2-Tetrachloroethane	µg/L	5	--	--	--	--	--
Tetrachloroethene (PCE)	µg/L	5	--	--	--	--	--
Tetrahydrofuran	µg/L	50*	--	--	--	--	--
1,1,2-Trichloro-1,2,2-trifluoroet	µg/L	5	--	--	--	--	--
1,2,4-Trichlorobenzene	µg/L	5	--	--	--	--	--
1,1,1-Trichloroethane (TCA)	µg/L	5	--	--	--	--	--
1,1,2-Trichloroethane	µg/L	1	--	--	--	--	--
Trichloroethene (TCE)	µg/L	5	--	--	--	--	--
Trichlorofluoromethane (Freon	µg/L	5	--	--	--	--	--
1,2,3-Trichloropropane	µg/L	0.04	--	--	--	--	--
1,2,4-Trimethylbenzene	µg/L	5	--	--	--	--	--
1,3,5-Trimethylbenzene/p-Ethy	µg/L	5	--	--	--	--	--
2,2,4-Trimethylpentane (iso-Oc	µg/L	NE	--	--	--	--	--
Vinyl acetate	µg/L	NE	--	--	--	--	--
Vinyl chloride	µg/L	2	--	--	--	--	--
NYSDEC PAH17							
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 UJ
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	**6 J**	**5 J**	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	**6**	**5**	ND	ND

Table 4-14. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)												
		Sampling Date												
		2002		2003			2004				2005			
		Jun/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec
WCMW-01S	2.0 - 12.0	5	1	0	0	0	0	0	11	0	0	0	10	0
WCMW-01I	35.0 - 45.0	0	0	0	0	0	--	0	0	--	0	--	--	--
WCMW-01D	64.0 - 74.0	0	0	--	0	--	--	0	0	--	--	--	--	--
WCMW-02S	3.0 - 13.0	6	0	0	0	0	0	0	0	--	0	--	--	--
WCMW-02I	34.5 - 44.5	0	0	0	0	0	--	0	0	--	--	--	--	--
WCMW-02D	62.0 - 72.0	0	0	--	--	--	--	0	0	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	10	12	25	0	10	25	14	0	42	14	23	10
WCMW-03I	19.4 - 24.4	--	0	0	0	0	0	0	0	0	0	--	--	0
WCMW-03I2	28.55 - 33.55	--	0	0	0	0	0	0	0	0	0	--	--	0
WCMW-04S	1.6 - 11.6	--	33	0	15	16	12	0	10	40	0	16	0	0
WCMW-04I	19.0 - 24.0	--	0	0	0	0	0	0	0	--	0	--	--	0
WCMW-04I2	29.85 - 34.85	--	0	--	0	0	--	0	0	0	0	--	--	0
WCMW-05S	1.15 - 11.15	--	0	0	0	0	0	0	0	0	0	--	--	0
WCMW-05I	19.61 - 24.61	--	0	0	0	0	0	0	0	--	0	--	--	0
WCMW-05I2	29.46 - 34.46	--	0	0	0	0	--	0	0	0	0	--	--	0
WCMW-06S	2.0 - 12.0	--	0	0	0	0	0	0	0	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	0	0	0	0	0	0	0	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	0	--	0	0	--	0	0	--	--	--	--	--
WCMW-07S	2.76 - 12.76	--	0	0	0	0	--	0	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	0	--	0	0	--	0	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	0	--	0	0	--	0	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	--	0	0	0	0	--	0	0	--	--	--	--	--
WCMW-08I	19.2 - 24.2	--	0	--	0	0	0	0	0	--	--	--	--	--
WCMW-08I2	26.9 - 31.9	--	0	--	0	0	--	0	0	--	--	--	--	--
WCMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11D	50.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-14. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)												
		Sampling Date												
		2002		2003			2004				2005			
		Jun/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec
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. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)												
		Sampling Date												
		2006				2007				2008				2009
		Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
WCMW-01S	2.0 - 12.0	0	0	23	0	0	0	13	9	2	0	12	3	3
WCMW-01I	35.0 - 45.0	0	--	--	--	0	--	0	1	0	0	0	0	0
WCMW-01D	64.0 - 74.0	0	--	--	--	0	--	0	2	0	0	0	0	0
WCMW-02S	3.0 - 13.0	0	0	0	0	0	0	4	6	0	0	2	0	0
WCMW-02I	34.5 - 44.5	0	--	--	--	0	--	0	0	0	0	0	0	0
WCMW-02D	62.0 - 72.0	0	--	--	--	0	--	0	0	0	0	0	0	0
WCMW-03S	4.83 - 9.83	--	0	22	20	0	12	32	0	20	21	25	24	33
WCMW-03I	19.4 - 24.4	--	0	--	--	--	--	0	0	0	0	0	0	0
WCMW-03I2	28.55 - 33.55	--	0	--	--	--	--	0	0	0	0	0	0	0
WCMW-04S	1.6 - 11.6	11	10	31	16	0	12	23	25	6	22	24	26	21
WCMW-04I	19.0 - 24.0	--	--	--	0	--	--	0	0	0	0	0	0	0
WCMW-04I2	29.85 - 34.85	--	--	--	0	0	--	0	0	0	0	0	0	0
WCMW-05S	1.15 - 11.15	--	0	--	--	0	0	0	0	0	0	0	0	1
WCMW-05I	19.61 - 24.61	--	0	--	--	--	--	0	0	0	0	0	0	0
WCMW-05I2	29.46 - 34.46	--	0	--	--	--	--	0	0	0	0	0	0	0
WCMW-06S	2.0 - 12.0	--	--	--	--	0	0	0	0	0	0	0	0	0
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	0	0	0	0	0	0	0
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	0	0	0	0	0	0	0
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	0	--	--	--	--	--	0	0	0	--	0	--	--
WCMW-08I	19.2 - 24.2	--	--	--	--	--	--	0	0	0	--	0	--	--
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	--	0	0	0	--	0	--	--
WCMW-09S	5.0 - 15.0	0	0	0	--	--	--	0	0	0	0	0	0	0
WCMW-10S	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-10D	40.0 - 50.0	0	0	0	--	--	--	1	0	0	0	0	0	0
WCMW-11S	5.0 - 15.0	80	--	148	--	--	--	--	--	--	53	--	--	--
WCMW-11I	25.0 - 35.0	0	--	0	--	--	--	--	--	--	0	--	--	--
WCMW-11D	50.0 - 60.0	0	--	0	--	--	--	--	--	--	0	--	--	--
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	0	0	1	0	0
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-14. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)												
		Sampling Date												
		2006				2007				2008				2009
		Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
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. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)												
		Sampling Date												
		2009			2010				2011				2012	
		Apr-Jun	Jul-Aug	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun
WCMW-01S	2.0 - 12.0	1	4	0	1	5	10	14	1	--	--	--	--	--
WCMW-01I	35.0 - 45.0	0	0	0	0	0	0	0	0	--	--	--	--	--
WCMW-01D	64.0 - 74.0	0	0	0	0	0	0	0	0	--	--	--	--	--
WCMW-02S	3.0 - 13.0	0	0	5	0	0	0	3	9	0	0	19	6	0
WCMW-02I	34.5 - 44.5	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-02D	62.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-03S	4.83 - 9.83	34	23	6	27	29	30	27	24	--	--	--	--	--
WCMW-03I	19.4 - 24.4	0	0	0	0	0	0	0	0	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	0	0	0	0	0	0	0	0	--	--	--	--	--
WCMW-04S	1.6 - 11.6	34	10	2	6	12	32	25	30	11	2	3	0	0
WCMW-04I	19.0 - 24.0	0	2	0	0	0	0	0	0	0	14	9	4	13
WCMW-04I2	29.85 - 34.85	0	0	0	0	0	0	0	0	0	2	0	0	0
WCMW-05S	1.15 - 11.15	0	0	1	2	3	0	0	3	2	2	0	3	1
WCMW-05I	19.61 - 24.61	0	0	0	0	0	0	0	0	0	1	5	9	10
WCMW-05I2	29.46 - 34.46	0	0	0	0	0	0	0	0	0	0	0	2	0
WCMW-06S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-06I	19.55 - 24.55	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-06I2	29.83 - 34.83	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	0	--	--	--	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	--
WCMW-08I	19.2 - 24.2	--	--	--	0	--	--	--	--	--	--	--	0	--
WCMW-08I2	26.9 - 31.9	--	--	--	0	--	--	--	--	--	--	--	0	--
WCMW-09S	5.0 - 15.0	0	0	0	0	0	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	0	0	0	0	0	--	--	--	--	--	--	--	--
WCMW-10D	40.0 - 50.0	0	0	0	0	0	--	--	--	--	--	--	--	--
WCMW-11S	5.0 - 15.0	53	36	2	23	--	12	16	27	30	75	--	37	17
WCMW-11I	25.0 - 35.0	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
WCMW-12S	3.0 - 13.0	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
WCMW-12D	67.0 - 72.0	0	0	0	0	0	0	0	2	0	0	0	0	0
WCMW-13S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	0	2	17	3
WCMW-13I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-13D	65.0 - 70.0	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	1	0
WCMW-14I	20.0 - 25.0	0	0	0	1	0	0	0	0	0	0	0	0	0
WCMW-14I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-14D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-16S	2.0 - 12.0	2	0	9	0	0	0	0	0	--	--	--	--	--
WCMW-16I	20.0 - 25.0	1	0	0	0	0	0	0	0	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	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	--	--	--	--	--

Table 4-14. Summary of Historical BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)												
		Sampling Date												
		2009			2010				2011				2012	
		Apr-Jun	Jul-Aug	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun
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
WCMW-19I	20.0 - 25.0	--	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-19I2	30.0 - 35.0	--	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-20S	2.0 - 12.0	--	0	0	0	0	0	0	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
WCMW-25D	55.0 - 60.0	--	--	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
WCMW-26I	20.0 - 25.0	--	--	0	0	--	0	0	0	0	0	--	0	2
WCMW-26I2	30.0 - 35.0	--	--	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
WCMW-29I	20.0 - 25.0	--	--	--	--	--	0	0	0	0	0	--	0	0
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	10	13
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	3	1
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	0	0
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	0	0

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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)												
		Sampling Date								Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2012		2013				2014						
		Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun					
WCMW-01S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	23	4	0	23
WCMW-01I	35.0 - 45.0	--	--	--	--	--	--	--	--	0	1	0	0	1
WCMW-01D	64.0 - 74.0	--	--	--	--	--	--	--	--	0	2	0	0	2
WCMW-02S	3.0 - 13.0	0	0	0	0	0	0	0	0	0	19	1	0	19
WCMW-02I	34.5 - 44.5	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-02D	62.0 - 72.0	0	0	0	0	--	--	--	0	0	0	0	0	0
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	0	42	19	0	42
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-04S	1.6 - 11.6	0	0	0	0	--	--	--	0	0	40	13	0	40
WCMW-04I	19.0 - 24.0	24	17	17	16	12	9	8	13	0	24	4	0	24
WCMW-04I2	29.85 - 34.85	4	2	0	3	6	2	1	0	0	6	1	0	6
WCMW-05S	1.15 - 11.15	0	0	2	0	0	0	0	0	0	3	1	0	3
WCMW-05I	19.61 - 24.61	8	8	5	8	9	4	4	4	0	10	2	0	10
WCMW-05I2	29.46 - 34.46	0	0	0	0	0	0	0	0	0	2	0	0	2
WCMW-06S	2.0 - 12.0	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-06I	19.55 - 24.55	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-06I2	29.83 - 34.83	0	--	--	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	0
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-08S	4.2 - 9.2	--	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-08I	19.2 - 24.2	--	--	--	0	--	--	--	0	0	0	0	0	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	0	0	0
WCMW-10D	40.0 - 50.0	--	0	0	0	--	0	--	0	0	1	0	0	1
WCMW-11S	5.0 - 15.0	10	--	6	2	4	2	8	15	2	148	32	2	148
WCMW-11I	25.0 - 35.0	0	--	0	0	7	8	0	0	0	8	1	0	8
WCMW-11D	50.0 - 60.0	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-12S	3.0 - 13.0	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-12I	25.0 - 30.0	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-12D	67.0 - 72.0	0	--	--	0	--	--	--	0	0	2	0	0	2
WCMW-13S	3.0 - 13.0	10	12	0	0	0	0	9	1	0	17	2	0	17
WCMW-13I	25.0 - 30.0	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-13D	65.0 - 70.0	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-14S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	1	0	0	1
WCMW-14I	20.0 - 25.0	1	2.5	1	0	2	0	0	0	0	3	0	0	3
WCMW-14I2	30.0 - 35.0	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-14D	67.0 - 72.0	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	9	1	0	9
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	1	0	0	1
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	2	0	0	2
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	6	3	0	6
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	2	0	0	2
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	0	0	0	0	0

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Well ID	Screen Interval (feet bgs)	BTEX Groundwater Concentration (µg/L)												
		Sampling Date								Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2012		2013				2014						
		Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sept	Oct-Dec	Jan-Mar	Apr-Jun					
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	1	0	0	1
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-19S	2.0 - 12.0	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-19I	20.0 - 25.0	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-19I2	30.0 - 35.0	0	--	--	0	--	--	--	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	0
WCMW-22I	25.0 - 30.0	--	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-23S	2.0 - 12.0	--	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-23I	25.0 - 30.0	--	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	16	6	0	16
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-25I	30.0 - 35.0	0	--	--	0	--	--	--	0	0	1	0	0	1
WCMW-25D	55.0 - 60.0	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-26S	2.0 - 12.0	67	--	7	4	68	205	64	31	4	205	59	4	205
WCMW-26I	20.0 - 25.0	0	--	0	0	0	0	1	0	0	2	0	0	2
WCMW-26I2	30.0 - 35.0	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	4	31	20	4	31
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-29S	2.0 - 12.0	54	--	154	182	22	19	77	58	19	182	84	19	182
WCMW-29I	20.0 - 25.0	0	--	--	0	--	0	0	0	0	0	0	0	0
WCMW-30S	2.0 - 12.0	0	0	0	0	--	--	--	0	0	0	0	0	0
WCMW-30I	20.0 - 25.0	26	30	14	21	18	13	17	10	10	30	18	10	30
WCMW-30I2	30.0 - 35.0	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-31S	2.0 - 12.0	0	2	4	0	0	0	0	0	0	4	1	0	4
WCMW-31I	20.0 - 25.0	0	0	0	0	--	--	--	0	0	0	0	0	0
WCMW-31I2	30.0 - 35.0	0	0	0	0	--	--	--	0	0	0	0	0	0
WCMW-32S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

Table 4-15. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 4 (OU-4)

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

Table 4-15. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)												
		Sampling Date												
		2002		2003			2004				2005			
		Jun/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sep/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	Jun	Aug	Nov/Dec
WCMW-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. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)												
		Sampling Date												
		2006				2007				2008				2009
		Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
WCMW-01S	2.0 - 12.0	0	10	340	130	78	291	203	345	47	9	353	77	0
WCMW-01I	35.0 - 45.0	0	--	--	--	0	--	0	0	0	0	2	0	0
WCMW-01D	64.0 - 74.0	0	--	--	--	0	--	0	0	0	0	0	0	0
WCMW-02S	3.0 - 13.0	0	0	30	0	0	0	77	101	0	4	51	27	0
WCMW-02I	34.5 - 44.5	0	--	--	--	0	--	0	0	0	0	1	0	0
WCMW-02D	62.0 - 72.0	0	--	--	--	0	--	0	0	0	0	1	0	0
WCMW-03S	4.83 - 9.83	--	242	339	233	198	240	305	44	122	12	102	239	243
WCMW-03I	19.4 - 24.4	--	1,770	--	--	--	--	255	315	939	134	290	1,107	142
WCMW-03I2	28.55 - 33.55	--	83	--	--	--	--	5	37	6	0	25	24	0
WCMW-04S	1.6 - 11.6	116	57	264	445	95	214	194	326	186	72	337	332	43
WCMW-04I	19.0 - 24.0	--	--	--	144	--	--	142	94	70	66	96	100	33
WCMW-04I2	29.85 - 34.85	--	--	--	0	--	--	0	0	0	0	0	0	0
WCMW-05S	1.15 - 11.15	--	0	--	--	0	0	3	3	5	3	4	2	5
WCMW-05I	19.61 - 24.61	--	286	--	--	--	--	242	287	162	153	121	150	170
WCMW-05I2	29.46 - 34.46	--	0	--	--	--	--	7	31	0	0	39	63	0
WCMW-06S	2.0 - 12.0	--	--	--	--	0	0	1	0	0	4	0	0	0
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	52	0	0	0	0	0	0
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	0	11	0	0	0	0	0
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-08S	4.2 - 9.2	0	--	--	--	--	--	0	0	0	--	0	--	--
WCMW-08I	19.2 - 24.2	--	--	--	--	--	--	0	0	0	--	0	--	--
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	--	0	0	0	--	0	--	--
WCMW-09S	5.0 - 15.0	0	0	0	--	--	--	0	0	0	0	0	0	0
WCMW-10S	15.0 - 20.0	0	0	21	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
WCMW-11S	5.0 - 15.0	1,037	--	590	--	--	--	--	--	--	705	--	--	--
WCMW-11I	25.0 - 35.0	0	--	0	--	--	--	--	--	--	0	--	--	--
WCMW-11D	50.0 - 60.0	0	--	0	--	--	--	--	--	--	0	--	--	--
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	2	5	4	1	4
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-12D	67.0 - 72.0	--	--	--	--	--	--	--	--	0	0	1	0	0
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	0	0	1	53	0
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	0	0	0	1	0
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	16	77	0	2	2
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	70	10	1
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	4	28	57	0	24
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-15. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)												
		Sampling Date												
		2006				2007				2008				2009
		Mar	Jun	Jul/Aug	Nov/Dec	Mar	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar
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. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)												
		Sampling Date												
		2009			2010				2011				2012	
		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
WCMW-01S	2.0 - 12.0	16	26	3	4	14	115	49	18	--	--	--	--	--
WCMW-01I	35.0 - 45.0	0	46	0	1	0	0	0	0	--	--	--	--	--
WCMW-01D	64.0 - 74.0	0	2	0	0	0	0	0	0	--	--	--	--	--
WCMW-02S	3.0 - 13.0	5	0	12	3	0	2	56	38	9	15	69	94	87
WCMW-02I	34.5 - 44.5	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-02D	62.0 - 72.0	0	0	0	0	0	0	0	0	0	0	5	0	0
WCMW-03S	4.83 - 9.83	358	419	237	501	6	327	363	1,532	--	--	--	--	--
WCMW-03I	19.4 - 24.4	1,146	994	1,743	1,127	1,332	1,213	1,101	6	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	2	5	15	0	535	0	9	8	--	--	--	--	--
WCMW-04S	1.6 - 11.6	16	272	197	204	227	251	390	369	262	315	132	98	60
WCMW-04I	19.0 - 24.0	108	101	46	15	30	97	130	95	44	174	432	411	251
WCMW-04I2	29.85 - 34.85	0	0	2	0	0	0	1	0	0	285	79	73	126
WCMW-05S	1.15 - 11.15	7	6	8	8	7	38	34	284	8	42	0	94	74
WCMW-05I	19.61 - 24.61	241	411	432	270	83	43	217	28	136	407	173	225	147
WCMW-05I2	29.46 - 34.46	48	5	0	0	0	19	30	0	0	778	264	306	266
WCMW-06S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-06I	19.55 - 24.55	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-06I2	29.83 - 34.83	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	0	--	--	--	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	--
WCMW-08I	19.2 - 24.2	--	--	--	0	--	--	--	--	--	--	--	0	--
WCMW-08I2	26.9 - 31.9	--	--	--	0	--	--	--	--	--	--	--	0	--
WCMW-09S	5.0 - 15.0	0	0	0	0	0	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	0	0	5	0	0	--	--	--	--	--	--	--	--
WCMW-10D	40.0 - 50.0	0	0	3	0	0	--	--	--	--	--	--	--	--
WCMW-11S	5.0 - 15.0	624	637	238	159	--	496	1,350	386	1,286	1,258	--	375	392
WCMW-11I	25.0 - 35.0	0	10	1	20	--	0	62	36	5	182	--	61	188
WCMW-11D	50.0 - 60.0	0	0	0	2	--	0	0	0	0	0	--	0	0
WCMW-12S	3.0 - 13.0	13	0	3	0	2	0	0	0	2	2	0	0	3
WCMW-12I	25.0 - 30.0	5	5	16	0	0	0	0	0	0	30	4	1	0
WCMW-12D	67.0 - 72.0	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-13S	3.0 - 13.0	0	0	0	1	0	0	0	0	0	2	75	229	219
WCMW-13I	25.0 - 30.0	0	0	0	0	0	0	0	0	0	0	0	0	2
WCMW-13D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-14S	2.0 - 12.0	6	0	4	20	23	26	0	3	0	29	263	143	56
WCMW-14I	20.0 - 25.0	50	64	81	149	214	149	65	24	25	376	125	125	258
WCMW-14I2	30.0 - 35.0	11	0	18	57	25	95	201	160	9	71	0	0	0
WCMW-14D	67.0 - 72.0	2	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-16S	2.0 - 12.0	22	0	1,971	2,259	337	43	56	51	--	--	--	--	--
WCMW-16I	20.0 - 25.0	18	0	2	13	6	14	14	6	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	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	--	--	--	--	--

Table 4-15. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
2013/2014 Anual Groundwater Monitoring and Operations Maintenace & Monitoring Report
Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)												
		Sampling Date												
		2009			2010				2011				2012	
		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
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
WCMW-19I	20.0 - 25.0	--	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-19I2	30.0 - 35.0	--	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-20S	2.0 - 12.0	--	0	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
WCMW-25D	55.0 - 60.0	--	--	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
WCMW-26I	20.0 - 25.0	--	--	47	24	--	87	28	0	26	56	--	7	25
WCMW-26I2	30.0 - 35.0	--	--	3	24	--	11	10	7	5	0	--	1	9
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
WCMW-29I	20.0 - 25.0	--	--	--	--	--	43	29	10	17	--	--	5	10
WCMW-30S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	14	49
WCMW-30I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	169	486
WCMW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	3	12
WCMW-31S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	427	353
WCMW-31I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	31	18
WCMW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	69	4
WCMW-32S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	304	286

Table 4-15. Summary of Historical Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)												
		Sampling Date								Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2012		2013				2014						
		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	756
WCMW-01I	35.0 - 45.0	--	--	--	--	--	--	--	--	0	46	2	0	46
WCMW-01D	64.0 - 74.0	--	--	--	--	--	--	--	--	0	45	4	0	45
WCMW-02S	3.0 - 13.0	58	--	67.5	84	62	77	86	45	0	125	35	0	125
WCMW-02I	34.5 - 44.5	1	--	--	0	--	--	--	0	0	4	0	0	4
WCMW-02D	62.0 - 72.0	1	0	0	0	--	--	--	0	0	5	0	0	5
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	6	1,532	317	6	1,532
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	6	1,770	967	6	1,770
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	0	535	111	0	535
WCMW-04S	1.6 - 11.6	22	20	35	12	--	--	--	10	0	1,080	208	0	1,080
WCMW-04I	19.0 - 24.0	198	199	299	306	149	232	221	212	0	432	143	0	432
WCMW-04I2	29.85 - 34.85	73	102	41	95	14	116	28	13	0	285	32	0	285
WCMW-05S	1.15 - 11.15	76	49	97	49	2	39	94	48	0	284	28	0	284
WCMW-05I	19.61 - 24.61	177	147	162	229	100	230	137	220	28	432	213	28	432
WCMW-05I2	29.46 - 34.46	112	199	173	350	55	237	138	56	0	778	91	0	778
WCMW-06S	2.0 - 12.0	0	--	--	0	--	--	--	0	0	39	1	0	39
WCMW-06I	19.55 - 24.55	0	--	--	0	--	--	--	0	0	52	2	0	52
WCMW-06I2	29.83 - 34.83	0	--	--	0	--	--	--	0	0	11	0	0	11
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	0	56	8	0	56
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-08S	4.2 - 9.2	--	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-08I	19.2 - 24.2	--	--	--	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	21	1	0	21
WCMW-10D	40.0 - 50.0	--	0	0	0	--	0	--	0	0	3	0	0	3
WCMW-11S	5.0 - 15.0	266	--	129	56	32	77	244	102	32	1,350	517	32	1,350
WCMW-11I	25.0 - 35.0	318	--	73	25	392	380	136	25	0	392	94	0	392
WCMW-11D	50.0 - 60.0	0	--	--	0	--	--	--	0	0	2	0	0	2
WCMW-12S	3.0 - 13.0	5	--	--	1	--	--	--	1	0	13	2	0	13
WCMW-12I	25.0 - 30.0	0	--	--	89	--	--	--	40	0	89	8	0	89
WCMW-12D	67.0 - 72.0	2	--	--	0	--	--	--	0	0	2	0	0	2
WCMW-13S	3.0 - 13.0	156	141	2	0	134	176	185	9	0	229	55	0	229
WCMW-13I	25.0 - 30.0	0	--	--	0	--	--	--	0	0	2	0	0	2
WCMW-13D	65.0 - 70.0	0	--	--	0	--	--	--	0	0	1	0	0	1
WCMW-14S	2.0 - 12.0	90	81	58	81	15	53	64	41	0	263	41	0	263
WCMW-14I	20.0 - 25.0	231	165	149	167	243	256	96	86	0	376	124	0	376
WCMW-14I2	30.0 - 35.0	6	--	--	0	--	--	--	0	0	201	37	0	201
WCMW-14D	67.0 - 72.0	0	--	--	0	--	--	--	0	0	2	0	0	2
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	2,259	373	0	2,259
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	18	6	0	18
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	55	8	0	55
WCMW-17S	2.0 - 12.0	--	--	--	--	--	--	--	--	141	431	297	141	431
WCMW-17I	20.0 - 25.0	--	--	--	--	--	--	--	--	38	394	271	38	394
WCMW-17I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	31	11	0	31
WCMW-18WT	2.0 - 7.0	--	--	--	--	--	--	--	--	0	0	0	0	0

Table 4-15. Summary of Historical Total PAH Groundwater Analytical Results
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Operable Unit No. 4 (OU-4)

Well ID	Screen Interval (feet bgs)	Total PAH Groundwater Concentration (µg/L)												
		Sampling Date								Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2012		2013				2014						
		Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun					
WCMW-18S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-18I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-18I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-19S	2.0 - 12.0	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-19I	20.0 - 25.0	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-19I2	30.0 - 35.0	0	--	--	0	--	--	--	3	0	0	0	0	3
WCMW-20S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	2	0	0	2
WCMW-20I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-20I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-21S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-21I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-21I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-22S	2.0 - 12.0	--	--	--	37	--	--	--	--	37	61	53	37	61
WCMW-22I	25.0 - 30.0	--	--	--	0	--	--	--	0	0	5	1	0	5
WCMW-23S	2.0 - 12.0	--	--	--	17	--	--	--	13	0	34	17	0	34
WCMW-23I	25.0 - 30.0	--	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-24S	2.0 - 12.0	--	--	--	--	--	--	--	--	158	336	231	158	336
WCMW-24I	20.0 - 25.0	--	--	--	--	--	--	--	--	10	98	49	10	98
WCMW-24I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-25I	30.0 - 35.0	0	--	--	0	--	--	--	0	0	54	6	0	54
WCMW-25D	55.0 - 60.0	0	--	--	0	--	--	--	0	0	0	0	0	0
WCMW-26S	2.0 - 12.0	290	--	217	190	406	2,081	748	335	146	2,081	441	146	2,081
WCMW-26I	20.0 - 25.0	12	--	86	111	5	60	55	10	0	111	42	0	111
WCMW-26I2	30.0 - 35.0	3	--	--	2	--	--	--	2	0	24	7	0	24
WCMW-27S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	708	304	0	708
WCMW-27I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	36	396	202	36	396
WCMW-28I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	2	0	0	2
WCMW-29S	2.0 - 12.0	1,986	--	2,123	1,615	1,746	2,172	1,756	1,952	1,092	2,391	1,869	1,092	2,391
WCMW-29I	20.0 - 25.0	24	--	--	60	--	208	87	36	5	208	49	5	208
WCMW-30S	2.0 - 12.0	18	8	7	16	--	--	--	0	7	49	19	0	49
WCMW-30I	20.0 - 25.0	654	585	373	602	663	606	295	307	169	663	493	169	663
WCMW-30I2	30.0 - 35.0	1	108	46	0	20	118	0	0	0	118	34	0	118
WCMW-31S	2.0 - 12.0	53	35	241	199	35	22	68	45	22	427	159	22	427
WCMW-31I	20.0 - 25.0	9	0	7	10	--	--	--	8	0	31	13	0	31
WCMW-31I2	30.0 - 35.0	0	0	0	0	--	--	--	0	0	69	12	0	69
WCMW-32S	2.0 - 12.0	189	4	247	269	97	25	184	167	4	304	178	4	304

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

Table 4-16. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 4 (OU-4)

		Operable Unit	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
		Sample Name	WCMW-02S	WCMW-02S	WCMW-02S	WCMW-02S	WCMW-02I	WCMW-02D	WCMW-04S	WCMW-04I	WCMW-04I	WCMW-04I	WCMW-04I	WCMW-04I2	WCMW-04I2	WCMW-04I2
		Start Depth	3	3	3	3	34.5	62	1.6	19	19	19	19	29.85	29.85	29.85
		End Depth	13	13	13	13	44.5	72	11.6	24	24	24	24	34.85	34.85	34.85
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/29/13	12/16/13	03/17/14	06/19/14	06/19/14	06/19/14	06/11/14	08/20/13	12/17/13	03/13/14	06/11/14	08/20/13	12/17/13	03/13/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**4**	**2**	**2**	**3**	1 U	1 U	1 U
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**8**	**7**	**6**	**10**	**6**	**2**	**1**
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	**12**	**9**	**8**	**13**	**6**	**2**	**1**
NYSDEC PAH17																
Acenaphthene	µg/L	20*	**23**	**31**	**25**	**10**	10 U	10 U	**5 J**	**110 D**	**140 D**	**170 D**	**130 D**	**3 J**	**6 J**	**1 J**
Acenaphthylene	µg/L	NE	**6 J**	**5 J**	**3 J**	**3 J**	10 U	10 U	10 UJ	**6 J**	**11**	**12**	**8 J**	**5 J**	**25**	**6 J**
Anthracene	µg/L	50*	**4 J**	**4 J**	**6 J**	**4 J**	10 U	10 U	10 UJ	**8 J**	**11**	**8 J**	**8 J**	10 U	**9 J**	**6 J**
Benzo(a)anthracene	µg/L	0.002*	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
Benzo(b)fluoranthene	µg/L	0.002*	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
Benzo(k)fluoranthene	µg/L	0.002*	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
Benzo(g,h,i)perylene	µg/L	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
Benzo(a)pyrene	µg/L	ND	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
Chrysene	µg/L	0.002*	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
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	**3 J**	**3 J**	**3 J**	**3 J**	10 U	10 U	10 UJ	**2 J**	**3 J**	**2 J**	**2 J**	**2 J**	**3 J**	**2 J**
Fluorene	µg/L	50*	**3 J**	**10**	**11**	**4 J**	10 U	10 U	**1 J**	**5 J**	**4 J**	**5 J**	**5 J**	**2 J**	**6 J**	**2 J**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	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
2-Methylnaphthalene	µg/L	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
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	**2 J**	**2 J**	**3 J**	**7 J**	10 U	10 U	10 U
Phenanthrene	µg/L	50*	**19**	**19**	**34**	**17**	10 U	10 U	**4 J**	**12**	**57**	**19**	**50**	10 U	**63**	**8 J**
Pyrene	µg/L	50*	**4 J**	**5 J**	**4 J**	**4 J**	10 U	10 U	10 UJ	**4 J**	**4 J**	**2 J**	**2 J**	**2 J**	**4 J**	**3 J**
Total PAH (17) (ND=0)	µg/L	NE	**62**	**77**	**86**	**45**	ND	ND	**10**	**149**	**232**	**221**	**212**	**14**	**116**	**28**
Other																
Sulfate	µg/L	250000														

Table 4-16. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 4 (OU-4)

		Operable Unit	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
		Sample Name	WCMW-04I2	WCMW-05S	WCMW-05S	WCMW-05S	WCMW-05S	WCMW-05I	WCMW-05I	WCMW-05I	WCMW-05I	WCMW-05I2	WCMW-05I2	WCMW-05I2	WCMW-05I2	WCMW-05I2	DUP-19-Q2
		Start Depth	29.85	1.15	1.15	1.15	1.15	19.61	19.61	19.61	19.61	29.46	29.46	29.46	29.46	29.46	29.46
		End Depth	34.85	11.15	11.15	11.15	11.15	24.61	24.61	24.61	24.61	34.46	34.46	34.46	34.46	34.46	34.46
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	06/11/14	08/20/13	12/13/13	03/17/14	06/09/14	08/20/13	12/13/13	03/14/14	06/09/14	08/20/13	12/13/13	03/14/14	06/09/14	06/09/14	06/09/14
Analyte	**Units**	**NYS AWQS**															
BTEX																	
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	**5**	**2**	**2**	**2**	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	**4**	**2**	**2**	**2**	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	**9**	**4**	**4**	**4**	ND	ND	ND	ND	ND	ND
NYSDEC PAH17																	
Acenaphthene	µg/L	20*	10 U	**2 J**	**27**	**56**	**20**	**27**	**33**	**30**	**41 J**	**11**	**18**	**12**	**4 J**	**4 J**	
Acenaphthylene	µg/L	NE	**2 J**	10 U	10 U	10 U	10 U	**19**	**43**	**26**	**32**	**22**	**79**	**51**	**17**	**18**	
Anthracene	µg/L	50*	**4 J**	10 U	**1 J**	**3 J**	**3 J**	**10**	**15**	**10**	**13**	**2 J**	**15**	**9 J**	**5 J**	**5 J**	
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dibenz(a,h)anthracene	µg/L	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	
Fluoranthene	µg/L	50*	**2 J**	10 U	10 U	10 U	10 U	**2 J**	**3 J**	**2 J**	**2 J**	**2 J**	**4 J**	**2 J**	**1 J**	**1 J**	
Fluorene	µg/L	50*	10 U	10 U	**6 J**	**18**	**7 J**	**19**	**25**	**15**	**23**	**15**	**47**	**14**	**5 J**	**6 J**	
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	**20**	**7 J**	**12**	10 U	10 U	10 U	10 U	10 U	
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	**23**	**6 J**	**27**	10 U	**1 J**	**1 J**	**1 J**	**1 J**	
Phenanthrene	µg/L	50*	**3 J**	10 U	**5 J**	**17**	**18**	**19**	**64**	**38**	**66**	10 U	**68**	**46**	**21**	**20**	
Pyrene	µg/L	50*	**2 J**	10 U	10 U	10 U	10 U	**4 J**	**4 J**	**3 J**	**4 J**	**3 J**	**5 J**	**3 J**	**2 J**	**2 J**	
Total PAH (17) (ND=0)	µg/L	NE	**13**	**2**	**39**	**94**	**48**	**100**	**230**	**137**	**220**	**55**	**237**	**138**	**56**	**57**	
Other																	
Sulfate	µg/L	250000		**15400**				5000 U				**16100**					

Table 4-16. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 4 (OU-4)

		Operable Unit	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
		Sample Name	WCMW-06S	WCMW-06I	WCMW-06I2	WCMW-08S	WCMW-08I	WCMW-08I2	WCMW-10S	WCMW-10S	WCMW-10D	WCMW-10D	WCMW-11S	WCMW-11S	WCMW-11S	WCMW-11S
		Start Depth	2	19.55	29.83	4.2	19.2	19.2	15	15	40	40	5	5	5	5
		End Depth	12	24.55	34.83	19.2	24.2	24.2	20	20	50	50	15	15	15	15
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	06/17/14	06/17/14	06/17/14	06/11/14	06/11/14	06/11/14	12/16/13	06/20/14	12/16/13	06/27/14	08/29/13	12/12/13	03/13/14	06/19/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**4**	**2**	**5**	**12**
Total Xylene	µg/L	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	**3**	**3**
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4**	**2**	**8**	**15**
NYSDEC PAH17																
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**7 J**	**21**	**35**	**27**
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	**1 J**	**2 J**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	**6 J**	**8 J**	**8 J**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**3 J**	**15**	**7 J**
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**15**	**39**	**180 D**	**52**
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**5 J**	**7 J**	**5 J**	**6 J**
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**32**	**77**	**244**	**102**
Other																
Sulfate	µg/L	250000											**32000**			

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		Operable Unit	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
		Sample Name	WCMW-11I	WCMW-11I	WCMW-11I	WCMW-11I	WCMW-11D	DUP-24 Q2	WCMW-12S	WCMW-12I	WCMW-12D	DUP-23	WCMW-13S	WCMW-13S	WCMW-13S	WCMW-13S
		Start Depth	25	25	25	25	50	50	3	25	67	67	3	3	3	3
		End Depth	35	35	35	35	60	60	13	30	72	72	13	13	13	13
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	08/29/13	12/12/13	03/13/14	06/19/14	06/19/14	06/19/14	06/18/14	06/18/14	06/18/14	06/18/14	09/11/13	12/13/13	03/17/14	06/19/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	**2**	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**4**	1 U
Total Xylene	µg/L	5	**5**	**6**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**5**	**1**
Total BTEX (ND=0)	µg/L	NE	**7**	**8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**9**	**1**
NYSDEC PAH17																
Acenaphthene	µg/L	20*	**66**	**95 D**	**25**	**2 J**	10 U	10 U	10 U	**4 J**	10 U	10 U	**72**	**60**	**55**	**2 J**
Acenaphthylene	µg/L	NE	**2 J**	**12**	10 U	10 U	10 U	10 U	10 U	**17**	10 U	10 U	**12**	**22**	**30**	10 U
Anthracene	µg/L	50*	**3 J**	**10**	**3 J**	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	**16**	**14**	**2 J**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**5 J**	**4 J**	**2 J**
Fluorene	µg/L	50*	**46**	**62**	**30**	**3 J**	10 U	10 U	10 U	**10**	10 U	10 U	**1 J**	**5 J**	**5 J**	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**18**	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	**190 D**	**110 D**	**4 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	**5 J**	**3 J**	**9 J**	10 U
Phenanthrene	µg/L	50*	**67**	**91 D**	**72**	**17**	10 U	10 U	**1 J**	**9 J**	10 U	10 U	**35**	**58**	**63**	**1 J**
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	**7 J**	**5 J**	**2 J**
Total PAH (17) (ND=0)	µg/L	NE	**392**	**380**	**136**	**25**	ND	ND	**1**	**40**	ND	ND	**134**	**176**	**185**	**9**
Other																
Sulfate	µg/L	250000	5000 U													

Table 4-16. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 4 (OU-4)

		Operable Unit	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
		Sample Name	WCMW-13I	WCMW-13D	WCMW-14S	WCMW-14S	WCMW-14S	WCMW-14S	WCMW-14I	WCMW-14I	DUP-11-Q4	WCMW-14I	DUP-13-Q1	WCMW-14I	WCMW-14I2	WCMW-14D
		Start Depth	25	65	2	2	2	2	20	20	20	20	20	20	30	67
		End Depth	30	70	12	12	12	12	25	25	25	25	25	25	35	72
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	06/19/14	06/19/14	08/20/13	12/13/13	03/14/14	06/17/14	08/20/13	12/13/13	12/13/13	03/14/14	03/14/14	06/17/14	06/17/14	06/17/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	**2**	ND	ND	ND	ND	ND	ND	ND
NYSDEC PAH17																
Acenaphthene	µg/L	20*	10 U	10 U	**11**	**34**	**13**	**18**	**27**	**25**	**24**	**4 J**	**3 J**	**4 J**	10 U	10 U
Acenaphthylene	µg/L	NE	10 U	10 U	**1 J**	**6 J**	**8 J**	**4 J**	**130 D**	**130 D**	**120 D**	**30**	**24**	**23**	10 U	10 U
Anthracene	µg/L	50*	10 U	10 U	10 U	**2 J**	**4 J**	**1 J**	**10**	**11**	**12**	**7 J**	**6 J**	**6 J**	10 U	10 U
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	10 U	10 U	**1 J**	**2 J**	**2 J**	**1 J**	**3 J**	**3 J**	**3 J**	**1 J**	**1 J**	**1 J**	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	**4 J**	**2 J**	**36**	**20**	**20**	**7 J**	**5 J**	**5 J**	10 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	µg/L	50*	10 U	10 U	10 U	**6 J**	**30**	**13**	**31**	**62**	**58**	**45**	**39**	**45**	10 U	10 U
Pyrene	µg/L	50*	10 U	10 U	**2 J**	**3 J**	**3 J**	**2 J**	**4 J**	**5 J**	**5 J**	**2 J**	**2 J**	**2 J**	10 U	10 U
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	**15**	**53**	**64**	**41**	**243**	**256**	**242**	**96**	**80**	**86**	ND	ND
Other																
Sulfate	µg/L	250000														

Table 4-16. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 4 (OU-4)

		Operable Unit	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
		Sample Name	WCMW-19S	WCMW-19I	WCMW-19I2	WCMW-22I	WCMW-23S	WCMW-23I	WCMW-25I	WCMW-25D	WCMW-26S	WCMW-26S	WCMW-26S	WCMW-26S	WCMW-26I	WCMW-26I
		Start Depth	2	20	30	25	2	25	30	55	2	2	2	2	20	20
		End Depth	12	25	35	30	12	30	35	60	12	12	12	12	25	25
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	06/13/14	06/13/14	06/13/14	06/19/14	06/19/14	06/19/14	06/20/14	06/20/14	08/29/13	12/12/13	03/13/14	06/19/14	08/29/13	12/12/13
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	**3**	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**44**	**140**	**44**	**20**	1 U	1 U
Total Xylene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**23**	**61**	**20**	**11**	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND	ND	ND	ND	ND	ND	ND	**68**	**205**	**64**	**31**	ND	ND
NYSDEC PAH17																
Acenaphthene	µg/L	20*	10 U	10 U	10 U	10 U	**4 J**	10 U	10 U	10 U	**65**	**120 DJ**	**130 D**	**75**	**3 J**	**23**
Acenaphthylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**7 J**	**1 J**	10 U	10 U	**15**
Anthracene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	**4 J**	**6 J**	**7 J**	10 U	**2 J**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	**2 J**	**2 J**	**2 J**	10 U	10 U
Fluorene	µg/L	50*	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	**27**	**44**	**40**	**32**	10 U	**2 J**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**21**	**150 DJ**	**94 DJ**	**19**	10 U	10 U
Naphthalene	µg/L	10*	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	**250 D**	**1700 D**	**430 D**	**150 D**	10 U	**2 J**
Phenanthrene	µg/L	50*	10 U	10 U	10 U	10 U	**4 J**	10 U	10 U	10 U	**34**	**52**	**43**	**48**	**2 J**	**15**
Pyrene	µg/L	50*	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	**2 J**	**2 J**	**2 J**	**2 J**	10 U	**1 J**
Total PAH (17) (ND=0)	µg/L	NE	ND	ND	**3**	ND	**13**	ND	ND	ND	**406**	**2081**	**748**	**335**	**5**	**60**
Other																
Sulfate	µg/L	250000														

Table 4-16. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 4 (OU-4)

		Operable Unit	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
		Sample Name	WCMW-26I	WCMW-26I	WCMW-26I2	WCMW-29S	WCMW-29S	WCMW-29S	WCMW-29S	WCMW-29I	WCMW-29I	WCMW-29I	WCMW-30S	WCMW-30I	WCMW-30I	WCMW-30I
		Start Depth	20	20	30	2	2	2	2	20	20	20	2	20	20	20
		End Depth	25	25	35	12	12	12	12	25	25	25	12	25	25	25
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	03/13/14	06/19/14	06/19/14	08/29/13	12/12/13	03/13/14	06/19/14	12/12/13	03/13/14	06/19/14	06/13/14	08/20/13	12/16/13	03/13/14
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	**2**	**2**	**1**	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	**1**	1 U	1 U	**16**	**13**	**56**	**40**	1 U	1 U	1 U	1 U	**7**	**5**	**7**
Total Xylene	µg/L	5	1 U	1 U	1 U	**4**	**4**	**20**	**16**	1 U	1 U	1 U	1 U	**11**	**8**	**10**
Total BTEX (ND=0)	µg/L	NE	**1**	ND	ND	**22**	**19**	**77**	**58**	ND	ND	ND	ND	**18**	**13**	**17**
NYSDEC PAH17																
Acenaphthene	µg/L	20*	**17**	**2 J**	10 U	**53 DJ**	**51**	**54**	**42**	**52**	**18**	**10**	10 U	**220 D**	**200 D**	**130 D**
Acenaphthylene	µg/L	NE	**2 J**	10 U	10 U	100 U	**3 J**	**1 J**	10 U	**18**	**13**	**2 J**	10 U	**12**	**11**	**8 J**
Anthracene	µg/L	50*	**3 J**	10 U	10 U	100 U	**2 J**	**2 J**	**2 J**	**8 J**	**7 J**	**4 J**	10 U	**14**	**14**	**8 J**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	µg/L	50*	10 U	10 U	10 U	100 U	10 U	10 U	10 U	**2 J**	**2 J**	10 U	10 U	**3 J**	**3 J**	**2 J**
Fluorene	µg/L	50*	**8 J**	**1 J**	10 U	**42 DJ**	**36**	**34**	**32**	**10**	**3 J**	**4 J**	10 U	**67**	**56**	**40**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**2 J**	10 U	10 U	**320 D**	**160 DJ**	**240 DJ**	**250 DJ**	**9 J**	10 U	10 U	10 U	**3 J**	**7 J**	10 U
Naphthalene	µg/L	10*	**19**	**4 J**	**2 J**	**1300 D**	**1900 D**	**1400 D**	**1600 D**	**50**	**6 J**	**3 J**	10 U	**250 D**	**240 D**	**61**
Phenanthrene	µg/L	50*	**4 J**	**3 J**	10 U	**31 DJ**	**20**	**25**	**26**	**56**	**35**	**12**	10 U	**90 D**	**71**	**44**
Pyrene	µg/L	50*	10 U	10 U	10 U	100 U	10 U	10 U	10 U	**3 J**	**3 J**	**1 J**	10 U	**4 J**	**4 J**	**2 J**
Total PAH (17) (ND=0)	µg/L	NE	**55**	**10**	**2**	**1746**	**2172**	**1756**	**1952**	**208**	**87**	**36**	ND	**663**	**606**	**295**
Other																
Sulfate	µg/L	250000												5000 U		

Table 4-16. Summary of Expanded Groundwater Analytical Results
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Operable Unit No. 4 (OU-4)

		Operable Unit	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
		Sample Name	WCMW-30I	WCMW-30I2	WCMW-30I2	WCMW-30I2	WCMW-30I2	WCMW-31S	WCMW-31S	WCMW-31S	WCMW-31S	WCMW-31I	WCMW-31I2	WCMW-32S	DUP-13 Q3	WCMW-32S
		Start Depth	20	30	30	30	30	2	2	2	2	20	30	2	2	2
		End Depth	25	35	35	35	35	12	12	12	12	25	35	12	12	12
		Depth Unit	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
		Sample Date	06/13/14	08/20/13	12/16/13	03/13/14	06/13/14	08/22/13	12/16/13	03/18/14	06/12/14	06/12/14	06/12/14	08/23/13	8/23/2013	12/10/13
Analyte	**Units**	**NYS AWQS**														
BTEX																
Benzene	µg/L	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	µg/L	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	µg/L	5	**4**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total Xylene	µg/L	5	**6**	1 U	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 BTEX (ND=0)	µg/L	NE	**10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NYSDEC PAH17																
Acenaphthene	µg/L	20*	**98 D**	**9 J**	**6 J**	10 U	10 U	**9 J**	**8 J**	**17**	**14**	10 U	10 U	**28**	**31**	**6 J**
Acenaphthylene	µg/L	NE	**6 J**	**6 J**	**28**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	**4 J**	10 U
Anthracene	µg/L	50*	**8 J**	10 U	**5 J**	10 U	10 U	**3 J**	**2 J**	**4 J**	**4 J**	10 U	10 U	**9 J**	**13**	**4 J**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibenz(a,h)anthracene	µg/L	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
Fluoranthene	µg/L	50*	**2 J**	10 U	**2 J**	10 U	10 U	**3 J**	**2 J**	**2 J**	**2 J**	**4 J**	10 U	**7 J**	**7 J**	**3 J**
Fluorene	µg/L	50*	**39**	10 U	**7 J**	10 U	10 U	**3 J**	**3 J**	**5 J**	**6 J**	10 U	10 U	**5 J**	**5 J**	10 U
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	µg/L	NE	**5 J**	10 U	**16**	10 U	10 U	**9 J**	10 U	**22**	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	µg/L	10*	**85 D**	**5 J**	**4 J**	10 U	10 U	10 U	10 U	**4 J**	**2 J**	10 U	10 U	**1 J**	**1 J**	10 U
Phenanthrene	µg/L	50*	**62**	10 U	**48**	10 U	10 U	**4 J**	**5 J**	**12**	**15**	10 U	10 U	**36**	**42**	**8 J**
Pyrene	µg/L	50*	**2 J**	10 U	**2 J**	10 U	10 U	**4 J**	**2 J**	**2 J**	**2 J**	**4 J**	10 U	**7 J**	**8 J**	**4 J**
Total PAH (17) (ND=0)	µg/L	NE	**307**	**20**	**118**	ND	ND	**35**	**22**	**68**	**45**	**8**	ND	**97**	**111**	**25**
Other																
Sulfate	µg/L	250000		**18700**												

Table 4-16. Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 4 (OU-4)

		Operable Unit	OU4	OU4
		Sample Name	WCMW-32S	WCMW-32S
		Start Depth	2	2
		End Depth	12	12
		Depth Unit	ft	ft
		Sample Date	03/17/14	06/12/14
Analyte	**Units**	**NYS AWQS**		
BTEX				
Benzene	µg/L	1	1 U	1 U
Toluene	µg/L	5	1 U	1 U
Ethylbenzene	µg/L	5	1 U	1 U
Total Xylene	µg/L	5	1 U	1 U
Total BTEX (ND=0)	µg/L	NE	ND	ND
NYSDEC PAH17				
Acenaphthene	µg/L	20*	**53**	**44**
Acenaphthylene	µg/L	NE	**10**	**8 J**
Anthracene	µg/L	50*	**13**	**10**
Benzo(a)anthracene	µg/L	0.002*	10 U	10 U
Benzo(b)fluoranthene	µg/L	0.002*	10 U	10 U
Benzo(k)fluoranthene	µg/L	0.002*	10 U	10 U
Benzo(g,h,i)perylene	µg/L	NE	10 U	10 U
Benzo(a)pyrene	µg/L	ND	10 U	10 U
Chrysene	µg/L	0.002*	10 U	10 U
Dibenz(a,h)anthracene	µg/L	NE	10 U	10 U
Fluoranthene	µg/L	50*	**6 J**	**4 J**
Fluorene	µg/L	50*	**17**	**15**
Indeno(1,2,3-cd)pyrene	µg/L	0.002*	10 U	10 U
2-Methylnaphthalene	µg/L	NE	10 U	10 U
Naphthalene	µg/L	10*	**10**	**11**
Phenanthrene	µg/L	50*	**68**	**70**
Pyrene	µg/L	50*	**7 J**	**5 J**
Total PAH (17) (ND=0)	µg/L	NE	**184**	**167**
Other				
Sulfate	µg/L	250000		

Groundwater Table Notes
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Notes:

µg/L - micrograms per liter or parts per billion (ppb)
BTEX - benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs)
PAHs - polycyclic aromatic hydrocarbons
Total BTEX and Total PAHs are calculated using detects only
Level 2 - Reduced validation performed on 80% of samples
Level 4 - Full validation performed on 20% of samples

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

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

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

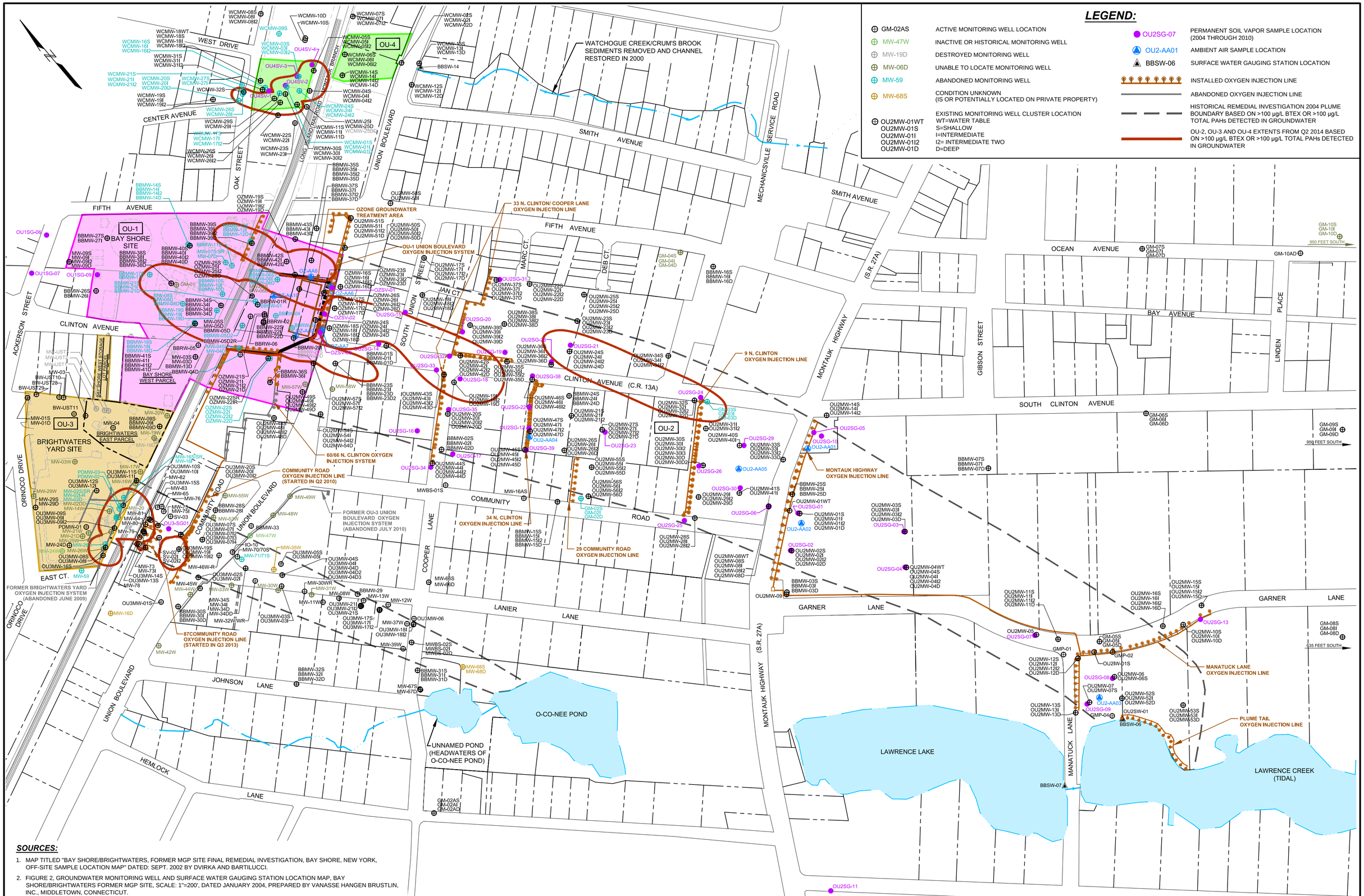
Some wells were sampled more than once during the quarter. Total BTEX and Total PAH concentrations reported represent the sample collected closest to the end of the quarter or most recent sample which were analyzed for both BTEX and PAHs.

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

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

Data qualifiers:
B - analyte detected in the associated method blank
D - results for dilution
E - Value above quantitation range
J - estimated value
N- analyte is presumptively present
R = rejected
U - not detected to the reporting limit
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Figures



SOURCES:

1. MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
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3. DRAWING C-1, OFF-SITE SAMPLE LOCATION MAP, BAY SHORE/BRIGHTWATERS FINAL REMEDIAL INVESTIGATION, SCALE: 1"=200', DATED OCTOBER 15, 2003, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
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NOTES:

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

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FORMER MGP SITE
BAY SHORE, NEW YORK

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HUNTINGTON STATION, NY 11746

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

October 2014 Figure 1

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2014\Figures\Bay Shore-Wells Figure 1 Q2-14.DWG

LEGEND:

INSTALLED OXYGEN INJECTION LINE

ABANDONED OXYGEN INJECTION LINE

OU-4 CESSPOOL EXCAVATION IRM (COMPLETED NOVEMBER 2005)

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

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

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

OU-4 UPGRADIENT INVESTIGATION (COMPLETED SEPTEMBER 2009)

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

WATCHOGUE CREEK/ CRUM'S BROOK

SEDIMENTS REMOVED AND CHANNEL RESTORED IN 2000

OU-4

OU-4 GROUNDWATER MONITORING (ONGOING)

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

PERSULFATE PILOT STUDY (COMPLETED 2004)

FENTON'S PILOT STUDY (COMPLETED 2004)

SISCO PILOT STUDY (2006)

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

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

SUBSURFACE CONTAINMENT BARRIER (COMPLETED MAY 2008)

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

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

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

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

OU-1 OZONE INJECTION SYSTEM (COMPLETED OCTOBER 2009)

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

OU-1 BAY SHORE SITE

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

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

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

DNAPL RECOVERY SYSTEM (COMPLETED 2006)

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

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

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

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

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

BAY SHORE WEST PARCEL

BAY SHORE WEST STORAGE LOT PARCEL

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

OU-3

BRIGHTWATERS YARD SITE

BRIGHTWATERS EAST PARCEL

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

MONTAUK HIGHWAY OXYGEN INJECTION LINE (COMPLETED Q4 2005)

OU-2

2001 AND 2004 ISOTEC INJECTION AREA

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

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

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

OU-2 29 COMMUNITY ROAD OXYGEN INJECTION LINE (COMPLETED - JUNE 2011)

87 COMMUNITY ROAD OXYGEN INJECTION SYSTEM (COMPLETED SEPTEMBER 2013)

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

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

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

MANATUCK LANE OXYGEN INJECTION LINE (COMPLETED Q4 2005)

SUPPLEMENTAL IRM EXCAVATION AREAS (COMPLETED 2004)

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

SUPPLEMENTAL ORC IRM (COMPLETED AUGUST 2013)

LAINER LANE ORC IRM (COMPLETED MARCH 2013)

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

PLUME TAIL HYDROLOGIC INVESTIGATION (COMPLETED SEPTEMBER 2009)

PLUME TAIL OXYGEN INJECTION SYSTEM INSTALLATION AND STARTUP (COMPLETED AUGUST 2009)

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

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

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

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

N. PARK AVE.

WEST DR.

MONTAUK BRANCH

UNION BOULEVARD

SMITH AVENUE

MECHANICSVILLE SERVICE RD.

CENTER AVENUE

OAK ST.

FIFTH AVENUE

LONG ISLAND RAILROAD

ACKERSON STREET

CLINTON AVENUE

UNION ST.

MARC CT.

DEB CT.

JAN CT.

CLINTON AVE. (C.R. 13A)

SMITH AVENUE

(S.R. 27A)

MONTAUK HWY.

WATCHOGUE CREEK (TIDAL)

OCEAN AVENUE

BAY AVENUE

GIBSON ST.

LINDEN PL.

SOUTH CLINTON AVENUE

HIAWATHA DR.

ORINOCO DR.

EAST CT.

COMMUNITY ROAD

UNION BOULEVARD

COMMUNITY ROAD

COOPER LANE

LANIER LANE

JOHNSON LANE

HEMLOCK LANE

GARNER LANE

MANATUCK LANE

O-CO-NEE POND

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

LAWRENCE LAKE

LAWRENCE CREEK (TIDAL)

0 200 400

SCALE, FEET

SOURCES:

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

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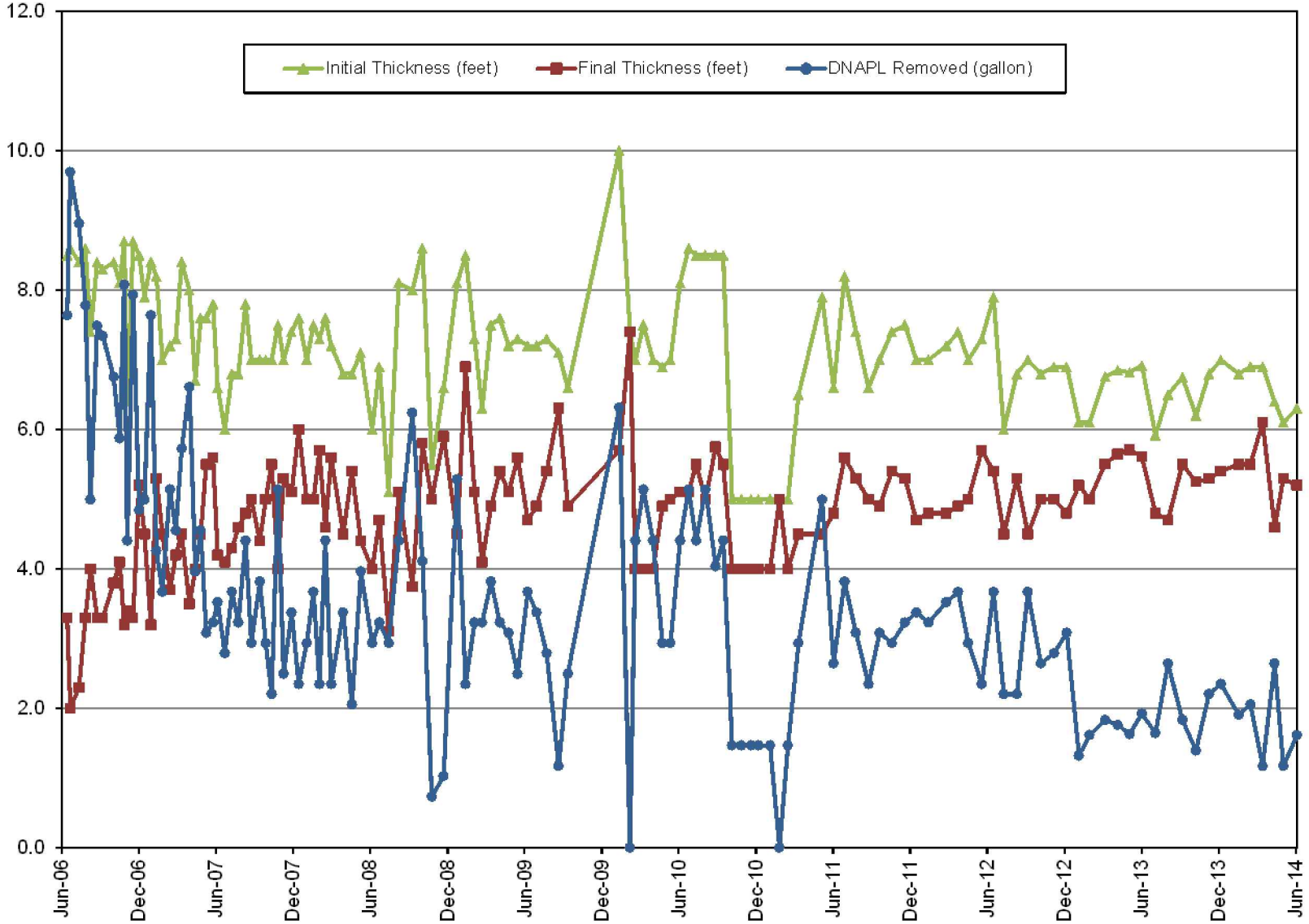
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HUNTINGTON STATION, NY 11746

HISTORICAL SITEWIDE PROGRESS MAP

September 2014 Figure 2

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2014\Figures\Bay Shore-Sitewide Progress Q2-14.dwg



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

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

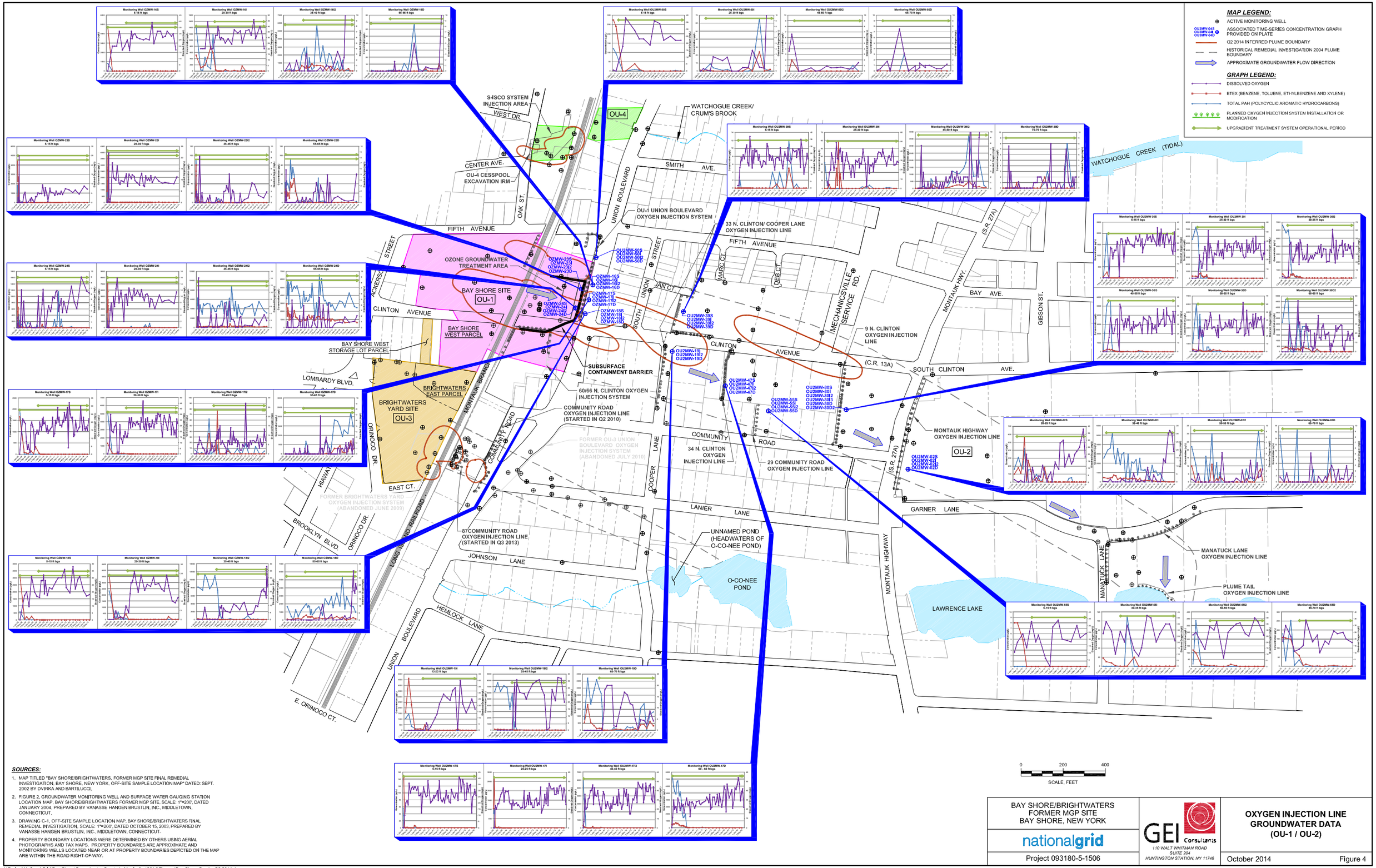
nationalgrid

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DNAPL RECOVERY DATA
BBRW-02

Project 093180-5-1506 | September 2014 | Figure 3

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2014\Figures\Bay Shore-DNAPL Recovery Well Graph-Q2-14.dwg



SOURCES:

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

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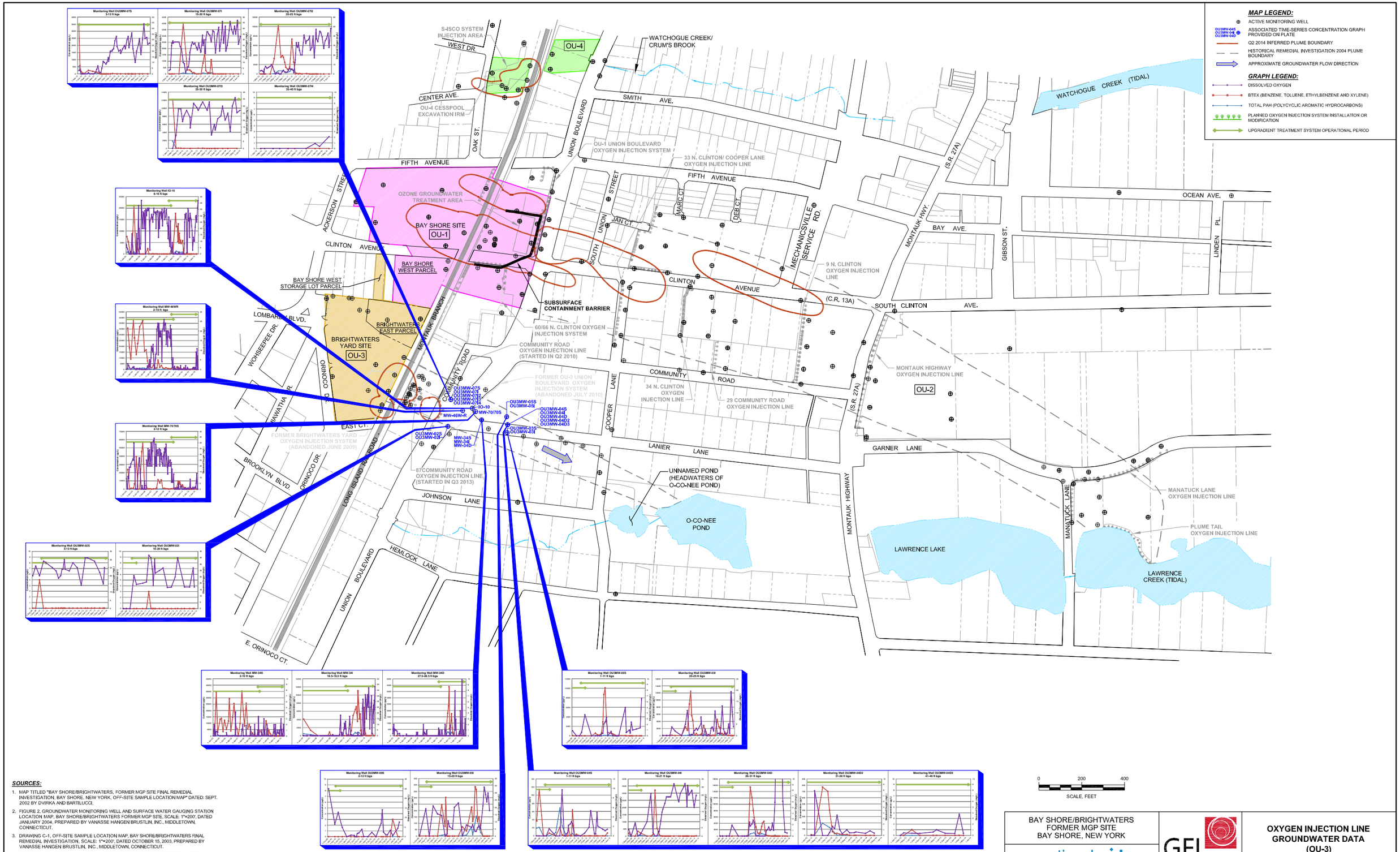
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OXYGEN INJECTION LINE GROUNDWATER DATA (OU-1 / OU-2)

October 2014 — Figure 4

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2014\Figures\Bay Shore-Graphs Q2 2014.dwg



SOURCES:

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

nationalgrid

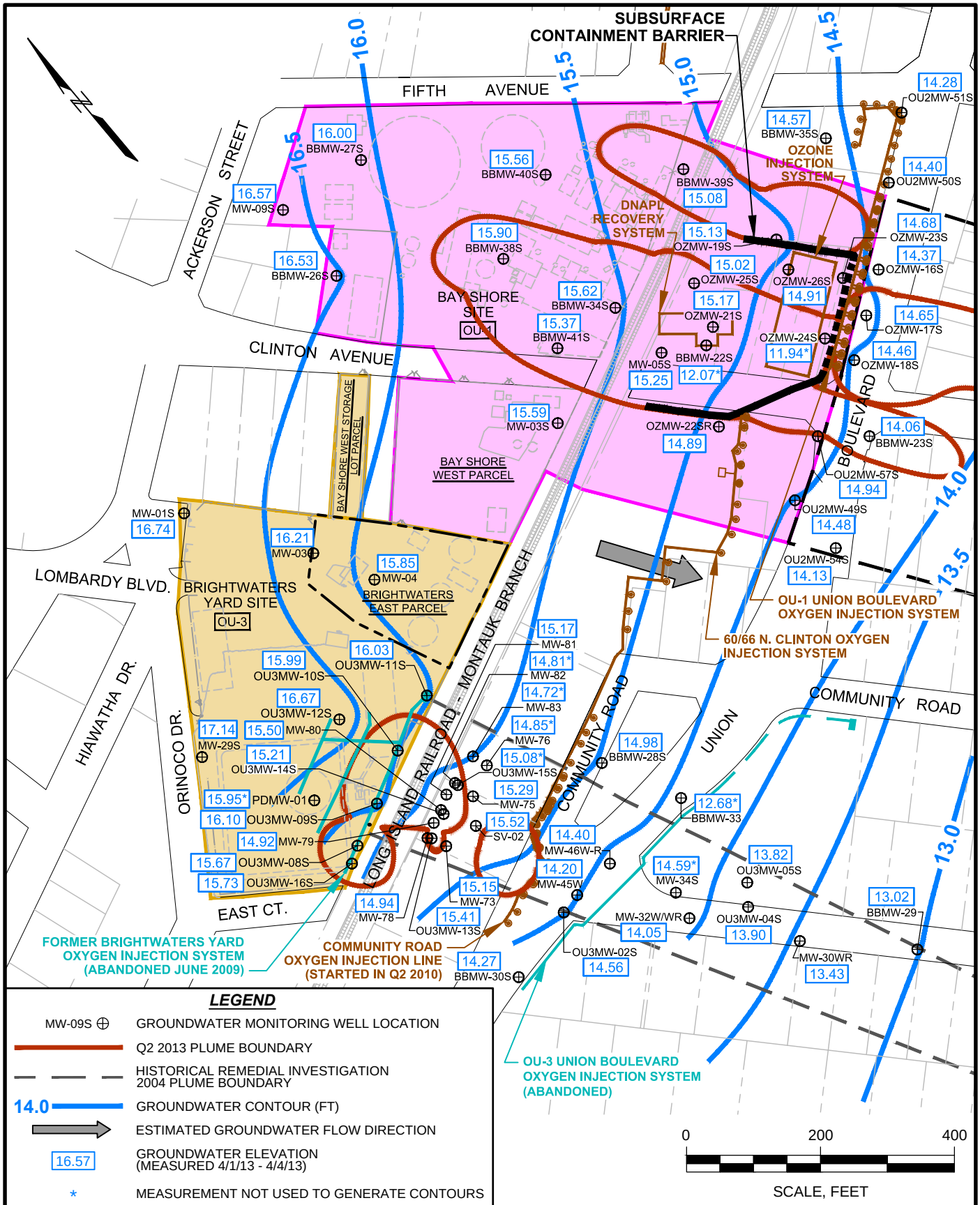
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OXYGEN INJECTION LINE GROUNDWATER DATA (OU-3)

October 2014 Figure 5

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2014\Figures\Bay Shore-Graphs Q2 2014.dwg



BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

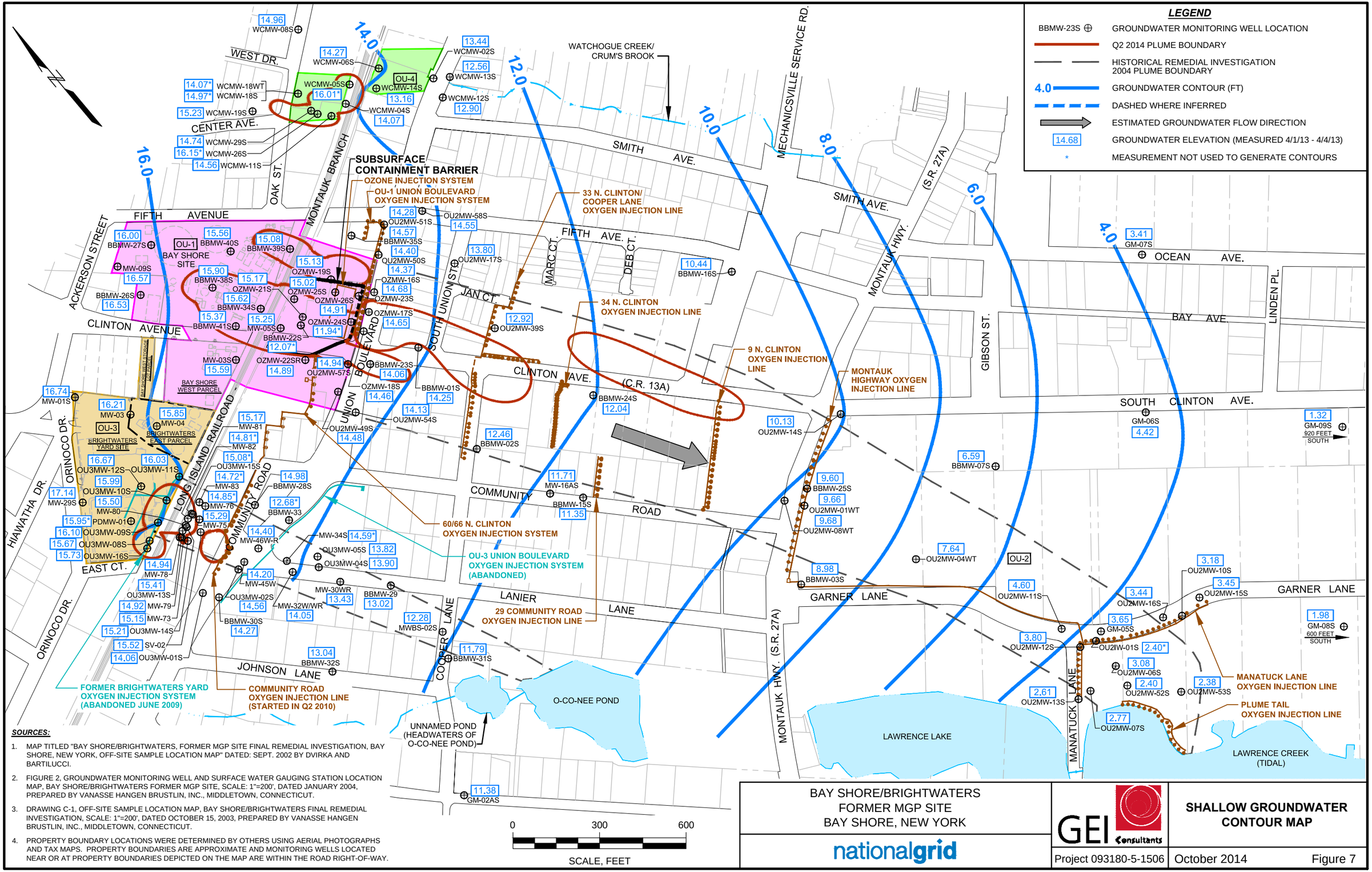
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ON-SITE SHALLOW GROUNDWATER CONTOUR MAP

Project 093180-5-1506 | October 2014 | Figure 6

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2014\Figures\Bay Shore-Onsite-SGWC-Q2-14.dwg



SOURCES:

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

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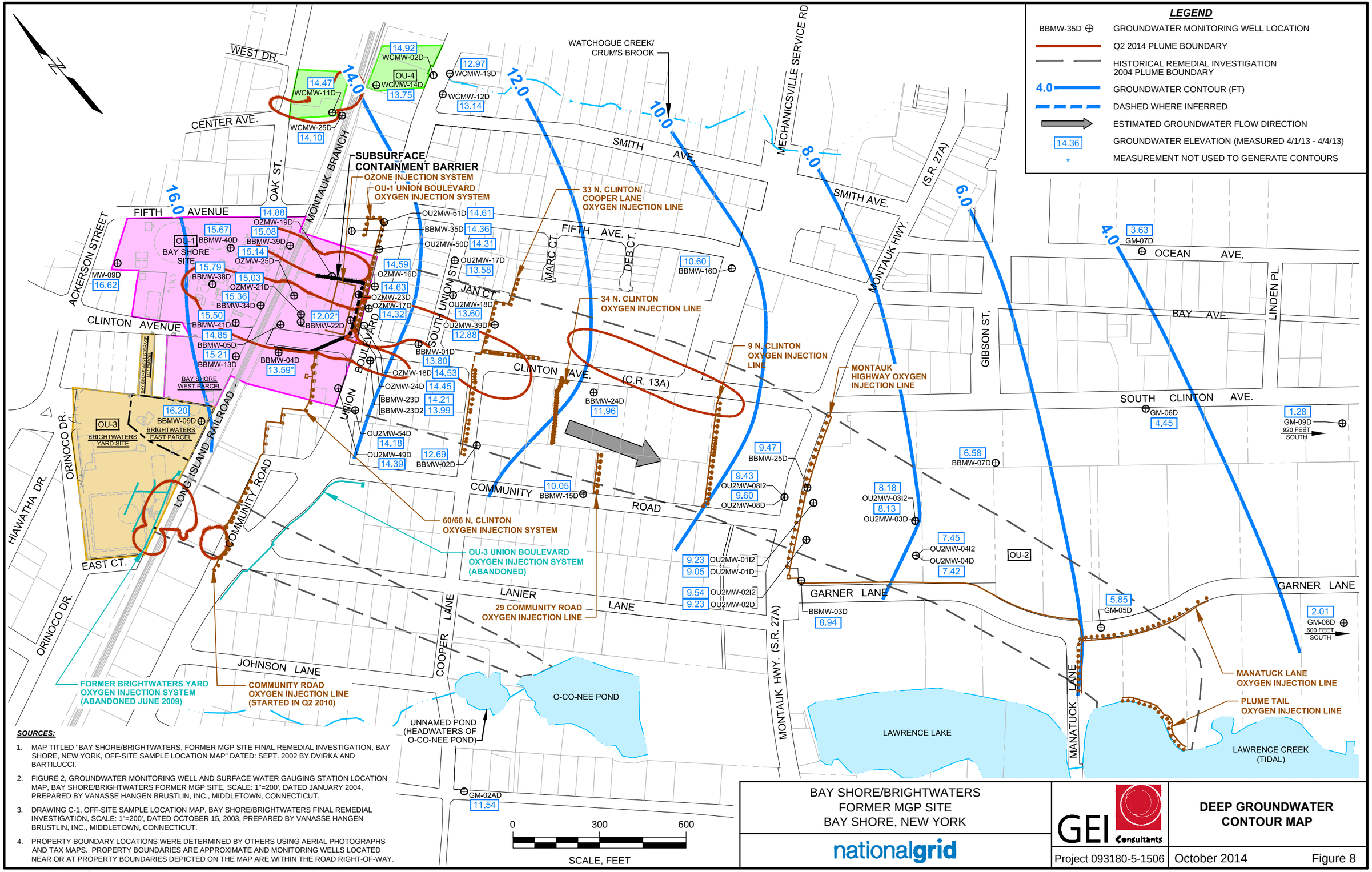
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Project 093180-5-1506

SHALLOW GROUNDWATER CONTOUR MAP

October 2014 Figure 7

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2014\Figures\Bay Shore-S-D_GWC-Q2-14.dwg



SOURCES:

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

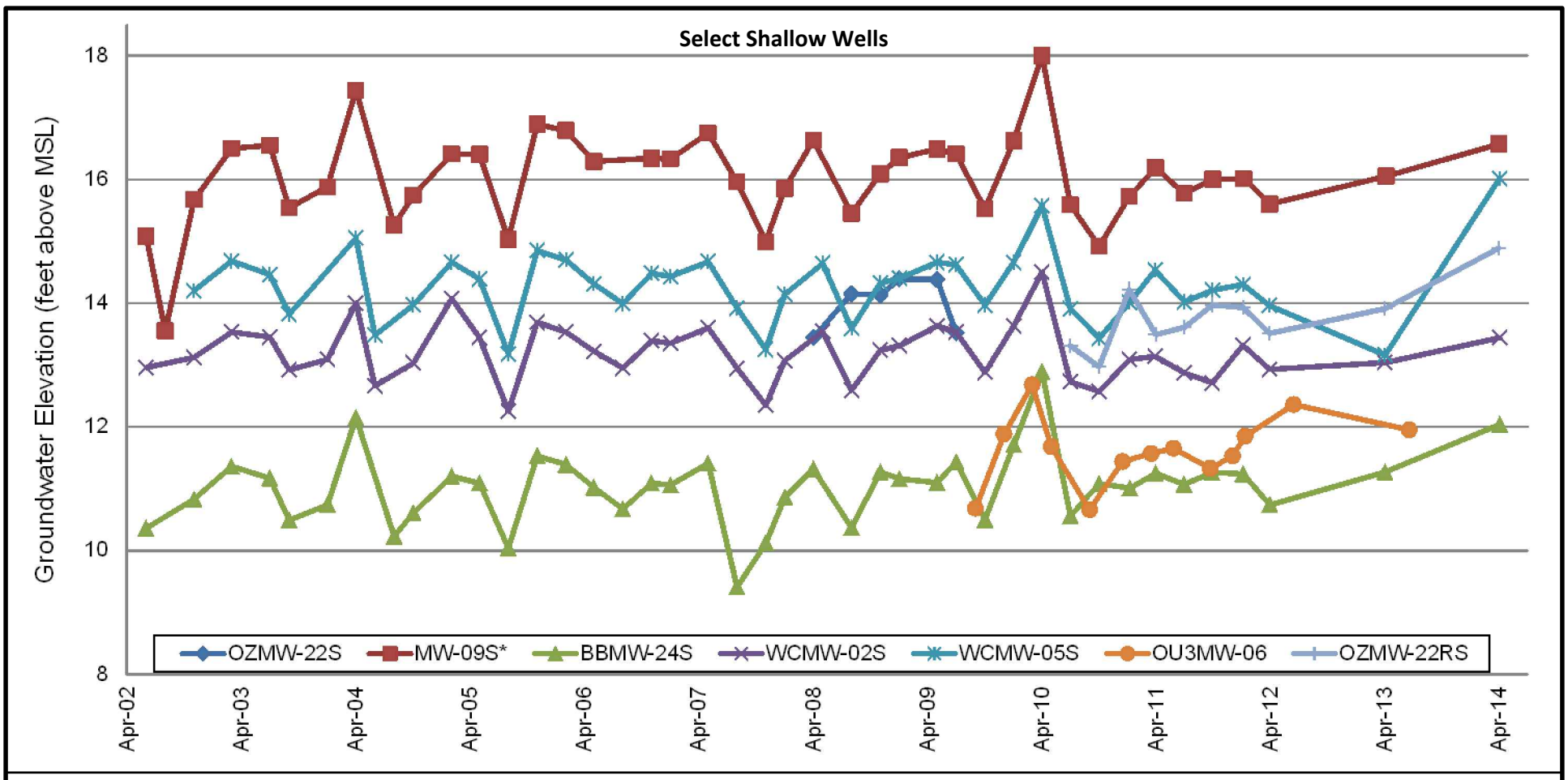
nationalgrid

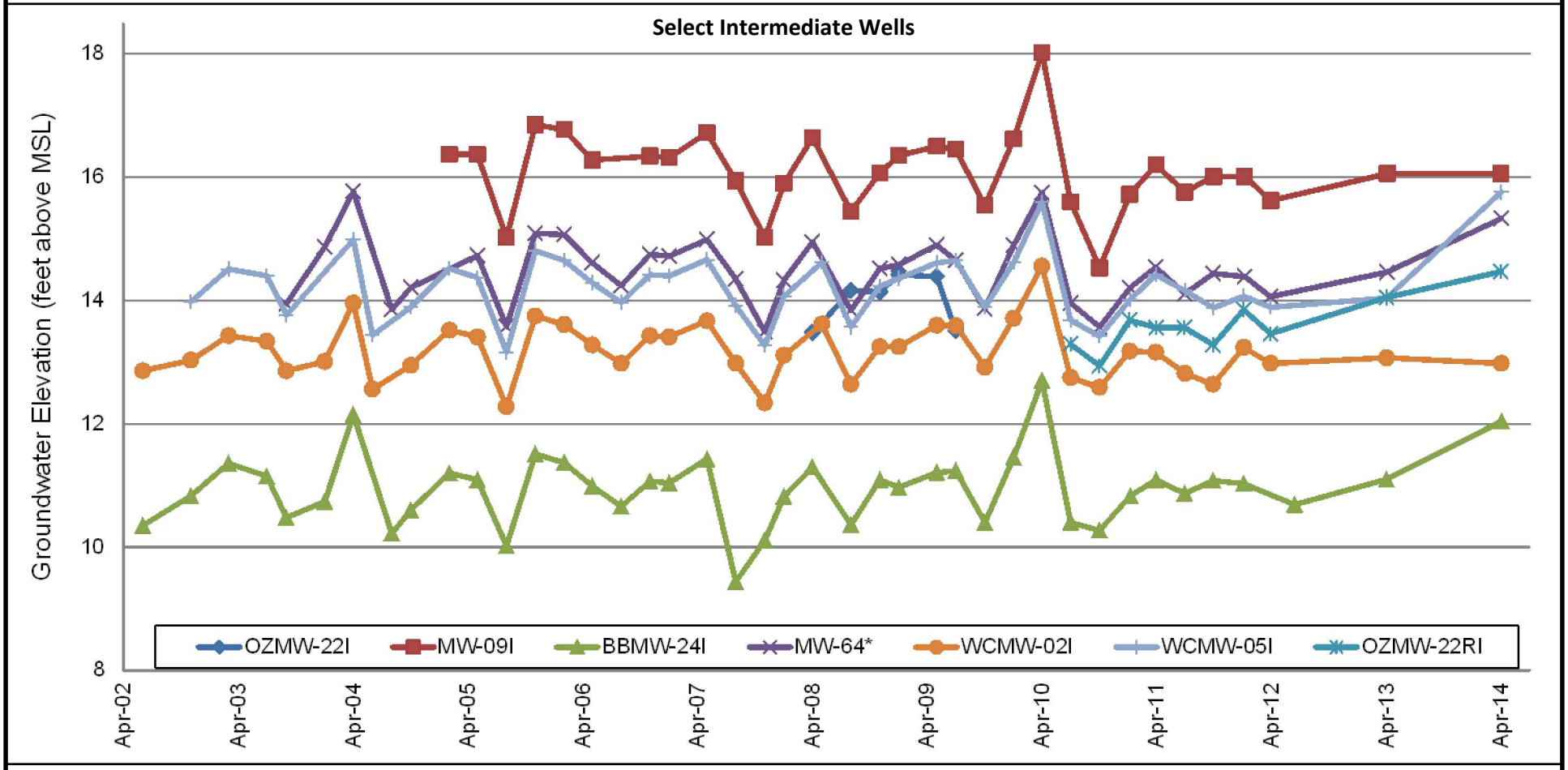
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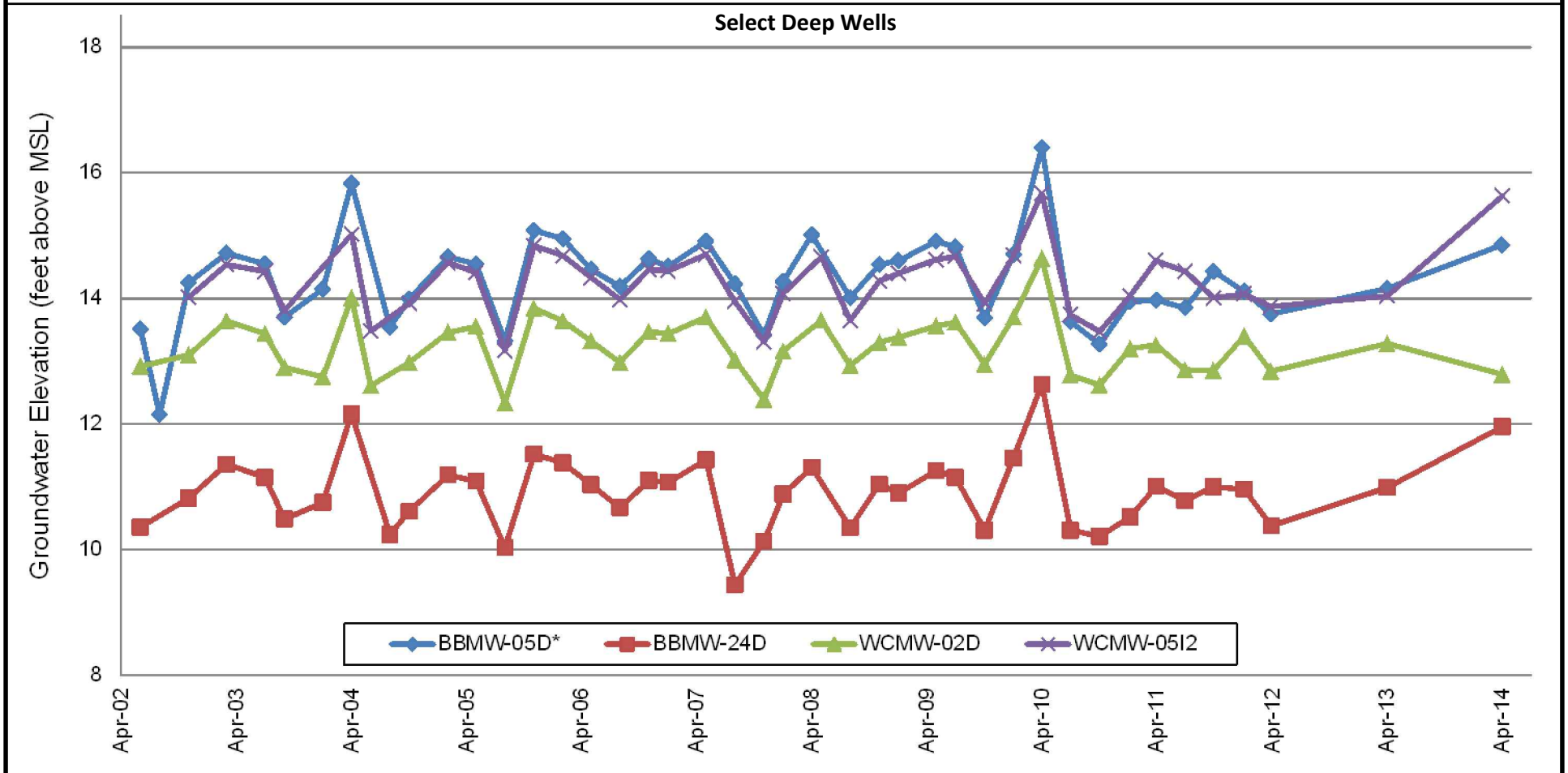
DEEP GROUNDWATER CONTOUR MAP

Project 093180-5-1506 | October 2014 | Figure 8

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2014\Figures\Bay Shore-S-D_GWC-Q2-14.dwg







NOTES:

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

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

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HYDROGRAPHS OF SELECT WELLS

Project 093180-5-1506 | October 2014 | Figure 9

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2014\Figures\Bay Shore-Hydrographs Q2-14.dwg

Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01S	5-15	284
BBMW-02S	5-15	ND
BBMW-03S	3-13	ND
BBMW-07S	5-15	ND
BBMW-15S	5-15	ND
BBMW-16S	5-15	ND
BBMW-22S	5-10	10,730
BBMW-23S	5-15	11,860
BBMW-24S	4-14	ND
BBMW-25S	4-14	ND
GM-05S	5.1-20.1	8
MW-03S	3-13	34
MW-05S	4-14	9,600
OU2IW-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-38S	5-15	23
OU2MW-39S	5-15	ND
OU2MW-40S	5-15	ND
OU2MW-41S	5-15	8
OU2MW-45S	5-15	60
OU2MW-46S	5-15	422
OU2MW-47S	5-15	146
OZMW-16S	5-15	ND
OZMW-17S	5-15	141
OZMW-18S	5-15	244
OZMW-22S	5-15	11,947

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	BTEX (µg/L)
OU-3		
BBMW-09S	5-15	ND
BBMW-28S	2-12	ND
BBMW-29	2-9	ND
BBMW-30S	2-10	ND
BBMW-31S	2-10	2
BBMW-32S	2-10	ND
BBMW-33	7-12	ND
BW-UST-10	4.65-9.95	ND
BW-UST-11	4.4-9.4	ND
BW-UST-28	5-10	ND
BW-UST-29	5-10	ND
IO-10	6-16	ND
MW-02SR	2-12	812
MW-03	4.94-14.94	6
MW-04	5.1-15.1	ND
MW-09S	4-14	ND
MW-11W	2-10	ND
MW-12W	2-12	2
MW-16SR	2-12	3,275
MW-29S	2-10	ND
MW-30WR	2-10	ND
MW-32WR	2-9	232
MW-34S	2-10	3,636
MW-45W	2-10	4,210
MW-46WR	2-10	525
MW-66S	1.5-11.5	ND
MW-70/70S	2-12	1,124
MW-73	2-12	7,100
MW-75	2-12	569
MW-76	2-12	ND
MW-78	5-20	2,590
MW-79	5-20	10,100
MW-80	5-20	55,200
MW-81	5-20	257
MW-82	5-20	6,151
MW-83	5-20	ND
MW-BS-02S	5-15	98
PDMW-01	5-20	ND
PDMW-02	5-20	59,210
PDMW-03	5-15	14,511
SV-02	2-12	26
SV-03	2-12	29
OU-4		
WCMW-01S	2-12	3
WCMW-02S	3-13	ND
WCMW-03S	4.93-9.83	33
WCMW-04S	1.6-11.6	21
WCMW-05S	1.4-11.4	ND
WCMW-06S	2-12	ND
WCMW-09S	5-15	ND
WCMW-12S	3-13	ND
WCMW-13S	3-13	ND
WCMW-14S	2-12	ND
WCMW-16S	2-12	ND

Q2 2014

Q2 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01S	5 - 15	ND
BBMW-02S	5 - 15	ND
BBMW-03S	3 - 13	ND
BBMW-07S	5 - 15	ND
BBMW-15S	5 - 15	ND
BBMW-16S	5 - 15	ND
BBMW-22S	5 - 10	7,430
BBMW-23S	5 - 15	1,866
BBMW-24S	4 - 14	ND
BBMW-25S	4 - 14	ND
BBMW-27S	5 - 15	ND
BBMW-34S	5 - 15	90
BBMW-35S	5 - 15	ND
BBMW-36S	5 - 15	ND
BBMW-37S	5 - 15	4
BBMW-38S	5 - 15	451
BBMW-39S	5 - 15	580
BBMW-40S	5 - 15	ND
BBMW-41S	6 - 16	7,622
BBMW-42S	5 - 15	63
BBMW-43S	5 - 10	ND
GM-05S	5.1 - 20.1	ND
GM-08S	6.35 - 21.35	ND
MW-05S	4 - 14	3,400
MW-09S	4 - 14	ND
OU1PZ-101	4 - 14	3,675
OU1PZ-102	4 - 14	25
OU1PZ-103	4 - 14	367
OU1PZ-104	4 - 14	14
OU1PZ-105	4 - 14	1,250
OU2IW-01S	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	ND
OU2MW-22S	5 - 15	ND
OU2MW-23S	5 - 15	ND
OU2MW-24S	5 - 15	ND

Q2 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
OU2MW-25S	5 - 15	ND
OU2MW-26S	6 - 11	ND
OU2MW-27S	5 - 15	ND
OU2MW-28S	5 - 15	ND
OU2MW-30S	5 - 15	ND
OU2MW-32S	5 - 15	ND
OU2MW-33S	5 - 15	ND
OU2MW-34S	5 - 15	ND
OU2MW-35S	5 - 15	ND
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	ND
OU2MW-42S	5 - 15	ND
OU2MW-43S	5 - 15	ND
OU2MW-44S	5 - 15	ND
OU2MW-45S	5 - 15	ND
OU2MW-46S	5 - 15	ND
OU2MW-47S	5 - 15	ND
OU2MW-48S	3 - 13	1
OU2MW-49S	3.0 - 13.0	ND
OU2MW-50S	5 - 15	ND
OU2MW-51S	5 - 15	ND
OU2MW-52S	3 - 8	ND
OU2MW-53S	3 - 8	ND
OU2MW-54S	5 - 15	ND
OU2MW-55S	5 - 15	ND
OU2MW-56S	5 - 15	ND
OU2MW-57S	5 - 15	18
OU2MW-58S	5 - 15	ND
OZMW-16S	5 - 15	ND
OZMW-17S	5 - 15	ND
OZMW-18S	5 - 15	ND
OZMW-19S	5 - 15	43
OZMW-21S	5 - 15	5,022*
OZMW-22S/22SR	5 - 15	25
OZMW-23S	5 - 15	ND
OZMW-24S	5 - 15	ND
OZMW-25S	5 - 15	1,047
OZMW-26S	5 - 15	ND
OU-3		
BBMW-28S	2 - 12	ND
BBMW-29	2 - 9	ND
BBMW-30S	2 - 10	ND
BBMW-31S	2 - 10	ND
BBMW-32S	2 - 10	ND
BBMW-33	7 - 12	ND
IO-10	6 - 16	ND
MW-11W	2 - 10	ND
MW-12W	2 - 10	ND
MW-13W	2 - 10	ND
MW-30W/W-R	2 - 9	ND
MW-32WR	2 - 9	ND
MW-34S	2 - 10	ND
MW-37W	2 - 10	ND

Q2 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-3		
MW-39W	2 - 10	ND
MW-45W	2 - 10	ND
MW-46WR	2 - 10	ND
MW-66S	1.5 - 11.5	ND
MW-67S	2.5 - 12.5	ND
MW-68S	15 - 20	ND
MW-70/70S	2 - 12	ND
MW-73	2 - 12	ND
MW-75	2 - 12	ND
MW-76	2 - 12	ND
MW-78	5 - 20	ND
MW-79	5 - 20	ND
MW-80	5 - 20	44
MW-81	5 - 20	ND
MW-82	5 - 20	ND
MW-83	5 - 20	25
MWBS-02S	5 - 15	ND
OU3MW-01S	3 - 13	ND
OU3MW-02S	3 - 13	ND
OU3MW-03S	1 - 11	ND
OU3MW-04S	1 - 11	7
OU3MW-05S	2 - 12	ND
OU3MW-06	3 - 13	ND
OU3MW-07S	3 - 13	ND
OU3MW-08S	2 - 12	1,003
OU3MW-09S	2 - 12	ND
OU3MW-10S	2 - 12	1
0U3MW-11S	2 - 12	1
OU3MW-12S	2 - 12	ND
OU3MW-13S	2 - 12	810
OU3MW-14S	2 - 12	ND
OU3MW-15S	2 - 12	ND
OU3MW-16S	2 - 12	180
OU3MW-17S	2 - 12	ND
OU2MW-19S	2 - 12	1,990**
OU2MW-20S	2 - 12	ND
OU2MW-21S	2 - 12	ND
PDMW-01	5 - 20	ND
SV-02	2 - 12	ND
SV-03	2 - 12	ND
OU-4		
WCMW-02S	3 - 13	ND
WCMW-04S	1.6 - 11.6	ND
WCMW-05S	1.4 - 11.4	ND
WCMW-06S	2 - 12	ND
WCMW-08S	4.2 - 9.2	ND
WCMW-11S	5 - 15	15
WCMW-12S	3 - 13	ND
WCMW-13S	3 - 13	1
WCMW-14S	2 - 12	ND
WCMW-19S	2 - 12	ND
WCMW-23S	2 - 12	ND
WCMW-26S	2 - 12	31
WCMW-29S	2 - 12	58
WCMW-30S	2 - 12	ND
WCMW-31S	2 - 12	ND
WCMW-32S	2 - 12	ND

NOTE:

* INDICATES WELL NOT SAMPLED IN Q2 2014 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.

** RESULT FROM JULY 2014.

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕OZMW-21S — WELL NOT SAMPLED IN Q2 2014 DUE TO MEASURABLE LEVELS OF DNAPL
- µg/L — MICROGRAMS PER LITER
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- BTEX ≧5,000 µg/L
- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE

NOTE:

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

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

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Project 093180-5-1506

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

October 2014 Figure 10

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Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01S	5-15	359
BBMW-02S	5-15	ND
BBMW-03S	3-13	ND
BBMW-07S	5-15	ND
BBMW-15S	5-15	ND
BBMW-16S	5-15	ND
BBMW-22S	5-10	1,664
BBMW-23S	5-15	1,673
BBMW-24S	4-14	ND
BBMW-25S	4-14	ND
MW-03S	3-13	ND
GM-05S	5.1-20.1	5
MW-05S	4-14	1,052
MW-09S	4-14	ND
OU2IW-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	341
OU2MW-22S	5-15	ND
OU2MW-23S	5-15	ND
OU2MW-24S	5-15	ND
OU2MW-25S	5-15	ND
OU2MW-26S	6-11	ND
OU2MW-28S	5-15	ND
OU2MW-30S	5-15	10
OU2MW-32S	5-15	63
OU2MW-33S	5-15	ND
OU2MW-34S	5-15	ND
OU2MW-35S	5-15	ND
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	ND
OU2MW-45S	5-15	9
OU2MW-46S	5-15	31
OU2MW-47S	5-15	ND
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-22S	5-15	1,850

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-3		
BBMW-09S	5-15	ND
BBMW-28S	2-12	ND
BBMW-29	2-9	ND
BBMW-30S	2-10	ND
BBMW-31S	2-10	ND
BBMW-32S	2-10	ND
BBMW-33	7-12	ND
BW-UST-10	4.65-9.95	ND
BW-UST-11	4.4-9.4	ND
BW-UST-28	5-10	ND
BW-UST-29	5-10	ND
IO-10	6-16	ND
MW-02SR	2-12	ND
MW-03	4.94-14.94	ND
MW-04	5.1-15.1	ND
MW-11W	2-10	ND
MW-12W	2-12	ND
MW-16SR	2-12	28
MW-29S	2-10	ND
MW-30WR	2-10	ND
MW-32WR	2-9	3
MW-34S	2-10	83
MW-45W	2-10	10
MW-46WR	2-10	39
MW-66S	1.5-11.5	ND
MW-70/70S	2-12	14
MW-73	2-12	97
MW-75	2-12	1
MW-76	2-12	ND
MW-78	5-20	ND
MW-79	5-20	13
MW-80	5-20	522
MW-81	5-20	19
MW-82	5-20	ND
MW-83	5-20	ND
MW-BS-02S	5-15	3
PDMW-01	5-20	ND
PDMW-02	5-20	2,797
PDMW-03	5-15	2,100
SV-02	2-12	ND
SV-03	2-12	ND
OU-4		
WCMW-01S	2-12	ND
WCMW-02S	3-13	ND
WCMW-03S	4.93-9.83	243
WCMW-04S	1.6-11.6	43
WCMW-05S	1.4-11.4	5
WCMW-06S	2-12	ND
WCMW-09S	5-15	ND
WCMW-11S	5-15	624
WCMW-12S	3-13	4
WCMW-13S	3-13	ND
WCMW-14S	2-12	ND
WCMW-16S	2-12	24
WCMW-17S	2-12	245

Q2 2014

Q2 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01S	5 - 15	ND
BBMW-02S	5 - 15	ND
BBMW-03S	3 - 13	ND
BBMW-07S	5 - 15	ND
BBMW-15S	5 - 15	ND
BBMW-16S	5 - 15	ND
BBMW-22S	5 - 10	2,180
BBMW-23S	5 - 15	187
BBMW-24S	4 - 14	ND
BBMW-25S	4 - 14	ND
BBMW-27S	5 - 15	ND
BBMW-34S	5 - 15	96
BBMW-35S	5 - 15	ND
BBMW-36S	5 - 15	ND
BBMW-37S	5 - 15	16
BBMW-38S	5 - 15	142
BBMW-39S	5 - 15	154
BBMW-40S	5 - 15	ND
BBMW-41S	6 - 16	2,112
BBMW-42S	5 - 10	446
BBMW-43S	5 - 10	ND
GM-05S	5.1 - 20.1	ND
GM-08S	6.35 - 21.35	ND
MW-03S	3 - 13	2
MW-05S	4 - 14	1,115
MW-09S	4 - 14	ND
OU1PZ-101	4 - 14	814
OU1PZ-102	4 - 14	ND
OU1PZ-103	4 - 14	311
OU1PZ-104	4 - 14	2
OU1PZ-105	4 - 14	369
OU2IW-01S	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	ND
OU2MW-22S	5 - 15	ND
OU2MW-23S	5 - 15	ND
OU2MW-24S	5 - 15	ND

Q2 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-25S	5 - 15	ND
OU2MW-26S	6 - 11	ND
OU2MW-27S	5 - 15	ND
OU2MW-28S	5 - 15	ND
OU2MW-30S	5 - 15	ND
OU2MW-32S	5 - 15	ND
OU2MW-33S	5 - 15	ND
OU2MW-34S	5 - 15	ND
OU2MW-35S	5 - 15	ND
OU2MW-36S	5 - 15	ND
OU2MW-37S	5 - 15	ND
OU2MW-38S	5 - 15	ND
OU2MW-39S	5 - 15	ND
OU2MW-40S	5 - 15	14
OU2MW-41S	5 - 15	ND
OU2MW-42S	5 - 15	ND
OU2MW-43S	5 - 15	ND
OU2MW-44S	5 - 15	ND
OU2MW-45S	5 - 15	ND
OU2MW-46S	5 - 15	ND
OU2MW-47S	5 - 15	ND
OU2MW-48S	3 - 13	ND
OU2MW-49S	3 - 13	ND
OU2MW-50S	5 - 15	ND
OU2MW-51S	5 - 15	4
OU2MW-52S	3 - 8	ND
OU2MW-53S	3 - 8	ND
OU2MW-54S	5 - 15	ND
OU2MW-55S	5 - 15	ND
OU2MW-56S	5 - 15	ND
OU2MW-57S	5 - 15	47
OU2MW-58S	5 - 15	ND
OZMW-16S	5 - 15	ND
OZMW-18S	5 - 15	ND
OZMW-19S	5 - 15	182
OZMW-21S	5 - 15	2,895*
OZMW-22S/22SR	5 - 15	5
OZMW-23S	5 - 15	ND
OZMW-24S	5 - 15	ND
OZMW-25S	5 - 15	2,022
OZMW-26S	5 - 15	ND
OU-3		
BBMW-28S	2 - 12	ND
BBMW-29	2 - 9	ND
BBMW-30S	2 - 10	ND
BBMW-31S	2 - 10	ND
BBMW-32S	2 - 10	ND
BBMW-33	7 - 12	ND
IO-10	6 - 16	ND
MW-11W	2 - 10	ND
MW-12W	2 - 10	ND
MW-13W	2 - 10	ND
MW-30W/W-R	2 - 9	ND
MW-32WR	2 - 9	ND
MW-34S	2 - 10	ND
MW-37W	2 - 10	ND

Q2 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-3		
MW-39W	2 - 10	ND
MW-45W	2 - 10	ND
MW-46WR	2 - 10	ND
MW-66S	1.5 - 11.5	ND
MW-67S	2.5 - 12.5	ND
MW-68S	15 - 20	ND
MW-70/70S	2 - 12	ND
MW-73	2 - 12	ND
MW-75	2 - 12	ND
MW-76	5 - 20	ND
MW-78	5 - 20	ND
MW-79	5 - 20	ND
MW-80	5 - 20	ND
MW-81	5 - 20	ND
MW-82	5 - 20	ND
MW-83	5 - 20	3
MWBS-02S	5 - 15	ND
OU3MW-01S	3 - 13	ND
OU3MW-02S	3 - 13	ND
OU3MW-03S	1 - 11	ND
OU3MW-04S	1 - 11	ND
OU3MW-05S	2 - 12	ND
OU3MW-06	3 - 13	ND
OU3MW-07S	3 - 13	ND
OU3MW-08S	2 - 12	247
OU3MW-09S	2 - 12	ND
OU3MW-10S	2 - 12	ND
OU3MW-11S	2 - 12	4
OU3MW-12S	2 - 12	ND
OU3MW-13S	2 - 12	89
OU3MW-14S	2 - 12	ND
OU3MW-15S	2 - 12	ND
OU3MW-16S	2 - 12	94
OU2MW-17S	5 - 10	ND
OU2MW-19S	2 - 12	716**
OU2MW-20S	2 - 12	ND
OU2MW-21S	2 - 12	ND
PDMW-01	5 - 20	ND
SV-02	2 - 12	ND
SV-03	2 - 12	ND
OU-4		
WCMW-02S	3 - 13	45
WCMW-04S	1.6 - 11.6	10
WCMW-05S	1.4 - 11.4	48
WCMW-06S	2 - 12	ND
WCMW-08S	4.2 - 9.2	ND
WCMW-11S	5 - 15	102
WCMW-12S	3 - 13	1
WCMW-13S	3 - 13	9
WCMW-14S	2 - 12	41
WCMW-19S	2 - 12	ND
WCMW-23S	2 - 12	13
WCMW-26S	2 - 12	335
WCMW-29S	2 - 12	1,952
WCMW-30S	2 - 12	ND
WCMW-31S	2 - 12	45
WCMW-32S	2 - 12	167

NOTE:

* INDICATES WELL NOT SAMPLED IN Q2 2014 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.

** RESULT FROM JULY 2014.

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕OZMW-21S — WELL NOT SAMPLED IN Q2 2014 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
- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS

NOTE:

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

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

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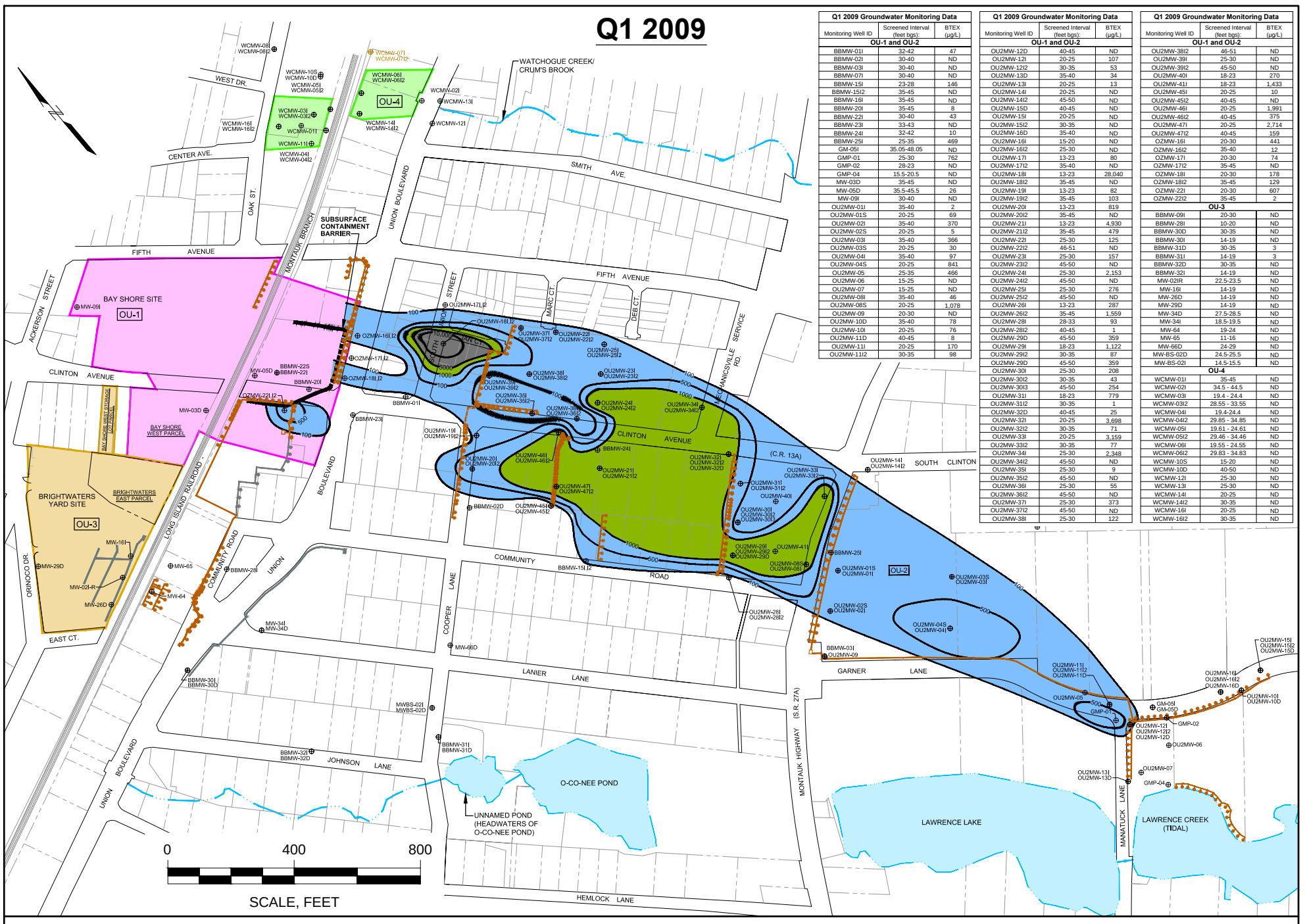
Project 093180-5-1506

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

October 2014 Figure 11

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Q1 2009



Q1 2009 Groundwater Monitoring Data

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

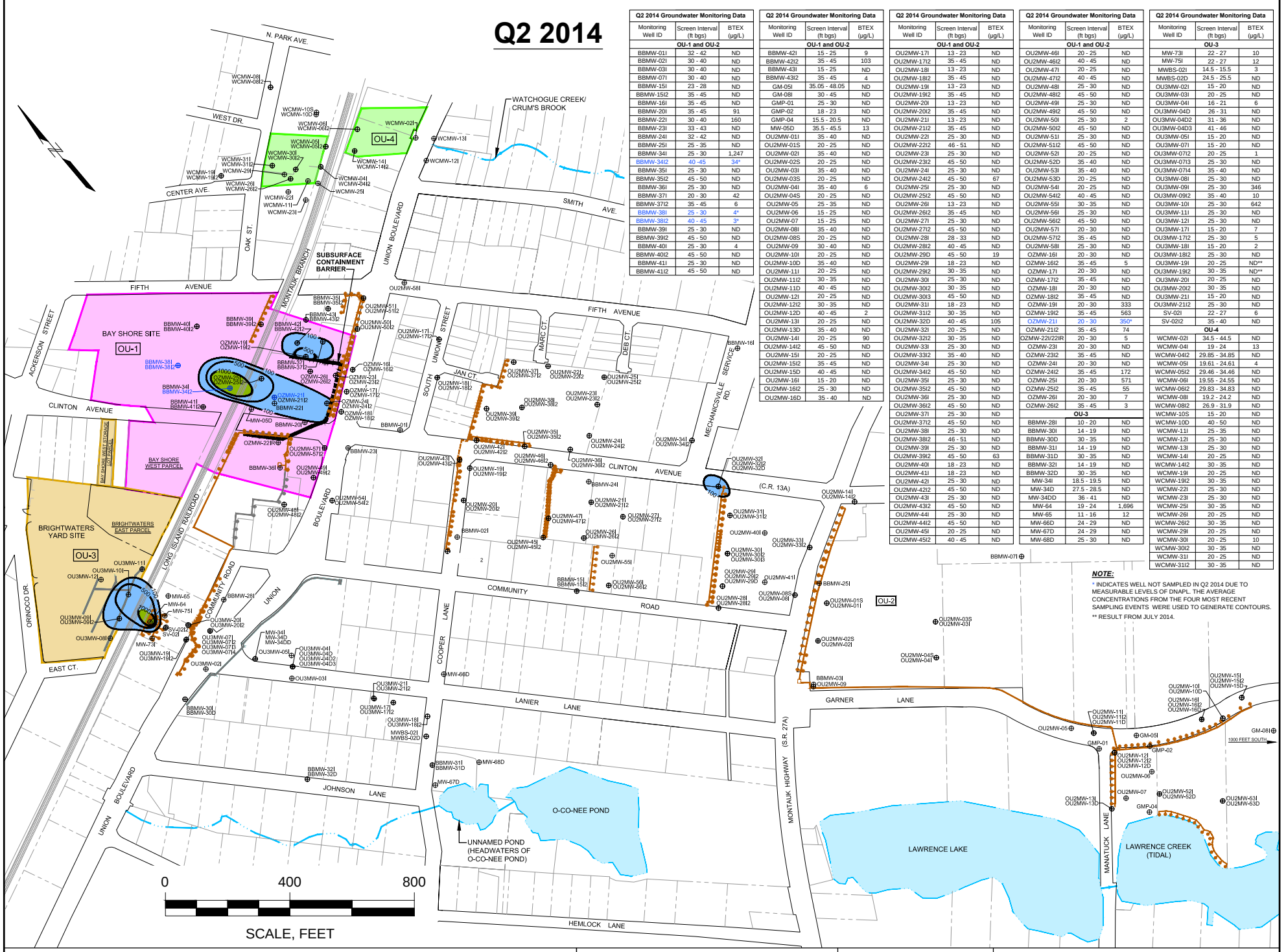
Q1 2009 Groundwater Monitoring Data

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

Q1 2009 Groundwater Monitoring Data

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

Q2 2014



Q2 2014 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01I	32 - 42	ND
BBMW-02I	30 - 40	ND
BBMW-03I	30 - 40	ND
BBMW-07I	30 - 40	ND
BBMW-15I	23 - 28	ND
BBMW-15I2	35 - 45	ND
BBMW-16I	35 - 45	ND
BBMW-20I	35 - 45	91
BBMW-22I	30 - 40	160
BBMW-23I	33 - 43	ND
BBMW-24I	32 - 42	ND
BBMW-25I	25 - 35	ND
BBMW-34I	25 - 30	1,247
BBMW-34I2	40 - 45	34*
BBMW-35I	25 - 30	ND
BBMW-35I2	45 - 50	ND
BBMW-36I	25 - 30	ND
BBMW-37I	20 - 30	42
BBMW-37I2	35 - 45	6
BBMW-38I	25 - 30	4*
BBMW-38I2	40 - 45	3*
BBMW-39I	25 - 30	ND
BBMW-39I2	45 - 50	ND
BBMW-40I	25 - 30	4
BBMW-40I2	45 - 50	ND
BBMW-41I	25 - 30	ND
BBMW-41I2	45 - 50	ND

Q2 2014 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-42I	15 - 25	9
BBMW-42I2	35 - 45	103
BBMW-43I	15 - 25	ND
BBMW-43I2	35 - 45	4
GM-05I	35.05 - 48.05	ND
GM-08I	30 - 45	ND
GMP-01	25 - 30	ND
GMP-02	18 - 23	ND
GMP-04	15.5 - 20.5	ND
MW-05D	35.5 - 45.5	13
OU2MW-01I	35 - 40	ND
OU2MW-01S	20 - 25	ND
OU2MW-02I	35 - 40	ND
OU2MW-02S	20 - 25	ND
OU2MW-03I	35 - 40	ND
OU2MW-03S	20 - 25	ND
OU2MW-04I	35 - 40	6
OU2MW-04S	20 - 25	ND
OU2MW-05	25 - 35	ND
OU2MW-06	15 - 25	ND
OU2MW-07	15 - 25	ND
OU2MW-08I	35 - 40	ND
OU2MW-08S	20 - 25	ND
OU2MW-09	30 - 40	ND
OU2MW-10I	20 - 25	ND
OU2MW-10D	35 - 40	ND
OU2MW-11I	20 - 25	ND
OU2MW-11I2	30 - 35	ND
OU2MW-11D	40 - 45	ND
OU2MW-12I	20 - 25	ND
OU2MW-12I2	30 - 35	ND
OU2MW-12D	40 - 45	2
OU2MW-13I	20 - 25	ND
OU2MW-13D	35 - 40	ND
OU2MW-14I	20 - 25	90
OU2MW-14I2	45 - 50	ND
OU2MW-15I	20 - 25	ND
OU2MW-15I2	35 - 45	ND
OU2MW-15D	40 - 45	ND
OU2MW-16I	15 - 20	ND
OU2MW-16I2	25 - 30	ND
OU2MW-16D	35 - 40	ND

Q2 2014 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
OU2MW-46I	20 - 25	ND
OU2MW-46I2	40 - 45	ND
OU2MW-47I	20 - 25	ND
OU2MW-47I2	40 - 45	ND
OU2MW-48I	25 - 30	ND
OU2MW-48I2	45 - 50	ND
OU2MW-49I	25 - 30	ND
OU2MW-49I2	45 - 50	ND
OU2MW-50I	25 - 30	2
OU2MW-50I2	45 - 50	ND
OU2MW-51I	25 - 30	ND
OU2MW-51I2	45 - 50	ND
OU2MW-52I	20 - 25	ND
OU2MW-52D	35 - 40	ND
OU2MW-53I	35 - 40	ND
OU2MW-53D	20 - 25	ND
OU2MW-54I	20 - 25	ND
OU2MW-54I2	40 - 45	ND
OU2MW-55I	30 - 35	ND
OU2MW-56I	25 - 30	ND
OU2MW-56I2	45 - 50	ND
OU2MW-57I	20 - 30	ND
OU2MW-57I2	35 - 45	ND
OU2MW-58I	25 - 30	ND
OZMW-16I	20 - 30	ND
OZMW-16I2	35 - 45	5
OZMW-17I	20 - 30	ND
OZMW-17I2	35 - 45	ND
OZMW-18I	20 - 30	ND
OZMW-18I2	35 - 45	ND
OZMW-19I	20 - 30	333
OZMW-19I2	35 - 45	563
OZMW-21I	20 - 30	350*
OZMW-21I2	35 - 45	74
OZMW-22I/22IR	20 - 30	5
OZMW-23I	20 - 30	ND
OZMW-23I2	35 - 45	ND
OZMW-24I	20 - 30	ND
OZMW-24I2	35 - 45	172
OZMW-25I	20 - 30	571
OZMW-25I2	35 - 45	55
OZMW-26I	20 - 30	7
OZMW-26I2	35 - 45	3
OU-3		
BBMW-28I	10 - 20	ND
BBMW-30I	14 - 19	ND
BBMW-30D	30 - 35	ND
BBMW-31I	14 - 19	ND
BBMW-31D	30 - 35	ND
BBMW-32I	14 - 19	ND
BBMW-32D	30 - 35	ND
MW-34I	18.5 - 19.5	ND
MW-34D	27.5 - 28.5	ND
MW-34DD	36 - 41	ND
MW-64	19 - 24	1,696
MW-65	11 - 16	12
MW-66D	24 - 29	ND
MW-67D	24 - 29	ND
MW-68D	25 - 30	ND

Q2 2014 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-3		
MW-73I	22 - 27	10
MW-75I	22 - 27	12
MWBS-02I	14.5 - 15.5	3
MWBS-02D	24.5 - 25.5	ND
OU3MW-02I	15 - 20	ND
OU3MW-03I	20 - 25	ND
OU3MW-04I	16 - 21	6
OU3MW-04D	26 - 31	ND
OU3MW-04D2	31 - 36	ND
OU3MW-04D3	41 - 46	ND
OU3MW-05I	15 - 20	ND
OU3MW-07I	15 - 20	ND
OU3MW-07I2	20 - 25	1
OU3MW-07I3	25 - 30	ND
OU3MW-07I4	35 - 40	ND
OU3MW-08I	25 - 30	ND
OU3MW-09I	25 - 30	346
OU3MW-09I2	35 - 40	10
OU3MW-10I	25 - 30	642
OU3MW-11I	25 - 30	ND
OU3MW-12I	25 - 30	ND
OU3MW-17I	15 - 20	7
OU3MW-17I2	25 - 30	5
OU3MW-18I	15 - 20	2
OU3MW-18I2	25 - 30	ND
OU3MW-19I	20 - 25	ND**
OU3MW-19I2	30 - 35	ND**
OU3MW-20I	20 - 25	ND
OU3MW-20I2	30 - 35	ND
OU3MW-21I	15 - 20	ND
OU3MW-21I2	25 - 30	ND
SV-02I	22 - 27	6
SV-02I2	35 - 40	ND
OU-4		
WCMW-02I	34.5 - 44.5	ND
WCMW-04I	19 - 24	13
WCMW-04I2	29.85 - 34.85	ND
WCMW-05I	19.61 - 24.61	4
WCMW-05I2	29.46 - 34.46	ND
WCMW-06I	19.55 - 24.55	ND
WCMW-06I2	29.83 - 34.83	ND
WCMW-08I	19.2 - 24.2	ND
WCMW-08I2	26.9 - 31.9	ND
WCMW-10S	15 - 20	ND
WCMW-10D	40 - 50	ND
WCMW-11I	25 - 35	ND
WCMW-12I	25 - 30	ND
WCMW-13I	25 - 30	ND
WCMW-14I	20 - 25	ND
WCMW-14I2	30 - 35	ND
WCMW-19I	20 - 25	ND
WCMW-19I2	30 - 35	ND
WCMW-22I	25 - 30	ND
WCMW-23I	25 - 30	ND
WCMW-25I	30 - 35	ND
WCMW-26I	20 - 25	ND
WCMW-26I2	30 - 35	ND
WCMW-29I	20 - 25	ND
WCMW-30I	20 - 25	10
WCMW-30I2	30 - 35	ND
WCMW-31I	20 - 25	ND
WCMW-31I2	30 - 35	ND

NOTE:

* INDICATES WELL NOT SAMPLED IN Q2 2014 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.

** RESULT FROM JULY 2014.

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-38I — WELL NOT SAMPLED IN Q2 2014 DUE TO MEASURABLE LEVELS OF DNAPL
- µg/L — MICROGRAMS PER LITER
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- BTEX ≧5,000 µg/L
- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE

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

BAY SHORE/BRIGHTWATERS
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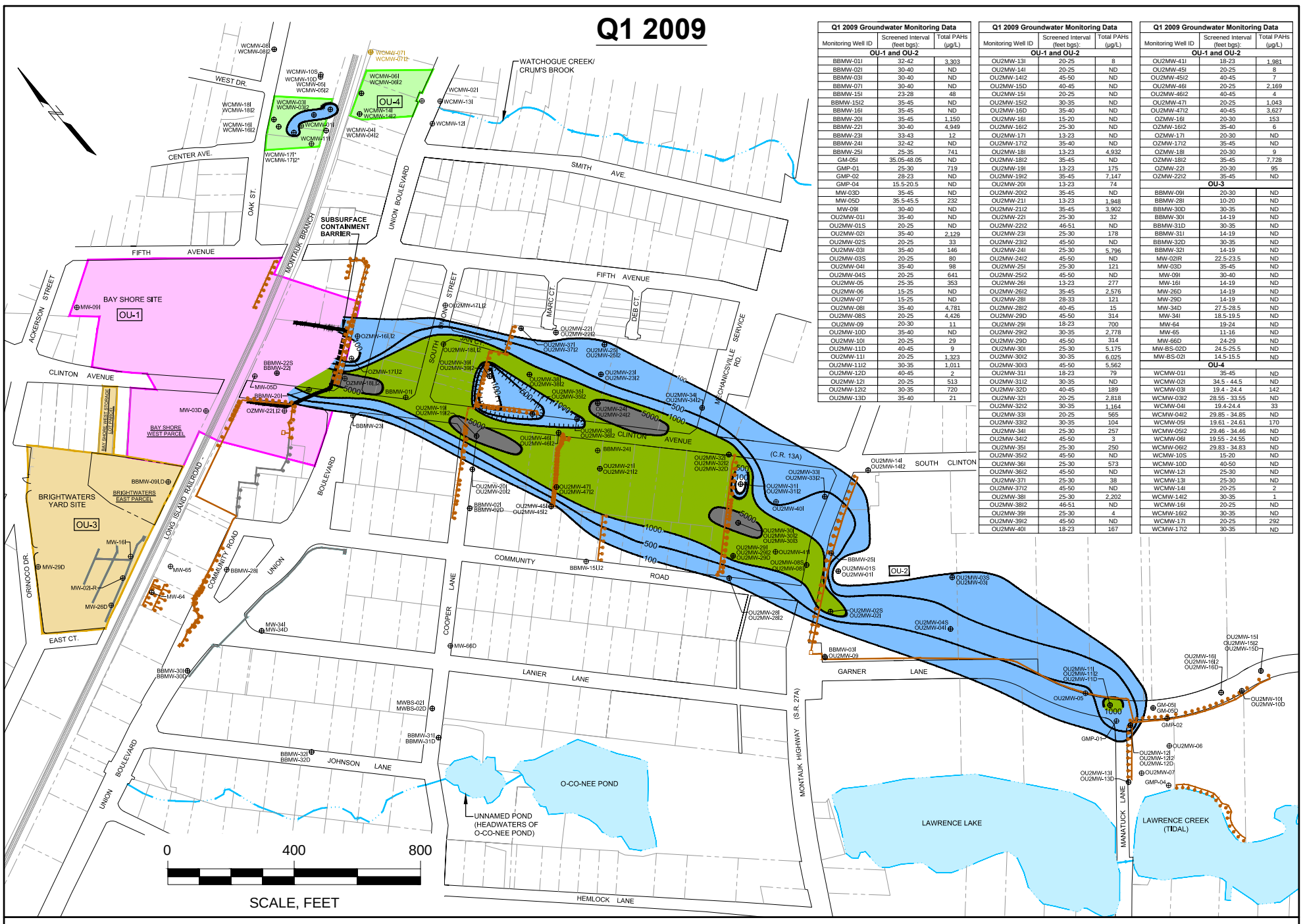
Project 093180-5-1506

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

October 2014 — Figure 12

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Q1 2009



Q1 2009 Groundwater Monitoring Data

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

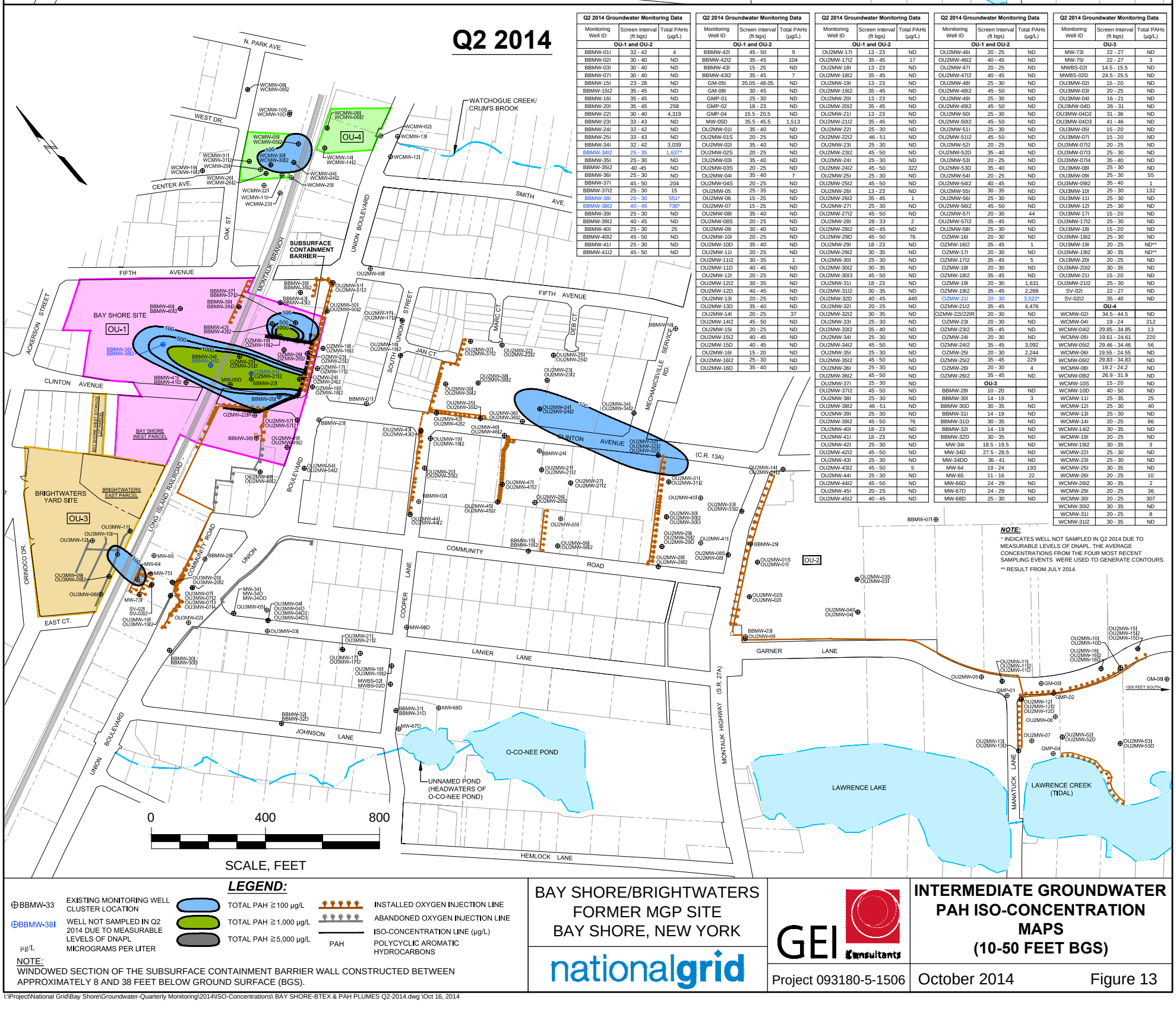
Q1 2009 Groundwater Monitoring Data

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

Q1 2009 Groundwater Monitoring Data

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

Q2 2014



Q2 2014 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01I	32 - 42	4
BBMW-02I	30 - 40	ND
BBMW-03I	30 - 40	ND
BBMW-07I	30 - 40	ND
BBMW-15I	23 - 28	ND
BBMW-15I2	35 - 45	ND
BBMW-16I	35 - 45	ND
BBMW-20I	35 - 45	258
BBMW-22I	30 - 40	4,319
BBMW-23I	33 - 43	ND
BBMW-24I	32 - 42	ND
BBMW-25I	33 - 43	ND
BBMW-34I	32 - 42	3,039
BBMW-34I2	25 - 35	1,637*
BBMW-35I	25 - 30	ND
BBMW-35I2	40 -45	ND
BBMW-36I	25 - 30	ND
BBMW-37I	45 - 50	204
BBMW-37I2	25 - 30	15
BBMW-38I	20 - 30	551*
BBMW-38I2	40 - 45	736*
BBMW-39I	25 - 30	ND
BBMW-39I2	40 - 45	ND
BBMW-40I	25 - 30	25
BBMW-40I2	45 - 50	ND
BBMW-41I	25 - 30	ND
BBMW-41I2	45 - 50	ND

Q2 2014 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-42I	45 - 50	9
BBMW-42I2	35 - 45	104
BBMW-43I	15 - 25	ND
BBMW-43I2	35 - 45	7
GM-05I	35.05 - 48.05	ND
GM-08I	30 - 45	ND
GMP-01	25 - 30	ND
GMP-02	18 - 23	ND
GMP-04	15.5 - 20.5	ND
MW-05D	35.5 - 45.5	1,513
OU2MW-01I	35 - 40	ND
OU2MW-01S	20 - 25	ND
OU2MW-02I	35 - 40	ND
OU2MW-02S	20 - 25	ND
OU2MW-03I	35 - 40	ND
OU2MW-03S	20 - 25	ND
OU2MW-04I	35 - 40	7
OU2MW-04S	20 - 25	ND
OU2MW-05	25 - 35	ND
OU2MW-06	15 - 25	ND
OU2MW-07	15 - 25	ND
OU2MW-08I	35 - 40	ND
OU2MW-08S	20 - 25	ND
OU2MW-09	30 - 40	ND
OU2MW-10D	20 - 25	ND
OU2MW-10I	35 - 40	ND
OU2MW-11D	20 - 25	ND
OU2MW-11I	30 - 35	1
OU2MW-11I2	40 - 45	ND
OU2MW-12D	20 - 25	ND
OU2MW-12I	30 - 35	ND
OU2MW-12I2	40 - 45	ND
OU2MW-13D	35 - 40	ND
OU2MW-13I	20 - 25	ND
OU2MW-14I	20 - 25	37
OU2MW-14I2	45 - 50	ND
OU2MW-15I	20 - 25	ND
OU2MW-15I2	40 - 45	ND
OU2MW-15D	40 - 45	ND
OU2MW-16I	15 - 20	ND
OU2MW-16I2	25 - 30	ND
OU2MW-16D	35 - 40	ND

Q2 2014 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-17I	13 - 23	ND
OU2MW-17I2	35 - 45	17
OU2MW-18I	13 - 23	ND
OU2MW-18I2	35 - 45	ND
OU2MW-19I	13 - 23	ND
OU2MW-19I2	35 - 45	ND
OU2MW-20I	13 - 23	ND
OU2MW-20I2	35 - 45	ND
OU2MW-21I	13 - 23	ND
OU2MW-21I2	35 - 45	ND
OU2MW-22I	25 - 30	ND
OU2MW-22I2	46 - 51	ND
OU2MW-23I	25 - 30	ND
OU2MW-23I2	45 - 50	ND
OU2MW-24I	25 - 30	ND
OU2MW-24I2	45 - 50	ND
OU2MW-25I	25 - 30	ND
OU2MW-25I2	45 - 50	ND
OU2MW-26I	13 - 23	ND
OU2MW-26I2	35 - 45	1
OU2MW-27I	25 - 30	ND
OU2MW-27I2	45 - 50	ND
OU2MW-28I	28 - 33	2
OU2MW-28I2	40 - 45	ND
OU2MW-29D	45 - 50	76
OU2MW-29I	18 - 23	ND
OU2MW-29I2	30 - 35	ND
OU2MW-30I	25 - 30	ND
OU2MW-30I2	30 - 35	ND
OU2MW-30I3	45 - 50	ND
OU2MW-31I	18 - 23	ND
OU2MW-31I2	30 - 35	ND
OU2MW-32D	40 - 45	440
OU2MW-32I	20 - 25	ND
OU2MW-32I2	30 - 35	ND
OU2MW-33I	25 - 30	ND
OU2MW-33I2	35 - 40	ND
OU2MW-34I	25 - 30	ND
OU2MW-34I2	45 - 50	ND
OU2MW-35I	25 - 30	ND
OU2MW-35I2	45 - 50	ND
OU2MW-36I	25 - 30	ND
OU2MW-36I2	45 - 50	ND
OU2MW-37I	25 - 30	ND
OU2MW-37I2	45 - 50	ND
OU2MW-38I	25 - 30	ND
OU2MW-38I2	46 - 51	ND
OU2MW-39I	25 - 30	ND
OU2MW-39I2	45 - 50	76
OU2MW-40I	18 - 23	ND
OU2MW-41I	18 - 23	ND
OU2MW-42I	25 - 30	ND
OU2MW-42I2	45 - 50	ND
OU2MW-43I	25 - 30	ND
OU2MW-43I2	45 - 50	5
OU2MW-44I	25 - 30	ND
OU2MW-44I2	45 - 50	ND
OU2MW-45I	20 - 25	ND
OU2MW-45I2	40 - 45	ND

Q2 2014 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-46I	20 - 25	ND
OU2MW-46I2	40 - 45	ND
OU2MW-47I	20 - 25	ND
OU2MW-47I2	40 - 45	ND
OU2MW-48I	25 - 30	ND
OU2MW-48I2	45 - 50	ND
OU2MW-49I	25 - 30	ND
OU2MW-49I2	45 - 50	ND
OU2MW-50I	25 - 30	ND
OU2MW-50I2	45 - 50	ND
OU2MW-51I	25 - 30	ND
OU2MW-51I2	45 - 50	ND
OU2MW-52I	20 - 25	ND
OU2MW-52D	35 - 40	ND
OU2MW-53I	20 - 25	ND
OU2MW-53D	35 - 40	ND
OU2MW-54I	20 - 25	ND
OU2MW-54I2	40 - 45	ND
OU2MW-55I	30 - 35	ND
OU2MW-56I	25 - 30	ND
OU2MW-56I2	45 - 50	ND
OU2MW-57I	20 - 30	44
OU2MW-57I2	35 - 45	ND
OU2MW-58I	25 - 30	ND
OZMW-16I	20 - 30	ND
OZMW-16I2	35 - 45	1
OZMW-17I	20 - 30	ND
OZMW-17I2	35 - 45	5
OZMW-18I	20 - 30	ND
OZMW-18I2	35 - 45	ND
OZMW-19I	20 - 30	1,631
OZMW-19I2	35 - 45	2,269
OZMW-21I	20 - 30	3,522*
OZMW-21I2	35 - 45	4,476
OZMW-22I/22IR	20 - 30	ND
OZMW-23I	20 - 30	ND
OZMW-23I2	35 - 45	ND
OZMW-24I	20 - 30	ND
OZMW-24I2	35 - 45	3,092
OZMW-25I	20 - 30	2,244
OZMW-25I2	35 - 45	229
OZMW-26I	20 - 30	4
OZMW-26I2	35 - 45	ND
OU-3		
BBMW-28I	10 - 20	ND
BBMW-30I	14 - 19	3
BBMW-30D	30 - 35	ND
BBMW-31I	14 - 19	ND
BBMW-31D	30 - 35	ND
BBMW-32I	14 - 19	ND
BBMW-32D	30 - 35	ND
MW-34I	18.5 - 19.5	ND
MW-34D	27.5 - 28.5	ND
MW-34DD	36 - 41	ND
MW-64	19 - 24	193
MW-65	11 - 16	22
MW-66D	24 - 29	ND
MW-67D	24 - 29	ND
MW-68D	25 - 30	ND

Q2 2014 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-3		
MW-73I	22 - 27	ND
MW-75I	22 - 27	3
MWBS-02I	14.5 - 15.5	ND
MWBS-02D	24.5 - 25.5	ND
OU3MW-02I	15 - 20	ND
OU3MW-03I	20 - 25	ND
OU3MW-04I	16 - 21	ND
OU3MW-04D	26 - 31	ND
OU3MW-04D2	31 - 36	ND
OU3MW-04D3	41 - 46	ND
OU3MW-05I	15 - 20	ND
OU3MW-07I	15 - 20	ND
OU3MW-07I2	20 - 25	ND
OU3MW-07I3	25 - 30	ND
OU3MW-07I4	35 - 40	ND
OU3MW-08I	25 - 30	ND
OU3MW-09I	25 - 30	55
OU3MW-09I2	35 - 40	1
OU3MW-10I	25 - 30	132
OU3MW-11I	25 - 30	ND
OU3MW-12I	25 - 30	ND
OU3MW-17I	15 - 20	ND
OU3MW-17I2	25 - 30	ND
OU3MW-18I	15 - 20	ND
OU3MW-18I2	25 - 30	ND
OU3MW-19I	20 - 25	ND**
OU3MW-19I2	30 - 35	ND**
OU3MW-20I	20 - 25	ND
OU3MW-20I2	30 - 35	ND
OU3MW-21I	15 - 20	ND
OU3MW-21I2	25 - 30	ND
SV-02I	22 - 27	ND
SV-02I2	35 - 40	ND
OU-4		
WCMW-02I	34.5 - 44.5	ND
WCMW-04I	19 - 24	212
WCMW-04I2	29.85 - 34.85	13
WCMW-05I	19.61 - 24.61	220
WCMW-05I2	29.46 - 34.46	56
WCMW-06I	19.55 - 24.55	ND
WCMW-06I2	29.83 - 34.83	ND
WCMW-08I	19.2 - 24.2	ND
WCMW-08I2	26.9 - 31.9	ND
WCMW-10S	15 - 20	ND
WCMW-10D	40 - 50	ND
WCMW-11I	25 - 35	25
WCMW-12I	25 - 30	40
WCMW-13I	25 - 30	ND
WCMW-14I	20 - 25	86
WCMW-14I2	30 - 35	ND
WCMW-19I	20 - 25	ND
WCMW-19I2	30 - 35	3
WCMW-22I	25 - 30	ND
WCMW-23I	25 - 30	ND
WCMW-25I	30 - 35	ND
WCMW-26I	20 - 25	10
WCMW-26I2	30 - 35	2
WCMW-29I	20 - 25	36
WCMW-30I	20 - 25	307
WCMW-30I2	30 - 35	ND
WCMW-31I	20 - 25	8
WCMW-31I2	30 - 35	ND

NOTE:

* INDICATES WELL NOT SAMPLED IN Q2 2014 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.

** RESULT FROM JULY 2014.

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-38I — WELL NOT SAMPLED IN Q2 2014 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
- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS

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

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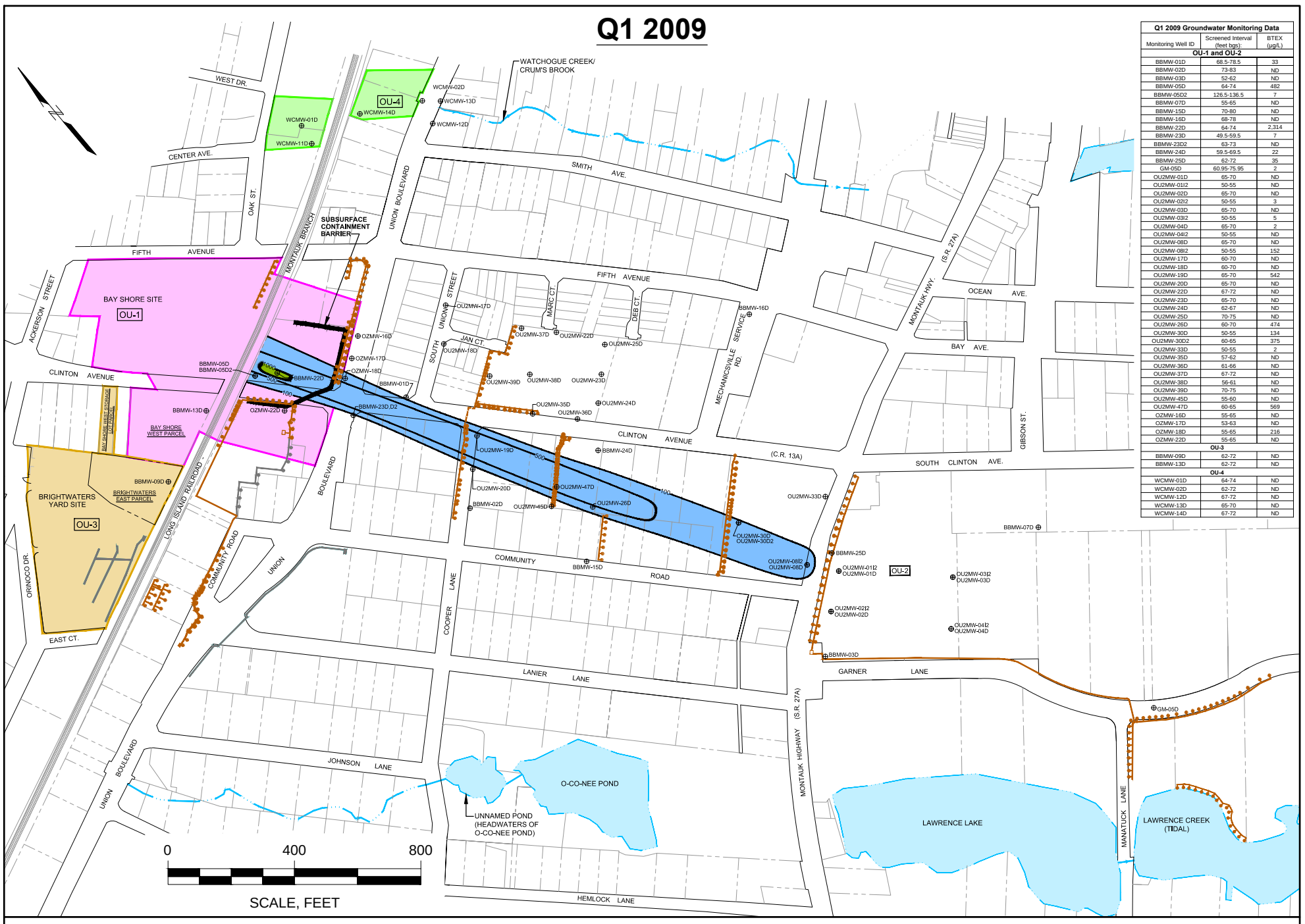
INTERMEDIATE GROUNDWATER PAH ISO-CONCENTRATION MAPS (10-50 FEET BGS)

October 2014

Figure 13

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2014\ISO-Concentrations\ BAY SHORE-BTEX & PAH PLUMES Q2-2014.dwg \Oct 16, 2014

Q1 2009



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

Q2 2014

Q2 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-05D	64 - 74	1,235
BBMW-01D	68.5 - 78.5	10
BBMW-02D	73 - 83	ND
BBMW-03D	52 - 62	ND
BBMW-07D	55 - 65	ND
BBMW-15D	70 - 80	ND
BBMW-16D	68 - 78	ND
BBMW-22D	64 - 74	NS*
BBMW-23D	49.5 - 59.5	ND
BBMW-23D2	63 - 73	ND
BBMW-24D	59.5 - 69.5	5
BBMW-25D	62 - 72	ND
BBMW-34D	65 - 70	ND
BBMW-35D	63 - 68	ND
BBMW-37D	55 - 65	1
BBMW-38D	65 - 70	6
BBMW-39D	65 - 70	ND
BBMW-40D	70 - 75	ND
BBMW-41D	65 - 70	ND
GM-05D	60.95 - 75.95	ND
GM-08D	48 - 63	ND
OU2MW-01I2	50 - 55	ND
OU2MW-01D	65 - 70	ND
OU2MW-02D	50 - 55	ND
OU2MW-02I2	50 - 55	1
OU2MW-03I2	50 - 55	ND
OU2MW-03D	65 - 70	ND
OU2MW-04D	65 - 70	ND
OU2MW-04I2	50 - 55	3
OU2MW-08I2	50 - 55	31
OU2MW-08D	65 - 70	ND
OU2MW-17D	60 - 75	ND
OU2MW-18D	60 - 70	ND
OU2MW-19D	65 - 70	318
OU2MW-20D	65 - 70	ND
OU2MW-22D	67 - 72	ND
OU2MW-23D	65 - 70	ND
OU2MW-24D	62 - 67	ND
OU2MW-25D	70 - 75	ND

Q2 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
OU2MW-26D	60 - 70	ND
OU2MW-27D	65 - 70	ND
OU2MW-30D	50 - 55	ND
OU2MW-30D2	60 - 65	ND
OU2MW-33D	50 - 55	42
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-42D	60 - 65	1,470
OU2MW-43D	65 - 70	376
OU2MW-44D	65 - 70	ND
OU2MW-45D	55 - 60	ND
OU2MW-47D	60 - 65	ND
OU2MW-48D	65 - 70	ND
OU2MW-49D	63 - 68	ND
OU2MW-50D	65 - 70	ND
OU2MW-51D	61 - 66	ND
OU2MW-54D	60 - 65	ND
OU2MW-55I2	50 - 55	ND
OU2MW-56D	65 - 70	ND
OZMW-16D	55 - 65	ND
OZMW-17D	53 - 63	256
OZMW-18D	55 - 65	138
OZMW-19D	55 - 65	4
OZMW-21D	55 - 65	NS*
OZMW-23D	55 - 65	ND
OZMW-24D	55 - 65	611
OZMW-25D	55 - 65	ND
OZMW-26D	55 - 65	ND
OU-4		
WCMW-02D	62 - 72	ND
WCMW-11D	50 - 60	ND
WCMW-12D	67 - 72	ND
WCMW-13D	65 - 70	ND
WCMW-14D	67 - 72	ND
WCMW-25D	55 - 60	ND

NOTE:
NS* INDICATES WELL NOT SAMPLED IN Q2 2014 DUE TO PRESENCE OF DNAPL.

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕OZMW-21D — WELL NOT SAMPLED IN Q2 2014 DUE TO MEASURABLE LEVELS OF DNAPL
- µg/L — MICROGRAMS PER LITER
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- BTEX ≧5,000 µg/L
- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE

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FORMER MGP SITE
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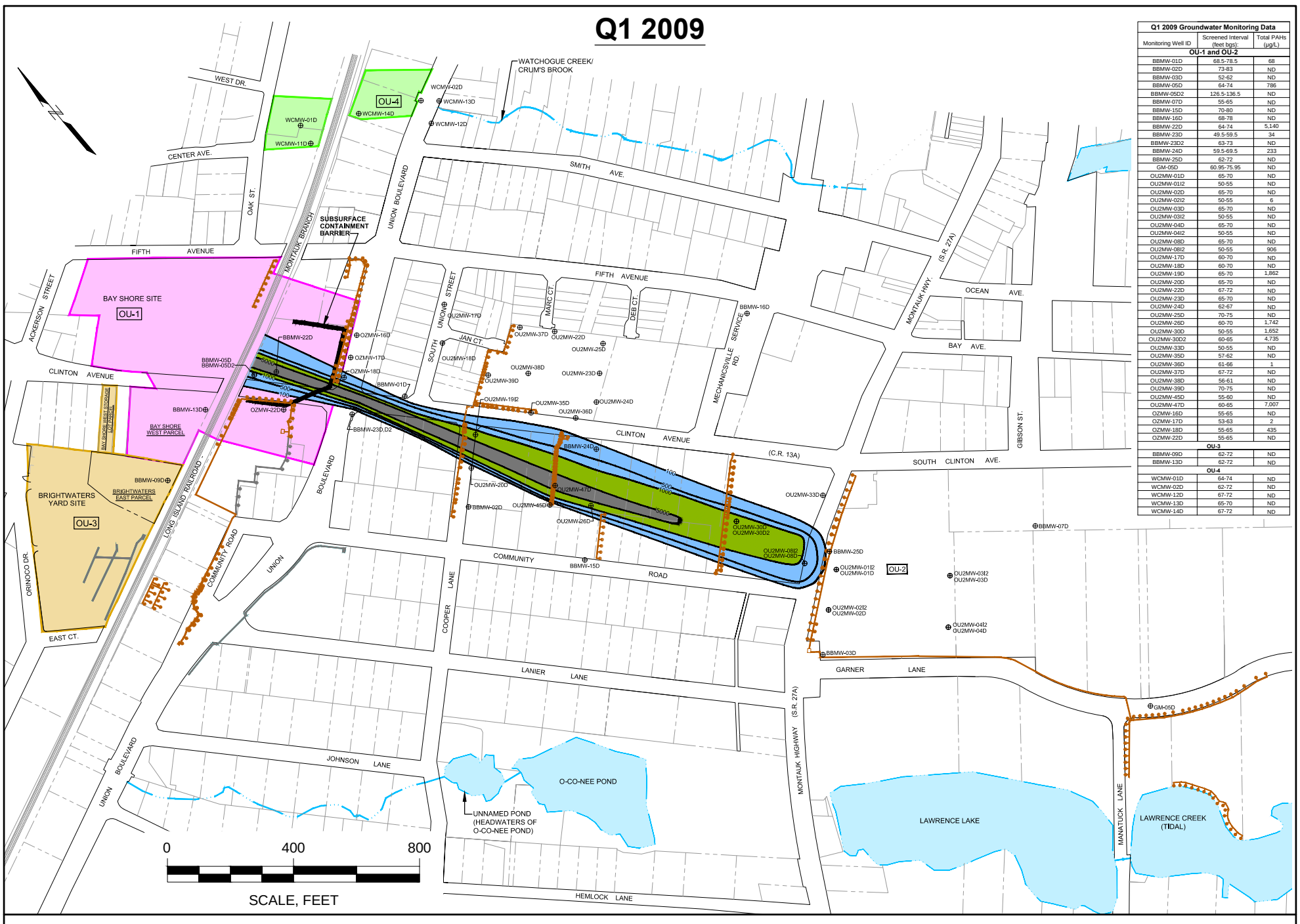
DEEP GROUNDWATER BTEX ISO-CONCENTRATION MAPS (BELOW 50 FEET BGS)

Project 093180-5-1506 | October 2014 | Figure 14

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Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	68
BBMW-02D	73-83	ND
BBMW-03D	52-62	ND
BBMW-05D	64-74	786
BBMW-05D2	126.5-136.5	ND
BBMW-07D	55-65	ND
BBMW-15D	70-80	ND
BBMW-16D	68-78	ND
BBMW-22D	64-74	5,140
BBMW-23D	49.5-59.5	34
BBMW-23D2	63-73	ND
BBMW-24D	59.5-69.5	233
BBMW-25D	62-72	ND
GM-05D	60.95-75.95	ND
OU2MW-01D	65-70	ND
OU2MW-01I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-02I2	50-55	6
OU2MW-03D	65-70	ND
OU2MW-03I2	50-55	ND
OU2MW-04D	65-70	ND
OU2MW-04I2	50-55	ND
OU2MW-08D	65-70	ND
OU2MW-08I2	50-55	906
OU2MW-17D	60-70	ND
OU2MW-18D	60-70	ND
OU2MW-19D	65-70	1,862
OU2MW-20D	65-70	ND
OU2MW-22D	67-72	ND
OU2MW-23D	65-70	ND
OU2MW-24D	62-67	ND
OU2MW-25D	70-75	ND
OU2MW-26D	60-70	1,742
OU2MW-30D	50-55	1,652
OU2MW-30D2	60-65	4,735
OU2MW-33D	50-55	ND
OU2MW-35D	57-62	ND
OU2MW-36D	61-66	1
OU2MW-37D	67-72	ND
OU2MW-38D	56-61	ND
OU2MW-39D	70-75	ND
OU2MW-45D	55-60	ND
OU2MW-47D	60-65	7,007
OZMW-16D	55-65	ND
OZMW-17D	53-63	2
OZMW-18D	55-65	435
OZMW-22D	55-65	ND
OU-3		
BBMW-09D	62-72	ND
BBMW-13D	62-72	ND
OU-4		
WCMW-01D	64-74	ND
WCMW-02D	62-72	ND
WCMW-12D	67-72	ND
WCMW-13D	65-70	ND
WCMW-14D	67-72	ND

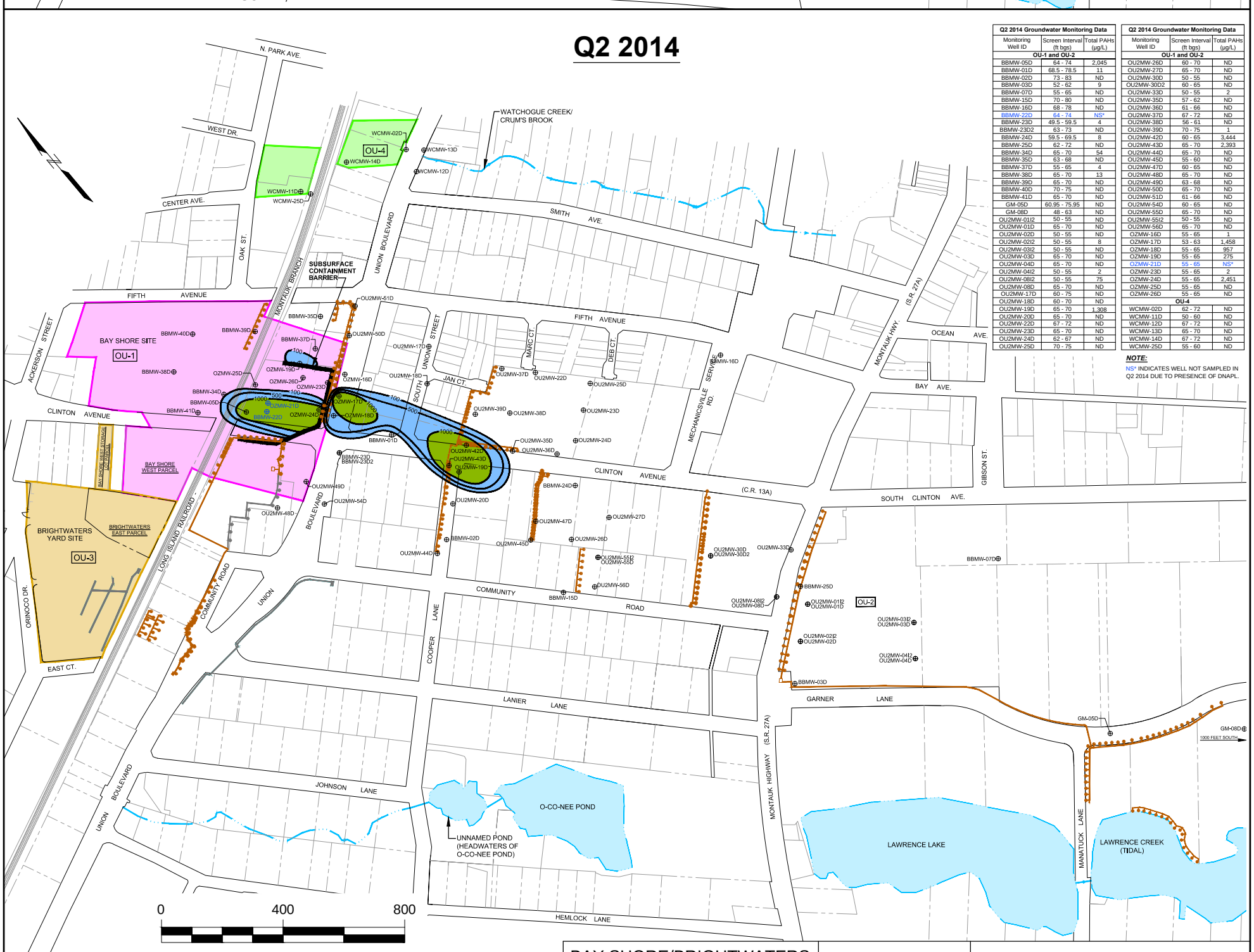


Q2 2014

Q2 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-05D	64 - 74	2,045
BBMW-01D	68.5 - 78.5	11
BBMW-02D	73 - 83	ND
BBMW-03D	52 - 62	9
BBMW-07D	55 - 65	ND
BBMW-15D	70 - 80	ND
BBMW-16D	68 - 78	ND
BBMW-22D	64 - 74	NS*
BBMW-23D	49.5 - 59.5	4
BBMW-23D2	63 - 73	ND
BBMW-24D	59.5 - 69.5	8
BBMW-25D	62 - 72	ND
BBMW-34D	65 - 70	54
BBMW-35D	63 - 68	ND
BBMW-37D	55 - 65	4
BBMW-38D	65 - 70	13
BBMW-39D	65 - 70	ND
BBMW-40D	70 - 75	ND
BBMW-41D	65 - 70	ND
GM-05D	60.95 - 75.95	ND
GM-08D	48 - 63	ND
OU2MW-01I2	50 - 55	ND
OU2MW-01D	65 - 70	ND
OU2MW-02D	50 - 55	ND
OU2MW-02I2	50 - 55	8
OU2MW-03I2	50 - 55	ND
OU2MW-03D	65 - 70	ND
OU2MW-04D	65 - 70	ND
OU2MW-04I2	50 - 55	2
OU2MW-08I2	50 - 55	75
OU2MW-08D	65 - 70	ND
OU2MW-17D	60 - 75	ND
OU2MW-18D	60 - 70	ND
OU2MW-19D	65 - 70	1,308
OU2MW-20D	65 - 70	ND
OU2MW-22D	67 - 72	ND
OU2MW-23D	65 - 70	ND
OU2MW-24D	62 - 67	ND
OU2MW-25D	70 - 75	ND

Q2 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-26D	60 - 70	ND
OU2MW-27D	65 - 70	ND
OU2MW-30D	50 - 55	ND
OU2MW-30D2	60 - 65	ND
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	1
OU2MW-42D	60 - 65	3,444
OU2MW-43D	65 - 70	2,393
OU2MW-44D	65 - 70	ND
OU2MW-45D	55 - 60	ND
OU2MW-47D	60 - 65	ND
OU2MW-48D	65 - 70	ND
OU2MW-49D	63 - 68	ND
OU2MW-50D	65 - 70	ND
OU2MW-51D	61 - 66	ND
OU2MW-54D	60 - 65	ND
OU2MW-55D	65 - 70	ND
OU2MW-55I2	50 - 55	ND
OU2MW-56D	65 - 70	ND
OZMW-16D	55 - 65	1
OZMW-17D	53 - 63	1,458
OZMW-18D	55 - 65	957
OZMW-19D	55 - 65	275
OZMW-21D	55 - 65	NS*
OZMW-23D	55 - 65	2
OZMW-24D	55 - 65	2,451
OZMW-25D	55 - 65	ND
OZMW-26D	55 - 65	ND
OU-4		
WCMW-02D	62 - 72	ND
WCMW-11D	50 - 60	ND
WCMW-12D	67 - 72	ND
WCMW-13D	65 - 70	ND
WCMW-14D	67 - 72	ND
WCMW-25D	55 - 60	ND

NOTE:
NS* INDICATES WELL NOT SAMPLED IN Q2 2014 DUE TO PRESENCE OF DNAPL.



LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕OZMW-21D — WELL NOT SAMPLED IN Q2 2014 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
- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

nationalgrid

GEI Consultants

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

Project 093180-5-1506 | October 2014 | Figure 15

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Appendices (compact disk only)

Appendices also available at www.bayshoreworksmgp.com

Appendix A

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2013	Q4 2013	Q1 2014	Q2 2014
OU-1 Monitoring Wells						
BBMW-05D	**74**	**64-74**	**X**	**X**	**X**	**X**
BBMW-13D	**72**	**62-72**	**-**	**-**	**-**	**-**
BBMW-20I	**45**	**35-45**	**X**	**X**	**X**	**X**
BBMW-22S	**10**	**5-10**	**X**	**X**	**X**	**X**
BBMW-22I	**40**	**30-40**	**X**	**X**	**X**	**X**
BBMW-22D	**74**	**64-74**	**-***	**-***	**X**	**X**
BBMW-26S	**16**	**6-16**	**-**	**-**	**-**	**-**
BBMW-26I	**40**	**30-40**	**-**	**-**	**-**	**-**
BBMW-27S	**15**	**5-15**	**-**	**-**	**-**	**X**
BBMW-27I	**40**	**30-40**	**-**	**-**	**-**	**-**
BBMW-34S	**15**	**5-15**	**X**	**X**	**X**	**X**
BBMW-34I	**30**	**25-30**	**X**	**X**	**X**	**X**
BBMW-34I2	**45**	**40-45**	**-***	**-***	**X**	**X**
BBMW-34D	**70**	**65-70**	**-**	**-**	**-**	**X**
BBMW-35S	**17**	**5-15**	**-**	**-**	**-**	**X**
BBMW-35I	**32**	**25-30**	**-**	**-**	**-**	**X**
BBMW-35I2	**52**	**45-50**	**-**	**-**	**-**	**X**
BBMW-35D	**70**	**63-68**	**-**	**-**	**-**	**X**
BBMW-36S	**15**	**5-15**	**-**	**-**	**-**	**X**
BBMW-36I	**30**	**25-30**	**-**	**-**	**-**	**X**
BBMW-37S	**17**	**5-15**	**X**	**X**	**X**	**X**
BBMW-37I	**TBD**	**20-30**	**X**	**X**	**X**	**X**
BBMW-37I2	**TBD**	**35-45**	**X**	**X**	**X**	**X**
BBMW-37D	**TBD**	**55-65**	**-**	**-**	**-**	**X**
BBMW-38S	**15**	**5-15**	**X**	**X**	**X**	**X**
BBMW-38I	**30**	**25-30**	**-***	**-***	**X**	**X**
BBMW-38I2	**45**	**40-45**	**-***	**-***	**X**	**X**
BBMW-38D	**70**	**65-70**	**-**	**-**	**-**	**X**
BBMW-39S	**15**	**5-15**	**X**	**X**	**X**	**X**
BBMW-39I	**30**	**25-30**	**X**	**X**	**X**	**X**
BBMW-39I2	**50**	**45-50**	**X**	**-**	**-**	**X**
BBMW-39D	**70**	**65-70**	**-**	**-**	**-**	**X**
BBMW-40S	**15**	**5-15**	**X**	**X**	**X**	**X**
BBMW-40I	**30**	**25-30**	**X**	**X**	**X**	**X**
BBMW-40I2	**50**	**45-50**	**X**	**X**	**-**	**X**
BBMW-40D	**75**	**70-75**	**-**	**-**	**-**	**X**
BBMW-41S	**16**	**6-16**	**X**	**X**	**X**	**X**
BBMW-41I	**30**	**25-30**	**X**	**X**	**X**	**X**
BBMW-41I2	**50**	**45-50**	**-**	**-**	**-**	**X**
BBMW-41D	**70**	**65-70**	**-**	**-**	**-**	**X**
BBMW-42S	**12**	**5-10**	**X**	**X**	**X**	**X**

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2013	Q4 2013	Q1 2014	Q2 2014
BBMW-42I	27	15-25	X	X	X	X
BBMW-42I2	47	35-45	X	X	X	X
BBMW-43S	12	5-10	X	X	X	X
BBMW-43I	27	15-25	X	X	X	X
BBMW-43I2	47	35-45	X	X	X	X
MW-03S	13	3-13	X	X	X	X
MW-03D	45	35-45	-	-	-	E
MW-05S	14	4-14	X	X	X	X
MW-05D	45.5	35.5-45.5	X	X	X	X
MW-09S	14	4-14	-	-	-	X
MW-09I	40	30-40	-	-	-	E
MW-09I2	50	45-50	-	-	-	E
MW-09D	70	65-70	-	-	-	E
OU2MW-48S	13	3-13	-	-	-	X
OU2MW-48I	30	25-30	-	-	-	X
OU2MW-48I2	50	45-50	-	-	-	X
OU2MW-48D	70	65-70	-	-	-	X
OU2MW-49S	13	3-13	-	-	-	X
OU2MW-49I	30	25-30	-	-	-	X
OU2MW-49I2	50	45-50	-	-	-	X
OU2MW-49D	68	63-68	-	-	-	X
OU2MW-50S	17	5-15	X	X	X	X
OU2MW-50I	32	25-30	X	X	X	X
OU2MW-50I2	52	45-50	X	X	X	X
OU2MW-50D	72	65-70	X	X	X	X
OU2MW-51S	17	5-15	-	-	-	X
OU2MW-51I	32	25-30	-	-	-	X
OU2MW-51I2	52	45-50	-	-	-	X
OU2MW-51D	68	61-66	-	-	-	X
OU2MW-57S	17	5-15	X	X	X	X
OU2MW-57I	32	20-30	X	X	X	X
OU2MW-57I2	47	35-45	X	X	X	X
OZMW-16S	15	5-15	X	X	X	X
OZMW-16I	25	20-25	X	X	X	X
OZMW-16I2	40	35-40	X	X	X	X
OZMW-16D	60	55-60	X	X	X	X
OZMW-17S	15	5-15	X	X	X	X
OZMW-17I	25	20-25	X	X	X	X
OZMW-17I2	40	35-40	X	X	X	X
OZMW-17D	63	53-63	X	X	X	X
OZMW-18S	15	5-15	X	X	X	X
OZMW-18I	25	20-25	X	X	X	X

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2013	Q4 2013	Q1 2014	Q2 2014
OZMW-18I2	40	35-40	X	X	X	X
OZMW-18D	60	55-60	X	X	X	X
OZMW-19S	15	5-15	X	X	X	X
OZMW-19I	25	20-25	X	X	X	X
OZMW-19I2	40	35-40	X	X	X	X
OZMW-19D	60	55-60	X	X	X	X
OZMW-21S	15	5-15	-*	-*	X	X
OZMW-21I	25	20-25	-*	-*	X	X
OZMW-21I2	40	35-40	X	X	X	X
OZMW-21D	60	55-60	-*	-*	X	X
OZMW-22SR	17	5-15	X	X	X	X
OZMW-22IR	22	20-30	X	X	X	X
OZMW-23S	15	5-15	X	X	X	X
OZMW-23I	25	20-25	X	X	X	X
OZMW-23I2	40	35-40	X	X	X	X
OZMW-23D	65	55-65	X	X	X	X
OZMW-24S	15	5-15	X	X	X	X
OZMW-24I	25	20-25	X	X	X	X
OZMW-24I2	40	35-40	X	X	X	X
OZMW-24D	65	55-65	X	X	X	X
OZMW-25S	15	5-15	X	X	X	X
OZMW-25I	25	20-25	X	X	X	X
OZMW-25I2	40	35-40	X	X	X	X
OZMW-25D	65	55-65	X	X	X	X
OZMW-26S	15	5-15	-	X	-	X
OZMW-26I	25	20-25	X	X	X	X
OZMW-26I2	40	35-40	X	X	X	X
OZMW-26D	65	55-65	-	X	-	X
OU1PZ-101	14	4-14	NI	-	X	X
OU1PZ-102	14	4-14	NI	-	X	X
OU1PZ-103	14	4-14	NI	-	X	X
OU1PZ-104	14	4-14	NI	-	X	X
OU1PZ-105	14	4-14	NI	-	X	X
			67	68	77	108
OU-2 Monitoring Wells						
BBMW-01S	1-15	5-15		-	-	X
BBMW-01I	42	32-42	-	X	X	X
BBMW-01D	78.5	68.5-78.5	X	X	X	X
BBMW-02S	15	5-15	-	-	-	X
BBMW-02I	40	30-40	-	-	-	X
BBMW-02D	73	63-73	-	-	-	X
BBMW-03S	13	3-13	-	-	-	X

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2013	Q4 2013	Q1 2014	Q2 2014
BBMW-03I	40	30-40	-	-	-	X
BBMW-03D	83	73-83	-	-	-	X
BBMW-07S	15	5-15	-	-	-	X
BBMW-07I	40	30-40	-	-	-	X
BBMW-07D	65	55-65	-	-	-	X
BBMW-15S	15	5-15	-	-	-	X
BBMW-15I	28	23-28	-	-	-	X
BBMW-15I2	45	35-45	-	-	-	X
BBMW-15D	80	70-80	-	-	-	X
BBMW-16S	15	5-15	-	-	-	X
BBMW-16I	45	35-45	-	-	-	X
BBMW-16D	78	68-78	-	-	-	X
BBMW-23S	15	5-15	X	X	X	X
BBMW-23I	43	33-43	X	X	X	X
BBMW-23D	59.5	49.5-59.5	-	X	-	X
BBMW-23D2	73	63-73	-	X	-	X
BBMW-24S	14	4-14	-	-	-	X
BBMW-24I	42	32-42	-	-	-	X
BBMW-24D	69.5	59.5-69.5	X	-	X	X
BBMW-25S	14	4-14	-	-	-	X
BBMW-25I	35	25-35	-	X	X	X
BBMW-25D	72	62-72	X	X	X	X
GM-05S	20.1	5.1-20.1	-	-	-	X
GM-05I	48.05	35.05-48.05	-	-	-	X
GM-05D	75.95	60.95-75.95	-	-	-	X
GM-06S			-	-	-	-
GM-06I		unknown	-	-	-	-
GM-06D		unknown	-	-	-	-
GM-07S	24.75	9.75-24.75	-	-	-	-
GM-07I	44.6	29.6-44.6	-	-	-	-
GM-07D	65.3	50.3-65.3	-	-	-	-
GM-08S	21.35	6.35-21.35	-	-	-	-
GM-08I	44.95	29.95-44.95	-	-	-	-
GM-08D	63.25	48.25-63.25	-	-	-	-
GM-09S	19.7	4.7-19.7	-	-	-	-
GM-09I	43.7	28.7-43.7	-	-	-	-
GM-09D	63.35	48.35-63.35	-	-	-	-
GM-10S		unknown	-	-	-	-
GM-10I		unknown	-	-	-	-
GM-10D		unknown	-	-	-	-
GM-10AD		unknown	-	-	-	-
GMP-01	30	25-30	X	X	-	X

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2013	Q4 2013	Q1 2014	Q2 2014
GMP-02	23	18-23	-	-	-	X
GMP-04	20.5	15.5-20.5	-	-	-	X
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	-	-	-	X
OU2MW-01WT	8	3-8	-	-	-	X
OU2MW-01S	25	20-25	-	-	-	X
OU2MW-01I	40	35-40	-	-	-	X
OU2MW-01I2	55	50-55	-	-	-	X
OU2MW-01D	70	65-70	-	-	-	X
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	-	-	-	X
OU2MW-03I	40	35-40	-	-	-	X
OU2MW-03I2	55	50-55	-	-	-	X
OU2MW-03D	70	65-70	-	-	-	X
OU2MW-04WT	8	3-8	-	-	-	X
OU2MW-04S	25	20-25	X	-	X	X
OU2MW-04I	40	35-40	X	X	X	X
OU2MW-04I2	55	50-55	X	-	X	X
OU2MW-04D	70	65-70	X	-	X	X
OU2MW-05	35	25-35	X	-	-	X
OU2MW-06	25	15-25	-	-	-	X
OU2MW-06S	8	3-8	-	-	-	X
OU2MW-07	25	15-25	-	-	-	X
OU2MW-07S	8	3-8	-	-	-	X
OU2MW-08WT	8	3-8	-	-	-	X
OU2MW-08S	25	20-25	-	-	-	X
OU2MW-08I	40	35-40	X	X	X	X
OU2MW-08I2	55	50-55	X	X	X	X
OU2MW-08D	70	65-70	-	-	-	X
OU2MW-09	40	30-40	-	-	-	X
OU2MW-10S	7	3-7	-	-	-	X
OU2MW-10I	25	20-25	X	X	X	X
OU2MW-10D	40	35-40	-	-	-	X
OU2MW-11S	8	3-8	-	-	-	X
OU2MW-11I	25	20-25	-	-	-	X
OU2MW-11I2	35	30-35	X	X	-	X
OU2MW-11D	45	40-45	X	X	X	X

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2013	Q4 2013	Q1 2014	Q2 2014
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	-	-	-	X
OU2MW-13I	25	20-25	-	-	-	X
OU2MW-13D	40	35-40	X	X	-	X
OU2MW-14S	8	3-8	-	-	-	X
OU2MW-14I	25	20-25	X	X	X	X
OU2MW-14I2	50	45-50	-	-	-	X
OU2MW-15S	8	3-8	-	-	-	X
OU2MW-15I	25	20-25	X	X	X	X
OU2MW-15I2	25	30-25	-	-	-	X
OU2MW-15D	45	40-45	-	-	-	X
OU2MW-16S	8	3-8	-	-	-	X
OU2MW-16I	20	15-20	-	-	-	X
OU2M2-16I2	30	25-30	-	-	-	X
OU2MW-16D	40	35-40	-	-	-	X
OU2MW-17S	10	5-10	-	-	-	X
OU2MW-17I	23	13-23	X	X	X	X
OU2MW-17I2	45	35-45	-	-	-	X
OU2MW-17D	70	60-70	-	-	-	X
OU2MW-18I	23	13-23	-	-	-	X
OU2MW-18I2	45	35-45	X	X	X	X
OU2MW-18D	70	60-70	-	-	-	X
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	-	-	-	X
OU2MW-20I	23	13-23	X	-	-	X
OU2MW-20I2	45	35-45	-	-	-	X
OU2MW-20D	70	65-70	-	-	-	X
OU2MW-21S	15	5-15	-	-	-	X
OU2MW-21I	23	13-23	-	-	-	X
OU2MW-21I2	45	35-45	-	-	-	X
OU2MW-22S	15	5-15	-	-	-	X
OU2MW-22I	30	25-30	X	X	-	X
OU2MW-22I2	51	46-51	-	-	-	X
OU2MW-22D	72	67-72	-	-	-	X
OU2MW-23S	15	5-15	-	-	-	X
OU2MW-23I	30	25-30	-	-	-	X
OU2MW-23I2	50	45-50	X	X	X	X

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2013	Q4 2013	Q1 2014	Q2 2014
OU2MW-23D	70	65-70	X	-	-	X
OU2MW-24S	15	5-15	-	-	-	X
OU2MW-24I	30	25-30	-	-	-	X
OU2MW-24I2	50	45-50	X	X	X	X
OU2MW-24D	67	62-67	X	-	X	X
OU2MW-25S	15	5-15	-	-	-	X
OU2MW-25I	30	25-30	X	X	X	X
OU2MW-25I2	50	45-50	-	-	-	X
OU2MW-25D	75	70-75	-	-	-	X
OU2MW-26S	11	6-11	-	-	-	X
OU2MW-26I	23	13-23	-	-	-	X
OU2MW-26I2	45	35-45	-	-	-	X
OU2MW-26D	70	60-70	X	X	X	X
OU2MW-27S	15	5-15	-	-	-	X
OU2MW-27I	30	25-30	-	-	-	X
OU2MW-27I2	50	45-50	-	-	-	X
OU2MW-27D	70	65-70	X	X	X	X
OU2MW-28S	15	5-15	-	-	-	X
OU2MW-28I	33	28-33	-	-	-	X
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
OU2MW-31I2	35	30-35	-	-	-	X
OU2MW-32S	15	5-15	-	-	-	X
OU2MW-32I	25	20-25	-	-	-	X
OU2MW-32I2	35	30-35	X	X	X	X
OU2MW-32D	45	40-45	X	X	X	X
OU2MW-33S	15	5-15	-	-	-	X
OU2MW-33I	30	25-30	-	-	-	X
OU2MW-33I2	40	35-40	-	-	-	X
OU2MW-33D	55	50-55	-	X	-	X
OU2MW-34S	15	5-15	-	-	-	X
OU2MW-34I	30	25-30	X	X	X	X
OU2MW-34I2	50	45-50	X	X	X	X

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2013	Q4 2013	Q1 2014	Q2 2014
OU2MW-35S	15	5-15	-	-	-	X
OU2MW-35I	30	25-30	-	-	-	X
OU2MW-35I2	50	45-50	-	-	-	X
OU2MW-35D	62	57-62	X	X	X	X
OU2MW-36S	15	5-15	-	-	-	X
OU2MW-36I	30	25-30	-	-	-	X
OU2MW-36I2	50	45-50	-	-	-	X
OU2MW-36D	66	61-66	X	-	X	X
OU2MW-37S	15	5-15	-	-	-	X
OU2MW-37I	30	25-30	-	-	-	X
OU2MW-37I2	50	45-50	-	-	-	X
OU2MW-37D	72	67-72	X	-	-	X
OU2MW-38S	15	5-15	-	-	-	X
OU2MW-38I	30	25-30	-	-	-	X
OU2MW-38I2	51	46-51	X	X	-	X
OU2MW-38D	61	56-61	X	-	-	X
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
OU2MW-41S	15	5-15	-	-	-	X
OU2MW-41I	23	18-23	X	X	X	X
OU2MW-42S	15	5-15	-	-	-	X
OU2MW-42I	30	25-30	-	-	-	X
OU2MW-42I2	50	45-50	-	X	X	X
OU2MW-42D	65	60-65	X	X	X	X
OU2MW-43S	15	5-15	-	-	-	X
OU2MW-43I	30	25-30	-	-	-	X
OU2MW-43I2	50	45-50	X	X	X	X
OU2MW-43D	70	65-70	X	X	X	X
OU2MW-44S	15	5-15	-	-	-	X
OU2MW-44I	30	25-30	-	-	-	X
OU2MW-44I2	50	45-50	-	-	-	X
OU2MW-44D	70	65-70	-	-	-	X
OU2MW-45S	15	5-15	-	-	-	X
OU2MW-45I	25	20-25	-	-	-	X
OU2MW-45I2	45	40-45	-	-	-	X
OU2MW-45D	60	55-60	-	-	-	X
OU2MW-46S	15	5-15	-	-	-	X
OU2MW-46I	25	20-25	-	-	-	X

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2013	Q4 2013	Q1 2014	Q2 2014
OU2MW-46I2	45	40-45	-	-	-	X
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	-	-	-	X
OU2MW-52I	25	20-25	-	-	-	X
OU2MW-52D	40	35-40	-	-	-	X
OU2MW-53S	8	3-8	-	-	-	X
OU2MW-53I	25	20-25	-	-	-	X
OU2MW-53D	40	35-40	-	-	-	X
OU2MW-54S	15	5-15	-	-	-	X
OU2MW-54I	30	25-30	-	-	-	X
OU2MW-54I2	45	40-45	-	-	-	X
OU2MW-54D	65	60-65	-	-	-	X
OU2MW-55S	15	5-15	X	X	X	X
OU2MW-55I	35	30-35	X	X	X	X
OU2MW-55I2	55	50-55	X	X	X	X
OU2MW-55D	70	65-70	X	X	X	X
OU2MW-56S	15	5-15	-	-	-	X
OU2MW-56I	30	25-30	-	-	-	X
OU2MW-56I2	50	45-50	-	-	-	X
OU2MW-56D	70	65-70	-	-	-	X
OU2MW-58S	17	5-15	-	-	-	X
OU2MW-58I	32	25-30	-	-	-	X
			77	72	70	223
OU-3 Monitoring Wells						
BBMW-09S	15	5-15	-	-	-	-
BBMW-09I	40	30-40	-	-	-	-
BBMW-09D	72	62-72	-	-	-	-
BBMW-28S	12	2-12	X	X	X	X
BBMW-28I	20	10-20	X	X	X	X
BBMW-29	9	2-9	X	X	X	X
BBMW-30S	10	2-10	-	-	-	X
BBMW-30I	19	14-19	-	-	-	X
BBMW-30D	35	30-35	-	-	-	X
BBMW-31S	10	2-10	X	X	X	X
BBMW-31I	19	14-19	X	X	X	X
BBMW-31D	35	30-35	X	X	X	X
BBMW-32S	10	2-10	-	-	-	X
BBMW-32I	19	14-19	-	-	-	X
BBMW-32D	35	30-35	-	-	-	X

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2013	Q4 2013	Q1 2014	Q2 2014
BBMW-33	12	7-12	X	X	X	X
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	X	X	X	X
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	X	-	X	X
MW-12W	10	25-30	X	X	X	X
MW-13W	10	2-10	X	X	X	X
MW-29S	10	5-10	E	-	-	E
MW-29D	19	14-19	E	-	-	E
MW-30W-R	9	2-9	X	X	X	X
MW-32WR	9	2-9	X	X	X	X
MW-33W			-	-	-	-
MW-34S	10	2-10	X	X	X	X
MW-34I	19.5	18.5-19.5	X	X	X	X
MW-34D	28.5	27.5-28.5	X	X	X	X
MW-34DD	40	unknown	X	X	X	X
MW-37W	10	2-10	X	X	X	X
MW-39W	10	2-10	X	X	X	X
MW-45W	10	2-10	X	X	X	X
MW-46W-R	10	2-10	X	X	X	X
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	-	X	X	X
MW-66D	29	24-29	-	X	X	X
MW-67S	12	2.5 - 12.5	-	X	X	X
MW-67D	28.5	24 - 29	-	X	X	X
MW-68S	19.5	unknown	X	X	X	X
MW-68D	30	25.0-30.0	X	X	X	X
MW-70/70S	12	2-12	X	X	X	X
MW-73	12	2-12	X	X	X	X
MW-73I	27	22-27	X	X	X	X
MW-75	12	2-12	X	X	X	X
MW-75I	27	22-27	X	X	X	X

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2013	Q4 2013	Q1 2014	Q2 2014
MW-76	12	2-12	X	X	X	X
MW-78	20	5-20	X	X	X	X
MW-79	20	5-20	X	X	X	X
MW-80	20	5-20	X	X	X	X
MW-81	20	5-20	X	X	X	X
MW-82	20	5-20	X	X	X	X
MW-83	20	5-20	X	X	X	X
MW-BS-01S	unknown		-	-	-	-
MW-BS-02S	15	5-15	X	X	X	X
MW-BS-02I	15.5	14.5-15.5	X	X	X	X
MW-BS-02D	25.5	24.5-25.5	X	X	X	X
OU3MW-01S	13	3-13	X	X	X	X
OU3MW-02S	13	3-13	X	X	X	X
OU3MW-02I	20	15-20	X	X	X	X
OU3MW-03S	11	1-11	X	X	X	X
OU3MW-03I	25	20-25	X	X	X	X
OU3MW-04S	11	1-11	X	X	X	X
OU3MW-04I	21	16-21	X	X	X	X
OU3MW-04D	31	26-31	X	X	X	X
OU3MW-04D2	36	31-36	X	X	X	X
OU3MW-04D3	46	41-46	X	X	X	X
OU3MW-05S	12	2-12	X	X	X	X
OU3MW-05I	20	15-20	X	X	X	X
OU3MW-06	13	3-13	X	X	X	X
OU3MW-07S	13	3-13	X	X	X	X
OU3MW-07I	20	15-20	X	X	X	X
OU3MW-07I2	25	20-25	X	X	X	X
OU3MW-07I3	30	25-30	X	X	X	X
OU3MW-07I4	40	30-35	X	X	X	X
OU3MW-08S	12	2-12	X	X	X	X
OU3MW-08I	30	25-30	-	-	-	X
OU3MW-09S	12	2-12	X	X	X	X
OU3MW-09I	30	25-30	X	X	X	X
OU3MW-09I2	40	35-40	X	X	X	X
OU3MW-10S	12	2-12	X	X	X	X
OU3MW-10I	30	25-30	X	X	X	X
OU3MW-11S	12	2-12	-	-	-	X
OU3MW-11I	30	25-30	-	-	-	X
OU3MW-12S	12	2-12	-	-	-	X
OU3MW-12I	30	25-30	-	-	-	X
OU3MW-13S	12	2-12	X	X	X	X
OU3MW-14S	12	2-12	X	X	X	X

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2013	Q4 2013	Q1 2014	Q2 2014
OU3MW-15S	12	2-12	X	X	X	X
OU3MW-16S	12	2-12	X	X	X	X
OU3MW-17S	12	2-12	X	X	X	X
OU3MW-17I	20	15-20	X	X	X	X
OU3MW-17I2	30	25-30	X	X	X	X
OU3MW-18I	20	15-20	X	X	X	X
OU3MW-18I2	30	25-30	X	X	X	X
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	X	X	X	X
OU3MW-21I	20	15-20	X	X	X	X
OU3MW-21I2	30	25-30	X	X	X	X
PDMW-01	20	5-20	-	-	-	X
SV-02	12	2-12	X	X	X	X
SV-02I	27	22-27	X	X	X	X
SV-02I2	40	35-40	X	X	X	X
SV-03	12	2-12	X	X	X	X
			86	89	90	102
OU-4 Monitoring Wells						
WCMW-02S	13	3-13	X	X	X	X
WCMW-02I	43.5	34.5-43.5	-	-	-	X
WCMW-02D	72	62-72	-	-	-	X
WCMW-04S	11.6	1.6-11.6	-	-	-	X
WCMW-04I	24	19-24	X	X	X	X
WCMW-04I2	34.85	29.85-34.85	X	X	X	X
WCMW-05S	11.15	1.15-11.15	X	X	X	X
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	-	-	-	X
WCMW-06I	24.55	19.55-24.55	-	-	-	X
WCMW-06I2	34.83	29.83-34.83	-	-	-	X
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	-	-	-	X
WCMW-08I	24.2	19.2-24.2	-	-	-	X
WCMW-08I2	31.9	26.9-31.9	-	-	-	X
WCMW-10S	20	15-20	-	X	-	X

Sample Location Designation	Total Depth (ft bgs)	Well Screen Interval (ft bgs)	Q3 2013	Q4 2013	Q1 2014	Q2 2014
WCMW-10D	50	40-50	-	X	-	X
WCMW-11S	15	5-15	X	X	X	X
WCMW-11I	35	25-35	X	X	X	X
WCMW-11D	60	50-60	-	-	-	X
WCMW-12S	13	3-13	-	-	-	X
WCMW-12I	30	25-30	-	-	-	X
WCMW-12D	72	67-72	-	-	-	X
WCMW-13S	13	3-13	X	X	X	X
WCMW-13I	30	25-30	-	-	-	X
WCMW-13D	70	65-70	-	-	-	X
WCMW-14S	12	2-12	X	X	X	X
WCMW-14I	25	20-25	X	X	X	X
WCMW-14I2	35	30-35	-	-	-	X
WCMW-14D	72	67-72	-	-	-	X
WCMW-19S	12	2-12	-	-	-	X
WCMW-19I	25	20-25	-	-	-	X
WCMW-19I2	35	30-35	-	-	-	X
WCMW-22S	12	2-12	-	-	-	X
WCMW-22I	30	25-30	-	-	-	X
WCMW-23S	12	2-12	-	-	-	X
WCMW-23I	30	25-30	-	-	-	X
WCMW-25I	35	30-35	-	-	-	X
WCMW-25D	60	55-60	-	-	-	X
WCMW-26S	12	2-12	X	X	X	X
WCMW-26I	25	20-25	X	X	X	X
WCMW-26I2	35	30-35	-	-	-	X
WCMW-29S	25	2-12	X	X	X	X
WCMW-29I	25	20-25	-	X	X	X
WCMW-30S	12	2-12	-	-	-	X
WCMW-30I	25	20-25	X	X	X	X
WCMW-30I2	35	30-35	X	X	X	X
WCMW-31S	12	2-12	X	X	X	X
WCMW-31I	25	20-25	-	-	-	X
WCMW-31I2	35	30-35	-	-	-	X
WCMW-32S	12	2-12	X	X	X	X
TOTALS			18	21	19	51
			248	**250**	**256**	**484**

-*: Not sampled due to measureble levels of NAPL

Appendix B

	Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
	Sample Name	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC
	Sample Date	7/30/2013	7/30/2013	8/21/2013	8/21/2013	9/29/2013	9/29/2013	10/29/2013	10/29/2013	11/26/2013	11/26/2013	12/28/2013	
	Units	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	
Analyte	**NYSDOH Background Outdoor Air 95th Percentile[1]**												
BTEX													
Benzene	5.8	**0.179 J**	**0.000056 J**	0.639 U	0.0002 U	**0.182 J**	**0.000057 J**	**0.310 J**	**0.000097 J**	**0.252 J**	**0.0000789 J**	**0.342 J**	
Toluene	21	**0.908**	**0.000241**	**0.573 J**	**0.000152 J**	**0.675 J**	**0.000179 J**	**1.10**	**0.000292**	**0.452 J**	**0.00012 J**	**0.701 J**	
Ethylbenzene	1.9	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	**0.261 J**	**0.0000601 J**	0.869 U	0.0002 U	**0.278 J**	
o-Xylene	2.5	0.869 U	0.0002 U	**0.330 J**	**0.000076 J**	**0.369 J**	**0.000085 J**	**0.547 J**	**0.000126 J**	0.869 U	0.0002 U	**0.430 J**	
m/p-Xylene	3.1	1.74 U	0.000401 U	**0.639 J**	**0.000147 J**	**0.808 J**	**0.000186 J**	**0.990 J**	**0.000228 J**	1.74 U	0.000401 U	**0.977 J**	
Total BTEX (ND=0)	NE		**0.000297**		**0.000375**		**0.000507**		**0.0008031**		**0.0001989**		
Other VOCs													
Acetaldehyde	NE	**7.64**	**0.00424**	**6.11**	**0.00339**	**7.64**	**0.00424**	**9.66**	**0.00536**	**2.38 J**	**0.00132 J**	**6.92**	
Acetone	58	**11.1**	**0.00467**	**9.95**	**0.00419**	**10.6**	**0.00446**	**5.99**	**0.00252**	**3.52**	**0.00148**	**7.32**	
Acrolein (propenal)	NE	**0.312 J**	**0.000136 J**	**0.319 J**	**0.000139 J**	**0.360 J**	**0.000157 J**	**0.337 J**	**0.000147 J**	1.15 U	0.000502 U	**0.296 J**	
Allyl chloride (3-Chloropropene)	NE	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	
Benzothiophene (1-Benzothiophene)	NE	2.74 U	0.000499 U	2.74 UJ	0.000499 UJ	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	
Bromodichloromethane	NE	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	
Bromoform	NE	2.07 U	0.0002 U	2.07 UJ	0.0002 UJ	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	
Bromomethane	0.9	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	
1,3-Butadiene	NE	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	
Butane	NE	**0.554**	**0.000233**	**0.395 J**	**0.000166 J**	**0.975**	**0.00041**	**1.84**	**0.000774**	**1.25**	**0.000526**	**1.36**	
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	
Carbon disulfide	NE	**1.24**	**0.000398**	**1.93**	**0.00062**	**0.452 J**	**0.000145 J**	**0.193 J**	**0.000062 J**	0.623 U	0.0002 U	**0.134 J**	
Carbon tetrachloride	1	**0.302 J**	**0.000048 J**	**0.434 J**	**0.000069 J**	**0.403 J**	**0.000064 J**	**0.340 J**	**0.000054 J**	**0.409 J**	**0.000065 J**	1.26 U	
Chlorobenzene	0.25	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	
Chloroethane	0.4	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	
Chloroform	0.5	**0.327 J**	**0.000067 J**	**0.381 J**	**0.000078 J**	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	
Chloromethane	4.6	**0.946**	**0.000458**	**1.12**	**0.000542**	**1.13**	**0.000547**	**0.824**	**0.000399**	**0.779**	**0.000377**	**0.880**	
2-Chlorotoluene (o-Chlorotoluene)	NE	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	
Cryofluorane (Freon 114)	1.3	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	
Cyclohexane	3	0.688 U	0.0002 U	0.688 U	0.0002 U	**0.675 J**	**0.000196 J**	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	
n-Decane	3.6	**12.0**	**0.00206**	**0.384 J**	**0.000066 J**	**0.314 J**	**0.000054 J**	**0.710 J**	**0.000122 J**	1.16 U	0.000199 U	**1.32**	
Dibromochloromethane	NE	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	
1,2-Dibromoethane (EDB)	0.25	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	
1,2-Dichlorobenzene	0.9	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	
1,3-Dichlorobenzene	0.7	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	
1,4-Dichlorobenzene	0.8	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	
Dichlorodifluoromethane (Freon 12)	11	**1.98**	**0.0004**	**1.78**	**0.00036**	**2.61**	**0.000528**	**2.18**	**0.000441**	**2.44**	**0.000493**	**1.64**	
1,1-Dichloroethane	0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	
1,2-Dichloroethane	0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	
1,1-Dichloroethene	0.25	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	
cis-1,2-Dichloroethene	0.25	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	
trans-1,2-Dichloroethene	NE	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	
1,2-Dichloropropane	0.25	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	
cis-1,3-Dichloropropene	0.25	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	
trans-1,3-Dichloropropene	0.25	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	
1,4-Dioxane	NE	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	
n-Dodecane	7.6	**12.2**	**0.00175**	**1.22 J**	**0.000175 J**	**0.578 J**	**0.000083 J**	**0.885 J**	**0.000127 J**	**0.404 J**	**0.000058 J**	**2.20**	
Ethanol	220	**5.78**	**0.00307**	**3.84**	**0.00204**	**3.15**	**0.00167**	**3.73**	**0.00198**	**2.05**	**0.00109**	**2.64**	
2-Ethylthiophene	NE	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	

	Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
	Sample Name	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC
	Sample Date	7/30/2013	7/30/2013	8/21/2013	8/21/2013	9/29/2013	9/29/2013	10/29/2013	10/29/2013	11/26/2013	11/26/2013	12/28/2013	
	Units	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	
Analyte	NYSDOH Background Outdoor Air 95th Percentile[1]												
4-Ethyltoluene (p-Ethyltoluene)	NE	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	
n-Heptane	5.1	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	**0.266 J**	**0.0000649 J**	0.820 U	0.0002 U	0.820 U	
Hexachlorobutadiene (C-46)	7	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	
n-Hexane	3.6	**0.409 J**	**0.000116 J**	0.705 U	0.0002 U	**0.342 J**	**0.000097 J**	**0.423 J**	**0.00012 J**	**0.215 J**	**0.000061 J**	**0.190 J**	
2-Hexanone	NE	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	
Indane	NE	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	
Indene	NE	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	
Methyl ethyl ketone (2-Butanone)	17	**1.91**	**0.000648**	**1.47**	**0.000498**	**0.947**	**0.000321**	**0.920**	**0.000312**	**0.389 J**	**0.000132 J**	**0.734**	
Methyl tert-butyl ether (MTBE)	5.9	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	
4-Methyl-2-pentanone (MIBK)	2.9	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	
Methylene chloride	2.9	**1.89 J**	**0.000544 J**	3.47 U	0.000999 U	**1.24 J**	**0.000357 J**	3.47 U	0.000999 U	3.47 U	0.000999 U	3.47 U	
1-Methylnaphthalene	NE	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	
2-Methylnaphthalene	NE	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	
2-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	
3-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	
Naphthalene	10	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	
n-Nonane	1.2	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	
n-Octane	2.1	**0.589 J**	**0.000126 J**	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	
Pentane	NE	**0.938**	**0.000318**	**0.702**	**0.000238**	**1.14**	**0.000386**	**1.25**	**0.000424**	**0.723**	**0.000245**	**0.626**	
2-Propanol (Isopropyl Alcohol)	NE	**0.457 J**	**0.000186 J**	1.23 U	0.0005 U	**0.359 J**	**0.000146 J**	1.23 U	0.0005 U	1.23 U	0.0005 U	1.23 U	
Styrene	0.6	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	
1,1,2,2-Tetrachloroethane	0.25	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	
Tetrachloroethene (PCE)	1.6	**0.583 J**	**0.0000859 J**	**1.17 J**	**0.000172 J**	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	
1,2,4,5-Tetramethylbenzene	NE	1.10 U	0.0002 U	2.74 UJ	0.000499 UJ	1.10 U	0.0002 U	1.10 U	0.0002 U	1.10 U	0.0002 U	1.10 U	
Thiophene	NE	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3.6	**0.514 J**	**0.0000671 J**	**0.812 J**	**0.000106 J**	**0.529 J**	**0.000069 J**	1.53 U	0.0002 U	**0.506 J**	**0.000066 J**	**0.445 J**	
1,2,4-Trichlorobenzene	4.8	1.48 U	0.000199 U	1.48 UJ	0.000199 UJ	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	
1,1,1-Trichloroethane (TCA)	0.7	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	
1,1,2-Trichloroethane	0.25	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	
Trichloroethene (TCE)	0.5	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	
Trichlorofluoromethane (Freon 11)	6.1	**1.20**	**0.000214**	**2.05**	**0.000365**	**1.53**	**0.000272**	**1.17**	**0.000208**	**1.29**	**0.00023**	**1.24**	
1,2,3-Trimethylbenzene	0.6	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	
1,2,4-Trimethylbenzene	2.5	0.983 U	0.0002 U	**0.487 J**	**0.0000991 J**	**0.536 J**	**0.000109 J**	**0.482 J**	**0.0000981 J**	0.983 U	0.0002 U	**0.511 J**	
1,3,5-Trimethylbenzene	1	**0.300 J**	**0.000061 J**	**0.349 J**	**0.000071 J**	**0.379 J**	**0.0000771 J**	**0.580 J**	**0.000118 J**	0.983 U	0.0002 U	0.983 U	
2,2,4-Trimethylpentane (iso-Octane)	2	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	
n-Undecane	2.3	1.28 U	0.0002 U	**0.377 J**	**0.000059 J**	1.28 U	0.0002 U	1.28 U	0.0002 U	1.28 U	0.0002 U	**0.601 J**	
Vinyl bromide (Bromoethene)	NE	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	
Vinyl chloride	0.25	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	
Total VOCs (ND=0)	NE		**0.02019**		**0.01382**		**0.0149**		**0.01413**		**0.006342**		

	Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
	Sample Name	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC
	Sample Date	12/28/2013	1/20/2014	1/20/2014	2/28/2014	2/28/2014	3/24/2014	3/24/2014	4/22/2014	4/22/2014	5/19/2014	5/19/2014	
	Units	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	
Analyte	**NYSDOH Background Outdoor Air 95th Percentile[1]**												
BTEX													
Benzene	5.8	**0.000107 J**	**0.460 J**	**0.000144 J**	**0.377 J**	**0.000118 J**	**0.284 J**	**0.0000889 J**	**0.201 J**	**0.0000629 J**	0.639 U	0.0002 U	
Toluene	21	**0.000186 J**	**0.795**	**0.000211**	**0.464 J**	**0.000123 J**	**0.426 J**	**0.000113 J**	**0.479 J**	**0.000127 J**	**0.769**	**0.000204**	
Ethylbenzene	1.9	**0.000064 J**	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	
o-Xylene	2.5	**0.000099 J**	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	
m/p-Xylene	3.1	**0.000225 J**	1.74 U	0.000401 U	1.74 U	0.000401 U	1.74 U	0.000401 U	1.74 U	0.000401 U	1.74 U	0.000401 U	
Total BTEX (ND=0)	NE	**0.000681**		**0.000355**		**0.000241**		**0.0002019**		**0.0001899**		**0.000204**	
Other VOCs													
Acetaldehyde	NE	**0.00384**	4.50 U	0.0025 U	**3.10 J**	**0.00172 J**	**5.37**	**0.00298**	**15.6**	**0.00866**	**7.37**	**0.00409**	
Acetone	58	**0.00308**	**7.06**	**0.00297**	**3.92**	**0.00165**	**4.85**	**0.00204**	**10.7**	**0.0045**	**6.53**	**0.00275**	
Acrolein (propenal)	NE	**0.000129 J**	1.15 U	0.000502 U	1.15 U	0.000502 U	1.15 U	0.000502 U	**0.351 J**	**0.000153 J**	1.15 U	0.000502 U	
Allyl chloride (3-Chloropropene)	NE	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	
Benzothiophene (1-Benzothiophene)	NE	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	
Bromodichloromethane	NE	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	
Bromoform	NE	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	
Bromomethane	0.9	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	
1,3-Butadiene	NE	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	
Butane	NE	**0.000572**	**2.32**	**0.000976**	**0.858**	**0.000361**	**1.12**	**0.000471**	**1.41**	**0.000593**	**0.321 J**	**0.000135 J**	
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	**0.230 J**	**0.0000759 J**	**0.221 J**	**0.0000729 J**	
Carbon disulfide	NE	**0.000043 J**	0.623 U	0.0002 U	0.623 U	0.0002 U	0.623 U	0.0002 U	**0.480 JB**	**0.000154 JB**	**0.536 J**	**0.000172 J**	
Carbon tetrachloride	1	0.0002 U	**0.403 J**	**0.000064 J**	**0.396 J**	**0.0000629 J**	**0.377 J**	**0.0000599 J**	**0.465 J**	**0.0000739 J**	**0.447 J**	**0.000071 J**	
Chlorobenzene	0.25	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	
Chloroethane	0.4	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	
Chloroform	0.5	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	
Chloromethane	4.6	**0.000426**	**0.677**	**0.000328**	**0.762**	**0.000369**	**0.756**	**0.000366**	**1.47**	**0.000712**	**0.717**	**0.000347**	
2-Chlorotoluene (o-Chlorotoluene)	NE	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	
Cryofluorane (Freon 114)	1.3	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	
Cyclohexane	3	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	
n-Decane	3.6	**0.000227**	1.16 U	0.000199 U	1.16 U	0.000199 U	**1.54**	**0.000265**	1.16 U	0.000199 U	**1.84**	**0.000316**	
Dibromochloromethane	NE	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	
1,2-Dibromoethane (EDB)	0.25	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	
1,2-Dichlorobenzene	0.9	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	
1,3-Dichlorobenzene	0.7	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	
1,4-Dichlorobenzene	0.8	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	
Dichlorodifluoromethane (Freon 12)	11	**0.000332**	**2.17**	**0.000439**	**1.48**	**0.000299**	**1.39**	**0.000281**	**1.32**	**0.000267**	**1.82 J**	**0.000368 J**	
1,1-Dichloroethane	0.25	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	
1,2-Dichloroethane	0.25	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	
1,1-Dichloroethene	0.25	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	
cis-1,2-Dichloroethene	0.25	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	
trans-1,2-Dichloroethene	NE	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	
1,2-Dichloropropane	0.25	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	
cis-1,3-Dichloropropene	0.25	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	
trans-1,3-Dichloropropene	0.25	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	
1,4-Dioxane	NE	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	
n-Dodecane	7.6	**0.000316**	**0.341 J**	**0.0000489 J**	3.48 U	0.0005 U	**10.7 J**	**0.00154 J**	**0.411 J**	**0.000059 J**	**2.33 J**	**0.000334 J**	
Ethanol	220	**0.0014**	**3.69**	**0.00196**	**2.22**	**0.00118**	**4.45**	**0.00236**	**10.7**	**0.00568**	**5.37**	**0.00285**	
2-Ethylthiophene	NE	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	

	Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
	Sample Name	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC	OZ-PREGAC
	Sample Date	12/28/2013	1/20/2014	1/20/2014	2/28/2014	2/28/2014	3/24/2014	3/24/2014	4/22/2014	4/22/2014	5/19/2014	5/19/2014	
	Units	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	
Analyte	NYSDOH Background Outdoor Air 95th Percentile[1]												
4-Ethyltoluene (p-Ethyltoluene)	NE	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	
n-Heptane	5.1	0.0002 U	**0.291 J**	**0.000071 J**	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	
Hexachlorobutadiene (C-46)	7	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	
n-Hexane	3.6	**0.0000539 J**	**0.374 J**	**0.000106 J**	0.705 U	0.0002 U	**0.243 J**	**0.0000689 J**	**0.208 J**	**0.000059 J**	0.705 U	0.0002 U	
2-Hexanone	NE	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	
Indane	NE	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	
Indene	NE	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	
Methyl ethyl ketone (2-Butanone)	17	**0.000249**	**0.796**	**0.00027**	**0.711**	**0.000241**	**0.557 J**	**0.000189 J**	**1.01**	**0.000343**	**1.05**	**0.000356**	
Methyl tert-butyl ether (MTBE)	5.9	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	
4-Methyl-2-pentanone (MIBK)	2.9	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	
Methylene chloride	2.9	0.000999 U	3.47 U	0.000999 U	3.47 U	0.000999 U	3.47 U	0.000999 U	3.47 U	0.000999 U	**1.15 J**	**0.000331 J**	
1-Methylnaphthalene	NE	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	
2-Methylnaphthalene	NE	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	
2-Methylthiophene	NE	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	
3-Methylthiophene	NE	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	
Naphthalene	10	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	
n-Nonane	1.2	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	
n-Octane	2.1	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	**0.729 J**	**0.000156 J**	
Pentane	NE	**0.000212**	**1.02**	**0.000346**	**0.449 J**	**0.000152 J**	**0.726**	**0.000246**	**1.18**	**0.0004**	**0.629**	**0.000213**	
2-Propanol (Isopropyl Alcohol)	NE	0.0005 U	**0.573 J**	**0.000233 J**	**0.393 J**	**0.00016 J**	**0.261 J**	**0.000106 J**	**0.430 JB**	**0.000175 JB**	**0.622 J**	**0.000253 J**	
Styrene	0.6	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	
1,1,2,2-Tetrachloroethane	0.25	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	
Tetrachloroethene (PCE)	1.6	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	
1,2,4,5-Tetramethylbenzene	NE	0.0002 U	1.10 U	0.0002 U	2.74 U	0.000499 U	2.74 U	0.000499 U	1.10 U	0.0002 U	2.74 U	0.000499 U	
Thiophene	NE	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3.6	**0.0000581 J**	**0.429 J**	**0.000056 J**	**0.429 J**	**0.000056 J**	**0.483 J**	**0.000063 J**	**0.552 J**	**0.000072 J**	**0.537 J**	**0.0000701 J**	
1,2,4-Trichlorobenzene	4.8	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	
1,1,1-Trichloroethane (TCA)	0.7	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	
1,1,2-Trichloroethane	0.25	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	
Trichloroethene (TCE)	0.5	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	
Trichlorofluoromethane (Freon 11)	6.1	**0.000221**	**1.13**	**0.000201**	**0.995 J**	**0.000177 J**	**1.18**	**0.00021**	**1.84**	**0.000327**	**1.14**	**0.000203**	
1,2,3-Trimethylbenzene	0.6	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	
1,2,4-Trimethylbenzene	2.5	**0.000104 J**	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	
1,3,5-Trimethylbenzene	1	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	
2,2,4-Trimethylpentane (iso-Octane)	2	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	
n-Undecane	2.3	**0.000094 J**	1.28 U	0.0002 U	1.28 U	0.0002 U	**1.66**	**0.00026**	1.28 U	0.0002 U	**0.607 J**	**0.0000949 J**	
Vinyl bromide (Bromoethene)	NE	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	
Vinyl chloride	0.25	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	
Total VOCs (ND=0)	NE	**0.01204**		**0.0084239**		**0.0066689**		**0.0117077**		**0.02249**		**0.01339**	

	Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
	Sample Name	OZ-PREGAC	OZ-PREGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC
	Sample Date	6/25/2014	6/25/2014	7/30/2013	7/30/2013	8/21/2013	8/21/2013	9/29/2013	9/29/2013	10/29/2013	10/29/2013	11/26/2013	11/26/2013	12/28/2013
	Units	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3
Analyte	**NYSDOH Background Outdoor Air 95th Percentile[1]**														
BTEX															
Benzene	5.8	0.639 U	0.0002 U	0.639 U	0.0002 U	0.639 U	0.0002 U	0.639 U	0.0002 U	0.639 U	0.0002 U	0.639 U	0.0002 U	0.639 UJ
Toluene	21	**0.290 J**	**0.000077 J**	0.754 U	0.0002 U	0.754 U	0.0002 U	0.754 U	0.0002 U	**1.04**	**0.000276**	0.754 U	0.0002 U	**0.712 J**
Ethylbenzene	1.9	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	**0.265 J**	**0.000061 J**	0.869 U	0.0002 U	0.869 UJ
o-Xylene	2.5	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	**0.430 J**	**0.000099 J**	0.869 U	0.0002 U	0.869 UJ
m/p-Xylene	3.1	1.74 U	0.000401 U	1.74 U	0.000401 U	1.74 U	0.000401 U	1.74 U	0.000401 U	**0.964 J**	**0.000222 J**	1.74 U	0.000401 U	**0.617 J**
Total BTEX (ND=0)	NE		**0.000077**		ND		ND		ND		**0.000658**		ND	
Other VOCs															
Acetaldehyde	NE	**6.99**	**0.00388**	**7.28**	**0.00404**	**6.05**	**0.00336**	**6.23**	**0.00346**	**2.72 J**	**0.00151 J**	**4.54**	**0.00252**	**4.97 J**
Acetone	58	**5.68**	**0.00239**	**6.13**	**0.00258**	**14.6**	**0.00615**	**6.65**	**0.0028**	**3.02**	**0.00127**	**3.25**	**0.00137**	**5.82 J**
Acrolein (propenal)	NE	1.15 U	0.000502 U	1.15 U	0.000502 U	1.15 U	0.000502 U	1.15 U	0.000502 U	1.15 U	0.000502 U	1.15 U	0.000502 U	1.15 UJ
Allyl chloride (3-Chloropropene)	NE	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 UJ
Benzothiophene (1-Benzothiophene)	NE	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 UJ	0.000499 UJ	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 UJ
Bromodichloromethane	NE	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 UJ
Bromoform	NE	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 UJ	0.0002 UJ	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 UJ
Bromomethane	0.9	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 UJ
1,3-Butadiene	NE	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 UJ
Butane	NE	**0.176 J**	**0.000074 J**	**0.701**	**0.000295**	**1.26**	**0.00053**	**1.87**	**0.000787**	**1.93**	**0.000812**	**1.72**	**0.000724**	**2.31 J**
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	**0.197 J**	**0.000065 J**	0.606 U	0.0002 U	**0.631**	**0.000208**	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	**0.703 J**
Carbon disulfide	NE	**0.729 B**	**0.000234 B**	**0.121 J**	**0.0000389 J**	**0.473 J**	**0.000152 J**	0.623 U	0.0002 U	**0.128 J**	**0.0000411 J**	0.623 U	0.0002 U	0.623 UJ
Carbon tetrachloride	1	**0.522 J**	**0.000083 J**	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 UJ
Chlorobenzene	0.25	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 UJ
Chloroethane	0.4	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 UJ
Chloroform	0.5	**0.356 J**	**0.0000729 J**	0.977 U	0.0002 U	**0.264 J**	**0.0000541 J**	**0.317 J**	**0.0000649 J**	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 UJ
Chloromethane	4.6	**0.822**	**0.000398**	**0.890**	**0.000431**	**1.01**	**0.000489**	**0.907**	**0.000439**	**0.968**	**0.000469**	**0.783**	**0.000379**	**0.888 J**
2-Chlorotoluene (o-Chlorotoluene)	NE	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 UJ
Cryofluorane (Freon 114)	1.3	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 UJ
Cyclohexane	3	0.688 U	0.0002 U	0.688 U	0.0002 U	**0.344 J**	**0.0000999 J**	**0.620 J**	**0.00018 J**	0.688 U	0.0002 U	0.688 U	0.0002 U	**13.7 J**
n-Decane	3.6	1.16 U	0.000199 U	**5.10**	**0.000876**	1.16 U	0.000199 U	1.16 U	0.000199 U	**0.745 J**	**0.000128 J**	1.16 U	0.000199 U	**1.02 J**
Dibromochloromethane	NE	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 UJ
1,2-Dibromoethane (EDB)	0.25	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 UJ
1,2-Dichlorobenzene	0.9	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 UJ
1,3-Dichlorobenzene	0.7	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 UJ
1,4-Dichlorobenzene	0.8	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 UJ
Dichlorodifluoromethane (Freon 12)	11	**1.86**	**0.000376**	**1.98**	**0.0004**	**1.78**	**0.00036**	**2.82**	**0.00057**	**2.01**	**0.000406**	**2.86**	**0.000578**	**2.02 J**
1,1-Dichloroethane	0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 UJ
1,2-Dichloroethane	0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 UJ
1,1-Dichloroethene	0.25	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 UJ
cis-1,2-Dichloroethene	0.25	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 UJ
trans-1,2-Dichloroethene	NE	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 UJ
1,2-Dichloropropane	0.25	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 UJ
cis-1,3-Dichloropropene	0.25	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 UJ
trans-1,3-Dichloropropene	0.25	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 UJ
1,4-Dioxane	NE	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 UJ
n-Dodecane	7.6	**2.44**	**0.00035**	**9.89**	**0.00142**	3.48 U	0.0005 U	**1.02 J**	**0.000146 J**	**0.926 J**	**0.000133 J**	1.39 U	0.0002 U	**2.56 J**
Ethanol	220	**7.52**	**0.00399**	**3.99**	**0.00212**	**3.98**	**0.00211**	**4.97**	**0.00264**	**2.15**	**0.00114**	**1.73 J**	**0.000918 J**	**12.4 J**
2-Ethylthiophene	NE	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 UJ

	Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
	Sample Name	OZ-PREGAC	OZ-PREGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC
	Sample Date	6/25/2014	6/25/2014	7/30/2013	7/30/2013	8/21/2013	8/21/2013	9/29/2013	9/29/2013	10/29/2013	10/29/2013	11/26/2013	11/26/2013	12/28/2013
	Units	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3
Analyte	NYSDOH Background Outdoor Air 95th Percentile[1]													
4-Ethyltoluene (p-Ethyltoluene)	NE	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 UJ
n-Heptane	5.1	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	**0.287 J**	**0.00007 J**	0.820 U	0.0002 U	0.820 UJ
Hexachlorobutadiene (C-46)	7	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 UJ
n-Hexane	3.6	0.705 U	0.0002 U	**0.226 J**	**0.0000641 J**	**3.29**	**0.000934**	**0.328 J**	**0.0000931 J**	**0.412 J**	**0.000117 J**	0.705 U	0.0002 U	**0.250 J**
2-Hexanone	NE	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 UJ
Indane	NE	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 UJ
Indene	NE	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 UJ
Methyl ethyl ketone (2-Butanone)	17	**0.926**	**0.000314**	**0.460 J**	**0.000156 J**	**1.03**	**0.000349**	**0.286 J**	**0.000097 J**	**0.360 J**	**0.000122 J**	0.590 U	0.0002 U	**0.395 J**
Methyl tert-butyl ether (MTBE)	5.9	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 UJ
4-Methyl-2-pentanone (MIBK)	2.9	0.820 U	0.0002 U	**0.250 J**	**0.000061 J**	**0.266 J**	**0.0000649 J**	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 UJ
Methylene chloride	2.9	**1.50 J**	**0.000432 J**	**1.37 J**	**0.000394 J**	3.47 U	0.000999 U	**3.00 J**	**0.000864 J**	3.47 U	0.000999 U	3.47 U	0.000999 U	**7.64 J**
1-Methylnaphthalene	NE	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 UJ
2-Methylnaphthalene	NE	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 UJ
2-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 UJ
3-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 UJ
Naphthalene	10	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 UJ
n-Nonane	1.2	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 UJ
n-Octane	2.1	0.934 U	0.0002 U	**0.280 J**	**0.0000599 J**	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 UJ
Pentane	NE	**0.578 J**	**0.000196 J**	**1.16**	**0.000393**	**1.36**	**0.000461**	**0.915**	**0.00031**	**0.673**	**0.000228**	**0.487 J**	**0.000165 J**	**0.891 J**
2-Propanol (Isopropyl Alcohol)	NE	**0.445 J**	**0.000181 J**	**0.629 J**	**0.000256 J**	**0.774 J**	**0.000315 J**	**0.666 J**	**0.000271 J**	1.23 U	0.0005 U	1.23 U	0.0005 U	**1.84 J**
Styrene	0.6	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 UJ
1,1,2,2-Tetrachloroethane	0.25	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 UJ
Tetrachloroethene (PCE)	1.6	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 UJ
1,2,4,5-Tetramethylbenzene	NE	1.10 U	0.0002 U	1.10 U	0.0002 U	2.74 UJ	0.000499 UJ	1.10 U	0.0002 U	1.10 U	0.0002 U	1.10 U	0.0002 U	1.10 UJ
Thiophene	NE	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3.6	**0.644 J**	**0.000084 J**	**0.598 J**	**0.000078 J**	**0.766 J**	**0.0000999 J**	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 UJ
1,2,4-Trichlorobenzene	4.8	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 UJ	0.000199 UJ	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 UJ
1,1,1-Trichloroethane (TCA)	0.7	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 UJ
1,1,2-Trichloroethane	0.25	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 UJ
Trichloroethene (TCE)	0.5	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 UJ
Trichlorofluoromethane (Freon 11)	6.1	**1.56**	**0.000278**	**1.33**	**0.000237**	**2.01**	**0.000358**	**1.55**	**0.000276**	**0.809 J**	**0.000144 J**	**1.26**	**0.000224**	**1.46 J**
1,2,3-Trimethylbenzene	0.6	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 UJ
1,2,4-Trimethylbenzene	2.5	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	**0.772 J**	**0.000157 J**	0.983 U	0.0002 U	**0.688 J**
1,3,5-Trimethylbenzene	1	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 UJ
2,2,4-Trimethylpentane (iso-Octane)	2	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 UJ
n-Undecane	2.3	**0.620 J**	**0.000097 J**	1.28 U	0.0002 U	1.28 U	0.0002 U	1.28 U	0.0002 U	**0.774 J**	**0.000121 J**	1.28 U	0.0002 U	**3.32 J**
Vinyl bromide (Bromoethene)	NE	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 UJ
Vinyl chloride	0.25	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 UJ
Total VOCs (ND=0)	NE		**0.01357**		**0.0139**		**0.01609**		**0.013**		**0.007526**		**0.006878**	

	Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
	Sample Name	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC
	Sample Date	12/28/2013	1/20/2014	1/20/2014	2/28/2014	2/28/2014	3/24/2014	3/24/2014	4/22/2014	4/22/2014	5/19/2014	5/19/2014	6/25/2014	6/25/2014	
	Units	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	
Analyte	NYSDOH Background Outdoor Air 95th Percentile[1]														
BTEX															
Benzene	5.8	0.0002 UJ	0.639 U	0.0002 U	0.639 U	0.0002 U	0.639 U	0.0002 U	0.639 U	0.0002 U	0.639 U	0.0002 U	0.639 U	0.0002 U	
Toluene	21	**0.000189 J**	0.754 U	0.0002 U	0.754 U	0.0002 U	0.754 U	0.0002 U	**0.441 J**	**0.000117 J**	0.754 U	0.0002 U	0.754 U	0.0002 U	
Ethylbenzene	1.9	0.0002 UJ	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	
o-Xylene	2.5	0.0002 UJ	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	
m/p-Xylene	3.1	**0.000142 J**	1.74 U	0.000401 U	1.74 U	0.000401 U	1.74 U	0.000401 U	1.74 U	0.000401 U	1.74 U	0.000401 U	1.74 U	0.000401 U	
Total BTEX (ND=0)	NE	**0.000331**		ND		ND		ND		**0.000117**		ND		ND	
Other VOCs															
Acetaldehyde	NE	**0.00276 J**	4.50 U	0.0025 U	**2.70 J**	**0.0015 J**	**3.93 J**	**0.00218 J**	**8.92**	**0.00495**	**3.71 J**	**0.00206 J**	**7.80**	**0.00433**	
Acetone	58	**0.00245 J**	**4.89**	**0.00206**	**2.16 J**	**0.000909 J**	**1.71 J**	**0.00072 J**	**24.2**	**0.0102**	**5.53**	**0.00233**	**10.9**	**0.00459**	
Acrolein (propenal)	NE	0.000502 UJ	1.15 U	0.000502 U	1.15 U	0.000502 U	1.15 U	0.000502 U	**0.300 J**	**0.000131 J**	1.15 U	0.000502 U	1.15 U	0.000502 U	
Allyl chloride (3-Chloropropene)	NE	0.0002 UJ	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	
Benzothiophene (1-Benzothiophene)	NE	0.000499 UJ	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	
Bromodichloromethane	NE	0.0002 UJ	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	
Bromoform	NE	0.0002 UJ	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	
Bromomethane	0.9	0.0002 UJ	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	
1,3-Butadiene	NE	0.0002 UJ	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	
Butane	NE	**0.000972 J**	**3.38**	**0.00142**	**1.33**	**0.00056**	**1.73**	**0.000728**	**2.07**	**0.000871**	**0.630**	**0.000265**	**0.998**	**0.00042**	
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	**0.000232 J**	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	**0.315 J**	**0.000104 J**	**0.249 J**	**0.0000821 J**	**0.549 J**	**0.000181 J**	
Carbon disulfide	NE	0.0002 UJ	0.623 U	0.0002 U	0.623 U	0.0002 U	0.623 U	0.0002 U	**0.159 JB**	**0.0000511 JB**	**0.143 J**	**0.0000459 J**	**0.383 JB**	**0.000123 JB**	
Carbon tetrachloride	1	0.0002 UJ	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	
Chlorobenzene	0.25	0.0002 UJ	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	
Chloroethane	0.4	0.0002 UJ	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	
Chloroform	0.5	0.0002 UJ	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	**0.273 J**	**0.0000559 J**	0.977 U	0.0002 U	
Chloromethane	4.6	**0.00043 J**	**0.684**	**0.000331**	**0.779**	**0.000377**	**0.663**	**0.000321**	**1.27**	**0.000615**	**0.659**	**0.000319**	**0.766**	**0.000371**	
2-Chlorotoluene (o-Chlorotoluene)	NE	0.000201 UJ	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	
Cryofluorane (Freon 114)	1.3	0.0002 UJ	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	
Cyclohexane	3	**0.00398 J**	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	
n-Decane	3.6	**0.000175 J**	1.16 U	0.000199 U	**1.06 J**	**0.000182 J**	**1.02 J**	**0.000175 J**	1.16 U	0.000199 U	1.16 U	0.000199 U	1.16 U	0.000199 U	
Dibromochloromethane	NE	0.0002 UJ	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	
1,2-Dibromoethane (EDB)	0.25	0.0002 UJ	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	
1,2-Dichlorobenzene	0.9	0.0002 UJ	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	
1,3-Dichlorobenzene	0.7	0.0002 UJ	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	
1,4-Dichlorobenzene	0.8	0.0002 UJ	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	
Dichlorodifluoromethane (Freon 12)	11	**0.000408 J**	**1.85**	**0.000374**	**1.62**	**0.000328**	**2.66**	**0.000538**	**1.33**	**0.000269**	**2.34 J**	**0.000473 J**	**2.45**	**0.000495**	
1,1-Dichloroethane	0.25	0.0002 UJ	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	
1,2-Dichloroethane	0.25	0.0002 UJ	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	
1,1-Dichloroethene	0.25	0.0002 UJ	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	
cis-1,2-Dichloroethene	0.25	0.0002 UJ	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	**0.321 J**	**0.000081 J**	0.793 U	0.0002 U	
trans-1,2-Dichloroethene	NE	0.0002 UJ	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	
1,2-Dichloropropane	0.25	0.0002 UJ	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	
cis-1,3-Dichloropropene	0.25	0.0002 UJ	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	
trans-1,3-Dichloropropene	0.25	0.0002 UJ	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	
1,4-Dioxane	NE	0.0002 UJ	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	
n-Dodecane	7.6	**0.000367 J**	1.39 U	0.0002 U	**0.522 J**	**0.0000749 J**	**1.92 J**	**0.000276 J**	**0.627 J**	**0.00009 J**	**1.42 J**	**0.000204 J**	**2.96**	**0.000425**	
Ethanol	220	**0.00658 J**	**3.22**	**0.00171**	**2.90**	**0.00154**	**1.83 J**	**0.000971 J**	**5.37**	**0.00285**	**2.75**	**0.00146**	**4.77**	**0.00253**	
2-Ethylthiophene	NE	0.0002 UJ	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	

	Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
	Sample Name	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC	OZ-MGAC
	Sample Date	12/28/2013	1/20/2014	1/20/2014	2/28/2014	2/28/2014	3/24/2014	3/24/2014	4/22/2014	4/22/2014	5/19/2014	5/19/2014	6/25/2014	6/25/2014	6/25/2014
	Units	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ppmv
Analyte	**NYSDOH Background Outdoor Air 95th Percentile[1]**														
4-Ethyltoluene (p-Ethyltoluene)	NE	0.0002 UJ	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	
n-Heptane	5.1	0.0002 UJ	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	
Hexachlorobutadiene (C-46)	7	0.0002 UJ	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	
n-Hexane	3.6	**0.0000709 J**	0.705 U	0.0002 U	0.705 U	0.0002 U	0.705 U	0.0002 U	**0.402 J**	**0.000114 J**	**0.849**	**0.000241**	**1.64**	**0.000465**	
2-Hexanone	NE	0.0002 UJ	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	
Indane	NE	0.0002 UJ	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	
Indene	NE	0.0002 UJ	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	
Methyl ethyl ketone (2-Butanone)	17	**0.000134 J**	0.590 U	0.0002 U	0.590 U	0.0002 U	0.590 U	0.0002 U	**10.0**	**0.00339**	**0.413 J**	**0.00014 J**	**0.947**	**0.000321**	
Methyl tert-butyl ether (MTBE)	5.9	0.0002 UJ	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	
4-Methyl-2-pentanone (MIBK)	2.9	0.0002 UJ	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	
Methylene chloride	2.9	**0.0022 J**	3.47 U	0.000999 U	3.47 U	0.000999 U	3.47 U	0.000999 U	3.47 U	0.000999 U	**2.28 J**	**0.000656 J**	**1.39 J**	**0.0004 J**	
1-Methylnaphthalene	NE	0.001 UJ	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	
2-Methylnaphthalene	NE	0.001 UJ	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	
2-Methylthiophene	NE	0.0002 UJ	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	
3-Methylthiophene	NE	0.0002 UJ	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	
Naphthalene	10	0.0002 UJ	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	
n-Nonane	1.2	0.0002 UJ	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	
n-Octane	2.1	0.0002 UJ	0.934 U	0.0002 U	**0.481 J**	**0.000103 J**	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	
Pentane	NE	**0.000302 J**	**0.708**	**0.00024**	**0.307 J**	**0.000104 J**	**0.581 J**	**0.000197 J**	**0.416 J**	**0.000141 J**	**0.142 J**	**0.0000481 J**	**0.307 J**	**0.000104 J**	
2-Propanol (Isopropyl Alcohol)	NE	**0.000749 J**	**0.627 J**	**0.000255 J**	**0.499 J**	**0.000203 J**	**0.349 J**	**0.000142 J**	**1.30 B**	**0.000529 B**	**0.730 J**	**0.000297 J**	**0.659 J**	**0.000268 J**	
Styrene	0.6	0.0002 UJ	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	
1,1,2,2-Tetrachloroethane	0.25	0.0002 UJ	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	
Tetrachloroethene (PCE)	1.6	0.0002 UJ	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	
1,2,4,5-Tetramethylbenzene	NE	0.0002 UJ	1.10 U	0.0002 U	2.74 U	0.000499 U	2.74 U	0.000499 U	1.10 U	0.0002 U	2.74 U	0.000499 U	1.10 U	0.0002 U	
Thiophene	NE	0.0002 UJ	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3.6	0.0002 UJ	**0.544 J**	**0.000071 J**	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	**0.460 J**	**0.00006 J**	
1,2,4-Trichlorobenzene	4.8	0.000199 UJ	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	
1,1,1-Trichloroethane (TCA)	0.7	0.0002 UJ	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	
1,1,2-Trichloroethane	0.25	0.0002 UJ	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	
Trichloroethene (TCE)	0.5	0.000199 UJ	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	
Trichlorofluoromethane (Freon 11)	6.1	**0.00026 J**	**1.44**	**0.000256**	**0.652 J**	**0.000116 J**	**1.01 J**	**0.00018 J**	**2.02**	**0.00036**	**1.43**	**0.000255**	**1.69**	**0.000301**	
1,2,3-Trimethylbenzene	0.6	0.0002 UJ	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	
1,2,4-Trimethylbenzene	2.5	**0.00014 J**	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	
1,3,5-Trimethylbenzene	1	0.0002 UJ	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	
2,2,4-Trimethylpentane (iso-Octane)	2	0.0002 UJ	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	
n-Undecane	2.3	**0.000519 J**	1.28 U	0.0002 U	1.28 U	0.0002 U	**0.984 J**	**0.000154 J**	1.28 U	0.0002 U	**0.479 J**	**0.0000749 J**	**0.742 J**	**0.000116 J**	
Vinyl bromide (Bromoethene)	NE	0.0002 UJ	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	
Vinyl chloride	0.25	0.0002 UJ	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	
Total VOCs (ND=0)	NE	**0.02306**		**0.006717**		**0.0059969**		**0.006582**		**0.02478**		**0.009088**		**0.0155**	

	Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
	Sample Name	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK
	Sample Date	7/30/2013	7/30/2013	8/21/2013	8/21/2013	9/29/2013	9/29/2013	10/29/2013	10/29/2013	11/26/2013	11/26/2013	12/28/2013	12/28/2013	
	Units	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	
Analyte	**NYSDOH Background Outdoor Air 95th Percentile[1]**													
BTEX														
Benzene	5.8	**0.252 J**	**0.0000789 J**	0.639 U	0.0002 U	0.639 U	0.0002 U	0.639 U	0.0002 U	0.639 U	0.0002 U	**0.367 J**	**0.000115 J**	
Toluene	21	**1.60**	**0.000425**	**0.535 J**	**0.000142 J**	**0.916**	**0.000243**	0.754 U	0.0002 U	**0.452 J**	**0.00012 J**	**1.40**	**0.000372**	
Ethylbenzene	1.9	**0.460 J**	**0.000106 J**	0.869 U	0.0002 U	**0.313 J**	**0.0000721 J**	0.869 U	0.0002 U	0.869 U	0.0002 U	**0.417 J**	**0.000096 J**	
o-Xylene	2.5	**0.521 J**	**0.00012 J**	0.869 U	0.0002 U	**0.500 J**	**0.000115 J**	0.869 U	0.0002 U	0.869 U	0.0002 U	**0.569 J**	**0.000131 J**	
m/p-Xylene	3.1	**1.26 J**	**0.00029 J**	**0.673 J**	**0.000155 J**	**1.04 J**	**0.00024 J**	1.74 U	0.000401 U	1.74 U	0.000401 U	**1.30 J**	**0.000299 J**	
Total BTEX (ND=0)	NE		**0.00102**		**0.000297**		**0.0006701**		ND		**0.00012**		**0.001013**	
Other VOCs														
Acetaldehyde	NE	**52.6**	**0.0292**	**14.8**	**0.00821**	**5.66**	**0.00314**	**4.99**	**0.00277**	4.50 U	0.0025 U	**4.23 J**	**0.00235 J**	
Acetone	58	**20.5**	**0.00863**	**8.15**	**0.00343**	**4.80**	**0.00202**	**4.39**	**0.00185**	**1.80 J**	**0.000758 J**	**4.32**	**0.00182**	
Acrolein (propenal)	NE	**1.80**	**0.000785**	**0.986 J**	**0.00043 J**	1.15 U	0.000502 U	1.15 U	0.000502 U	1.15 U	0.000502 U	1.15 U	0.000502 U	
Allyl chloride (3-Chloropropene)	NE	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	
Benzothiophene (1-Benzothiophene)	NE	2.74 U	0.000499 U	2.74 UJ	0.000499 UJ	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	
Bromodichloromethane	NE	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	
Bromoform	NE	2.07 U	0.0002 U	2.07 UJ	0.0002 UJ	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	
Bromomethane	0.9	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	
1,3-Butadiene	NE	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	
Butane	NE	**1.28**	**0.000538**	**0.913**	**0.000384**	**0.884**	**0.000372**	**1.37**	**0.000576**	**1.26**	**0.00053**	**2.21**	**0.00093**	
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	**0.421 J**	**0.000139 J**	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	0.606 U	0.0002 U	
Carbon disulfide	NE	**4.73**	**0.00152**	**0.620 J**	**0.000199 J**	**0.346 J**	**0.000111 J**	**0.215 J**	**0.000069 J**	**0.174 J**	**0.0000559 J**	**0.174 J**	**0.0000559 J**	
Carbon tetrachloride	1	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	
Chlorobenzene	0.25	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	
Chloroethane	0.4	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	
Chloroform	0.5	**0.269 J**	**0.0000551 J**	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	
Chloromethane	4.6	**2.89**	**0.0014**	**1.27**	**0.000615**	**2.31**	**0.00112**	**0.717**	**0.000347**	**0.851**	**0.000412**	**0.880**	**0.000426**	
2-Chlorotoluene (o-Chlorotoluene)	NE	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	
Cryofluorane (Freon 114)	1.3	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	
Cyclohexane	3	0.688 U	0.0002 U	0.688 U	0.0002 U	**0.513 J**	**0.000149 J**	0.688 U	0.0002 U	0.688 U	0.0002 U	**0.324 J**	**0.0000941 J**	
n-Decane	3.6	**86.1**	**0.0148**	**0.378 J**	**0.000065 J**	**0.291 J**	**0.00005 J**	**1.12 J**	**0.000192 J**	1.16 U	0.000199 U	**0.355 J**	**0.000061 J**	
Dibromochloromethane	NE	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	
1,2-Dibromoethane (EDB)	0.25	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	
1,2-Dichlorobenzene	0.9	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	
1,3-Dichlorobenzene	0.7	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	
1,4-Dichlorobenzene	0.8	**0.415 J**	**0.000069 J**	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	
Dichlorodifluoromethane (Freon 12)	11	**1.89**	**0.000382**	**1.97**	**0.000398**	**3.02**	**0.000611**	**2.28**	**0.000461**	**3.13**	**0.000633**	**2.12**	**0.000429**	
1,1-Dichloroethane	0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	
1,2-Dichloroethane	0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	
1,1-Dichloroethene	0.25	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	
cis-1,2-Dichloroethene	0.25	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	
trans-1,2-Dichloroethene	NE	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	
1,2-Dichloropropane	0.25	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	
cis-1,3-Dichloropropene	0.25	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	
trans-1,3-Dichloropropene	0.25	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	
1,4-Dioxane	NE	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	
n-Dodecane	7.6	**33.5**	**0.00481**	**1.26 J**	**0.000181 J**	**0.536 J**	**0.0000769 J**	**1.86**	**0.000267**	1.39 U	0.0002 U	**0.801 J**	**0.000115 J**	
Ethanol	220	**25.4**	**0.0135**	**4.16**	**0.00221**	**2.30**	**0.00122**	**5.78**	**0.00307**	**1.14 J**	**0.000605 J**	**4.15**	**0.0022**	
2-Ethylthiophene	NE	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	

	Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
	Sample Name	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK
	Sample Date	7/30/2013	7/30/2013	8/21/2013	8/21/2013	9/29/2013	9/29/2013	10/29/2013	10/29/2013	11/26/2013	11/26/2013	12/28/2013	12/28/2013	
	Units	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	
Analyte	NYSDOH Background Outdoor Air 95th Percentile[1]													
4-Ethyltoluene (p-Ethyltoluene)	NE	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	
n-Heptane	5.1	**0.475 J**	**0.000116 J**	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	**0.283 J**	**0.0000691 J**	
Hexachlorobutadiene (C-46)	7	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	
n-Hexane	3.6	**0.737**	**0.000209**	0.705 U	0.0002 U	**0.261 J**	**0.0000741 J**	**0.331 J**	**0.0000939 J**	0.705 U	0.0002 U	0.705 U	0.0002 U	
2-Hexanone	NE	**0.254 J**	**0.000062 J**	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	
Indane	NE	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	
Indene	NE	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	
Methyl ethyl ketone (2-Butanone)	17	**2.63**	**0.000892**	**0.953**	**0.000323**	**0.460 J**	**0.000156 J**	**0.324 J**	**0.00011 J**	0.590 U	0.0002 U	**0.690**	**0.000234**	
Methyl tert-butyl ether (MTBE)	5.9	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	
4-Methyl-2-pentanone (MIBK)	2.9	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	
Methylene chloride	2.9	**1.28 J**	**0.000368 J**	3.47 U	0.000999 U	**1.75 J**	**0.000504 J**	3.47 U	0.000999 U	3.47 U	0.000999 U	3.47 U	0.000999 U	
1-Methylnaphthalene	NE	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	
2-Methylnaphthalene	NE	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	
2-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	
3-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	
Naphthalene	10	**0.404 J**	**0.0000771 J**	1.05 U	0.0002 U	**0.456 J**	**0.000087 J**	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	
n-Nonane	1.2	**0.661 J**	**0.000126 J**	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	
n-Octane	2.1	**6.49**	**0.00139**	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	
Pentane	NE	**0.720**	**0.000244**	**0.198 J**	**0.0000671 J**	**0.269 J**	**0.0000912 J**	**0.658**	**0.000223**	0.590 U	0.0002 U	0.590 U	0.0002 U	
2-Propanol (Isopropyl Alcohol)	NE	**0.806 J**	**0.000328 J**	1.23 U	0.0005 U	**1.04 J**	**0.000423 J**	1.23 U	0.0005 U	1.23 U	0.0005 U	1.23 U	0.0005 U	
Styrene	0.6	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	
1,1,2,2-Tetrachloroethane	0.25	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	
Tetrachloroethene (PCE)	1.6	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	
1,2,4,5-Tetramethylbenzene	NE	1.10 U	0.0002 U	2.74 UJ	0.000499 UJ	1.10 U	0.0002 U	1.10 U	0.0002 U	1.10 U	0.0002 U	1.10 U	0.0002 U	
Thiophene	NE	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3.6	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	
1,2,4-Trichlorobenzene	4.8	1.48 U	0.000199 U	1.48 UJ	0.000199 UJ	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	
1,1,1-Trichloroethane (TCA)	0.7	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	
1,1,2-Trichloroethane	0.25	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	
Trichloroethene (TCE)	0.5	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	
Trichlorofluoromethane (Freon 11)	6.1	**1.34**	**0.000239**	**2.43**	**0.000433**	**1.46**	**0.00026**	**0.989 J**	**0.000176 J**	**0.871 J**	**0.000155 J**	**1.16**	**0.000206**	
1,2,3-Trimethylbenzene	0.6	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	
1,2,4-Trimethylbenzene	2.5	**0.767 J**	**0.000156 J**	**0.379 J**	**0.0000771 J**	**0.659 J**	**0.000134 J**	0.983 U	0.0002 U	0.983 U	0.0002 U	**0.639 J**	**0.00013 J**	
1,3,5-Trimethylbenzene	1	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	
2,2,4-Trimethylpentane (iso-Octane)	2	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	**0.346 J**	**0.0000741 J**	
n-Undecane	2.3	**2.49**	**0.000389**	**0.543 J**	**0.0000849 J**	1.28 U	0.0002 U	1.28 U	0.0002 U	1.28 U	0.0002 U	**0.428 J**	**0.0000669 J**	
Vinyl bromide (Bromoethene)	NE	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	
Vinyl chloride	0.25	**0.128 J**	**0.0000501 J**	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	
Total VOCs (ND=0)	NE		**0.08149**		**0.0174**		**0.01127**		**0.0102**		**0.003269**		**0.01027**	

	Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
	Sample Name	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK
	Sample Date	1/20/2014	1/20/2014	2/28/2014	2/28/2014	3/24/2014	3/24/2014	4/22/2014	4/22/2014	5/19/2014	5/19/2014	6/25/2014	6/25/2014	
	Units	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	
Analyte	NYSDOH Background Outdoor Air 95th Percentile[1]													
BTEX														
Benzene	5.8	**0.300 J**	**0.0000939 J**	**0.358 J**	**0.000112 J**	**0.268 J**	**0.0000839 J**	0.639 U	0.0002 U	0.639 U	0.0002 U	**0.281 J**	**0.000088 J**	
Toluene	21	**0.84**	**0.000223**	**0.750 J**	**0.000199 J**	**1.25**	**0.000332**	**0.708 J**	**0.000188 J**	**0.535 J**	**0.000142 J**	**1.19**	**0.000316**	
Ethylbenzene	1.9	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	
o-Xylene	2.5	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	0.869 U	0.0002 U	**0.282 J**	**0.0000649 J**	0.869 U	0.0002 U	
m/p-Xylene	3.1	1.74 U	0.000401 U	1.74 U	0.000401 U	**0.712 J**	**0.000164 J**	1.74 U	0.000401 U	**0.773 J**	**0.000178 J**	1.74 U	0.000401 U	
Total BTEX (ND=0)	NE		**0.0003169**		**0.000311**		**0.0005799**		**0.000188**		**0.0003849**		**0.000404**	
Other VOCs														
Acetaldehyde	NE	4.50 U	0.0025 U	**4.63**	**0.00257**	**8.67**	**0.00481**	**14.1**	**0.00783**	**6.00**	**0.00333**	**11.4**	**0.00633**	
Acetone	58	**2.64**	**0.00111**	**4.11**	**0.00173**	**6.18**	**0.0026**	**13.0**	**0.00547**	**4.23**	**0.00178**	**7.53**	**0.00317**	
Acrolein (propenal)	NE	1.15 U	0.000502 U	1.15 U	0.000502 U	1.15 U	0.000502 U	**0.514 J**	**0.000224 J**	1.15 U	0.000502 U	1.15 U	0.000502 U	
Allyl chloride (3-Chloropropene)	NE	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	0.626 U	0.0002 U	
Benzothiophene (1-Benzothiophene)	NE	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	2.74 U	0.000499 U	
Bromodichloromethane	NE	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	1.34 U	0.0002 U	
Bromoform	NE	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	2.07 U	0.0002 U	
Bromomethane	0.9	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	0.777 U	0.0002 U	
1,3-Butadiene	NE	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	0.442 U	0.0002 U	
Butane	NE	**3.87**	**0.00163**	**1.35**	**0.000568**	**2.23**	**0.000938**	**1.69**	**0.000711**	**1.28**	**0.000538**	**0.799**	**0.000336**	
t-Butyl alcohol (Tertiary Butyl Alcohol)	NE	0.606 U	0.0002 U	0.606 U	0.0002 U	**0.397 J**	**0.000131 J**	0.606 U	0.0002 U	0.606 U	0.0002 U	**0.494 J**	**0.000163 J**	
Carbon disulfide	NE	**0.109 J**	**0.000035 J**	**0.374 J**	**0.00012 J**	0.623 U	0.0002 U	**0.424 JB**	**0.000136 JB**	**0.218 J**	**0.00007 J**	**0.548 JB**	**0.000176 JB**	
Carbon tetrachloride	1	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	1.26 U	0.0002 U	
Chlorobenzene	0.25	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	0.921 U	0.0002 U	
Chloroethane	0.4	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	0.528 U	0.0002 U	
Chloroform	0.5	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	0.977 U	0.0002 U	
Chloromethane	4.6	**0.708**	**0.000343**	**0.847**	**0.00041**	**0.884**	**0.000428**	**1.69**	**0.000818**	**0.896**	**0.000434**	**0.995**	**0.000482**	
2-Chlorotoluene (o-Chlorotoluene)	NE	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	1.04 U	0.000201 U	
Cryofluorane (Freon 114)	1.3	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	1.40 U	0.0002 U	
Cyclohexane	3	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	
n-Decane	3.6	1.16 U	0.000199 U	**0.757 J**	**0.00013 J**	**4.44**	**0.000763**	1.16 U	0.000199 U	**0.332 J**	**0.000057 J**	1.16 U	0.000199 U	
Dibromochloromethane	NE	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	1.70 U	0.0002 U	
1,2-Dibromoethane (EDB)	0.25	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	1.54 U	0.0002 U	
1,2-Dichlorobenzene	0.9	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	
1,3-Dichlorobenzene	0.7	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	**0.571 J**	**0.000095 J**	
1,4-Dichlorobenzene	0.8	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	1.20 U	0.0002 U	
Dichlorodifluoromethane (Freon 12)	11	**2.61**	**0.000528**	**1.19**	**0.000241**	**1.42**	**0.000287**	**2.11**	**0.000427**	**1.57 J**	**0.000317 J**	**2.47**	**0.000499**	
1,1-Dichloroethane	0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	
1,2-Dichloroethane	0.25	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	0.809 U	0.0002 U	
1,1-Dichloroethene	0.25	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	
cis-1,2-Dichloroethene	0.25	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	
trans-1,2-Dichloroethene	NE	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	0.793 U	0.0002 U	
1,2-Dichloropropane	0.25	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	0.924 U	0.0002 U	
cis-1,3-Dichloropropene	0.25	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	
trans-1,3-Dichloropropene	0.25	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	0.908 U	0.0002 U	
1,4-Dioxane	NE	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	
n-Dodecane	7.6	1.39 U	0.0002 U	3.48 U	0.0005 U	**1.26 J**	**0.000181 J**	**0.850 J**	**0.000122 J**	**2.03 J**	**0.000291 J**	**3.82**	**0.000548**	
Ethanol	220	**2.28**	**0.00121**	**2.00**	**0.00106**	**6.26**	**0.00332**	**4.11**	**0.00218**	**2.73**	**0.00145**	**26.9**	**0.0143**	
2-Ethylthiophene	NE	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	0.918 U	0.0002 U	

	Operable Unit	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
	Sample Name	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK	OZ-STACK
	Sample Date	1/20/2014	1/20/2014	2/28/2014	2/28/2014	3/24/2014	3/24/2014	4/22/2014	4/22/2014	5/19/2014	5/19/2014	6/25/2014	6/25/2014	
	Units	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	ug/m^3	ppmv	
Analyte	NYSDOH Background Outdoor Air 95th Percentile[1]													
4-Ethyltoluene (p-Ethyltoluene)	NE	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	
n-Heptane	5.1	**0.807 J**	**0.000197 J**	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	
Hexachlorobutadiene (C-46)	7	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	2.13 U	0.0002 U	
n-Hexane	3.6	**1.03**	**0.000292**	0.705 U	0.0002 U	**0.285 J**	**0.0000809 J**	**0.307 J**	**0.0000871 J**	**0.204 J**	**0.0000579 J**	0.705 U	0.0002 U	
2-Hexanone	NE	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	
Indane	NE	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	0.967 U	0.0002 U	
Indene	NE	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	0.951 U	0.0002 U	
Methyl ethyl ketone (2-Butanone)	17	**0.469 J**	**0.000159 J**	**0.785**	**0.000266**	**3.19**	**0.00108**	**0.755**	**0.000256**	**0.596**	**0.000202**	**1.19**	**0.000404**	
Methyl tert-butyl ether (MTBE)	5.9	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	0.721 U	0.0002 U	
4-Methyl-2-pentanone (MIBK)	2.9	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	0.820 U	0.0002 U	
Methylene chloride	2.9	3.47 U	0.000999 U	3.47 U	0.000999 U	3.47 U	0.000999 U	3.47 U	0.000999 U	**1.37 J**	**0.000394 J**	**2.16 J**	**0.000622 J**	
1-Methylnaphthalene	NE	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	
2-Methylnaphthalene	NE	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	5.82 U	0.001 U	
2-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	
3-Methylthiophene	NE	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	0.803 U	0.0002 U	
Naphthalene	10	1.05 U	0.0002 U	1.05 U	0.0002 U	**0.262 J**	**0.00005 J**	1.05 U	0.0002 U	1.05 U	0.0002 U	**0.467 J**	**0.0000891 J**	
n-Nonane	1.2	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	1.05 U	0.0002 U	
n-Octane	2.1	**0.276 J**	**0.0000591 J**	0.934 U	0.0002 U	**0.542 J**	**0.000116 J**	0.934 U	0.0002 U	0.934 U	0.0002 U	**0.220 J**	**0.0000471 J**	
Pentane	NE	**1.39**	**0.000471**	**0.233 J**	**0.000079 J**	**0.198 J**	**0.0000671 J**	**0.779**	**0.000264**	**0.150 J**	**0.0000508 J**	**0.245 J**	**0.000083 J**	
2-Propanol (Isopropyl Alcohol)	NE	1.23 U	0.0005 U	**0.361 J**	**0.000147 J**	**1.29**	**0.000525**	**0.514 JB**	**0.000209 JB**	1.23 U	0.0005 U	**4.82**	**0.00196**	
Styrene	0.6	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	0.852 U	0.0002 U	
1,1,2,2-Tetrachloroethane	0.25	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	1.37 U	0.0002 U	
Tetrachloroethene (PCE)	1.6	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	1.36 U	0.0002 U	**0.637 J**	**0.0000939 J**	
1,2,4,5-Tetramethylbenzene	NE	1.10 U	0.0002 U	2.74 U	0.000499 U	2.74 U	0.000499 U	1.10 U	0.0002 U	2.74 U	0.000499 U	1.10 U	0.0002 U	
Thiophene	NE	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	0.688 U	0.0002 U	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3.6	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	1.53 U	0.0002 U	
1,2,4-Trichlorobenzene	4.8	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	1.48 U	0.000199 U	
1,1,1-Trichloroethane (TCA)	0.7	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	
1,1,2-Trichloroethane	0.25	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	1.09 U	0.0002 U	
Trichloroethene (TCE)	0.5	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	1.07 U	0.000199 U	
Trichlorofluoromethane (Freon 11)	6.1	**1.31**	**0.000233**	**0.669 J**	**0.000119 J**	**1.19**	**0.000212**	**0.461 J**	**0.0000821 J**	**1.71**	**0.000304**	**1.89**	**0.000336**	
1,2,3-Trimethylbenzene	0.6	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	
1,2,4-Trimethylbenzene	2.5	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	
1,3,5-Trimethylbenzene	1	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	0.983 U	0.0002 U	
2,2,4-Trimethylpentane (iso-Octane)	2	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	0.934 U	0.0002 U	
n-Undecane	2.3	1.28 U	0.0002 U	1.28 U	0.0002 U	**2.16**	**0.000338**	1.28 U	0.0002 U	**0.499 J**	**0.0000781 J**	**0.754 J**	**0.000118 J**	
Vinyl bromide (Bromoethene)	NE	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	0.874 U	0.0002 U	
Vinyl chloride	0.25	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	0.511 U	0.0002 U	
Total VOCs (ND=0)	NE		**0.006584**		**0.007751**		**0.0165069**		**0.019**		**0.009739**		**0.03026**	

Notes:

ppmv - parts per million by volume
$\mu g/m^3$ - micrograms per cubic meter
BTEX - benzene, toluene, ethylbenzene, and xylene
VOCs - volatile organic compounds
BTEX and Total VOCs are calculated using detects only.

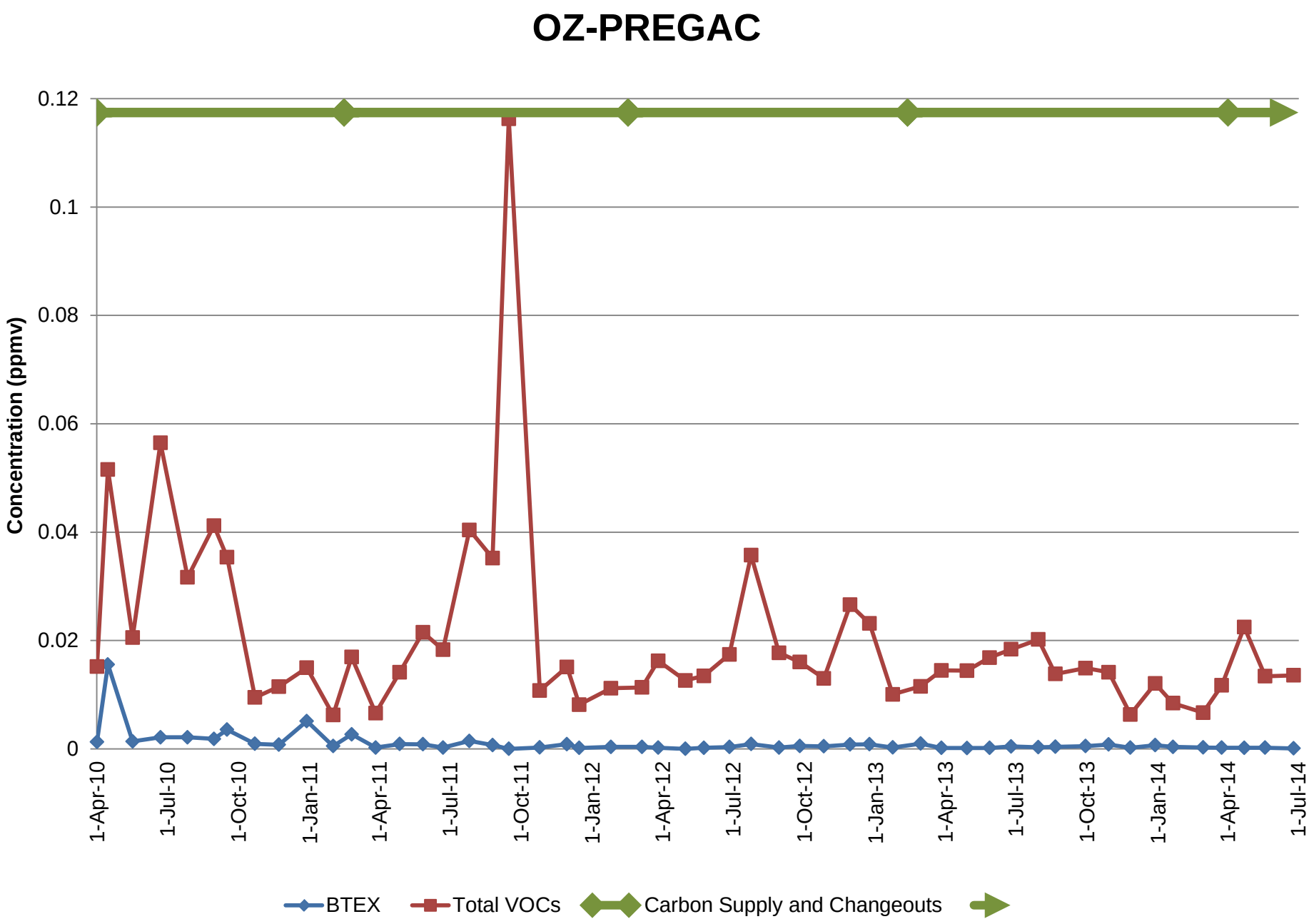
[1] Source: NYSDOH, October 2006. Summary of Indoor and Outdoor Levels of Volatile Organic Compounds from Fuel Oil Heated Homes reported in various locations within sampled homes in NYS, 1997-2003 as presented in Table C1. Background values for naphthalene are from the NYSDOH 1997 Control Home Database as presented in Table C3 of the NYSDOH 2006 Guidance.

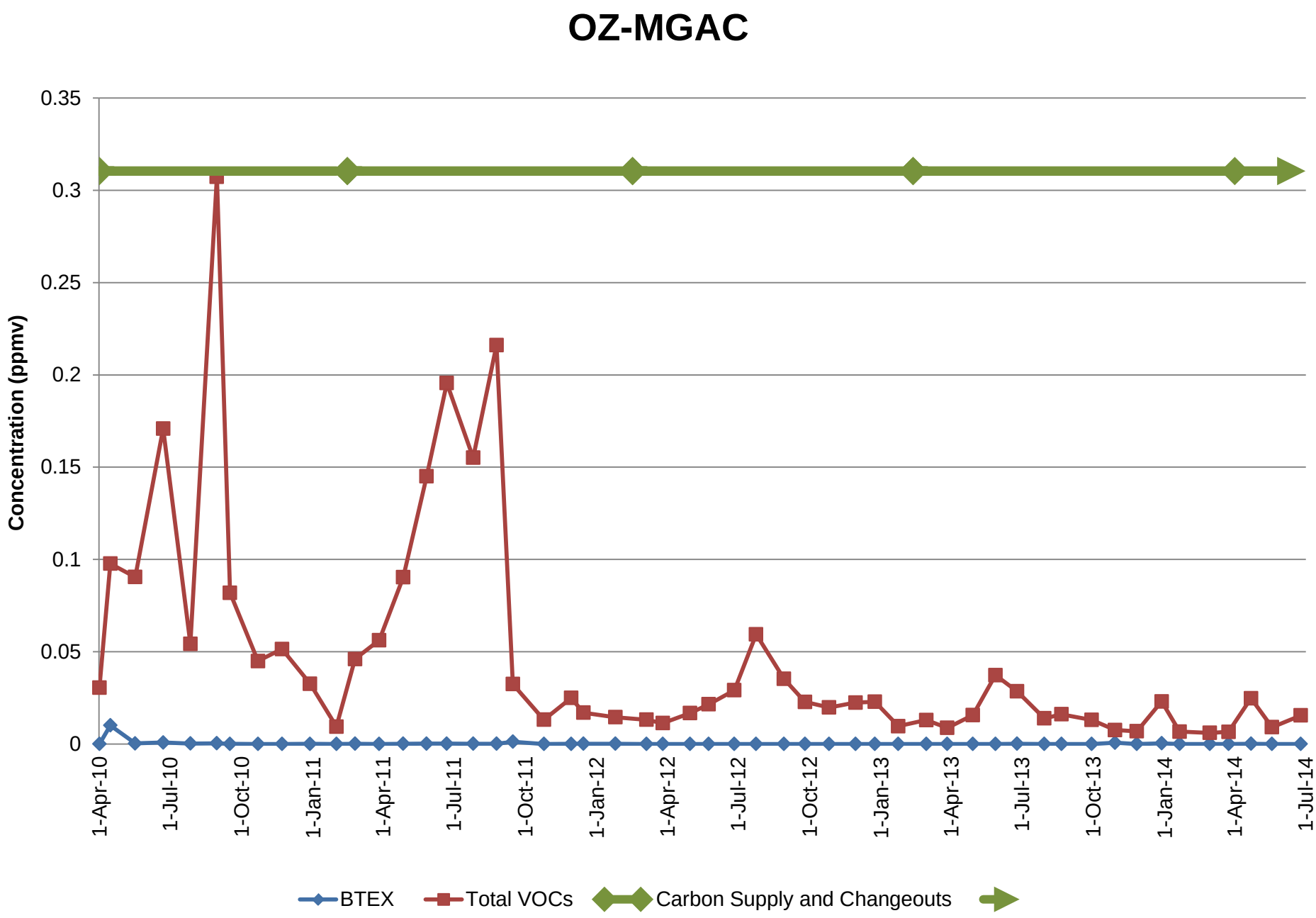
Bolding indicates a detected result value

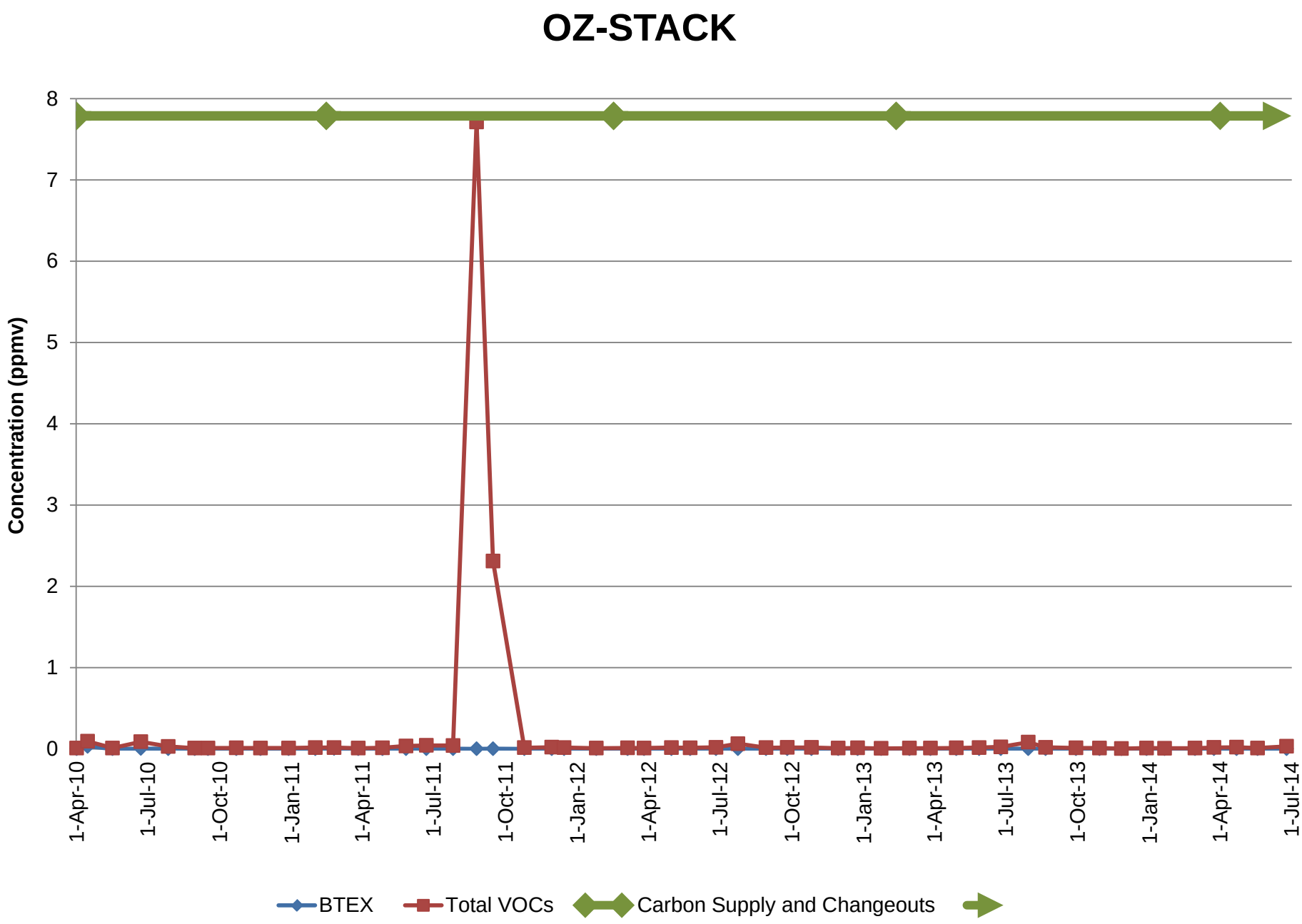
NE - not established
ND - not detected

Data Qualifiers:

B - Analyte detected in the associated method blank
J - estimated value
U - indicates not detected to the reporting limit for organic analysis
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

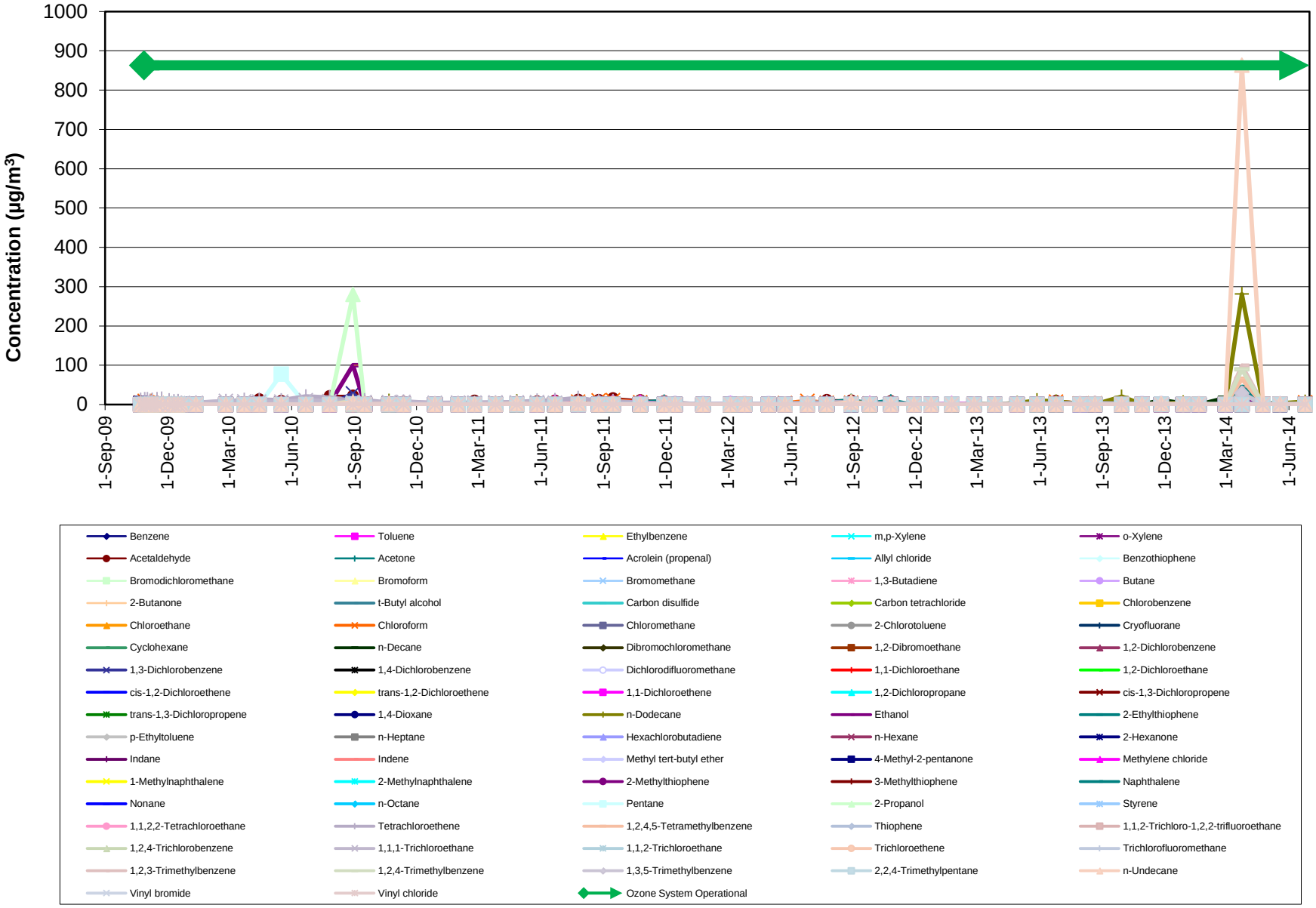

OZ-PREGAC
Concentration (ppmv)
0.12
0.1
0.08
0.06
0.04
0.02
0
1-Apr-10
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
1-Jul-12
1-Oct-12
1-Jan-13
1-Apr-13
1-Jul-13
1-Oct-13
1-Jan-14
1-Apr-14
1-Jul-14
BTEX
Total VOCs
Carbon Supply and Changeouts

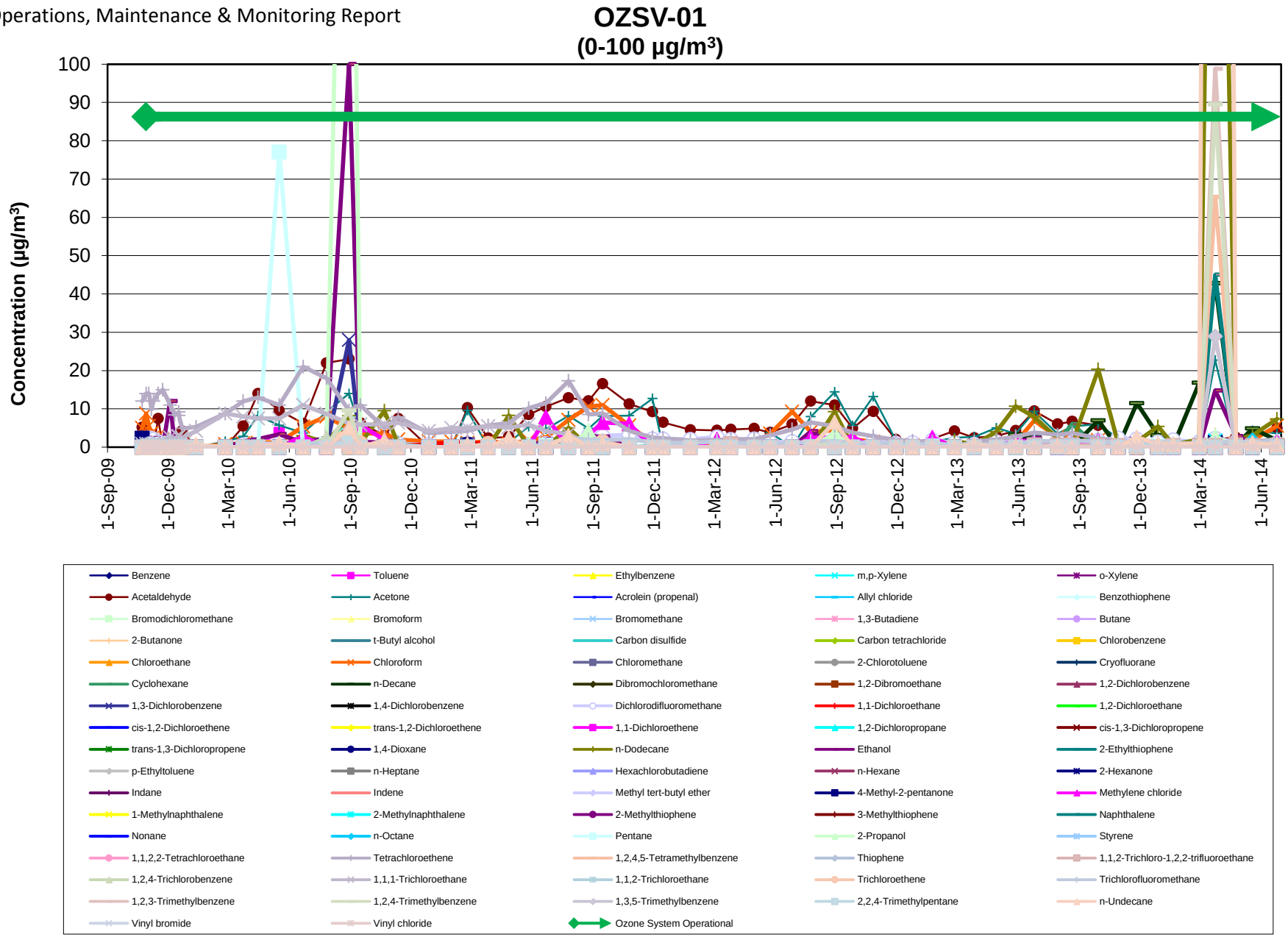

OZ-MGAC
Concentration (ppmv)
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
1-Apr-10
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
1-Jul-12
1-Oct-12
1-Jan-13
1-Apr-13
1-Jul-13
1-Oct-13
1-Jan-14
1-Apr-14
1-Jul-14
BTEX
Total VOCs
Carbon Supply and Changeouts


OZ-STACK
Concentration (ppmv)
8
7
6
5
4
3
2
1
0
1-Apr-10
1-Jul-10
1-Oct-10
1-Jan-11
1-Apr-11
1-Jul-11
1-Oct-11
1-Jan-12
1-Apr-12
1-Jul-12
1-Oct-12
1-Jan-13
1-Apr-13
1-Jul-13
1-Oct-13
1-Jan-14
1-Apr-14
1-Jul-14
BTEX
Total VOCs
Carbon Supply and Changeouts

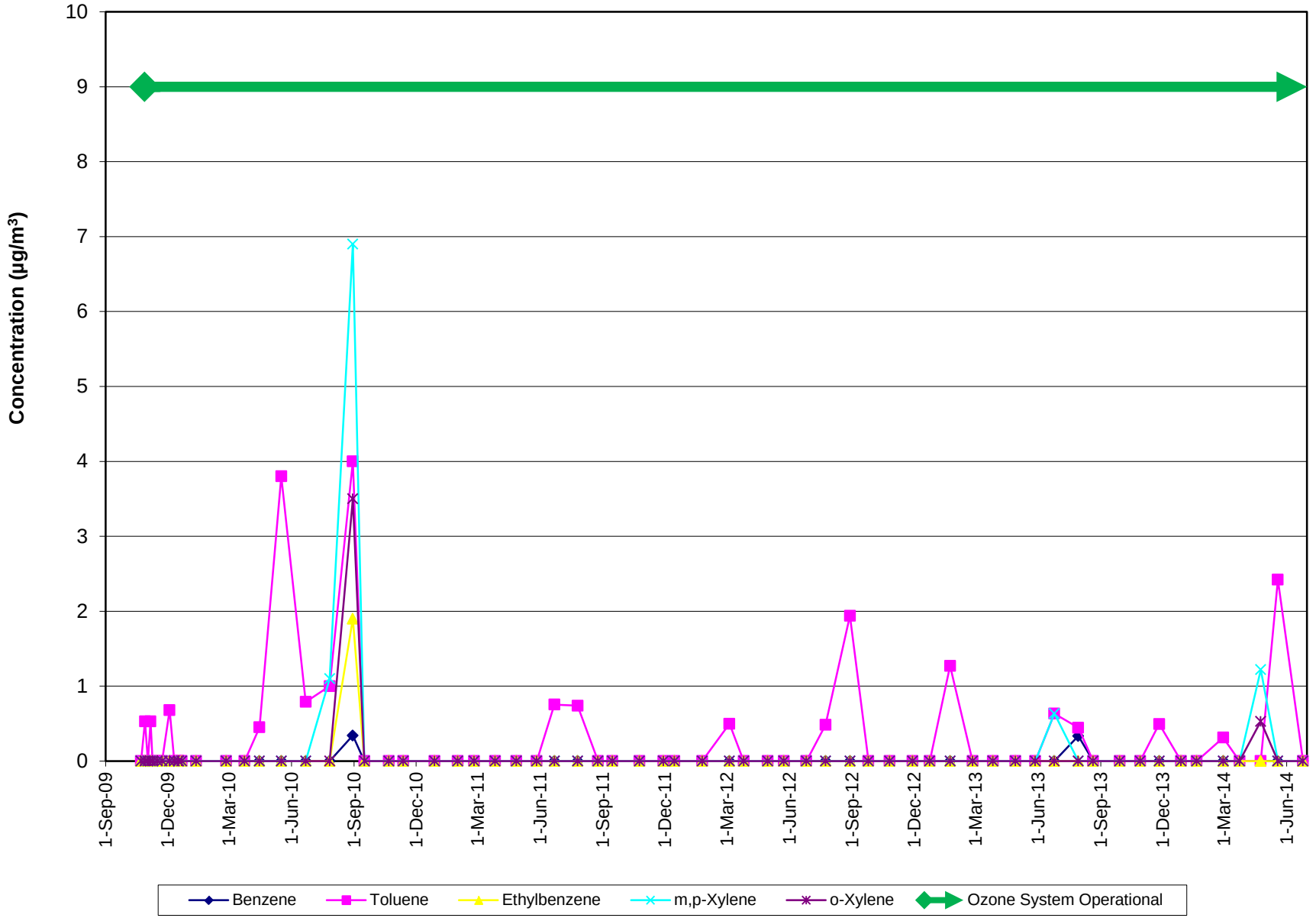
Appendix C

OZSV-01

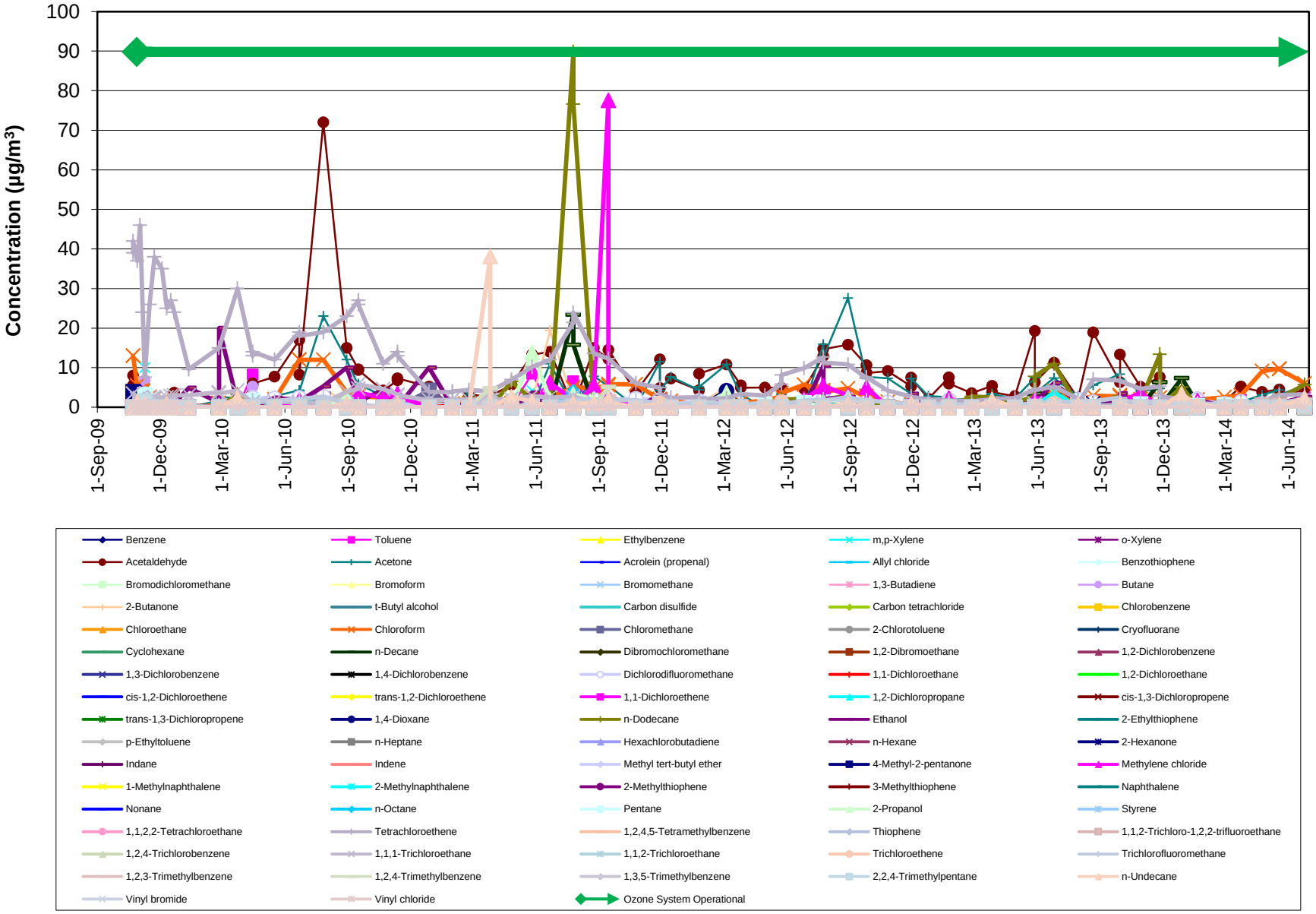

Concentration (µg/m³)
1000
900
800
700
600
500
400
300
200
100
0
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
1-Jun-12
1-Sep-12
1-Dec-12
1-Mar-13
1-Jun-13
1-Sep-13
1-Dec-13
1-Mar-14
1-Jun-14
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Acetaldehyde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


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

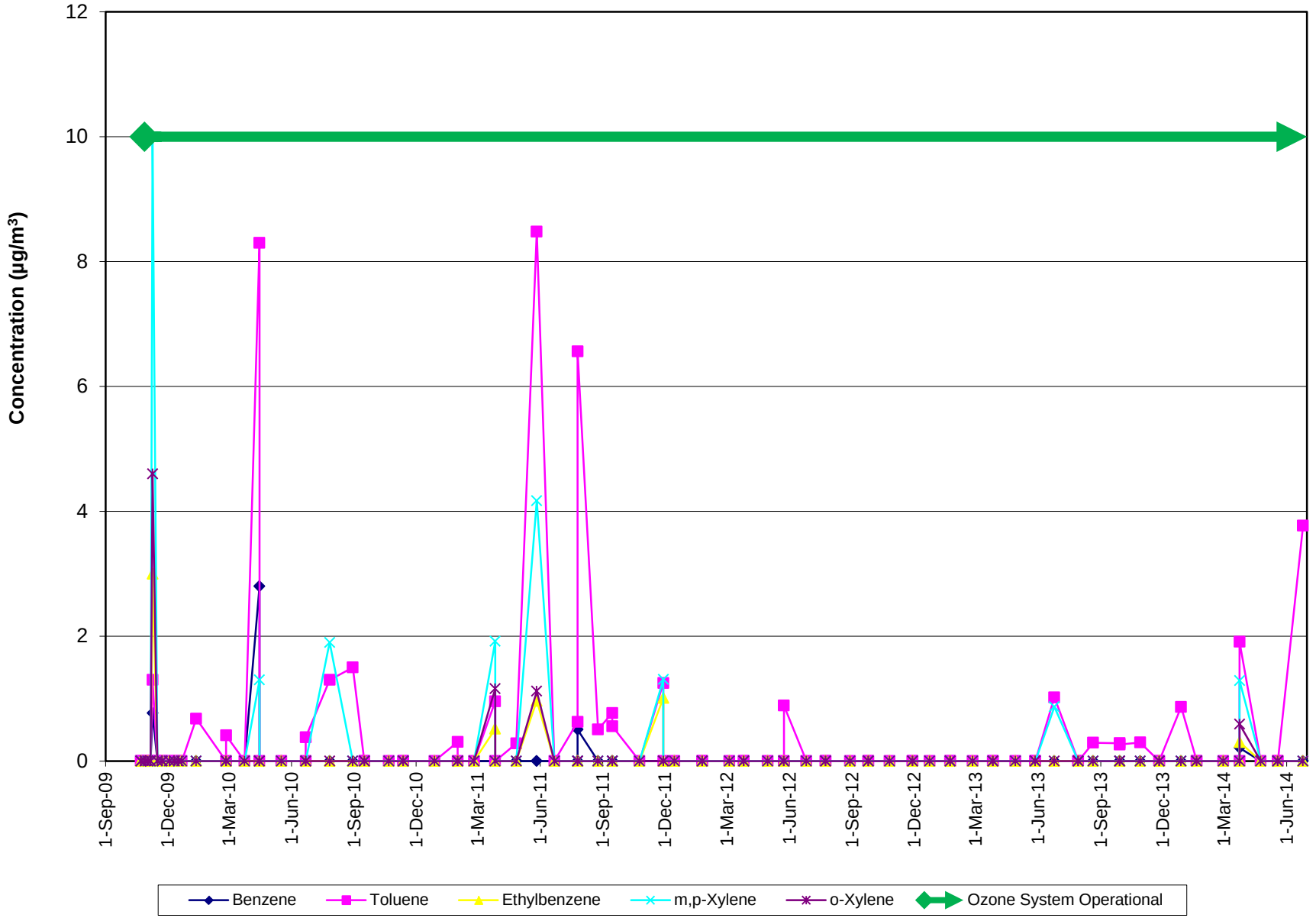
OZSV-01 BTEX


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

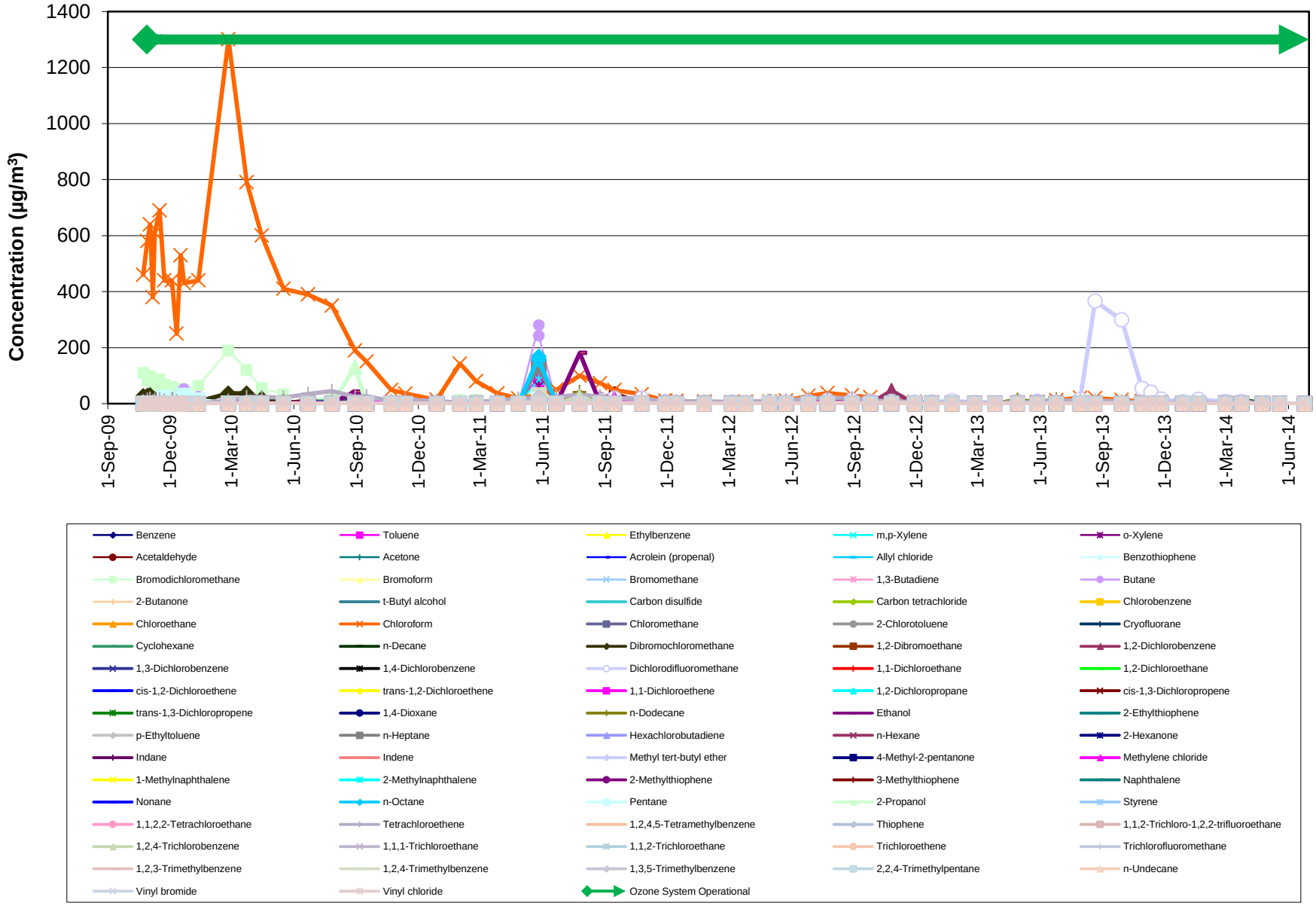
OZSV-02

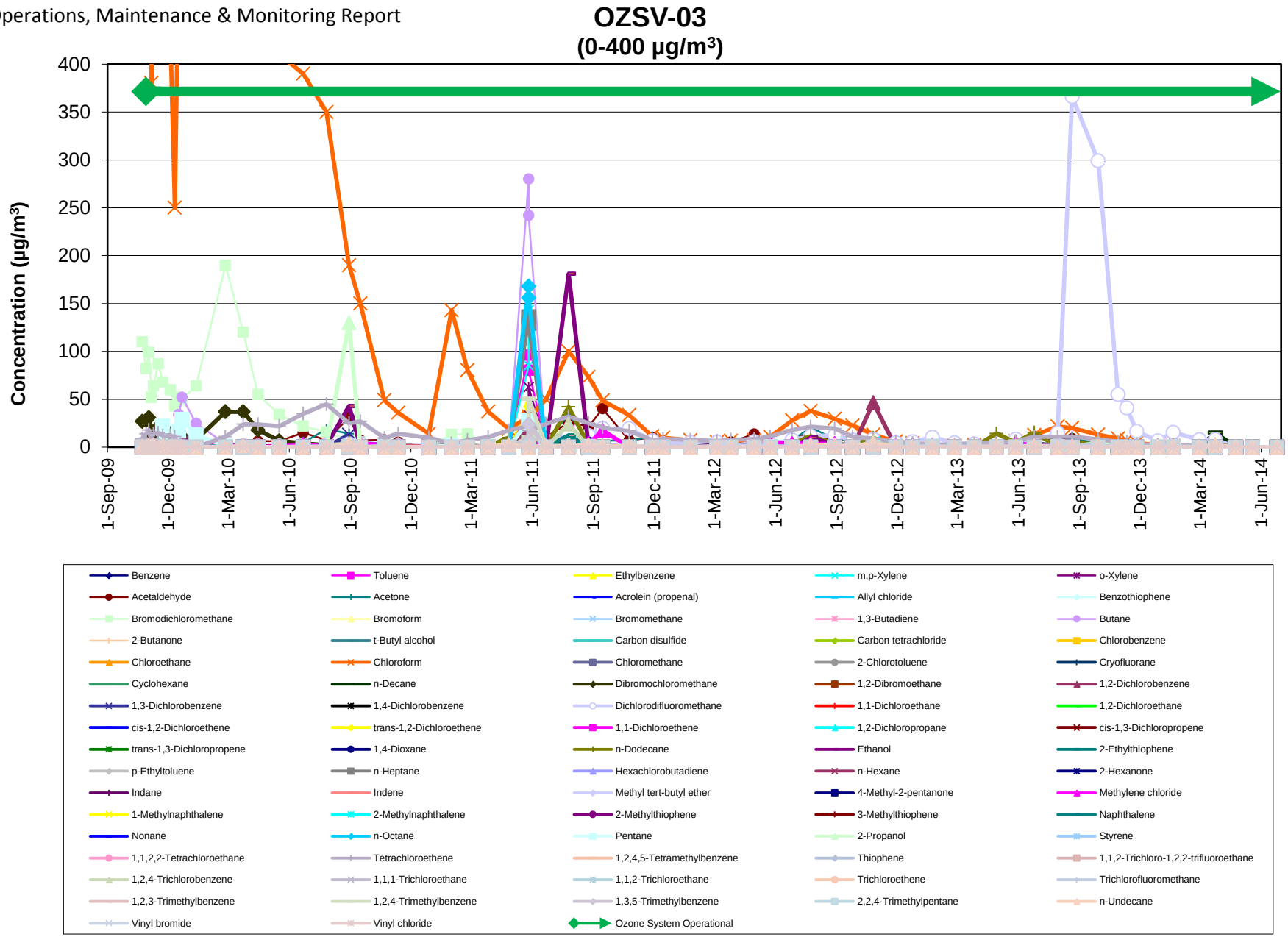

Concentration (µg/m³)
100
90
80
70
60
50
40
30
20
10
0
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
1-Jun-12
1-Sep-12
1-Dec-12
1-Mar-13
1-Jun-13
1-Sep-13
1-Dec-13
1-Mar-14
1-Jun-14
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Acetaldehyde
Acetone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

OZSV-02 BTEX

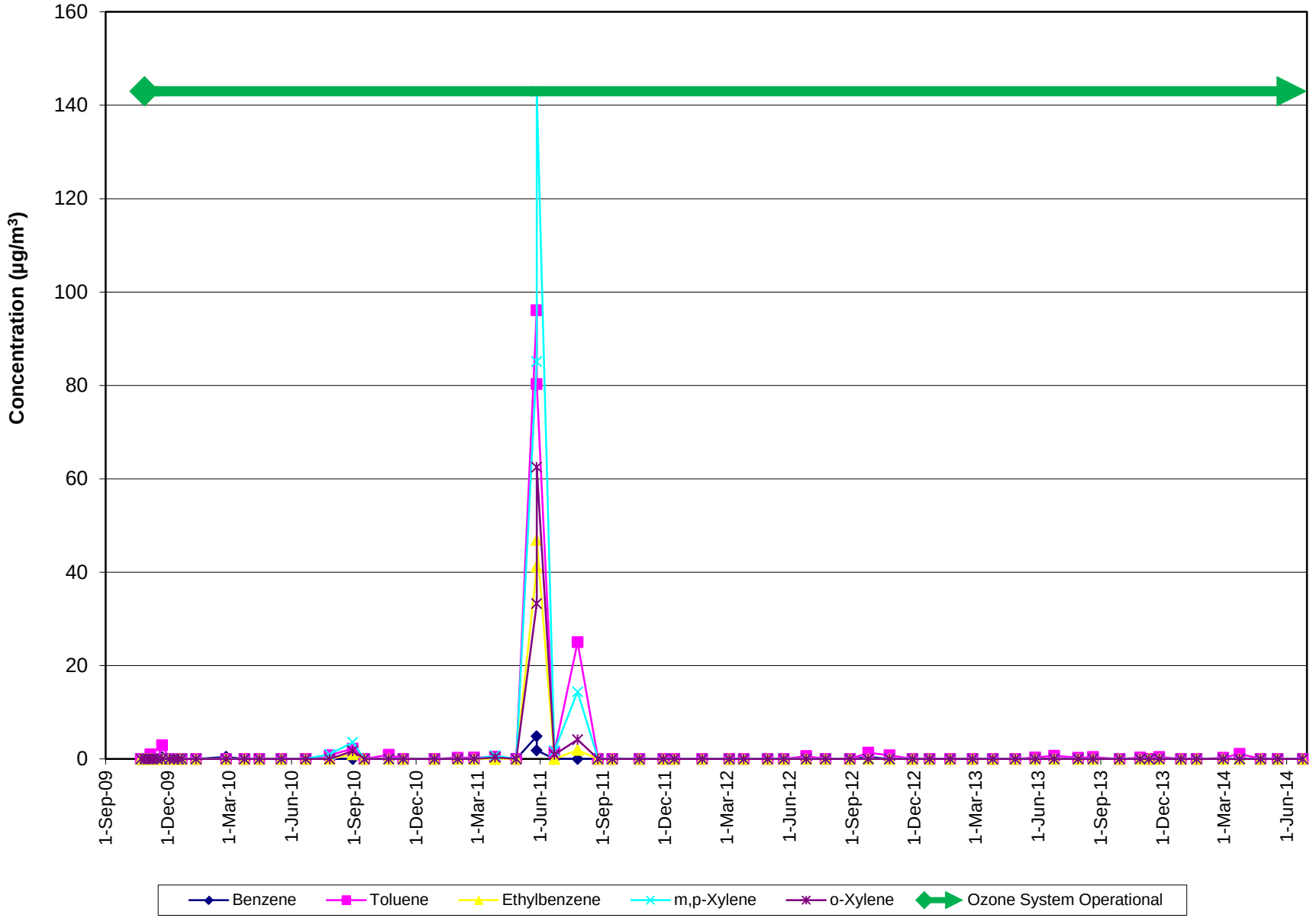

Concentration (µg/m³)
12
10
8
6
4
2
0
1-Sep-09
1-Dec-09
1-Mar-10
1-Jun-10
1-Sep-10
1-Dec-10
1-Mar-11
1-Jun-11
1-Sep-11
1-Dec-11
1-Mar-12
1-Jun-12
1-Sep-12
1-Dec-12
1-Mar-13
1-Jun-13
1-Sep-13
1-Dec-13
1-Mar-14
1-Jun-14
Benzene
Toluene
Ethylbenzene
m,p-Xylene
o-Xylene
Ozone System Operational

OZSV-03


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


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

OZSV-03 BTEX


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

Appendix D

Appendix D - Table D-1
Operational Data - OU-1 Union Boulevard Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q2 2013: 287,372 lbs

Oxygen to OU-1 Union Boulevard

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-13	31	4,477
Month 2	Aug-13	31	6,593
Month 3	Sep-13	30	5,382
Total Operational Days in Q3 2013			92
Total Oxygen in Q3 2013 (lbs)			16,451.45
Running Total for Oxygen to OU-1 Union Boulevard after Extension Completion Through Q3 2013 (lbs)			**303,823.63**

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

Injection Banks 1 and 2 are not in operation.
The banks can be used for further expansion, if needed at a later date.

			7/29/2013						8/13/2013						9/24/2013					
		O_2%	91.9						93.4						90.6					
		R	10.73						10.73						10.73					
		Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3*	Point 1	41	22	29.203	25.309	14.0	28.7	0.117	30	39.822	34.513	14.0	28.7	0.163	28	37.168	32.212	14.0	28.7	0.147
	Point 4	26	16	18.037	15.632	6.0	20.7	0.052	28	31.182	27.024	5.5	20.2	0.090	24	26.394	22.875	5.0	19.7	0.072
	Point 5	41	18	21.250	18.416	8.0	22.7	0.068	30	38.410	33.288	12.0	26.7	0.146	24	31.014	26.879	12.5	27.2	0.116
	Point 8	26	20	22.547	19.540	6.0	20.7	0.065	28	31.565	27.356	6.0	20.7	0.093	22	24.801	21.494	6.0	20.7	0.071
	Point 9	41	24	31.298	27.125	13.0	27.7	0.121	28	36.183	31.359	12.5	27.2	0.140	22	28.430	24.639	12.5	27.2	0.107
	Point 12	26	14	16.159	14.005	7.0	21.7	0.049	32	36.074	31.265	6.0	20.7	0.106	28	31.565	27.356	6.0	20.7	0.090
	Point 13	41	18	23.893	20.708	14.0	28.7	0.096	30	39.822	34.513	14.0	28.7	0.163	26	34.513	29.911	14.0	28.7	0.137
	Point 16	25	24	28.333	24.555	8.0	22.7	0.090	30	35.024	30.354	7.5	22.2	0.111	28	33.055	28.648	8.0	22.7	0.104
Total Oxygen Injected Per Day (lb)			**21.096**						**32.353**						**27.001**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4*	Point 2	26	18	20.536	17.797	6.5	21.2	0.061	30	34.226	29.662	6.5	21.2	0.103	22	24.801	21.494	6.0	20.7	0.071
	Point 3	41	18	23.473	20.344	13.0	27.7	0.091	34	43.531	37.727	12.0	26.7	0.165	26	33.288	28.850	12.0	26.7	0.123
	Point 6	26	18	23.473	20.344	13.0	27.7	0.091	34	44.339	38.427	13.0	27.7	0.175	30	38.768	33.599	12.5	27.2	0.146
	Point 7	41	20	22.817	19.775	6.5	21.2	0.068	34	39.694	34.401	7.5	22.2	0.125	28	32.319	28.009	7.0	21.7	0.097
	Point 10	26	16	18.679	16.189	7.5	22.2	0.058	34	40.138	34.786	8.0	22.7	0.130	24	28.019	24.283	7.5	22.2	0.086
	Point 11	41	22	29.203	25.309	14.0	28.7	0.117	30	36.188	31.363	9.0	23.7	0.122	26	34.513	29.911	14.0	28.7	0.137
	Point 14	26	20	23.349	20.236	7.5	22.2	0.073	34	39.694	34.401	7.5	22.2	0.125	24	28.019	24.283	7.5	22.2	0.086
	Point 15	41	24	31.858	27.610	14.0	28.7	0.128	30	39.822	34.513	14.0	28.7	0.163	24	31.858	27.610	14.0	28.7	0.126
Total Oxygen Injected Per Day (lb)			**21.983**						**35.483**						**27.866**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 17	62	28	42.598	36.919	23.0	37.7	0.225	32	48.684	42.193	23.0	37.7	0.261	42	63.898	55.378	23.0	37.7	0.333
	Point 18	41	38	47.733	41.368	11.0	25.7	0.172	32	40.196	34.836	11.0	25.7	0.147	34	42.708	37.014	11.0	25.7	0.152
	Point 19	26	16	18.037	15.632	6.0	20.7	0.052	28	31.565	27.356	6.0	20.7	0.093	30	33.820	29.311	6.0	20.7	0.097
	Point 22	22	20	22.547	19.540	6.0	20.7	0.065	24	27.056	23.448	6.0	20.7	0.080	32	36.074	31.265	6.0	20.7	0.103
	Point 24	37	24	30.728	26.631	12.0	26.7	0.115	32	40.970	35.508	12.0	26.7	0.156	42	53.774	46.604	12.0	26.7	0.198
	Point 25	22	22	24.801	21.494	6.0	20.7	0.072	28	31.565	27.356	6.0	20.7	0.093	30	33.409	28.954	5.5	20.2	0.093
	Point 42	17	20	21.430	18.572	4.0	18.7	0.056	26	27.859	24.144	4.0	18.7	0.074	24	25.716	22.287	4.0	18.7	0.066
	Point 43	17	20	21.141	18.322	3.5	18.2	0.054	28	29.598	25.651	3.5	18.2	0.077	32	33.358	28.910	3.0	17.7	0.082
Total Oxygen Injected Per Day (lb)			**25.958**						**31.377**						**35.944**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 20	61	22	33.023	28.620	22.0	36.7	0.170	48	72.051	62.444	22.0	36.7	0.376	32	48.034	41.629	22.0	36.7	0.243
	Point 26	57	28	40.868	35.419	20.0	34.7	0.199	36	52.545	45.539	20.0	34.7	0.260	24	35.030	30.359	20.0	34.7	0.168
	Point 27	37	16	20.098	17.418	11.0	25.7	0.072	34	42.708	37.014	11.0	25.7	0.156	26	32.659	28.305	11.0	25.7	0.116
	Point 28	22	22	24.801	21.494	6.0	20.7	0.072	34	38.329	33.219	6.0	20.7	0.113	24	26.727	23.163	5.5	20.2	0.075
	Point 30	22	24	26.394	22.875	5.0	19.7	0.073	32	35.192	30.500	5.0	19.7	0.099	24	26.394	22.875	5.0	19.7	0.072
	Point 32	22	22	23.886	20.701	4.5	19.2	0.064	32	34.743	30.110	4.5	19.2	0.095	24	26.057	22.583	4.5	19.2	0.069
	Point 40	17	16	16.913	14.658	3.5	18.2	0.043	34	35.940	31.148	3.5	18.2	0.093	26	27.103	23.490	3.0	17.7	0.066
	Point 41	17	16	17.144	14.858	4.0	18.7	0.045	34	36.430	31.573	4.0	18.7	0.097	22	23.573	20.430	4.0	18.7	0.061
Total Oxygen Injected Per Day (lb)			**23.605**						**41.241**						**27.828**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 21	37	28	35.849	31.069	12.0	26.7	0.134	38	48.652	42.165	12.0	26.7	0.185	34	43.531	37.727	12.0	26.7	0.160
	Point 31	22	20	22.547	19.540	6.0	20.7	0.065	36	40.584	35.173	6.0	20.7	0.120	26	28.954	25.094	5.5	20.2	0.081
	Point 33	22	20	22.547	19.540	6.0	20.7	0.065	28	31.565	27.356	6.0	20.7	0.093	28	31.565	27.356	6.0	20.7	0.090
	Point 34	22	20	21.995	19.063	5.0	19.7	0.061	24	26.727	23.163	5.5	20.2	0.077	28	30.793	26.688	5.0	19.7	0.084
	Point 35	22	26	29.311	25.402	6.0	20.7	0.085	24	27.056	23.448	6.0	20.7	0.080	22	24.500	21.233	5.5	20.2	0.068
	Point 36	22	24	27.056	23.448	6.0	20.7	0.078	26	28.954	25.094	5.5	20.2	0.083	26	28.954	25.094	5.5	20.2	0.081
	Point 36a	62	34	51.036	44.231	22.0	36.7	0.262	24	36.513	31.645	23.0	37.7	0.196	28	42.598	36.919	23.0	37.7	0.222
	Point 36b	41	28	37.168	32.212	14.0	28.7	0.149	28	37.168	32.212	14.0	28.7	0.152	24	32.134	27.850	14.5	29.2	0.130
Total Oxygen Injected Per Day (lb)			**28.819**						**31.522**						**29.299**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 23	56	30	45.032	39.028	22.0	36.7	0.231	34	51.036	44.231	22.0	36.7	0.267	34	50.687	43.929	21.5	36.2	0.253
	Point 29	34	14	17.586	15.241	11.0	25.7	0.063	32	40.196	34.836	11.0	25.7	0.147	24	30.147	26.127	11.0	25.7	0.107
	Point 37	22	14	16.159	14.005	7.0	21.7	0.049	36	41.553	36.012	7.0	21.7	0.128	30	34.627	30.010	7.0	21.7	0.104
	Point 37a	62	22	34.347	29.767	25.0	39.7	0.191	40	62.448	54.122	25.0	39.7	0.353	28	43.714	37.885	25.0	39.7	0.240
	Point 37b	41	20	26.548	23.008	14.0	28.7	0.107	34	45.132	39.114	14.0	28.7	0.184	28	37.168	32.212	14.0	28.7	0.147
	Point 38	22	0	0.000	0.000	6.0	20.7	0.000	30	33.820	29.311	6.0	20.7	0.100	22	24.801	21.494	6.0	20.7	0.071
	Point 39	17	28	29.598	25.651	3.5	18.2	0.075	34	35.940	31.148	3.5	18.2	0.093	24	25.019	21.683	3.0	17.7	0.061
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**22.944**						**40.704**						**31.456**					
System Total Per Day (lb)			**144.40**						**212.68**						**179.39**					

Weight of Oxygen Injected through Q3 2013 303,824 lbs

Oxygen to OU-1 Union Boulevard

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-13	31	5,919
Total Operational Days in October 2013			31
Total Oxygen in October 2013 (lbs)			5,919.08
Running Total for Oxygen to OU-1 Union Boulevard Through October 2013 (lbs)			**309,742.71**

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

Injection Banks 1 and 2 are not in operation.
The banks will be used for further expansion, in November 2013.

		10/7/2013
	O_2%	92.0
	R	10.73
	Temp R (T)	530

		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3*	Point 1	41	30	39.822	34.513	14.0	28.7	0.160
	Point 4	26	34	37.392	32.406	5.0	19.7	0.103
	Point 5	41	30	38.768	33.599	12.5	27.2	0.148
	Point 8	26	28	31.565	27.356	6.0	20.7	0.092
	Point 9	41	34	44.339	38.427	13.0	27.7	0.172
	Point 12	26	26	29.311	25.402	6.0	20.7	0.085
	Point 13	41	28	37.168	32.212	14.0	28.7	0.150
	Point 16	25	32	37.359	32.378	7.5	22.2	0.116
Total Oxygen Injected Per Day (lb)			**32.834**					
		Depth	**SCFH (M)**	**SCFH (C*)**	**CF/D (V)**	**PSI (M)**	**PSIa (P)**	**n=PV/RT lbs O2**
Injection Bank 4*	Point 2	26	30	33.820	29.311	6.0	20.7	0.098
	Point 3	41	26	33.288	28.850	12.0	26.7	0.125
	Point 6	26	24	30.728	26.631	12.0	26.7	0.115
	Point 7	41	28	32.319	28.009	7.0	21.7	0.098
	Point 10	26	24	28.333	24.555	8.0	22.7	0.090
	Point 11	41	30	39.822	34.513	14.0	28.7	0.160
	Point 14	26	28	32.689	28.330	7.5	22.2	0.102
	Point 15	41	30	38.410	33.288	12.0	26.7	0.144
Total Oxygen Injected Per Day (lb)			**29.826**					
		Depth	**SCFH (M)**	**SCFH (C*)**	**CF/D (V)**	**PSI (M)**	**PSIa (P)**	**n=PV/RT lbs O2**
Injection Bank 5	Point 17	62	36	54.769	47.467	23.0	37.7	0.289
	Point 18	41	38	47.733	41.368	11.0	25.7	0.172
	Point 19	26	24	27.056	23.448	6.0	20.7	0.079
	Point 22	22	26	29.311	25.402	6.0	20.7	0.085
	Point 24	37	38	48.652	42.165	12.0	26.7	0.182
	Point 25	22	24	26.727	23.163	5.5	20.2	0.076
	Point 42	17	28	30.002	26.001	4.0	18.7	0.079
	Point 43	17	26	27.103	23.490	3.0	17.7	0.067
Total Oxygen Injected Per Day (lb)			**32.922**					
		Depth	**SCFH (M)**	**SCFH (C*)**	**CF/D (V)**	**PSI (M)**	**PSIa (P)**	**n=PV/RT lbs O2**
Injection Bank 6	Point 20	61	36	54.038	46.833	22.0	36.7	0.278
	Point 26	57	30	43.788	37.949	20.0	34.7	0.213
	Point 27	37	26	32.659	28.305	11.0	25.7	0.118
	Point 28	22	28	31.182	27.024	5.5	20.2	0.088
	Point 30	22	26	28.594	24.781	5.0	19.7	0.079
	Point 32	22	26	28.594	24.781	5.0	19.7	0.079
	Point 40	17	24	25.019	21.683	3.0	17.7	0.062
	Point 41	17	26	27.859	24.144	4.0	18.7	0.073
Total Oxygen Injected Per Day (lb)			**31.685**					
		Depth	**SCFH (M)**	**SCFH (C*)**	**CF/D (V)**	**PSI (M)**	**PSIa (P)**	**n=PV/RT lbs O2**
Injection Bank 7	Point 21	37	38	48.195	41.769	11.5	26.2	0.177
	Point 31	22	24	26.394	22.875	5.0	19.7	0.073
	Point 33	22	26	29.311	25.402	6.0	20.7	0.085
	Point 34	22	26	28.594	24.781	5.0	19.7	0.079
	Point 35	22	30	33.409	28.954	5.5	20.2	0.095
	Point 36	22	26	28.954	25.094	5.5	20.2	0.082
	Point 36a	62	28	42.598	36.919	23.0	37.7	0.225
	Point 36b	41	34	45.132	39.114	14.0	28.7	0.182
Total Oxygen Injected Per Day (lb)			**31.916**					
		Depth	**SCFH (M)**	**SCFH (C*)**	**CF/D (V)**	**PSI (M)**	**PSIa (P)**	**n=PV/RT lbs O2**
Injection Bank 8	Point 23	56	40	59.632	51.681	21.5	36.2	0.303
	Point 29	34	20	25.122	21.773	11.0	25.7	0.091
	Point 37	22	22	25.393	22.007	7.0	21.7	0.077
	Point 37a	62	26	40.335	34.957	24.5	39.2	0.222
	Point 37b	41	26	34.513	29.911	14.0	28.7	0.139
	Point 38	22	24	27.056	23.448	6.0	20.7	0.079
	Point 39	17	32	33.358	28.910	3.0	17.7	0.083
	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**31.754**					
System Total Per Day (lb)			**190.94**					

Appendix D - Table D-1
Operational Data - OU-1 Union Boulevard Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through October 2013: 309,743 lbs

Oxygen to OU-1 Union Boulevard

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Nov-13	30	6,413
Month 2	Dec-13	31	6,385
Total Operational Days in November and December 2013			61
Total Oxygen in November and December 2013 (lbs)			12,797.51
Running Total for Oxygen to OU-1 Union Boulevard after Reconfiguration Through Q4 2013 (lbs)			**322,540.22**

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

System Operating Specs
Total of 7 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each Injection bank operates for 3.4 injection cycles per day
Each injection point injects oxygen for 44.5 min per day (13 min per cycle * 3.4 cycles)

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

Injection Bank 1 is not in operation.
Bank 1 can be used for further expansion, if needed at a later date.

System was reconfigured in October and the new configuration began operation on November 1, 2013.

			11/21/2013						12/9/2013					
		O_2%	88.4						89.1					
		R	10.73						10.73					
		Temp R (T)	530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 47	51	18	25.504	18.916	18.0	32.7	0.096	22	31.172	23.119	18.0	32.7	0.118
	Point 45	51	20	28.338	21.017	18.0	32.7	0.107	28	39.975	29.648	18.5	33.2	0.154
	Point 48	51	18	25.111	18.624	17.0	31.7	0.092	24	33.482	24.832	17.0	31.7	0.123
	Point 44	51	12	16.475	12.219	16.0	30.7	0.058	22	30.203	22.401	16.0	30.7	0.108
	Point 46	61	14	19.988	14.824	18.5	33.2	0.077	22	31.645	23.470	19.0	33.7	0.124
	Point 14A	61	50	76.069	56.418	23.0	37.7	0.331	26	39.817	29.531	23.5	38.2	0.177
	Point 12A	61	50	75.563	56.042	22.5	37.2	0.324	24	36.270	26.900	22.5	37.2	0.157
	Point 16A	61	40	61.657	45.729	24.0	38.7	0.275	22	33.911	25.151	24.0	38.7	0.152
Total Oxygen Injected Per Day (lb)			**43.499**						**35.638**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 1	41	34	44.737	33.180	13.5	28.2	0.145	30	39.822	29.535	14.0	28.7	0.133
	Point 4	26	38	41.791	30.995	5.0	19.7	0.095	32	35.636	26.430	5.5	20.2	0.084
	Point 5	41	48	62.028	46.004	12.5	27.2	0.195	30	38.410	28.487	12.0	26.7	0.119
	Point 8	26	26	29.311	21.739	6.0	20.7	0.070	30	33.820	25.083	6.0	20.7	0.081
	Point 9	41	26	33.599	24.919	12.5	27.2	0.105	30	38.768	28.753	12.5	27.2	0.123
	Point 12	26	38	42.838	31.772	6.0	20.7	0.102	30	33.820	25.083	6.0	20.7	0.081
	Point 13	41	44	41.800	31.002	0.0	14.7	0.071	0	0.000	0.000	0.0	14.7	0.000
	Point 16	25	30	35.024	25.976	7.5	22.2	0.090	32	37.359	27.708	7.5	22.2	0.096
Total Oxygen Injected Per Day (lb)			**27.933**						**22.951**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 2	26	32	36.074	26.755	6.0	20.7	0.086	32	36.508	27.076	6.5	21.2	0.090
	Point 3	41	36	46.092	34.185	12.0	26.7	0.142	30	38.410	28.487	12.0	26.7	0.119
	Point 7	26	32	40.970	30.386	12.0	26.7	0.126	32	41.731	30.950	13.0	27.7	0.134
	Point 6	41	32	36.936	27.394	7.0	21.7	0.092	32	37.359	27.708	7.5	22.2	0.096
	Point 10	26	30	35.024	25.976	7.5	22.2	0.090	32	37.777	28.018	8.0	22.7	0.100
	Point 11	41	28	37.168	27.566	14.0	28.7	0.123	30	39.822	29.535	14.0	28.7	0.133
	Point 14	26	30	35.024	25.976	7.5	22.2	0.090	30	35.024	25.976	7.5	22.2	0.090
	Point 15	41	26	34.513	25.597	14.0	28.7	0.114	16	21.239	15.752	14.0	28.7	0.071
Total Oxygen Injected Per Day (lb)			**27.614**						**26.670**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 17	62	36	54.769	40.621	23.0	37.7	0.238	38	57.812	42.877	23.0	37.7	0.253
	Point 18	41	32	40.196	29.812	11.0	25.7	0.119	36	45.220	33.538	11.0	25.7	0.135
	Point 19	26	30	33.820	25.083	6.0	20.7	0.081	30	33.820	25.083	6.0	20.7	0.081
	Point 22	22	26	28.954	21.474	5.5	20.2	0.067	32	36.074	26.755	6.0	20.7	0.087
	Point 24	37	38	48.652	36.084	12.0	26.7	0.150	38	48.652	36.084	12.0	26.7	0.151
	Point 25	22	32	35.636	26.430	5.5	20.2	0.083	36	40.584	30.100	6.0	20.7	0.098
	Point 42	17	26	27.484	20.384	3.5	18.2	0.058	30	32.145	23.841	4.0	18.7	0.070
	Point 43	17	32	33.358	24.741	3.0	17.7	0.068	38	40.168	29.792	3.5	18.2	0.085
Total Oxygen Injected Per Day (lb)			**27.641**						**30.713**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 20	61	40	60.042	44.531	22.0	36.7	0.254	40	60.042	44.531	22.0	36.7	0.256
	Point 26	57	30	43.788	32.476	20.0	34.7	0.175	30	43.788	32.476	20.0	34.7	0.177
	Point 27	37	30	37.684	27.949	11.0	25.7	0.112	30	37.684	27.949	11.0	25.7	0.113
	Point 28	22	30	33.409	24.778	5.5	20.2	0.078	30	33.820	25.083	6.0	20.7	0.081
	Point 30	22	26	28.594	21.207	5.0	19.7	0.065	28	30.793	22.838	5.0	19.7	0.070
	Point 32	22	30	32.571	24.157	4.5	19.2	0.072	34	36.914	27.378	4.5	19.2	0.082
	Point 40	17	28	29.188	21.648	3.0	17.7	0.060	32	33.358	24.741	3.0	17.7	0.069
	Point 41	17	28	29.598	21.952	3.5	18.2	0.062	30	32.145	23.841	4.0	18.7	0.070
Total Oxygen Injected Per Day (lb)			**28.076**						**29.370**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 27	37	30	37.684	27.949	11.0	25.7	0.112	38	47.733	35.402	11.0	25.7	0.143
	Point 31	22	40	43.990	32.626	5.0	19.7	0.100	34	37.392	27.732	5.0	19.7	0.086
	Point 33	22	30	33.820	25.083	6.0	20.7	0.081	36	40.584	30.100	6.0	20.7	0.098
	Point 34	22	32	35.192	26.101	5.0	19.7	0.080	36	39.591	29.364	5.0	19.7	0.091
	Point 35	22	36	40.091	29.734	5.5	20.2	0.093	30	33.820	25.083	6.0	20.7	0.081
	Point 36	22	28	31.182	23.126	5.5	20.2	0.073	30	33.820	25.083	6.0	20.7	0.081
	Point 36A	62	36	54.769	40.621	23.0	37.7	0.238	36	54.769	40.621	23.0	37.7	0.240
	Point 36B	41	24	31.858	23.628	14.0	28.7	0.105	28	37.168	27.566	14.0	28.7	0.124
Total Oxygen Injected Per Day (lb)			**28.213**						**30.175**					

Appendix D - Table D-1
Operational Data - OU-1 Union Boulevard Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through October 2013 309,743 lbs

			11/21/2013						12/9/2013					
		O_2%	88.4						89.1					
		R	10.73						10.73					
		Temp R (T)	530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 23	56	38	56.650	42.016	21.5	36.2	0.236	32	47.706	35.382	21.5	36.2	0.201
	Point 29	34	30	37.684	27.949	11.0	25.7	0.112	32	40.196	29.812	11.0	25.7	0.120
	Point 37	22	36	41.071	30.461	6.5	21.2	0.100	34	39.244	29.106	7.0	21.7	0.099
	Point 37A	62	30	46.540	34.517	24.5	39.2	0.210	34	51.036	37.852	22.0	36.7	0.218
	Point 37B	41	38	50.442	37.411	14.0	28.7	0.167	34	45.132	33.473	14.0	28.7	0.151
	Point 38	22	30	33.820	25.083	6.0	20.7	0.081	34	38.329	28.427	6.0	20.7	0.092
	Point 39	17	26	27.103	20.102	3.0	17.7	0.055	32	33.826	25.088	3.5	18.2	0.072
	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**30.775**						**30.450**					
System Total Per Day (lb)			**213.75**						**205.97**					

Appendix D - Table D-1
Operational Data - OU-1 Union Boulevard Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q4 2013: 322,540 lbs

Oxygen to OU-1 Union Boulevard

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-14	31	6,950
Month 2	Feb-14	28	5,560
Month 3	Mar-14	31	5,731
Total Operational Days in Q1 2014			90
Total Oxygen in Q1 2014 (lbs)			18,240.34
Running Total for Oxygen to OU-1 Union Boulevard after Reconfiguration Through Q1 2014 (lbs)			**340,780.56**

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

System Operating Specs
Total of 7 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each Injection bank operates for 3.4 injection cycles per day
Each injection point injects oxygen for 44.5 min per day (13 min per cycle * 3.4 cycles)

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

Injection Bank 1 is not in operation.
Bank 1 can be used for further expansion, if needed at a later date.

			1/29/2014						2/10/2014						3/24/2014					
		O_2%	90						84.8						84.9					
		R	10.73						10.73						10.73					
		Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 47	51	30	42.507	31.526	18.0	32.7	0.154	28	39.673	29.424	18.0	32.7	0.143	24	34.006	25.221	18.0	32.7	0.123
	Point 45	51	30	42.831	31.766	18.5	33.2	0.157	30	43.152	32.004	19.0	33.7	0.161	28	39.975	29.648	18.5	33.2	0.147
	Point 48	51	32	44.642	33.110	17.0	31.7	0.157	28	39.062	28.971	17.0	31.7	0.137	26	36.557	27.113	17.5	32.2	0.130
	Point 44	51	28	38.441	28.510	16.0	30.7	0.131	28	38.753	28.741	16.5	31.2	0.134	24	33.216	24.636	16.5	31.2	0.115
	Point 46	61	28	40.275	29.871	19.0	33.7	0.150	26	37.398	27.737	19.0	33.7	0.139	26	37.398	27.737	19.0	33.7	0.140
	Point 14A	61	40	61.257	45.432	23.5	38.2	0.259	30	45.943	34.074	23.5	38.2	0.194	26	39.556	29.337	23.0	37.7	0.165
	Point 12A	61	36	54.769	40.621	23.0	37.7	0.228	30	45.641	33.851	23.0	37.7	0.190	24	36.270	26.900	22.5	37.2	0.149
	Point 16A	61	42	64.740	48.015	24.0	38.7	0.277	26	40.591	30.105	25.0	39.7	0.178	26	40.335	29.915	24.5	39.2	0.175
	Total Oxygen Injected Per Day (lb)		**48.395**						**40.862**						**36.617**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 1	41	36	47.787	35.442	14.0	28.7	0.152	28	37.168	27.566	14.0	28.7	0.118	28	37.168	27.566	14.0	28.7	0.118
	Point 4	26	40	45.093	33.444	6.0	20.7	0.103	24	27.056	20.066	6.0	20.7	0.062	28	31.182	23.126	5.5	20.2	0.070
	Point 5	41	46	59.988	44.491	13.0	27.7	0.184	26	33.599	24.919	12.5	27.2	0.101	28	36.183	26.836	12.5	27.2	0.109
	Point 8	26	26	29.662	22.000	6.5	21.2	0.070	26	29.311	21.739	6.0	20.7	0.067	26	29.662	22.000	6.5	21.2	0.070
	Point 9	41	30	39.122	29.016	13.0	27.7	0.120	28	36.514	27.081	13.0	27.7	0.112	26	33.906	25.147	13.0	27.7	0.104
	Point 12	26	30	34.226	25.384	6.5	21.2	0.080	28	31.944	23.692	6.5	21.2	0.075	28	32.319	23.970	7.0	21.7	0.078
	Point 13	41	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000
	Point 16	25	34	40.138	29.769	8.0	22.7	0.101	30	35.024	25.976	7.5	22.2	0.086	30	35.024	25.976	7.5	22.2	0.086
	Total Oxygen Injected Per Day (lb)		**25.891**						**19.866**						**20.294**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 2	26	30	34.226	25.384	6.5	21.2	0.080	28	31.944	23.692	6.5	21.2	0.075	28	31.944	23.692	6.5	21.2	0.075
	Point 3	41	38	49.106	36.420	12.5	27.2	0.148	32	41.731	30.950	13.0	27.7	0.128	28	36.183	26.836	12.5	27.2	0.109
	Point 7	26	32	41.731	30.950	13.0	27.7	0.128	32	41.731	30.950	13.0	27.7	0.128	26	33.906	25.147	13.0	27.7	0.104
	Point 6	41	34	40.138	29.769	8.0	22.7	0.101	30	35.416	26.267	8.0	22.7	0.089	24	28.333	21.013	8.0	22.7	0.071
	Point 10	26	34	40.138	29.769	8.0	22.7	0.101	28	33.055	24.516	8.0	22.7	0.083	26	30.694	22.765	8.0	22.7	0.077
	Point 11	41	26	34.513	25.597	14.0	28.7	0.110	28	37.168	27.566	14.0	28.7	0.118	28	37.168	27.566	14.0	28.7	0.118
	Point 14	26	32	37.777	28.018	8.0	22.7	0.095	28	33.055	24.516	8.0	22.7	0.083	26	30.694	22.765	8.0	22.7	0.077
	Point 15	41	26	34.513	25.597	14.0	28.7	0.110	30	39.822	29.535	14.0	28.7	0.126	26	34.513	25.597	14.0	28.7	0.110
	Total Oxygen Injected Per Day (lb)		**27.880**						**26.554**						**23.720**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 17	62	34	53.081	39.368	25.0	39.7	0.233	36	54.769	40.621	23.0	37.7	0.228	32	48.684	36.107	23.0	37.7	0.203
	Point 18	41	34	43.122	31.982	11.5	26.2	0.125	36	45.658	33.863	11.5	26.2	0.132	34	42.708	31.675	11.0	25.7	0.122
	Point 19	26	28	31.565	23.411	6.0	20.7	0.072	30	33.820	25.083	6.0	20.7	0.077	26	29.311	21.739	6.0	20.7	0.067
	Point 22	22	28	31.565	23.411	6.0	20.7	0.072	50	56.366	41.805	6.0	20.7	0.129	32	36.074	26.755	6.0	20.7	0.083
	Point 24	37	40	51.213	37.983	12.0	26.7	0.151	40	51.213	37.983	12.0	26.7	0.151	38	48.652	36.084	12.0	26.7	0.144
	Point 25	22	40	45.093	33.444	6.0	20.7	0.103	30	33.820	25.083	6.0	20.7	0.077	26	29.311	21.739	6.0	20.7	0.067
	Point 42	17	26	27.859	20.662	4.0	18.7	0.058	28	30.002	22.251	4.0	18.7	0.062	24	25.716	19.072	4.0	18.7	0.053
	Point 43	17	40	42.859	31.787	4.0	18.7	0.089	28	30.002	22.251	4.0	18.7	0.062	24	25.369	18.816	3.5	18.2	0.051
	Total Oxygen Injected Per Day (lb)		**28.903**						**29.435**						**25.280**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 20	61	40	60.042	44.531	22.0	36.7	0.244	36	54.038	40.078	22.0	36.7	0.219	30	45.032	33.399	22.0	36.7	0.183
	Point 26	57	30	43.788	32.476	20.0	34.7	0.168	30	43.788	32.476	20.0	34.7	0.168	30	43.788	32.476	20.0	34.7	0.168
	Point 27	37	30	37.684	27.949	11.0	25.7	0.107	28	35.171	26.085	11.0	25.7	0.100	26	32.975	24.457	11.5	26.2	0.096
	Point 28	22	32	36.074	26.755	6.0	20.7	0.083	30	33.820	25.083	6.0	20.7	0.077	28	31.565	23.411	6.0	20.7	0.072
	Point 30	22	28	30.793	22.838	5.0	19.7	0.067	30	33.409	24.778	5.5	20.2	0.075	26	28.954	21.474	5.5	20.2	0.065
	Point 32	22	34	37.392	27.732	5.0	19.7	0.081	30	32.993	24.470	5.0	19.7	0.072	28	30.793	22.838	5.0	19.7	0.067
	Point 40	17	30	32.145	23.841	4.0	18.7	0.066	28	30.002	22.251	4.0	18.7	0.062	28	30.002	22.251	4.0	18.7	0.062
	Point 41	17	28	30.002	22.251	4.0	18.7	0.062	26	27.859	20.662	4.0	18.7	0.058	20	21.430	15.894	4.0	18.7	0.044
	Total Oxygen Injected Per Day (lb)		**28.112**						**26.590**						**24.245**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 27	37	34	43.531	32.286	12.0	26.7	0.129	36	46.092	34.185	12.0	26.7	0.136	38	48.652	36.084	12.0	26.7	0.144
	Point 31	22	44	49.602	36.788	6.0	20.7	0.114	26	29.311	21.739	6.0	20.7	0.067	30	33.820	25.083	6.0	20.7	0.078
	Point 33	22	40	45.634	33.846	6.5	21.2	0.107	30	33.820	25.083	6.0	20.7	0.077	30	33.820	25.083	6.0	20.7	0.078
	Point 34	22	40	45.093	33.444	6.0	20.7	0.103	30	33.820	25.083	6.0	20.7	0.077	30	33.820	25.083	6.0	20.7	0.078
	Point 35	22	24	27.056	20.066	6.0	20.7	0.062	30	33.820	25.083	6.0	20.7	0.077	30	33.820	25.083	6.0	20.7	0.078
	Point 36	22	28	31.565	23.411	6.0	20.7	0.072	34	38.329	28.427	6.0	20.7	0.088	32	36.074	26.755	6.0	20.7	0.083
	Point 36A	62	44	66.940	49.647	23.0	37.7	0.279	28	42.880	31.803	23.5	38.2	0.181	30	45.641	33.851	23.0	37.7	0.191
	Point 36B	41	26	41.099	30.482	26.0	40.7	0.185	30	39.822	29.535	14.0	28.7	0.126	32	42.477	31.504	14.0	28.7	0.135
	Total Oxygen Injected Per Day (lb)		**33.620**						**26.585**						**27.586**					

Appendix D - Table D-1
Operational Data - OU-1 Union Boulevard Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q4 2013 322,540 lbs

			1/29/2014						2/10/2014						3/24/2014					
		O_2%	90						84.8						84.9					
		R	10.73						10.73						10.73					
		Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 23	56	36	53.297	39.528	21.0	35.7	0.210	30	45.032	33.399	22.0	36.7	0.183	36	54.038	40.078	22.0	36.7	0.220
	Point 29	34	30	37.684	27.949	11.0	25.7	0.107	30	37.684	27.949	11.0	25.7	0.107	26	32.659	24.222	11.0	25.7	0.093
	Point 37	22	42	48.478	35.954	7.0	21.7	0.116	32	36.936	27.394	7.0	21.7	0.089	28	32.319	23.970	7.0	21.7	0.078
	Point 37A	62	30	46.836	34.737	25.0	39.7	0.206	36	54.038	40.078	22.0	36.7	0.219	28	43.438	32.216	24.5	39.2	0.189
	Point 37B	41	40	53.096	39.380	14.0	28.7	0.169	34	45.132	33.473	14.0	28.7	0.143	28	37.168	27.566	14.0	28.7	0.118
	Point 38	22	36	41.071	30.461	6.5	21.2	0.096	34	38.789	28.769	6.5	21.2	0.091	34	38.789	28.769	6.5	21.2	0.091
	Point 39	17	36	38.054	28.224	3.5	18.2	0.077	30	31.712	23.520	3.5	18.2	0.064	28	29.598	21.952	3.5	18.2	0.060
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**31.390**						**28.668**						**27.121**					
System Total Per Day (lb)			**224.19**						**198.56**						**184.86**					

Appendix D - Table D-1
Operational Data - OU-1 Union Boulevard Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q1 2014: 340,781 lbs

Oxygen to OU-1 Union Boulevard

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-14	30	4,095
Month 2	May-14	31	4,396
Month 3	Jun-14	30	4,610
Total Operational Days in Q2 2014			91
Total Oxygen in Q2 2014 (lbs)			13,101.38
Running Total for Oxygen to OU-1 Union Boulevard after Reconfiguration Through Q2 2014 (lbs)			**353,881.94**

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

System Operating Specs
Total of 7 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each Injection bank operates for 3.4 injection cycles per day
Each injection point injects oxygen for 44.5 min per day (13 min per cycle * 3.4 cycles)

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

			4/23/2014						5/16/2014						6/5/2014					
	O_2%		88.6						84.4						86.2					
	R		10.73						10.73						10.73					
	Temp R (T)		632						632						614					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 47	41	24	34.265	25.413	18.5	33.2	0.105	20	28.338	21.017	18.0	32.7	0.086	24	34.006	25.221	18.0	32.7	0.108
	Point 45	26	24	34.522	25.604	19.0	33.7	0.107	24	34.265	25.413	18.5	33.2	0.105	26	37.120	27.531	18.5	33.2	0.120
	Point 48	41	22	31.172	23.119	18.0	32.7	0.094	20	28.120	20.856	17.5	32.2	0.084	24	33.745	25.027	17.5	32.2	0.105
	Point 44	26	22	30.691	22.763	17.0	31.7	0.090	22	30.691	22.763	17.0	31.7	0.090	24	33.482	24.832	17.0	31.7	0.103
	Point 46	41	20	28.981	21.494	19.5	34.2	0.091	26	37.675	27.942	19.5	34.2	0.119	24	34.522	25.604	19.0	33.7	0.113
	Point 14A	26	18	27.566	20.445	23.5	38.2	0.097	24	36.754	27.259	23.5	38.2	0.130	28	42.880	31.803	23.5	38.2	0.159
	Point 12A	41	24	36.513	27.080	23.0	37.7	0.127	24	36.513	27.080	23.0	37.7	0.127	28	42.598	31.594	23.0	37.7	0.156
	Point 16A	25	22	34.347	25.474	25.0	39.7	0.126	28	43.438	32.216	24.5	39.2	0.157	28	43.438	32.216	24.5	39.2	0.165
Total Oxygen Injected Per Day (lb)			**26.813**						**28.695**						**32.923**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 1	41	24	31.858	23.628	14.0	28.7	0.084	26	34.513	25.597	14.0	28.7	0.091	24	31.858	23.628	14.0	28.7	0.089
	Point 4	26	16	17.818	13.215	5.5	20.2	0.033	24	27.056	20.066	6.0	20.7	0.052	20	22.273	16.519	5.5	20.2	0.044
	Point 5	41	16	20.865	15.475	13.0	27.7	0.053	26	33.906	25.147	13.0	27.7	0.087	24	31.579	23.421	13.5	28.2	0.086
	Point 8	26	26	29.662	22.000	6.5	21.2	0.058	24	27.702	20.545	7.0	21.7	0.055	22	25.099	18.615	6.5	21.2	0.052
	Point 9	41	24	31.298	23.213	13.0	27.7	0.080	30	39.122	29.016	13.0	27.7	0.100	28	36.842	27.325	13.5	28.2	0.101
	Point 12	26	16	18.468	13.697	7.0	21.7	0.037	24	27.702	20.545	7.0	21.7	0.055	24	27.702	20.545	7.0	21.7	0.058
	Point 13	41	10	9.500	7.046	0.0	14.7	0.013	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000
	Point 16	25	26	30.694	22.765	8.0	22.7	0.064	28	33.055	24.516	8.0	22.7	0.069	26	30.694	22.765	8.0	22.7	0.068
Total Oxygen Injected Per Day (lb)			**13.544**						**16.323**						**15.910**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 2	26	24	27.702	20.545	7.0	21.7	0.055	24	27.702	20.545	7.0	21.7	0.055	20	23.085	17.121	7.0	21.7	0.049
	Point 3	41	22	28.690	21.278	13.0	27.7	0.073	24	31.298	23.213	13.0	27.7	0.080	24	31.298	23.213	13.0	27.7	0.084
	Point 7	26	22	28.690	21.278	13.0	27.7	0.073	22	28.690	21.278	13.0	27.7	0.073	24	31.298	23.213	13.0	27.7	0.084
	Point 6	41	26	30.694	22.765	8.0	22.7	0.064	24	28.333	21.013	8.0	22.7	0.059	26	30.694	22.765	8.0	22.7	0.068
	Point 10	26	24	28.333	21.013	8.0	22.7	0.059	24	28.643	21.244	8.5	23.2	0.061	22	25.972	19.262	8.0	22.7	0.057
	Point 11	41	22	29.456	21.847	14.5	29.2	0.079	24	32.408	24.036	15.0	29.7	0.089	22	29.203	21.659	14.0	28.7	0.081
	Point 14	26	18	21.250	15.760	8.0	22.7	0.045	26	30.694	22.765	8.0	22.7	0.064	24	28.333	21.013	8.0	22.7	0.062
	Point 15	41	30	40.168	29.791	14.5	29.2	0.108	24	32.134	23.833	14.5	29.2	0.087	24	32.134	23.833	14.5	29.2	0.091
Total Oxygen Injected Per Day (lb)			**17.858**						**18.219**						**18.448**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 17	62	32	48.684	36.107	23.0	37.7	0.169	36	55.131	40.889	23.5	38.2	0.194	32	48.684	36.107	23.0	37.7	0.178
	Point 18	41	28	35.171	26.085	11.0	25.7	0.083	34	43.122	31.982	11.5	26.2	0.104	30	38.048	28.219	11.5	26.2	0.097
	Point 19	26	20	22.817	16.923	6.5	21.2	0.045	26	29.662	22.000	6.5	21.2	0.058	26	29.662	22.000	6.5	21.2	0.061
	Point 22	22	24	27.056	20.066	6.0	20.7	0.052	26	29.311	21.739	6.0	20.7	0.056	24	27.056	20.066	6.0	20.7	0.054
	Point 24	37	30	38.410	28.487	12.0	26.7	0.095	30	38.410	28.487	12.0	26.7	0.095	28	35.849	26.588	12.0	26.7	0.093
	Point 25	22	20	22.547	16.722	6.0	20.7	0.043	24	27.056	20.066	6.0	20.7	0.052	24	27.056	20.066	6.0	20.7	0.054
	Point 42	17	24	25.716	19.072	4.0	18.7	0.044	26	27.859	20.662	4.0	18.7	0.048	22	23.573	17.483	4.0	18.7	0.043
	Point 43	17	22	23.573	17.483	4.0	18.7	0.041	26	27.859	20.662	4.0	18.7	0.048	22	23.255	17.248	3.5	18.2	0.041
Total Oxygen Injected Per Day (lb)			**18.305**						**20.969**						**19.881**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 20	61	30	45.338	33.625	22.5	37.2	0.156	30	45.338	33.625	22.5	37.2	0.156	30	45.032	33.399	22.0	36.7	0.160
	Point 26	57	32	46.707	34.641	20.0	34.7	0.150	30	44.414	32.940	21.0	35.7	0.146	30	43.788	32.476	20.0	34.7	0.147
	Point 27	37	24	30.439	22.575	11.5	26.2	0.074	26	32.659	24.222	11.0	25.7	0.077	24	30.147	22.359	11.0	25.7	0.075
	Point 28	22	26	29.311	21.739	6.0	20.7	0.056	24	27.056	20.066	6.0	20.7	0.052	24	27.056	20.066	6.0	20.7	0.054
	Point 30	22	28	31.565	23.411	6.0	20.7	0.060	24	26.727	19.823	5.5	20.2	0.050	24	27.056	20.066	6.0	20.7	0.054
	Point 32	22	24	26.394	19.576	5.0	19.7	0.048	26	28.594	21.207	5.0	19.7	0.052	28	30.793	22.838	5.0	19.7	0.059
	Point 40	17	24	25.716	19.072	4.0	18.7	0.044	24	25.716	19.072	4.0	18.7	0.044	24	25.716	19.072	4.0	18.7	0.047
	Point 41	17	20	21.430	15.894	4.0	18.7	0.037	22	23.573	17.483	4.0	18.7	0.041	18	19.287	14.304	4.0	18.7	0.035
Total Oxygen Injected Per Day (lb)			**19.987**						**19.780**						**20.231**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 27	37	44	56.334	41.781	12.0	26.7	0.139	22	28.167	20.891	12.0	26.7	0.069	32	40.970	30.386	12.0	26.7	0.106
	Point 31	22	18	20.292	15.050	6.0	20.7	0.039	22	24.801	18.394	6.0	20.7	0.047	24	27.056	20.066	6.0	20.7	0.054
	Point 33	22	20	22.547	16.722	6.0	20.7	0.043	26	29.311	21.739	6.0	20.7	0.056	24	27.056	20.066	6.0	20.7	0.054
	Point 34	22	16	18.037	13.378	6.0	20.7	0.034	22	24.801	18.394	6.0	20.7	0.047	22	24.500	18.171	5.5	20.2	0.048
	Point 35	22	30	33.820	25.083	6.0	20.7	0.065	28	31.565	23.411	6.0	20.7	0.060	28	31.565	23.411	6.0	20.7	0.063
	Point 36	22	26	29.311	21.739	6.0	20.7	0.056	24	27.056	20.066	6.0	20.7	0.052	22	24.801	18.394	6.0	20.7	0.050
	Point 36A	62	20	30.225	22.417	22.5	37.2	0.104	26	40.077	29.724	24.0	38.7	0.143	28	42.880	31.803	23.5	38.2	0.159
	Point 36B	41	24	31.858	23.628	14.0	28.7	0.084	26	34.812	25.819	14.5	29.2	0.094	26	34.513	25.597	14.0	28.7	0.096
Total Oxygen Injected Per Day (lb)			**18.047**						**18.215**						**20.197**					

Appendix D - Table D-1
Operational Data - OU-1 Union Boulevard Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q1 2014 340,781 lbs

			4/23/2014						5/16/2014						6/5/2014					
		O_2%	88.6						84.4						86.2					
		R	10.73						10.73						10.73					
		Temp R (T)	632						632						614					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 23	56	40	60.042	44.531	22.0	36.7	0.203	34	51.036	37.852	22.0	36.7	0.173	40	60.042	44.531	22.0	36.7	0.214
	Point 29	34	20	25.122	18.632	11.0	25.7	0.060	22	27.635	20.496	11.0	25.7	0.066	22	27.635	20.496	11.0	25.7	0.069
	Point 37	22	16	18.468	13.697	7.0	21.7	0.037	20	23.085	17.121	7.0	21.7	0.046	22	25.393	18.833	7.0	21.7	0.053
	Point 37A	62	36	56.203	41.684	25.0	39.7	0.206	26	40.591	30.105	25.0	39.7	0.149	42	65.571	48.632	25.0	39.7	0.253
	Point 37B	41	24	32.134	23.833	14.5	29.2	0.087	22	29.203	21.659	14.0	28.7	0.077	30	39.822	29.535	14.0	28.7	0.111
	Point 38	22	22	25.099	18.615	6.5	21.2	0.049	24	27.381	20.307	6.5	21.2	0.054	26	29.662	22.000	6.5	21.2	0.061
	Point 39	17	24	25.716	19.072	4.0	18.7	0.044	26	27.859	20.662	4.0	18.7	0.048	28	30.002	22.251	4.0	18.7	0.054
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**21.954**						**19.599**						**26.086**					
System Total Per Day (lb)			**136.51**						**141.80**						**153.68**					

Appendix D - Table D-2
Operational Data - 60/66 North Clinton and Community Road Oxygen Injection Systems
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Total Weight of Oxygen Injected through Q2 2013	288,560	lbs
Weight of Oxygen Injected through Q2 2013 (OU-1)	113,829	lbs
Weight of Oxygen Injected through Q2 2013 (OU-3)	174,731	lbs

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

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-13	31	2,773
Month 2	Aug-13	31	3,463
Month 3	Sep-13	28	3,109
Total Operational Days In Q3 2013			90
Total Oxygen in OU-1 in Q3 2013 (lbs)			9,343.81
Running Total for Oxygen to OU-1 Through Q3 2013 (lbs)			123,172.46

Oxygen to OU-3 (Community Road)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-13	31	6,698
Month 2	Aug-13	31	8,296
Month 3	Sep-13	28	7,210
Total Operational Days In Q3 2013			90
Total Oxygen in OU-3 in Q3 2013 (lbs)			22,204.54
Running Total for Oxygen to OU-3 Through Q3 2013 (lbs)			196,935.94

Running Total for Oxygen System (OU-1 and OU-3) Through Q3 2013 (lbs)	**320,108.39**

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 (0.73)
NA* - System Not Operational

System Operating Specs
The 60/66 N Clinton injection line was reconfigured beginning on March 3, and began operation on March 9, 2012.
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 910AM to 930AM
Bank 4 starts injection at 930AM
Bank 4 Finishes injection at 940AM
System is recharging from 940AM to 1000AM
Bank 5 starts injection at 1000AM
Bank 5 finishes injection at 1010AM
System is recharging from 1010AM to 1030PM
(Keep repeating cycle for course of day)

The system went down for 2 days in September due to a power failure.

	7/22/2013	8/8/2013	9/23/2013
O_2%	91.9	93.7	95.1
R	10.73	10.73	10.73
Temp R (T)	530	530	530

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

		Depth	7/22/2013 SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	8/8/2013 SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	9/23/2013 SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	25	28	32.689	41.842	7.5	22.2	0.150	34	39.694	50.808	7.5	22.2	0.186	34	39.694	50.808	7.5	22.2	0.189
	Point 1B	35	28	35.171	45.019	11.0	25.7	0.187	32	40.196	51.451	11.0	25.7	0.218	32	40.196	51.451	11.0	25.7	0.221
	Point 2A	25	26	30.354	38.853	7.5	22.2	0.139	32	37.359	47.819	7.5	22.2	0.175	34	39.694	50.808	7.5	22.2	0.189
	Point 2B	35	28	35.849	45.887	12.0	26.7	0.198	32	40.970	52.442	12.0	26.7	0.231	34	43.531	55.720	12.0	26.7	0.249
	Point 3A	25	26	29.311	37.517	6.0	20.7	0.125	34	38.329	49.061	6.0	20.7	0.167	36	40.584	51.947	6.0	20.7	0.180
	Point 3B	35	28	36.183	46.315	12.5	27.2	0.204	30	38.768	49.623	12.5	27.2	0.222	32	40.970	52.442	12.0	26.7	0.234
	Point 4A	25	26	30.694	39.288	8.0	22.7	0.144	32	37.777	48.355	8.0	22.7	0.181	34	40.138	51.377	8.0	22.7	0.195
	Point 4B	35	28	36.183	46.315	12.5	27.2	0.204	32	41.352	52.931	12.5	27.2	0.237	34	43.937	56.239	12.5	27.2	0.256
	Point 5A	25	28	33.417	42.774	8.5	23.2	0.160	32	38.191	48.884	8.5	23.2	0.187	34	40.578	51.940	8.5	23.2	0.202
	Point 5B	35	28	36.514	46.738	13.0	27.7	0.209	32	41.731	53.415	13.0	27.7	0.244	32	41.352	52.931	12.5	27.2	0.241
	Total Oxygen Injected Per Day (lb)		**55.066**						**65.528**						**68.935**					
Injection Bank 2	Point 6	25	26	32.017	40.982	10.0	24.7	0.164	34	41.869	53.592	10.0	24.7	0.218	30	36.567	46.806	9.5	24.2	0.189
	Point 7	25	26	30.694	39.288	8.0	22.7	0.144	36	42.965	54.995	8.5	23.2	0.210	32	37.777	48.355	8.0	22.7	0.184
	Point 8	25	26	31.692	40.565	9.5	24.2	0.159	36	43.881	56.167	9.5	24.2	0.224	30	36.188	46.320	9.0	23.7	0.184
	Point 9	25	26	31.030	39.718	8.5	23.2	0.149	32	38.191	48.884	8.5	23.2	0.187	30	35.804	45.829	8.5	23.2	0.178
	Point 10	25	26	31.363	40.144	9.0	23.7	0.154	32	38.600	49.408	9.0	23.7	0.193	30	36.188	46.320	9.0	23.7	0.184
	Point 11	25	26	31.692	40.565	9.5	24.2	0.159	34	41.443	53.047	9.5	24.2	0.212	30	36.567	46.806	9.5	24.2	0.189
	Point 12	25	24	29.254	37.445	9.5	24.2	0.146	32	39.005	49.927	9.5	24.2	0.199	34	41.013	52.496	9.0	23.7	0.208
	Total Oxygen Injected Per Day (lb)		**34.370**						**46.165**						**42.093**					
	System Total Per Day (lb)		**89.44**						**111.69**						**111.03**					

Oxygen Going to OU-3 (Community Road)

		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 16	21	26	27.484	35.179	3.5	18.2	0.103	32	33.826	43.297	3.5	18.2	0.130	34	36.914	47.250	4.5	19.2	0.152
	Point 17	21	26	31.363	40.144	9.0	23.7	0.154	32	38.191	48.884	8.5	23.2	0.187	44	53.075	67.936	9.0	23.7	0.269
	Point 29	21	26	30.354	38.853	7.5	22.2	0.139	32	37.359	47.819	7.5	22.2	0.175	34	39.694	50.808	7.5	22.2	0.189
	Total Oxygen Injected Per Day (lb)		**12.691**						**15.732**						**19.507**					
Injection Bank 3	Point 18	21	30	35.804	57.286	8.5	23.2	0.215	36	42.965	68.743	8.5	23.2	0.263	34	40.138	64.221	8.0	22.7	0.244
	Point 19A	16	40	45.634	73.015	6.5	21.2	0.250	44	50.198	80.317	6.5	21.2	0.281	44	50.198	80.317	6.5	21.2	0.285
	Point 19B	27	30	36.943	59.109	10.0	24.7	0.236	34	41.869	66.990	10.0	24.7	0.273	34	41.869	66.990	10.0	24.7	0.277
	Point 25A	16	44	47.145	75.432	4.0	18.7	0.228	40	44.545	71.272	5.5	20.2	0.237	44	49.602	79.364	6.0	20.7	0.275
	Point 26A	16	42	47.916	76.666	6.5	21.2	0.263	46	51.857	82.971	6.0	20.7	0.283	44	49.602	79.364	6.0	20.7	0.275
	Point 26B	27	30	37.684	60.294	11.0	25.7	0.250	32	40.196	64.313	11.0	25.7	0.272	32	40.196	64.313	11.0	25.7	0.276
	Point 27A	16	40	45.093	72.149	6.0	20.7	0.241	44	50.198	80.317	6.5	21.2	0.281	44	50.198	80.317	6.5	21.2	0.285
	Point 27B	27	30	37.684	60.294	11.0	25.7	0.250	32	40.196	64.313	11.0	25.7	0.272	34	42.708	68.333	11.0	25.7	0.294
	Point 28A	16	40	45.634	73.015	6.5	21.2	0.250	44	50.198	80.317	6.5	21.2	0.281	42	47.916	76.666	6.5	21.2	0.272
	Point 28B	27	30	37.684	60.294	11.0	25.7	0.250	32	40.196	64.313	11.0	25.7	0.272	32	40.196	64.313	11.0	25.7	0.276
	Total Oxygen Injected Per Day (lb)		**77.893**						**86.856**						**88.246**					
Injection Bank 4	Point 20A	16	44	51.368	82.189	7.5	22.2	0.295	54	62.329	99.726	7.0	21.7	0.357	34	39.244	62.790	7.0	21.7	0.228
	Point 21B	27	30	28.500	45.600	0.0	14.7	0.108	38	36.100	57.760	0.0	14.7	0.140	32	30.400	48.640	0.0	14.7	0.120
	Point 22A	16	44	50.786	81.258	7.0	21.7	0.285	52	59.325	94.920	6.5	21.2	0.332	34	38.789	62.063	6.5	21.2	0.220
	Point 22B	27	32	40.585	64.936	11.5	26.2	0.275	42	53.268	85.229	11.5	26.2	0.368	32	40.196	64.313	11.0	25.7	0.276
	Point 23A	16	0	0.000	0.000	0.0	14.7	0.000	16	18.037	28.860	6.0	20.7	0.098	30	33.409	53.454	5.5	20.2	0.181
	Point 23C	11	0	0.000	0.000	0.0	14.7	0.000	34	36.430	58.289	4.0	18.7	0.180	32	34.287	54.860	4.0	18.7	0.172
	Point 24B	27	32	40.196	64.313	11.0	25.7	0.267	40	50.245	80.392	11.0	25.7	0.340	34	42.708	68.333	11.0	25.7	0.294
	Point 31A	11	46	49.288	78.861	4.0	18.7	0.238	50	53.574	85.719	4.0	18.7	0.264	32	34.287	54.860	4.0	18.7	0.172
	Point 32B	21	32	37.777	60.443	8.0	22.7	0.222	40	47.221	75.554	8.0	22.7	0.283	32	37.777	60.443	8.0	22.7	0.229
	Point 33B	21	30	31.712	50.739	3.5	18.2	0.149	40	42.282	67.652	3.5	18.2	0.203	32	33.826	54.122	3.5	18.2	0.165
	Total Oxygen Injected Per Day (lb)		**58.862**						**82.046**						**65.772**					
Injection Bank 5	Point 20B	27	28	34.828	55.724	11.0	25.7	0.231	32	39.803	63.685	10.5	25.2	0.264	30	37.315	59.704	10.5	25.2	0.252
	Point 21A	16	34	38.329	61.327	6.5	21.2	0.210	44	49.602	79.364	6.0	20.7	0.271	40	45.093	72.149	6.0	20.7	0.250
	Point 23B	27	28	34.130	54.607	9.0	23.7	0.209	10	12.189	19.503	9.5	24.2	0.078	26	31.692	50.707	9.5	24.2	0.205
	Point 24A	16	34	38.329	61.327	6.5	21.2	0.210	46	51.857	82.971	6.0	20.7	0.283	40	45.093	72.149	6.0	20.7	0.250
	Point 25B	27	26	29.662	47.460	6.5	21.2	0.163	36	41.071	65.714	6.5	21.2	0.230	40	45.634	73.015	6.5	21.2	0.259
	Point 31B	33	20	25.845	41.352	11.0	25.7	0.172	38	49.106	78.569	12.5	27.2	0.352	32	41.352	66.164	12.5	27.2	0.301
	Point 32A	11	34	36.430	58.289	4.0	18.7	0.176	42	45.002	72.004	4.0	18.7	0.222	42	45.002	72.004	4.0	18.7	0.225
	Point 32C	33	28	36.514	58.423	14.0	28.7	0.271	32	41.731	66.769	13.0	27.7	0.305	32	41.731	66.769	12.5	27.2	0.304
	Point 33A	11	34	39.694	63.510	7.5	22.2	0.228	44	51.368	82.189	7.5	22.2	0.301	44	51.368	82.189	7.5	22.2	0.305
	Point 33C	33	24	30.728	49.165	12.0	26.7	0.212	32	40.970	65.553	12.0	26.7	0.288	30	38.410	61.456	12.0	26.7	0.274
	Total Oxygen Injected Per Day (lb)		**66.630**						**82.979**						**83.984**					
	System Total Per Day (lb)		**216.08**						**267.61**						**257.51**					

Appendix D - Table D-2
Operational Data - 60/66 North Clinton and Community Road Oxygen Injection Systems
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Total Weight of Oxygen Injected through Q3 2013	320,108	lbs
Weight of Oxygen Injected through Q3 2013 (OU-1)	123,172	lbs
Weight of Oxygen Injected through Q3 2013 (OU-3)	196,936	lbs

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

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-13	29	2,982
Month 2	Nov-13	28	2,801
Month 3	Dec-13	31	3,020
Total Operational Days In Q4 2013			88
Total Oxygen in OU-1 in Q4 2013 (lbs)			8,802.74
Running Total for Oxygen to OU-1 Through Q4 2013 (lbs)			131,975.20

Oxygen to OU-3 (Community Road)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-13	29	6,330
Month 2	Nov-13	28	6,297
Month 3	Dec-13	31	6,945
Total Operational Days In Q4 2013			88
Total Oxygen in OU-3 in Q4 2013 (lbs)			19,571.71
Running Total for Oxygen to OU-3 Through Q4 2013 (lbs)			216,507.65

Running Total for Oxygen System (OU-1 and OU-3) Through Q4 2013 (lbs)	**348,482.85**

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

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
(Keep repeating cycle for course of day)

Injection Bank 6 was not included in oxygen weights for Q4 2013 because it was only operational for a short period of time in October.

System was down for 2 days in October in order to relocate the system and begin operation . The system began operation at its new location on October 10, 2013.
System was down for 2 days in November due to a power outage.

	10/30/2013	11/7/2013	12/3/2013
O_2%	93.4	91.9	92.1
R	10.73	10.73	10.73
Temp R (T)	530	530	530

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

		Depth	10/30/2013 SCFH (M)	10/30/2013 SCFH (C*)	10/30/2013 CF/D (V)	10/30/2013 PSI (M)	10/30/2013 PSIa (P)	10/30/2013 n=PV/RT lbs O2	11/7/2013 SCFH (M)	11/7/2013 SCFH (C*)	11/7/2013 CF/D (V)	11/7/2013 PSI (M)	11/7/2013 PSIa (P)	11/7/2013 n=PV/RT lbs O2	12/3/2013 SCFH (M)	12/3/2013 SCFH (C*)	12/3/2013 CF/D (V)	12/3/2013 PSI (M)	12/3/2013 PSIa (P)	12/3/2013 n=PV/RT lbs O2
Injection Bank 1	Point 1A*	25	42	49.033	62.763	7.5	22.2	0.229	44	51.368	65.751	7.5	22.2	0.236	44	51.368	65.751	7.5	22.2	0.236
	Point 1B*	35	30	37.684	48.235	11.0	25.7	0.204	32	40.196	51.451	11.0	25.7	0.214	30	37.684	48.235	11.0	25.7	0.201
	Point 2A*	25	32	37.359	47.819	7.5	22.2	0.174	36	42.029	53.796	7.5	22.2	0.193	32	37.359	47.819	7.5	22.2	0.172
	Point 2B*	35	30	38.410	49.165	12.0	26.7	0.216	32	40.970	52.442	12.0	26.7	0.226	30	38.410	49.165	12.0	26.7	0.213
	Point 3A*	25	32	35.636	45.614	5.5	20.2	0.151	34	37.863	48.465	5.5	20.2	0.158	34	38.329	49.061	6.0	20.7	0.164
	Point 3B*	35	32	40.970	52.442	12.0	26.7	0.230	34	43.531	55.720	12.0	26.7	0.240	32	40.970	52.442	12.0	26.7	0.227
	Point 4A*	25	32	37.777	48.355	8.0	22.7	0.180	36	42.499	54.399	8.0	22.7	0.200	32	37.777	48.355	8.0	22.7	0.178
	Point 4B*	35	30	38.768	49.623	12.5	27.2	0.222	32	41.352	52.931	12.5	27.2	0.233	32	41.352	52.931	12.5	27.2	0.233
	Point 5A*	25	34	40.578	51.940	8.5	23.2	0.198	34	40.578	51.940	8.5	23.2	0.195	34	40.578	51.940	8.5	23.2	0.195
	Point 5B*	35	32	41.352	52.931	12.5	27.2	0.236	32	41.352	52.931	12.5	27.2	0.233	32	41.352	52.931	12.5	27.2	0.233
Total Oxygen Injected Per Day (lb)			**65.279**						**68.065**						**65.669**					
Injection Bank 2	Point 1A	15	34	37.392	47.862	5.0	19.7	0.155	30	32.993	42.231	5.0	19.7	0.134	30	32.993	42.231	5.0	19.7	0.135
	Point 1B	25	34	39.694	50.808	7.5	22.2	0.185	30	35.024	44.830	7.5	22.2	0.161	28	32.689	41.842	7.5	22.2	0.150
	Point 2A	15	34	36.914	47.250	4.5	19.2	0.149	30	32.571	41.691	4.5	19.2	0.129	28	30.400	38.912	4.5	19.2	0.121
	Point 2B	25	34	39.694	50.808	7.5	22.2	0.185	28	32.689	41.842	7.5	22.2	0.150	30	34.627	44.323	7.0	21.7	0.156
	Point 3A	15	36	38.573	49.374	4.0	18.7	0.152	30	32.145	41.145	4.0	18.7	0.124	28	30.400	38.912	4.5	19.2	0.121
	Point 3B	25	32	38.600	49.408	9.0	23.7	0.192	28	33.775	43.232	9.0	23.7	0.166	30	36.567	46.806	9.5	24.2	0.183
	Point 4A	15	34	37.392	47.862	5.0	19.7	0.155	30	32.993	42.231	5.0	19.7	0.134	28	30.793	39.415	5.0	19.7	0.126
Total Oxygen Injected Per Day (lb)			**37.541**						**31.971**						**31.748**					
System Total Per Day (lb)			**102.82**						**100.04**						**97.42**					

Oxygen Going to OU-3 (Community Road)

		Depth	10/30/2013 SCFH (M)	10/30/2013 SCFH (C*)	10/30/2013 CF/D (V)	10/30/2013 PSI (M)	10/30/2013 PSIa (P)	10/30/2013 n=PV/RT lbs O2	11/7/2013 SCFH (M)	11/7/2013 SCFH (C*)	11/7/2013 CF/D (V)	11/7/2013 PSI (M)	11/7/2013 PSIa (P)	11/7/2013 n=PV/RT lbs O2	12/3/2013 SCFH (M)	12/3/2013 SCFH (C*)	12/3/2013 CF/D (V)	12/3/2013 PSI (M)	12/3/2013 PSIa (P)	12/3/2013 n=PV/RT lbs O2
Injection Bank 2	Point 16	21	32	37.359	47.819	7.5	22.2	0.174	30	35.024	44.830	7.5	22.2	0.161	30	35.024	44.830	7.5	22.2	0.161
	Point 17	21	30	35.804	45.829	8.5	23.2	0.175	28	33.417	42.774	8.5	23.2	0.160	28	33.417	42.774	8.5	23.2	0.161
	Point 29	21	28	32.689	41.842	7.5	22.2	0.153	28	32.689	41.842	7.5	22.2	0.150	30	35.024	44.830	7.5	22.2	0.161
Total Oxygen Injected Per Day (lb)			**16.049**						**15.082**						**15.458**					
Injection Bank 3	Point 18	21	32	37.359	59.774	7.5	22.2	0.218	32	37.777	60.443	8.0	22.7	0.222	32	37.777	60.443	8.0	22.7	0.222
	Point 19A	16	32	36.074	57.719	6.0	20.7	0.196	32	36.074	57.719	6.0	20.7	0.193	32	36.074	57.719	6.0	20.7	0.193
	Point 19B	27	30	36.567	58.508	9.5	24.2	0.233	30	36.567	58.508	9.5	24.2	0.229	30	36.567	58.508	9.5	24.2	0.229
	Point 25A	16	34	36.430	58.289	4.0	18.7	0.179	34	35.443	56.709	3.0	17.7	0.162	34	36.430	58.289	4.0	18.7	0.177
	Point 26A	16	32	35.636	57.018	5.5	20.2	0.189	34	37.863	60.581	5.5	20.2	0.198	32	36.074	57.719	6.0	20.7	0.193
	Point 26B	27	30	36.943	59.109	10.0	24.7	0.240	34	41.013	65.620	9.0	23.7	0.251	34	42.291	67.665	10.5	25.2	0.276
	Point 27A	16	34	37.863	60.581	5.5	20.2	0.201	34	37.863	60.581	5.5	20.2	0.198	34	38.329	61.327	6.0	20.7	0.206
	Point 27B	27	32	39.406	63.050	10.0	24.7	0.256	32	39.803	63.685	10.5	25.2	0.259	32	39.803	63.685	10.5	25.2	0.260
	Point 28A	16	32	35.636	57.018	5.5	20.2	0.189	34	38.329	61.327	6.0	20.7	0.205	32	36.074	57.719	6.0	20.7	0.193
	Point 28B	27	32	39.803	63.685	10.5	25.2	0.264	34	42.291	67.665	10.5	25.2	0.276	32	39.803	63.685	10.5	25.2	0.260
Total Oxygen Injected Per Day (lb)			**69.253**						**70.166**						**70.723**					
Injection Bank 4	Point 20A	16	30	34.627	55.403	7.0	21.7	0.197	30	34.627	55.403	7.0	21.7	0.194	30	34.627	55.403	7.0	21.7	0.195
	Point 21B	27	32	39.406	63.050	10.0	24.7	0.256	30	36.943	59.109	10.0	24.7	0.236	30	36.943	59.109	10.0	24.7	0.236
	Point 22A	16	30	34.226	54.761	6.5	21.2	0.191	30	34.226	54.761	6.5	21.2	0.188	32	36.508	58.412	6.5	21.2	0.201
	Point 22B	27	30	37.684	60.294	11.0	25.7	0.254	32	40.196	64.313	11.0	25.7	0.267	32	40.196	64.313	11.0	25.7	0.268
	Point 23A	16	30	33.409	53.454	5.5	20.2	0.177	30	33.409	53.454	5.5	20.2	0.174	30	33.409	53.454	5.5	20.2	0.175
	Point 23C	11	32	34.287	54.860	4.0	18.7	0.168	30	32.145	51.431	4.0	18.7	0.155	32	34.287	54.860	4.0	18.7	0.166
	Point 24B	27	26	32.340	51.744	10.5	25.2	0.214	30	37.315	59.704	10.5	25.2	0.243	30	37.315	59.704	10.5	25.2	0.244
	Point 31A	11	34	35.940	57.504	3.5	18.2	0.172	30	32.145	51.431	4.0	18.7	0.155	32	34.287	54.860	4.0	18.7	0.166
	Point 32B	21	30	35.024	56.038	7.5	22.2	0.204	30	35.416	56.666	8.0	22.7	0.208	32	37.777	60.443	8.0	22.7	0.222
	Point 33B	21	36	37.528	60.045	3.0	17.7	0.175	30	31.273	50.037	3.0	17.7	0.143	32	33.358	53.373	3.0	17.7	0.153
Total Oxygen Injected Per Day (lb)			**64.292**						**62.860**						**64.813**					
Injection Bank 5	Point 20B	27	30	37.315	59.704	10.0	24.7	0.242	32	39.803	63.685	10.5	25.2	0.259	30	37.315	59.704	10.5	25.2	0.244
	Point 21A	16	30	33.820	54.112	6.0	20.7	0.184	30	33.820	54.112	6.0	20.7	0.181	30	33.820	54.112	6.0	20.7	0.181
	Point 23B	27	30	36.567	58.508	9.0	23.7	0.228	32	39.005	62.408	9.5	24.2	0.244	30	36.567	58.508	9.5	24.2	0.229
	Point 24A	16	30	33.820	54.112	6.0	20.7	0.184	30	33.820	54.112	6.0	20.7	0.181	32	36.074	57.719	6.0	20.7	0.193
	Point 25B	27	30	33.820	54.112	6.0	20.7	0.184	34	38.329	61.327	6.0	20.7	0.205	34	38.329	61.327	6.0	20.7	0.206
	Point 31B	33	24	30.728	49.165	12.0	26.7	0.216	32	40.970	65.553	12.0	26.7	0.283	32	40.970	65.553	12.0	26.7	0.283
	Point 32A	11	30	32.145	51.431	4.0	18.7	0.158	30	32.145	51.431	4.0	18.7	0.155	30	32.145	51.431	4.0	18.7	0.156
	Point 32C	33	30	38.768	62.028	12.5	27.2	0.277	36	46.521	74.434	12.5	27.2	0.327	30	38.768	62.028	12.5	27.2	0.273
	Point 33A	11	30	35.024	56.038	7.5	22.2	0.204	34	39.694	63.510	7.5	22.2	0.228	32	37.359	59.774	7.5	22.2	0.215
	Point 33C	33	30	38.410	61.456	12.0	26.7	0.269	38	48.652	77.844	12.0	26.7	0.336	34	43.531	69.650	12.0	26.7	0.301
Total Oxygen Injected Per Day (lb)			**68.681**						**76.791**						**73.024**					
System Total Per Day (lb)			**218.28**						**224.90**						**224.02**					

Appendix D - Table D-2
Operational Data - 60/66 North Clinton and Community Road Oxygen Injection Systems
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Total Weight of Oxygen Injected through Q4 2013	348,483	lbs
Weight of Oxygen Injected through Q4 2013 (OU-1)	131,975	lbs
Weight of Oxygen Injected through Q4 2013 (OU-3)	216,508	lbs

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

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-14	31	3,206
Month 2	Feb-14	28	2,699
Month 3	Mar-14	29	2,880
Total Operational Days In Q1 2014			88
Total Oxygen in OU-1 in Q1 2014 (lbs)			8,785.28
Running Total for Oxygen to OU-1 Through Q1 2014 (lbs)			140,760.48

Oxygen to OU-3 (Community Road)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-14	31	8,907
Month 2	Feb-14	28	7,969
Month 3	Mar-14	29	8,547
Total Operational Days In Q1 2014			88
Total Oxygen in OU-1 in Q1 2014 (lbs)			25,423.54
Running Total for Oxygen to OU-3 Through Q1 2014 (lbs)			241,931.19

Running Total for Oxygen System (OU-1 and OU-3) Through Q1 2014 (lbs)	**382,691.68**

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

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
(Keep repeating cycle for course of day)

System was down for two days in March due to biannual maintenance and the oil level in the compressor being too high.

	1/9/2014	2/27/2014	3/21/2014
O_2%	95.5	93.4	92.5
R	10.73	10.73	10.73
Temp R (T)	530	530	530

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

		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A*	25	40	47.221	60.443	8.0	22.7	0.230	32	37.777	48.355	8.0	22.7	0.180	32	37.777	48.355	8.0	22.7	0.179
	Point 1B*	35	30	38.048	48.702	11.5	26.2	0.214	30	38.048	48.702	11.5	26.2	0.210	32	40.585	51.949	11.5	26.2	0.221
	Point 2A*	25	34	40.138	51.377	8.0	22.7	0.196	28	33.055	42.310	8.0	22.7	0.158	32	37.777	48.355	8.0	22.7	0.179
	Point 2B*	35	30	38.768	49.623	12.5	27.2	0.227	30	38.768	49.623	12.5	27.2	0.222	32	41.352	52.931	12.5	27.2	0.234
	Point 3A*	25	34	38.789	49.650	6.5	21.2	0.177	28	31.944	40.888	6.5	21.2	0.142	34	38.789	49.650	6.5	21.2	0.171
	Point 3B*	35	32	41.352	52.931	12.5	27.2	0.242	30	38.768	49.623	12.5	27.2	0.222	30	38.768	49.623	12.5	27.2	0.220
	Point 4A*	25	34	40.578	51.940	8.5	23.2	0.202	28	33.417	42.774	8.5	23.2	0.163	30	35.804	45.829	8.5	23.2	0.173
	Point 4B*	35	32	41.731	53.415	13.0	27.7	0.248	30	39.122	50.077	13.0	27.7	0.228	30	39.122	50.077	13.0	27.7	0.226
	Point 5A*	25	34	41.013	52.496	9.0	23.7	0.209	28	33.775	43.232	9.0	23.7	0.168	32	38.600	49.408	9.0	23.7	0.190
	Point 5B*	35	24	31.298	40.061	13.0	27.7	0.186	30	39.122	50.077	13.0	27.7	0.228	32	41.731	53.415	13.0	27.7	0.241
Total Oxygen Injected Per Day (lb)			**68.219**						**61.446**						**65.058**					
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
	Point 6	25	30	33.409	42.763	5.5	20.2	0.145	30	33.409	42.763	5.5	20.2	0.142	30	33.409	42.763	5.5	20.2	0.141
	Point 7	25	30	35.416	45.332	8.0	22.7	0.173	32	37.777	48.355	8.0	22.7	0.180	32	37.777	48.355	8.0	22.7	0.179
	Point 8	25	30	32.993	42.231	5.0	19.7	0.140	30	32.993	42.231	5.0	19.7	0.137	30	32.993	42.231	5.0	19.7	0.135
	Point 9	25	30	35.416	45.332	8.0	22.7	0.173	30	35.416	45.332	8.0	22.7	0.169	30	35.416	45.332	8.0	22.7	0.167
	Point 10	25	30	32.571	41.691	4.5	19.2	0.134	30	32.993	42.231	5.0	19.7	0.137	29	31.893	40.823	5.0	19.7	0.131
	Point 11	25	30	36.567	46.806	9.5	24.2	0.190	30	36.567	46.806	9.5	24.2	0.186	28	34.480	44.135	10.0	24.7	0.177
	Point 12	25	30	33.409	42.763	5.5	20.2	0.145	30	33.409	42.763	5.5	20.2	0.142	30	33.409	42.763	5.5	20.2	0.141
Total Oxygen Injected Per Day (lb)			**35.203**						**34.955**						**34.252**					
System Total Per Day (lb)			**103.42**						**96.40**						**99.31**					

Oxygen Going to OU-3 (Community Road)

		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 16	21	32	37.777	48.355	8.0	22.7	0.184	32	36.936	47.278	7.0	21.7	0.168	30	35.024	44.830	7.5	22.2	0.162
	Point 17	21	30	36.188	46.320	9.0	23.7	0.184	30	36.188	46.320	9.0	23.7	0.180	30	35.804	45.829	8.5	23.2	0.173
	Point 29	21	30	35.416	45.332	8.0	22.7	0.173	30	35.416	45.332	8.0	22.7	0.169	30	35.416	45.332	8.0	22.7	0.167
Total Oxygen Injected Per Day (lb)			**17.328**						**16.570**						**16.070**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 18	21	34	40.138	64.221	8.0	22.7	0.245	28	33.417	53.467	8.5	23.2	0.204	30	35.416	56.666	8.0	22.7	0.209
	Point 19A	16	32	36.508	58.412	6.5	21.2	0.208	28	31.944	51.111	6.5	21.2	0.178	30	34.226	54.761	6.5	21.2	0.189
	Point 19B	27	32	39.406	63.050	10.0	24.7	0.262	28	34.480	55.169	10.0	24.7	0.224	30	36.943	59.109	10.0	24.7	0.237
	Point 25A	16	36	38.054	60.887	3.5	18.2	0.186	30	31.712	50.739	3.5	18.2	0.152	30	31.712	50.739	3.5	18.2	0.150
	Point 26A	16	32	36.074	57.719	6.0	20.7	0.201	30	34.226	54.761	6.5	21.2	0.191	32	36.508	58.412	6.5	21.2	0.201
	Point 26B	27	32	39.803	63.685	10.5	25.2	0.270	30	37.684	60.294	11.0	25.7	0.254	30	36.943	59.109	10.0	24.7	0.237
	Point 27A	16	34	38.329	61.327	6.0	20.7	0.213	30	33.820	54.112	6.0	20.7	0.184	30	33.820	54.112	6.0	20.7	0.182
	Point 27B	27	32	39.803	63.685	10.5	25.2	0.270	28	34.828	55.724	10.5	25.2	0.231	30	37.315	59.704	10.5	25.2	0.245
	Point 28A	16	32	36.074	57.719	6.0	20.7	0.201	28	31.565	50.504	6.0	20.7	0.172	34	38.329	61.327	6.0	20.7	0.206
	Point 28B	27	32	40.196	64.313	11.0	25.7	0.278	30	37.684	60.294	11.0	25.7	0.254	30	37.684	60.294	11.0	25.7	0.252
Total Oxygen Injected Per Day (lb)			**74.605**						**65.379**						**67.522**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 20A	16	28	32.319	51.710	7.0	21.7	0.188	30	34.627	55.403	7.0	21.7	0.197	26	30.010	48.016	7.0	21.7	0.169
	Point 21B	27	28	34.828	55.724	10.5	25.2	0.236	30	37.315	59.704	10.5	25.2	0.247	30	37.315	59.704	10.5	25.2	0.245
	Point 22A	16	28	32.319	51.710	7.0	21.7	0.188	30	34.627	55.403	7.0	21.7	0.197	34	39.244	62.790	7.0	21.7	0.222
	Point 22B	27	32	40.196	64.313	11.0	25.7	0.278	28	35.171	56.274	11.0	25.7	0.238	28	35.171	56.274	11.0	25.7	0.235
	Point 23A	16	28	31.565	50.504	6.0	20.7	0.176	30	33.820	54.112	6.0	20.7	0.184	34	38.329	61.327	6.0	20.7	0.206
	Point 23C	11	28	30.400	48.640	4.5	19.2	0.157	30	32.571	52.114	4.5	19.2	0.164	32	34.743	55.589	4.5	19.2	0.174
	Point 24B	27	30	37.684	60.294	11.0	25.7	0.260	28	35.171	56.274	11.0	25.7	0.238	30	37.684	60.294	11.0	25.7	0.252
	Point 31A	11	28	30.002	48.002	4.0	18.7	0.151	30	32.145	51.431	4.0	18.7	0.158	30	32.145	51.431	4.0	18.7	0.156
	Point 32B	21	28	33.055	52.888	8.0	22.7	0.202	30	35.416	56.666	8.0	22.7	0.211	30	35.416	56.666	8.0	22.7	0.209
	Point 33B	21	30	31.712	50.739	3.5	18.2	0.155	30	31.712	50.739	3.5	18.2	0.152	30	35.416	56.666	8.0	22.7	0.209
Total Oxygen Injected Per Day (lb)			**63.689**						**63.560**						**66.498**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 20B	27	28	34.828	55.724	10.5	25.2	0.236	28	34.828	55.724	10.5	25.2	0.231	32	39.803	63.685	11.0	25.7	0.266
	Point 21A	16	30	34.627	55.403	6.5	21.2	0.197	30	34.627	55.403	7.0	21.7	0.197	30	34.627	55.403	7.0	21.7	0.196
	Point 23B	27	28	34.130	54.607	9.5	24.2	0.222	30	36.567	58.508	9.5	24.2	0.233	30	36.567	58.508	10.0	24.7	0.235
	Point 24A	16	30	34.226	54.761	6.5	21.2	0.195	28	31.944	51.111	6.5	21.2	0.178	32	36.508	58.412	6.5	21.2	0.201
	Point 25B	27	30	34.226	54.761	6.5	21.2	0.195	30	34.226	54.761	6.5	21.2	0.191	32	36.508	58.412	7.0	21.7	0.206
	Point 31B	33	30	38.768	62.028	12.5	27.2	0.283	30	38.768	62.028	12.5	27.2	0.277	32	41.352	66.164	12.0	26.7	0.287
	Point 32A	11	28	30.400	48.640	4.0	18.7	0.153	30	32.571	52.114	4.5	19.2	0.164	32	34.743	55.589	4.5	19.2	0.174
	Point 32C	33	28	36.514	58.423	13.0	27.7	0.272	30	39.122	62.596	13.0	27.7	0.285	32	41.731	66.769	13.0	27.7	0.301
	Point 33A	11	28	32.689	52.302	7.5	22.2	0.195	30	35.024	56.038	7.5	22.2	0.204	32	37.359	59.774	4.0	18.7	0.182
	Point 33C	33	30	38.768	62.028	12.5	27.2	0.283	30	38.768	62.028	12.5	27.2	0.277	34	43.937	70.299	12.5	27.2	0.311
Total Oxygen Injected Per Day (lb)			**71.393**						**71.580**						**75.489**					

Appendix D - Table D-2
Operational Data - 60/66 North Clinton and Community Road Oxygen Injection Systems
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Total Weight of Oxygen Injected through Q4 2013	348,483 lbs
Weight of Oxygen Injected through Q4 2013 (OU-1)	131,975 lbs
Weight of Oxygen Injected through Q4 2013 (OU-3)	216,508 lbs

			1/9/2014						2/27/2014						3/21/2014					
		O_2%	95.5						93.4						92.5					
		R	10.73						10.73						10.73					
		Temp R (T)	530						530						530					
Injection Bank 6	Point 4B	25	24	29.254	46.806	9.5	24.2	0.190	32	39.005	62.408	9.5	24.2	0.248	30	36.567	58.508	9.5	24.2	0.230
	Point 5A	15	24	26.727	42.763	5.0	19.7	0.141	28	31.182	49.891	5.5	20.2	0.166	30	33.409	53.454	5.0	19.7	0.171
	Point 5B	25	28	33.775	54.040	8.0	22.7	0.206	30	36.188	57.900	9.0	23.7	0.225	32	38.600	61.760	9.0	23.7	0.238
	Point 6	25	28	34.130	54.607	9.5	24.2	0.222	30	36.567	58.508	9.5	24.2	0.233	30	36.567	58.508	9.5	24.2	0.230
	Point 7	25	34	41.443	66.309	9.0	23.7	0.264	30	36.567	58.508	9.5	24.2	0.233	32	39.005	62.408	9.5	24.2	0.246
	Point 10	15	24	26.394	42.231	5.0	19.7	0.140	30	32.993	52.788	5.0	19.7	0.171	34	37.392	59.827	5.0	19.7	0.192
	Point 11	25	22	26.538	42.460	9.0	23.7	0.169	34	41.013	65.620	9.0	23.7	0.255	32	38.600	61.760	9.0	23.7	0.238
	Point 13	25	30	36.188	57.900	8.5	23.2	0.226	32	38.600	61.760	9.0	23.7	0.240	32	38.600	61.760	9.0	23.7	0.238
	Point 14	15	36	38.573	61.717	4.5	19.2	0.199	32	34.287	54.860	4.0	18.7	0.168	30	32.145	51.431	4.5	19.2	0.161
	Point 16	15	22	24.195	38.712	5.0	19.7	0.128	30	32.993	52.788	5.0	19.7	0.171	32	35.192	56.308	9.0	23.7	0.217
Total Oxygen Injected Per Day (lb)			**60.315**						**67.517**						**69.157**					
System Total Per Day (lb)			**287.33**						**284.61**						**294.74**					

Appendix D - Table D-2
Operational Data - 60/66 North Clinton and Community Road Oxygen Injection Systems
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Total Weight of Oxygen Injected through Q1 2014	348,483 lbs
Weight of Oxygen Injected through Q1 2014 (OU-1)	140,760 lbs
Weight of Oxygen Injected through Q1 2014 (OU-3)	241,931 lbs

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

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-14	30	2,468
Month 2	May-14	31	2,222
Month 3	Jun-14	28	2,544
Total Operational Days In Q2 2014			89
Total Oxygen in OU-1 in Q2 2014 (lbs)			7,233.90
Running Total for Oxygen to OU-1 Through Q2 2014 (lbs)			147,994.38

Oxygen to OU-3 (Community Road)

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-14	30	6,698
Month 2	May-14	31	6,234
Month 3	Jun-14	28	7,211
Total Operational Days In Q2 2014			89
Total Oxygen in OU-1 in Q2 2014 (lbs)			20,142.52
Running Total for Oxygen to OU-3 Through Q2 2014 (lbs)			262,073.71

Running Total for Oxygen System (OU-1 and OU-3) Through Q2 2014 (lbs)	**410,068.09**

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

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

			4/10/2014						5/6/2014						6/11/2014					
	O_2%		95.6						95.4						93.6					
	R		10.73						10.73						10.73					
	Temp R (T)		634						629						647					
			Oxygen Going to OU-1 (60/66 N. Clinton)																	
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A*	25	36	42.499	54.399	8.0	22.7	0.174	24	28.333	36.266	8.0	22.7	0.116	36	42.499	54.399	8.0	22.7	0.166
	Point 1B*	35	26	32.975	42.208	11.5	26.2	0.155	30	38.048	48.702	11.5	26.2	0.180	34	42.708	54.666	11.0	25.7	0.189
	Point 2A*	25	30	35.416	45.332	8.0	22.7	0.145	26	30.694	39.288	8.0	22.7	0.126	36	42.499	54.399	8.0	22.7	0.166
	Point 2B*	35	26	33.599	43.006	12.5	27.2	0.164	28	36.183	46.315	12.5	27.2	0.178	36	46.521	59.547	12.5	27.2	0.218
	Point 3A*	25	30	34.226	43.809	6.5	21.2	0.131	24	27.381	35.047	6.5	21.2	0.105	38	42.838	54.833	6.0	20.7	0.153
	Point 3B*	35	28	36.514	46.738	13.0	27.7	0.182	28	36.514	46.738	13.0	27.7	0.183	34	43.937	56.239	12.5	27.2	0.206
	Point 4A*	25	30	35.804	45.829	8.5	23.2	0.149	26	31.030	39.718	8.5	23.2	0.130	36	42.965	54.995	8.5	23.2	0.172
	Point 4B*	35	26	33.906	43.400	13.0	27.7	0.169	28	36.514	46.738	13.0	27.7	0.183	36	46.947	60.092	13.0	27.7	0.224
	Point 5A*	25	30	36.188	46.320	9.0	23.7	0.154	26	31.363	40.144	9.0	23.7	0.134	34	41.013	52.496	9.0	23.7	0.168
	Point 5B*	35	30	39.122	50.077	13.0	27.7	0.195	26	33.906	43.400	13.0	27.7	0.170	34	44.339	56.754	13.0	27.7	0.212
Total Oxygen Injected Per Day (lb)			**51.775**						**48.209**						**60.038**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 6	25	30	33.409	42.763	5.5	20.2	0.121	22	24.500	31.360	5.5	20.2	0.090	32	35.636	45.614	5.5	20.2	0.124
	Point 7	25	32	37.777	48.355	8.0	22.7	0.154	20	23.611	30.222	8.0	22.7	0.097	36	42.499	54.399	8.0	22.7	0.166
	Point 8	25	30	32.993	42.231	5.0	19.7	0.117	22	24.195	30.969	5.0	19.7	0.086	32	35.192	45.046	5.0	19.7	0.120
	Point 9	25	30	35.804	45.829	8.5	23.2	0.149	26	31.030	39.718	8.5	23.2	0.130	32	37.777	48.355	8.0	22.7	0.148
	Point 10	25	30	32.993	42.231	5.0	19.7	0.117	24	26.394	33.785	5.0	19.7	0.094	34	36.914	47.250	4.5	19.2	0.122
	Point 11	25	30	36.943	47.287	10.0	24.7	0.164	26	31.692	40.565	9.5	24.2	0.139	32	39.005	49.927	9.5	24.2	0.163
	Point 12	25	32	35.636	45.614	5.5	20.2	0.129	24	26.727	34.211	5.5	20.2	0.098	32	35.192	45.046	5.0	19.7	0.120
Total Oxygen Injected Per Day (lb)			**30.480**						**23.473**						**30.823**					
System Total Per Day (lb)			**82.26**						**71.68**						**90.86**					

			4/10/2014						5/6/2014						6/11/2014					
			Oxygen Going to OU-3 (Community Road)																	
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 16	21	36	41.553	53.187	7.0	21.7	0.162	24	26.394	33.785	5.0	19.7	0.094	34	40.138	51.377	8.0	22.7	0.157
	Point 17	21	30	36.188	46.320	9.0	23.7	0.154	24	28.950	37.056	9.0	23.7	0.124	32	38.600	49.408	9.0	23.7	0.158
	Point 29	21	30	35.416	45.332	8.0	22.7	0.145	24	28.333	36.266	8.0	22.7	0.116	32	37.777	48.355	8.0	22.7	0.148
Total Oxygen Injected Per Day (lb)			**14.755**						**10.707**						**14.819**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 18	21	22	25.972	41.555	8.0	22.7	0.133	28	33.417	53.467	8.5	23.2	0.175	38	44.860	71.776	8.0	22.7	0.220
	Point 19A	16	24	27.056	43.289	6.0	20.7	0.126	26	29.662	47.460	6.5	21.2	0.142	38	42.838	68.542	6.0	20.7	0.191
	Point 19B	27	24	29.254	46.806	9.5	24.2	0.159	24	29.555	47.287	10.0	24.7	0.165	38	46.795	74.872	10.0	24.7	0.249
	Point 25A	16	26	27.484	43.974	3.5	18.2	0.112	22	22.607	36.172	2.5	17.2	0.088	36	38.573	61.717	4.0	18.7	0.156
	Point 26A	16	28	31.565	50.504	6.0	20.7	0.147	28	31.944	51.111	6.5	21.2	0.153	36	40.584	64.934	6.0	20.7	0.181
	Point 26B	27	30	36.943	59.109	10.0	24.7	0.205	32	38.600	61.760	9.0	23.7	0.207	36	44.778	71.645	10.5	25.2	0.243
	Point 27A	16	26	28.954	46.327	5.5	20.2	0.132	28	31.944	51.111	6.5	21.2	0.153	36	40.584	64.934	6.0	20.7	0.181
	Point 27B	27	30	37.315	59.704	10.5	25.2	0.211	28	35.171	56.274	11.0	25.7	0.204	36	45.220	72.353	11.0	25.7	0.251
	Point 28A	16	26	29.311	46.897	6.0	20.7	0.136	26	29.662	47.460	6.5	21.2	0.142	42	47.348	75.756	6.0	20.7	0.211
	Point 28B	27	28	35.171	56.274	11.0	25.7	0.203	28	35.512	56.819	11.5	26.2	0.210	36	45.220	72.353	11.0	25.7	0.251
Total Oxygen Injected Per Day (lb)			**50.075**						**52.508**						**68.307**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 20A	16	30	35.024	56.038	7.5	22.2	0.175	28	32.689	52.302	7.5	22.2	0.164	30	34.627	55.403	7.0	21.7	0.162
	Point 21B	27	28	34.828	55.724	10.5	25.2	0.197	26	32.340	51.744	10.5	25.2	0.184	30	37.315	59.704	10.5	25.2	0.203
	Point 22A	16	30	34.627	55.403	7.0	21.7	0.169	24	27.702	44.323	7.0	21.7	0.136	34	39.244	62.790	7.0	21.7	0.184
	Point 22B	27	26	32.659	52.255	11.0	25.7	0.189	22	25.684	41.095	7.5	22.2	0.129	30	38.048	60.878	11.5	26.2	0.215
	Point 23A	16	28	31.565	50.504	6.0	20.7	0.147	26	29.662	47.460	6.5	21.2	0.142	32	36.074	57.719	6.0	20.7	0.161
	Point 23C	11	28	30.400	48.640	4.5	19.2	0.131	22	24.195	38.712	5.0	19.7	0.108	36	39.086	62.537	4.5	19.2	0.162
	Point 24B	27	30	37.684	60.294	11.0	25.7	0.218	24	30.439	48.702	11.5	26.2	0.180	36	45.220	72.353	11.0	25.7	0.251
	Point 31A	11	26	27.859	44.574	4.0	18.7	0.117	26	28.229	45.166	4.5	19.2	0.123	34	36.430	58.289	4.0	18.7	0.147
	Point 32B	21	28	33.417	53.467	8.5	23.2	0.174	26	30.694	49.110	8.0	22.7	0.158	34	40.138	64.221	8.0	22.7	0.197
	Point 33B	21	32	37.777	60.443	8.0	22.7	0.193	28	33.055	52.888	8.0	22.7	0.170	48	56.666	90.665	8.0	22.7	0.277
Total Oxygen Injected Per Day (lb)			**54.721**						**47.794**						**62.668**					

Appendix D - Table D-2
Operational Data - 60/66 North Clinton and Community Road Oxygen Injection Systems
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Total Weight of Oxygen Injected through Q1 2014	348,483 lbs
Weight of Oxygen Injected through Q1 2014 (OU-1)	140,760 lbs
Weight of Oxygen Injected through Q1 2014 (OU-3)	241,931 lbs

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
(Keep repeating cycle for course of day)

note: in injection bank 6, Point 10, 13, and 9 were changed to Point 12, 15, and 16 respectively for the June check.

down time caused by power outages (April: 3 hours only and June: 2 days) and air compressor overheating (may: <4 hours)

			4/10/2014						5/6/2014						6/11/2014					
		O_2%	95.6						95.4						93.6					
		R	10.73						10.73						10.73					
		Temp R (T)	634						629						647					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 20B	27	30	37.684	60.294	11.0	25.7	0.218	26	32.659	52.255	11.0	25.7	0.190	30	37.684	60.294	11.0	25.7	0.209
	Point 21A	16	28	32.319	51.710	7.0	21.7	0.158	26	30.010	48.016	7.0	21.7	0.147	30	34.627	55.403	7.0	21.7	0.162
	Point 23B	27	28	34.480	55.169	10.0	24.7	0.191	28	34.480	55.169	10.0	24.7	0.193	32	39.406	63.050	10.0	24.7	0.210
	Point 24A	16	26	29.662	47.460	6.5	21.2	0.141	26	29.662	47.460	6.5	21.2	0.142	30	34.226	54.761	6.5	21.2	0.157
	Point 25B	27	30	34.226	54.761	6.5	21.2	0.163	26	29.662	47.460	6.5	21.2	0.142	34	38.789	62.063	6.5	21.2	0.177
	Point 31B	33	24	31.014	49.623	12.0	26.7	0.186	28	36.183	57.893	12.5	27.2	0.223	32	41.352	66.164	12.5	27.2	0.243
	Point 32A	11	28	30.400	48.640	4.5	19.2	0.131	24	26.057	41.691	4.5	19.2	0.113	30	32.571	52.114	4.0	18.7	0.131
	Point 32C	33	24	31.298	50.077	13.0	27.7	0.195	26	33.906	54.250	13.0	27.7	0.212	28	36.514	58.423	13.0	27.7	0.218
	Point 33A	11	28	30.002	48.002	4.0	18.7	0.126	16	17.144	27.430	4.0	18.7	0.073	28	30.002	48.002	4.0	18.7	0.121
	Point 33C	33	26	28.594	45.750	13.0	27.7	0.178	0	0.000	0.000	5.0	19.7	0.000	24	26.394	42.231	12.5	27.2	0.155
Total Oxygen Injected Per Day (lb)			**54.019**						**45.914**						**57.057**					
Injection Bank 6	Point 4B	25	24	29.555	47.287	9.5	24.2	0.161	20	24.629	39.406	10.0	24.7	0.138	24	29.555	47.287	9.5	24.2	0.154
	Point 5A	15	24	26.727	42.763	5.0	19.7	0.118	22	24.500	39.200	5.5	20.2	0.112	24	26.727	42.763	5.0	19.7	0.114
	Point 5B	25	26	31.692	50.707	9.0	23.7	0.169	22	26.816	42.906	9.5	24.2	0.147	24	29.254	46.806	9.0	23.7	0.150
	Point 6	25	26	32.017	51.228	9.5	24.2	0.174	20	24.629	39.406	10.0	24.7	0.138	20	24.629	39.406	9.5	24.2	0.129
	Point 7	25	28	34.130	54.607	9.5	24.2	0.186	26	31.692	50.707	9.5	24.2	0.173	24	29.254	46.806	9.5	24.2	0.153
	Point 10	15	24	26.727	42.763	5.0	19.7	0.118	20	22.273	35.636	5.5	20.2	0.102	38	42.318	67.709	5.5	20.2	0.184
	Point 11	25	26	31.692	50.707	9.5	24.2	0.172	24	29.254	46.806	9.5	24.2	0.160	36	43.881	70.209	9.5	24.2	0.229
	Point 13	25	26	31.363	50.180	9.0	23.7	0.167	26	31.363	50.180	9.0	23.7	0.168	38	45.838	73.340	9.5	24.2	0.239
	Point 14	15	28	30.400	48.640	4.5	19.2	0.131	26	28.229	45.166	4.5	19.2	0.123	38	41.257	66.011	4.5	19.2	0.171
	Point 9	25	24	29.254	46.806	9.0	23.7	0.156	18	21.940	35.105	9.5	24.2	0.120	36	43.881	70.209	5.0	19.7	0.186
Total Oxygen Injected Per Day (lb)			**49.699**						**44.158**						**54.683**					
System Total Per Day (lb)			**223.27**						**201.08**						**257.53**					

Appendix D - Table D-3
Operational Data - OU-1 North Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q3 2013: 0 lbs

Oxygen to OU-1 North

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-13	3	349
Month 2	Nov-13	30	4,707
Month 3	Dec-13	31	4,726
Total Operational Days in Q4 2013			64
Total Oxygen in Q4 2013 (lbs)			9,780.84
Running Total for Oxygen to OU-1 North Through Q1 2014 (lbs)			**9,780.84**

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

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

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

System began operation on October 28, 2013.

			10/31/2013						11/26/2013						12/11/2013					
		O_2%	90.0						93.2						92.9					
		R	10.73						10.73						10.73					
		Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	10.5	16	15.200	13.173	0.0	14.7	0.031	18	17.100	14.820	0.0	14.7	0.036	16	15.709	13.614	1.0	15.7	0.035
	Point 1B	25.5	20	23.349	20.236	7.5	22.2	0.071	36	42.029	36.425	7.5	22.2	0.133	34	39.694	34.401	7.5	22.2	0.125
	Point 1C	40.5	18	23.893	20.708	14.0	28.7	0.094	34	45.132	39.114	14.0	28.7	0.184	34	45.523	39.454	14.5	29.2	0.188
	Point 1D	50.5	24	34.006	29.471	18.0	32.7	0.153	36	51.008	44.207	18.0	32.7	0.237	34	48.175	41.751	18.0	32.7	0.223
	Point 2A	10.5	22	20.900	18.113	0.0	14.7	0.042	14	13.300	11.527	0.0	14.7	0.028	14	13.524	11.721	0.5	15.2	0.029
	Point 2B	25.5	24	27.702	24.008	7.0	21.7	0.082	38	43.861	38.013	7.0	21.7	0.135	30	34.226	29.662	6.5	21.2	0.103
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**15.133**						**24.066**						**22.487**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2C	40.5	22	29.203	25.309	14.0	28.7	0.115	30	39.822	34.513	14.0	28.7	0.162	28	37.168	32.212	14.0	28.7	0.151
	Point 2D	50.5	32	45.341	39.295	18.0	32.7	0.203	28	39.673	34.383	18.0	32.7	0.184	38	53.842	46.663	18.0	32.7	0.249
	Point 3A	10.5	24	22.800	19.760	0.0	14.7	0.046	22	20.900	18.113	0.0	14.7	0.044	22	20.900	18.113	0.0	14.7	0.043
	Point 3B	25.5	22	25.393	22.007	7.0	21.7	0.076	40	46.698	40.472	7.5	22.2	0.147	30	34.627	30.010	7.0	21.7	0.106
	Point 3C	40.5	26	34.513	29.911	14.0	28.7	0.136	32	42.477	36.814	14.0	28.7	0.173	30	39.822	34.513	14.0	28.7	0.162
	Point 3D	50.5	26	38.222	33.125	20.5	35.2	0.185	38	56.258	48.757	21.0	35.7	0.285	30	44.102	38.222	20.5	35.2	0.220
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**24.328**						**31.869**						**29.816**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 4A	10.5	28	30.400	26.347	4.5	19.2	0.080	32	35.192	30.500	5.0	19.7	0.098	32	38.191	33.099	8.5	23.2	0.125
	Point 4B	25.5	28	32.689	28.330	7.5	22.2	0.100	32	37.359	32.378	7.5	22.2	0.118	30	35.024	30.354	7.5	22.2	0.110
	Point 4C	40.5	30	39.822	34.513	14.0	28.7	0.157	30	39.822	34.513	14.0	28.7	0.162	36	48.201	41.774	14.5	29.2	0.199
	Point 4D	50.5	26	37.398	32.412	19.0	33.7	0.173	34	48.906	42.385	19.0	33.7	0.234	34	49.267	42.698	19.5	34.2	0.239
	Point 5A	10.5	28	26.600	23.053	0.0	14.7	0.054	14	13.300	11.527	0.0	14.7	0.028	0	0.000	0.000	0.0	14.7	0.000
	Point 5B	25.5	32	36.936	32.011	7.0	21.7	0.110	36	41.553	36.012	7.0	21.7	0.128	38	43.861	38.013	7.0	21.7	0.135
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**21.529**						**24.593**						**25.859**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 5C	40.5	26	35.109	30.428	15.0	29.7	0.143	34	45.912	39.790	15.0	29.7	0.194	36	49.020	42.484	15.5	30.2	0.210
	Point 5D	50.5	20	28.338	24.560	18.0	32.7	0.127	32	45.341	39.295	18.0	32.7	0.211	36	51.397	44.544	18.5	33.2	0.242
	Point 6A	10.5	20	20.552	17.812	2.5	17.2	0.048	32	32.884	28.499	2.5	17.2	0.080	34	34.939	30.280	2.5	17.2	0.085
	Point 6B	25.5	24	27.702	24.008	7.0	21.7	0.082	34	39.244	34.012	7.0	21.7	0.121	0	0.000	0.000	7.5	22.2	0.000
	Point 6C	40.5	22	29.203	25.309	14.0	28.7	0.115	34	45.132	39.114	14.0	28.7	0.184	32	42.477	36.814	14.0	28.7	0.173
	Point 6D	50.5	24	33.482	29.017	17.0	31.7	0.146	30	41.852	36.272	17.0	31.7	0.188	32	44.993	38.994	17.5	32.2	0.205
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**21.171**						**31.295**						**29.247**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 7A	10.5	18	17.100	14.820	0.0	14.7	0.034	10	9.500	8.233	0.0	14.7	0.020	0	0.000	0.000	0.0	14.7	0.000
	Point 7B	25.5	24	27.702	24.008	7.0	21.7	0.082	34	39.244	34.012	7.0	21.7	0.121	36	42.029	36.425	7.5	22.2	0.132
	Point 7C	40.5	24	32.134	27.850	14.5	29.2	0.129	24	32.134	27.850	14.5	29.2	0.133	28	37.490	32.491	14.5	29.2	0.155
	Point 7D	50.5	26	36.557	31.682	17.5	32.2	0.161	36	50.617	43.868	17.5	32.2	0.231	34	48.175	41.751	18.0	32.7	0.223
	Point 8A	10.5	24	24.663	21.374	2.5	17.2	0.058	34	34.939	30.280	2.5	17.2	0.085	34	35.443	30.717	3.0	17.7	0.089
	Point 8B	25.5	22	25.099	21.752	6.5	21.2	0.073	30	34.226	29.662	6.5	21.2	0.103	30	34.226	29.662	6.5	21.2	0.103
	Point 8C	40.5	26	33.599	29.119	12.5	27.2	0.125	32	41.352	35.839	12.5	27.2	0.160	30	38.768	33.599	12.5	27.2	0.149
	Point 8D	50.5	28	39.673	34.383	18.0	32.7	0.178	32	45.341	39.295	18.0	32.7	0.211	32	45.341	39.295	18.0	32.7	0.210
	Total Oxygen Injected Per Day (lb)		**26.929**						**34.058**						**33.947**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 9A	10.5	22	20.900	18.113	0.0	14.7	0.042	16	15.200	13.173	0.0	14.7	0.032	16	15.200	13.173	0.0	14.7	0.032
	Point 9B	25.5	24	26.727	23.163	5.5	20.2	0.074	40	45.093	39.081	6.0	20.7	0.133	38	42.838	37.127	6.0	20.7	0.126
	Point 9C	40.5	22	28.430	24.639	12.5	27.2	0.106	36	46.521	40.318	12.5	27.2	0.180	38	49.106	42.558	12.5	27.2	0.189
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**7.112**						**11.009**						**11.081**					
	System Total Per Day (lb)		**116.20**						**156.89**						**152.44**					

Appendix D - Table D-3
Operational Data - OU-1 North Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q4 2013: 9,781 lbs

Oxygen to OU-1 North

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-14	29	3,655
Month 2	Feb-14	28	4,538
Month 3	Mar-14	31	2,642
Total Operational Days in Q1 2014			88
Total Oxygen in Q1 2014 (lbs)			10,834.26
Running Total for Oxygen to OU-1 North Through Q1 2014 (lbs)			**20,615.10**

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 was down for two days in January due to a compressor fault caused by a power outage.

			1/23/2014						2/4/2014						3/11/2014					
		O_2%	94.1						91.2						91.4					
		R	10.73						10.73						10.73					
		Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	10.5	14	13.745	11.912	1.0	15.7	0.031	0	0.000	0.000	2.0	16.7	0.000	0	0.000	0.000	1.0	15.7	0.000
	Point 1B	25.5	36	42.499	36.833	8.0	22.7	0.138	36	42.499	36.833	8.0	22.7	0.134	12	14.010	12.142	7.5	22.2	0.043
	Point 1C	40.5	34	45.523	39.454	14.5	29.2	0.191	42	56.235	48.737	14.5	29.2	0.228	24	32.134	27.850	14.5	29.2	0.131
	Point 1D	50.5	34	48.541	42.069	18.5	33.2	0.231	42	59.963	51.968	18.5	33.2	0.277	16	22.670	19.648	18.0	32.7	0.103
	Point 2A	10.5	28	27.490	23.825	1.0	15.7	0.062	10	9.818	8.509	1.0	15.7	0.021	0	0.000	0.000	0.5	15.2	0.000
	Point 2B	25.5	36	41.071	35.595	6.5	21.2	0.125	30	34.627	30.010	7.0	21.7	0.104	0	0.000	0.000	6.5	21.2	0.000
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**24.889**						**24.475**						**8.873**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2C	40.5	26	34.513	29.911	14.0	28.7	0.142	30	40.168	34.812	14.5	29.2	0.163	22	29.456	25.529	14.5	29.2	0.120
	Point 2D	50.5	26	37.120	32.171	18.5	33.2	0.177	30	42.831	37.120	18.5	33.2	0.198	18	25.698	22.272	18.5	33.2	0.119
	Point 3A	10.5	32	30.400	26.347	0.0	14.7	0.064	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000
	Point 3B	25.5	40	46.698	40.472	7.5	22.2	0.149	22	25.684	22.260	7.5	22.2	0.079	0	0.000	0.000	7.5	22.2	0.000
	Point 3C	40.5	24	32.134	27.850	14.5	29.2	0.135	30	39.822	34.513	14.0	28.7	0.159	22	29.456	25.529	14.5	29.2	0.120
	Point 3D	50.5	32	47.375	41.058	21.0	35.7	0.243	28	41.742	36.177	21.5	36.2	0.210	16	23.853	20.672	21.5	36.2	0.120
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**29.076**						**25.881**						**15.319**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 4A	10.5	20	24.125	20.908	9.0	23.7	0.082	30	35.804	31.030	8.5	23.2	0.115	20	24.378	21.128	9.5	24.2	0.082
	Point 4B	25.5	24	28.333	24.555	8.0	22.7	0.092	30	35.416	30.694	8.0	22.7	0.112	18	21.250	18.416	8.0	22.7	0.067
	Point 4C	40.5	30	39.822	34.513	14.0	28.7	0.164	30	39.822	34.513	14.0	28.7	0.159	34	45.523	39.454	14.5	29.2	0.185
	Point 4D	50.5	24	34.777	30.140	19.5	34.2	0.171	30	43.471	37.675	19.5	34.2	0.207	24	34.777	30.140	19.5	34.2	0.166
	Point 5A	10.5	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000	0	0.000	0.000	0.0	14.7	0.000
	Point 5B	25.5	30	34.627	30.010	7.0	21.7	0.108	26	30.010	26.009	7.0	21.7	0.091	0	0.000	0.000	7.5	22.2	0.000
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**19.726**						**21.862**						**16.006**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 5C	40.5	20	27.233	23.602	15.5	30.2	0.118	36	49.020	42.484	15.5	30.2	0.206	26	35.403	30.683	15.5	30.2	0.149
	Point 5D	50.5	20	28.554	24.747	18.5	33.2	0.136	38	54.252	47.019	18.5	33.2	0.250	20	28.554	24.747	18.5	33.2	0.132
	Point 6A	10.5	18	18.764	16.262	3.0	17.7	0.048	38	39.613	34.331	3.0	17.7	0.097	16	16.679	14.455	3.0	17.7	0.041
	Point 6B	25.5	10	11.542	10.003	7.0	21.7	0.036	38	44.363	38.448	7.5	22.2	0.137	20	23.349	20.236	7.5	22.2	0.072
	Point 6C	40.5	18	24.101	20.887	14.5	29.2	0.101	36	48.201	41.774	14.5	29.2	0.196	20	26.779	23.208	14.5	29.2	0.109
	Point 6D	50.5	22	30.933	26.808	17.5	32.2	0.143	36	50.617	43.868	17.5	32.2	0.227	22	30.933	26.808	17.5	32.2	0.139
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**18.598**						**35.602**						**20.542**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 7A	10.5	0	0.000	0.000	0.0	14.7	0.000	16	15.200	13.173	0.0	14.7	0.031	0	0.000	0.000	0.0	14.7	0.000
	Point 7B	25.5	24	28.019	24.283	7.5	22.2	0.089	38	44.363	38.448	7.5	22.2	0.137	0	0.000	0.000	6.0	20.7	0.000
	Point 7C	40.5	22	29.707	25.746	15.0	29.7	0.127	34	45.912	39.790	15.0	29.7	0.190	18	24.306	21.065	15.0	29.7	0.101
	Point 7D	50.5	24	34.006	29.471	18.0	32.7	0.159	42	59.510	51.575	18.0	32.7	0.270	0	0.000	0.000	8.5	23.2	0.000
	Point 8A	10.5	30	31.712	27.484	3.5	18.2	0.083	32	33.358	28.910	3.0	17.7	0.082	10	10.424	9.034	3.0	17.7	0.026
	Point 8B	25.5	28	31.944	27.685	6.5	21.2	0.097	32	36.508	31.640	6.5	21.2	0.108	22	25.393	22.007	7.0	21.7	0.077
	Point 8C	40.5	24	31.298	27.125	13.0	27.7	0.124	34	44.339	38.427	13.0	27.7	0.171	10	13.041	11.302	13.0	27.7	0.050
	Point 8D	50.5	26	37.120	32.171	18.5	33.2	0.177	36	51.397	44.544	18.5	33.2	0.237	14	19.988	17.323	18.5	33.2	0.092
	Total Oxygen Injected Per Day (lb)		**27.396**						**39.213**						**11.064**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 9A	10.5	14	13.300	11.527	0.0	14.7	0.028	26	24.700	21.407	0.0	14.7	0.050	22	20.900	18.113	0.0	14.7	0.043
	Point 9B	25.5	20	22.817	19.775	6.5	21.2	0.069	50	57.043	49.437	6.5	21.2	0.168	46	52.480	45.482	6.5	21.2	0.155
	Point 9C	40.5	20	25.845	22.399	12.5	27.2	0.101	50	65.204	56.510	13.0	27.7	0.251	44	57.380	49.729	13.0	27.7	0.221
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	Total Oxygen Injected Per Day (lb)		**6.343**						**15.026**						**13.413**					
	System Total Per Day (lb)		**126.03**						**162.06**						**85.22**					

Appendix D - Table D-3
Operational Data - OU-1 North Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q1 2014: 20,615 lbs

Oxygen to OU-1 North

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-14	30	3,182
Month 2	May-14	31	2,773
Month 3	Jun-14	30	2,950
Total Operational Days in Q2 2014			91
Total Oxygen in Q2 2014 (lbs)			8,904.69
Running Total for Oxygen to OU-1 North Through Q2 2014 (lbs)			**29,519.79**

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)

			4/14/2014						5/13/2014						6/2/2014					
		O_2%	90.9						93.9						93.2					
		R	10.73						10.73						10.73					
		Temp R (T)	632						632						611					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	10.5	20	19.636	17.018	1.0	15.7	0.036	10	10.126	8.776	2.0	16.7	0.020	26	25.930	22.472	1.5	16.2	0.052
	Point 1B	25.5	36	42.499	36.833	8.0	22.7	0.112	24	28.333	24.555	8.0	22.7	0.077	26	30.694	26.601	8.0	22.7	0.086
	Point 1C	40.5	32	43.211	37.449	15.0	29.7	0.149	32	43.211	37.449	15.0	29.7	0.154	30	40.168	34.812	14.5	29.2	0.145
	Point 1D	50.5	45	63.760	55.259	18.0	32.7	0.242	22	31.409	27.221	18.5	33.2	0.125	24	34.265	29.696	18.5	33.2	0.140
	Point 2A	10.5	18	17.672	15.316	1.0	15.7	0.032	10	9.973	8.643	1.5	16.2	0.019	18	17.951	15.558	1.5	16.2	0.036
	Point 2B	25.5	28	32.319	28.009	7.0	21.7	0.081	18	20.536	17.797	6.5	21.2	0.052	20	22.817	19.775	6.5	21.2	0.060
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**20.893**						**14.344**						**16.566**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2C	40.5	34	45.523	39.454	14.5	29.2	0.154	24	32.134	27.850	14.5	29.2	0.113	22	29.456	25.529	14.5	29.2	0.106
	Point 2D	50.5	30	42.831	37.120	18.5	33.2	0.165	14	19.988	17.323	18.5	33.2	0.080	20	28.554	24.747	18.5	33.2	0.117
	Point 3A	10.5	0	0.000	0.000	0.0	14.7	0.000	10	9.500	8.233	0.0	14.7	0.017	10	9.500	8.233	0.0	14.7	0.017
	Point 3B	25.5	38	44.860	38.879	8.0	22.7	0.118	20	23.611	20.463	8.0	22.7	0.064	22	25.972	22.509	8.0	22.7	0.073
	Point 3C	40.5	28	37.810	32.768	15.0	29.7	0.130	16	21.423	18.566	14.5	29.2	0.075	26	34.812	30.170	14.5	29.2	0.125
	Point 3D	50.5	36	53.669	46.513	21.5	36.2	0.226	22	32.798	28.425	21.5	36.2	0.142	30	44.724	38.761	21.5	36.2	0.199
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**25.410**						**15.708**						**20.394**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 4A	10.5	28	34.130	29.579	9.5	24.2	0.096	30	33.820	29.311	6.0	20.7	0.084	24	27.056	23.448	6.0	20.7	0.069
	Point 4B	25.5	22	25.972	22.509	8.0	22.7	0.068	18	21.250	18.416	8.0	22.7	0.058	20	23.611	20.463	8.0	22.7	0.066
	Point 4C	40.5	30	40.168	34.812	14.5	29.2	0.136	24	32.134	27.850	14.5	29.2	0.113	16	21.423	18.566	14.5	29.2	0.077
	Point 4D	50.5	24	34.777	30.140	19.5	34.2	0.138	24	35.030	30.359	20.0	34.7	0.146	22	31.879	27.628	19.5	34.2	0.134
	Point 5A	10.5	0	0.000	0.000	0.0	14.7	0.000	22	21.252	18.419	0.5	15.2	0.039	10	9.500	8.233	0.0	14.7	0.017
	Point 5B	25.5	28	32.689	28.330	7.5	22.2	0.084	20	23.349	20.236	7.5	22.2	0.062	20	23.349	20.236	7.5	22.2	0.064
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**16.742**						**16.043**						**13.680**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 5C	40.5	32	43.573	37.763	15.5	30.2	0.153	26	35.695	30.936	16.0	30.7	0.132	24	32.949	28.556	16.0	30.7	0.125
	Point 5D	50.5	22	31.409	27.221	18.5	33.2	0.121	20	28.554	24.747	18.5	33.2	0.114	26	37.120	32.171	18.5	33.2	0.152
	Point 6A	10.5	20	20.849	18.069	3.0	17.7	0.043	18	18.764	16.262	3.0	17.7	0.040	28	29.188	25.297	3.0	17.7	0.064
	Point 6B	25.5	26	30.354	26.307	7.5	22.2	0.078	16	18.679	16.189	7.5	22.2	0.050	30	35.024	30.354	7.5	22.2	0.096
	Point 6C	40.5	30	40.168	34.812	14.5	29.2	0.136	26	34.812	30.170	14.5	29.2	0.122	26	34.812	30.170	14.5	29.2	0.125
	Point 6D	50.5	28	39.673	34.383	18.0	32.7	0.151	22	31.172	27.016	18.0	32.7	0.122	26	36.839	31.927	18.0	32.7	0.148
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**21.828**						**18.534**						**22.706**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 7A	10.5	0	0.000	0.000	0.0	14.7	0.000	10	9.500	8.233	0.0	14.7	0.017	10	9.500	8.233	0.0	14.7	0.017
	Point 7B	25.5	10	11.675	10.118	7.5	22.2	0.030	16	18.679	16.189	7.5	22.2	0.050	12	14.010	12.142	7.5	22.2	0.038
	Point 7C	40.5	18	24.306	21.065	15.0	29.7	0.084	18	24.306	21.065	15.0	29.7	0.087	16	21.605	18.725	15.0	29.7	0.079
	Point 7D	50.5	20	28.338	24.560	18.0	32.7	0.108	22	31.409	27.221	18.5	33.2	0.125	22	31.172	27.016	18.0	32.7	0.126
	Point 8A	10.5	26	27.103	23.490	3.0	17.7	0.056	22	22.934	19.876	3.0	17.7	0.049	20	20.849	18.069	3.0	17.7	0.045
	Point 8B	25.5	28	32.319	28.009	7.0	21.7	0.081	22	25.393	22.007	7.0	21.7	0.066	22	25.393	22.007	7.0	21.7	0.068
	Point 8C	40.5	16	20.865	18.083	13.0	27.7	0.067	20	26.316	22.807	13.5	28.2	0.089	18	23.684	20.526	13.5	28.2	0.082
	Point 8D	50.5	20	28.768	24.932	19.0	33.7	0.113	18	25.891	22.439	19.0	33.7	0.105	16	22.843	19.797	18.5	33.2	0.093
	Total Oxygen Injected Per Day (lb)		**17.235**						**18.781**						**17.576**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 9A	10.5	0	0.000	0.000	0.0	14.7	0.000	16	15.200	13.173	0.0	14.7	0.027	10	9.500	8.233	0.0	14.7	0.017
	Point 9B	25.5	20	22.817	19.775	6.5	21.2	0.056	22	25.099	21.752	6.5	21.2	0.064	26	29.662	25.707	6.5	21.2	0.077
	Point 9C	40.5	16	20.865	18.083	13.0	27.7	0.067	22	28.948	25.088	13.5	28.2	0.098	30	39.474	34.211	13.5	28.2	0.137
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**3.947**						**6.036**						**7.419**					
	System Total Per Day (lb)		**106.05**						**89.45**						**98.34**					

Appendix E

Appendix E. Table E-1
Operational Data - Garner Lane Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q2 2013: 737,513 lbs

Oxygen to OU-2 - Garner Lane

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-13	31	8,191
Month 2	Aug-13	31	39,198
Month 3	Sep-13	30	8,344
Total Operational Days in Q3 2013			92
Total Oxygen in Q3 2013 (lbs)			55,732.41
Running Total for Oxygen to Garner Lane Through Q3 2013 (lbs)			**793,245.16**

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

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

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

			7/17/2013						8/20/2013						9/12/2013					
	O_2%		89.2						88.9						86.6					
	R		10.73						10.73						10.73					
	Temp R (T)		530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 1	Point 1	25	22	26.538	28.307	9.0	23.7	0.105	24	28.950	30.880	9.0	23.7	0.114	24	28.950	30.880	9.0	23.7	0.111
	Point 2	25	22	25.684	27.396	7.5	22.2	0.095	24	28.019	29.887	7.5	22.2	0.104	24	28.019	29.887	7.5	22.2	0.101
	Point 3	25	22	25.684	27.396	7.5	22.2	0.095	22	25.684	27.396	7.5	22.2	0.095	24	28.019	29.887	7.5	22.2	0.101
	Point 4	25	22	25.393	27.086	7.0	21.7	0.092	24	27.702	29.548	7.0	21.7	0.100	24	27.702	29.548	7.0	21.7	0.098
	Point 5	25	22	25.684	27.396	7.5	22.2	0.095	26	30.354	32.378	7.5	22.2	0.112	26	30.010	32.011	7.0	21.7	0.106
	Point 6	25	22	25.972	27.703	8.0	22.7	0.099	26	30.694	32.740	8.0	22.7	0.116	26	30.694	32.740	8.0	22.7	0.113
	Point 7	25	22	25.393	27.086	7.0	21.7	0.092	24	27.702	29.548	7.0	21.7	0.100	24	27.381	29.206	6.5	21.2	0.094
	Point 8	25	22	25.393	27.086	7.0	21.7	0.092	24	28.019	29.887	7.5	22.2	0.104	24	27.702	29.548	7.0	21.7	0.098
	Point 9	50	34	49.267	52.552	19.5	34.2	0.282	3622	5209.887	5557.213	19.0	33.7	29.276	32	46.029	49.097	19.0	33.7	0.252
	Point 10	25	28	30.400	32.427	4.5	19.2	0.098	25	29.186	31.132	7.5	22.2	0.108	24	27.702	29.548	7.0	21.7	0.098
Total Oxygen Injected Per Day (lb)			**36.678**						**967.362**						**37.493**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 2	Point 11	25	22	25.684	27.396	7.5	22.2	0.095	24	28.019	29.887	7.5	22.2	0.104	24	28.019	29.887	7.5	22.2	0.101
	Point 12	50	32	46.369	49.460	19.5	34.2	0.265	36	52.165	55.643	19.5	34.2	0.297	32	46.029	49.097	19.0	33.7	0.252
	Point 13	25	22	25.684	27.396	7.5	22.2	0.095	22	25.684	27.396	7.5	22.2	0.095	26	30.010	32.011	7.0	21.7	0.106
	Point 14	68	50	80.481	85.846	27.5	42.2	0.568	24	37.938	40.467	26.0	40.7	0.257	34	54.402	58.028	27.0	41.7	0.368
	Point 15	25	22	25.972	27.703	8.0	22.7	0.099	26	30.694	32.740	8.0	22.7	0.116	22	25.972	27.703	8.0	22.7	0.096
	Point 16	50	32	46.029	49.097	19.0	33.7	0.260	36	51.782	55.235	19.0	33.7	0.291	34	48.541	51.778	18.5	33.2	0.262
	Point 17	25	22	25.972	27.703	8.0	22.7	0.099	22	25.684	27.396	7.5	22.2	0.095	24	28.019	29.887	7.5	22.2	0.101
	Point 18	66	0	0.000	0.000	28.5	43.2	0.000	22	34.989	37.322	26.5	41.2	0.240	28	45.069	48.074	27.5	42.2	0.309
	Point 19	25	22	25.393	27.086	7.0	21.7	0.092	22	25.393	27.086	7.0	21.7	0.092	24	27.702	29.548	7.0	21.7	0.098
	Point 20	50	32	46.029	49.097	19.0	33.7	0.260	34	48.541	51.778	18.5	33.2	0.269	32	45.686	48.732	18.5	33.2	0.246
Total Oxygen Injected Per Day (lb)			**58.651**						**59.423**						**62.041**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 3	Point 21	27	22	25.972	27.703	8.0	22.7	0.099	24	28.643	30.553	8.5	23.2	0.111	24	28.333	30.222	8.0	22.7	0.104
	Point 22	65.5	36	59.638	63.614	30.0	44.7	0.446	32	52.714	56.228	29.5	44.2	0.389	24	39.536	42.171	29.5	44.2	0.284
	Point 23	25	24	28.333	30.222	8.0	22.7	0.108	24	28.019	29.887	7.5	22.2	0.104	24	28.019	29.887	7.5	22.2	0.101
	Point 24	50	40	57.536	61.372	19.0	33.7	0.324	32	46.029	49.097	19.0	33.7	0.259	30	43.152	46.029	19.0	33.7	0.236
	Point 25	25	24	28.333	30.222	8.0	22.7	0.108	24	56.321	60.076	75.0	89.7	0.842	24	28.019	29.887	7.5	22.2	0.101
	Point 26	25	24	28.019	29.887	7.5	22.2	0.104	24	27.702	29.548	7.0	21.7	0.100	24	27.702	29.548	7.0	21.7	0.098
	Point 27	25	22	25.684	27.396	7.5	22.2	0.095	24	27.702	29.548	7.0	21.7	0.100	24	27.702	29.548	7.0	21.7	0.098
	Point 28	25	24	28.019	29.887	7.5	22.2	0.104	24	27.702	29.548	7.0	21.7	0.100	24	27.702	29.548	7.0	21.7	0.098
	Point 29	25	22	25.972	27.703	8.0	22.7	0.099	24	28.019	29.887	7.5	22.2	0.104	24	28.019	29.887	7.5	22.2	0.101
	Point 30	25	22	25.684	27.396	7.5	22.2	0.095	22	25.393	27.086	7.0	21.7	0.092	24	27.702	29.548	7.0	21.7	0.098
Total Oxygen Injected Per Day (lb)			**50.619**						**70.413**						**42.182**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 4	Point 1	25	22	26.816	28.604	9.5	24.2	0.109	24	29.254	31.204	9.5	24.2	0.118	28	34.130	36.405	9.5	24.2	0.134
	Point 2	27	22	27.365	29.189	10.5	25.2	0.115	22	27.365	29.189	10.5	25.2	0.115	28	34.828	37.149	10.5	25.2	0.143
	Point 3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 4	35	24	31.298	33.384	13.0	27.7	0.145	20	26.082	27.820	13.0	27.7	0.120	26	33.906	36.167	13.0	27.7	0.153
	Point 5	35	24	29.852	31.842	10.5	25.2	0.126	20	26.082	27.820	13.0	27.7	0.120	26	33.906	36.167	13.0	27.7	0.153
	Point 6	40	26	33.906	36.167	13.0	27.7	0.157	20	27.458	29.288	16.0	30.7	0.141	26	35.695	38.075	16.0	30.7	0.178
	Point 7	45	26	35.695	38.075	16.0	30.7	0.183	18	25.504	27.204	18.0	32.7	0.139	28	39.673	42.318	18.0	32.7	0.211
	Point 8	45	24	34.006	36.273	18.0	32.7	0.186	18	25.504	27.204	18.0	32.7	0.139	32	45.686	48.732	18.5	33.2	0.246
	Point 9	45	24	33.745	35.994	17.5	32.2	0.182	18	25.308	26.996	17.5	32.2	0.136	30	42.181	44.993	17.5	32.2	0.221
	Point 10	45	30	42.507	45.341	18.0	32.7	0.233	16	22.670	24.182	18.0	32.7	0.124	30	42.507	45.341	18.0	32.7	0.226
Total Oxygen Injected Per Day (lb)			**45.943**						**36.869**						**53.226**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 5	Point 11	45	20	28.554	30.457	18.5	33.2	0.159	24	34.522	36.823	19.0	33.7	0.194	24	34.522	36.823	19.0	33.7	0.189
	Point 12	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 13	45	22	31.409	33.503	18.5	33.2	0.174	26	37.120	39.595	18.5	33.2	0.205	26	37.120	39.595	18.5	33.2	0.200
	Point 14	40	22	30.203	32.217	16.0	30.7	0.155	26	35.695	38.075	16.0	30.7	0.183	26	35.695	38.075	16.0	30.7	0.178
	Point 15	35	20	26.548	28.318	14.0	28.7	0.127	26	34.513	36.814	14.0	28.7	0.165	26	34.513	36.814	14.0	28.7	0.161
	Point 16	35	22	29.707	31.688	15.0	29.7	0.148	26	73.368	78.259	115.0	129.7	1.587	26	34.812	37.133	14.5	29.2	0.165
	Point 17	35	18	23.684	25.263	13.5	28.2	0.112	26	34.211	36.491	13.5	28.2	0.161	26	34.211	36.491	13.5	28.2	0.157
	Point 18	35	24	31.298	33.384	13.0	27.7	0.145	26	33.906	36.167	13.0	27.7	0.157	26	33.906	36.167	13.0	27.7	0.153
	Point 19	35	22	28.948	30.877	13.5	28.2	0.137	24	31.579	33.684	13.5	28.2	0.148	24	31.579	33.684	13.5	28.2	0.145
	Point 20	30	24	30.147	32.157	11.0	25.7	0.130	26	32.659	34.836	11.0	25.7	0.140	26	32.659	34.836	11.0	25.7	0.136
Total Oxygen Injected Per Day (lb)			**41.162**						**94.081**						**47.469**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 6	Point 21	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 22	30	22	27.635	29.477	11.0	25.7	0.119	24	30.147	32.157	11.0	25.7	0.129	24	29.852	31.842	10.5	25.2	0.122
	Point 23	30	20	25.122	26.797	11.0	25.7	0.108	24	30.147	32.157	11.0	25.7	0.129	24	30.147	32.157	11.0	25.7	0.126
	Point 24	25	24	26.394	28.154	5.0	19.7	0.087	20	23.869	25.461	8.5	23.2	0.092	24	28.643	30.553	8.5	23.2	0.108
	Point 25	25	22	27.635	29.477	11.0	25.7	0.119	24	32.680	34.858	15.5	30.2	0.165	20	27.458	29.288	16.0	30.7	0.137
	Point 26	25	26	28.954	30.885	5.5	20.2	0.098	24	29.254	31.204	9.5	24.2	0.118	24	29.254	31.204	9.5	24.2	0.115
	Point 27	25	24	28.950	30.880	9.0	23.7	0.115	22	26.538	28.307	9.0	23.7	0.105	20	24.125	25.733	9.0	23.7	0.093
	Point 27A	26	22	26.538	28.307	9.0	23.7	0.105	20	25.122	26.797	11.0	25.7	0.108	24	29.852	31.842	10.5	25.2	0.122
	Point 27B	35	22	28.948	30.877	13.5	28.2	0.137	24	31.579	33.684	13.5	28.2	0.148	24	31.579	33.684	13.5	28.2	0.145
	Point 27C	35	24	26.394	28.154	5.0	19.7	0.087	22	29.203	31.150	14.0	28.7	0.140	24	31.858	33.982	14.0	28.7	0.149
Total Oxygen Injected Per Day (lb)			**31.172**						**36.292**						**35.716**					
System Total Per Day (lb)			**264.23**						**1264.44**						**278.13**					

Appendix E. Table E-1
Operational Data - Garner Lane Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q3 2013: 384,937 lbs

Oxygen to OU-2 - 33 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-13	15	3,268
Total Operational Days in October 2013			15
Total Oxygen in October 2013 (lbs)			3,268.14
Running Total for Oxygen to 33 North Clinton Through Q4 2013 (lbs)			**388,205.14**

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 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 was reconfigured in October and the new configuration began operation on October 15, 2013.

			10/22/2013					
		O_2%	94.6					
		R	10.73					
		Temp R (T)	530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	62	28	42.315	27.505	22.5	37.2	0.170
	Point 1B	46	20	27.233	17.702	15.5	30.2	0.089
	Point 6A	65	26	40.077	26.050	24.0	38.7	0.168
	Point 6B	46	18	24.912	16.193	16.5	31.2	0.084
	Point 11	46	20	27.680	17.992	16.5	31.2	0.093
	Point 35	41	48	63.158	41.053	13.5	28.2	0.193
	Point 40	41	22	28.948	18.816	13.5	28.2	0.088
	Point 45	31	24	28.950	18.818	9.0	23.7	0.074
Total Oxygen Injected Per Day (lb)			**30.697**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	67	34	53.081	34.503	25.0	39.7	0.228
	Point 2B	46	20	27.458	17.848	16.0	30.7	0.091
	Point 7A	65	34	52.408	34.065	24.0	38.7	0.219
	Point 7B	41	22	30.691	19.949	17.0	31.7	0.105
	Point 12	46	20	27.458	17.848	16.0	30.7	0.091
	Point 36	36	36	44.778	29.106	10.5	25.2	0.122
	Point 41	41	22	28.948	18.816	13.5	28.2	0.088
	Point 46	46	18	22.610	14.697	11.0	25.7	0.063
Total Oxygen Injected Per Day (lb)			**32.248**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	65	28	43.714	28.414	25.0	39.7	0.188
	Point 3B	46	18	24.712	16.063	16.0	30.7	0.082
	Point 8A	71	16	25.601	16.640	27.0	41.7	0.115
	Point 8B	46	20	27.458	17.848	16.0	30.7	0.091
	Point 32A	63.5	30	45.943	29.863	23.5	38.2	0.190
	Point 32B	36	18	22.610	14.697	11.0	25.7	0.063
	Point 37	41	38	49.555	32.211	13.0	27.7	0.148
	Point 42	36	20	25.366	16.488	11.5	26.2	0.072
Total Oxygen Injected Per Day (lb)			**30.372**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	69	14	22.266	14.473	26.5	41.2	0.099
	Point 4B	46	16	22.144	14.394	16.5	31.2	0.075
	Point 9A	71	18	28.278	18.381	25.5	40.2	0.123
	Point 9B	46	16	22.144	14.394	16.5	31.2	0.075
	Point 33	42	36	47.369	30.790	13.5	28.2	0.144
	Point 38	36	22	27.635	17.963	11.0	25.7	0.077
	Point 43	31	24	28.950	18.818	9.0	23.7	0.074
	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**21.342**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	67	10	15.513	10.084	24.5	39.2	0.066
	Point 5B	45	22	30.203	19.632	16.0	30.7	0.100
	Point 10	56	20	29.192	18.975	20.0	34.7	0.110
	Point 34	36	32	41.352	26.879	12.5	27.2	0.122
	Point 39	26	24	27.381	17.797	6.5	21.2	0.063
	Point 44	41	24	30.147	19.595	11.0	25.7	0.084
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**17.398**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 16	40	20	27.007	17.554	15.0	29.7	0.087
	Point 19	40	22	29.456	19.147	14.5	29.2	0.093
	Point 22	40	24	31.858	20.708	14.0	28.7	0.099
	Point 25A	60	40	60.855	39.556	23.0	37.7	0.248
	Point 25B	29	22	26.816	17.430	9.5	24.2	0.070
	Point 28	50	28	39.975	25.984	18.5	33.2	0.144
	Point 31A	69	24	38.401	24.961	27.0	41.7	0.173
	Point 31B	40	22	29.456	19.147	14.5	29.2	0.093
Total Oxygen Injected Per Day (lb)			**32.207**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 14	39	24	32.680	21.242	15.5	30.2	0.107
	Point 17	40	22	28.430	18.479	12.5	27.2	0.084
	Point 20	40	26	34.812	22.628	14.5	29.2	0.110
	Point 23	40	22	29.203	18.982	14.0	28.7	0.091
	Point 26A	60	30	45.338	29.469	22.5	37.2	0.182
	Point 26B	29	24	31.014	20.159	12.5	27.2	0.091
	Point 29A	66	24	37.469	24.355	25.0	39.7	0.161
	Point 29B	40	24	32.134	20.887	14.5	29.2	0.101
Total Oxygen Injected Per Day (lb)			**29.655**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 13	40	22	29.957	19.472	15.5	30.2	0.098
	Point 15	40	22	29.456	19.147	14.5	29.2	0.093
	Point 18	40	-	-	-	-	-	-
	Point 21	40	22	28.948	18.816	13.5	28.2	0.088
	Point 24	55	22	32.341	21.022	20.5	35.2	0.123
	Point 27A	65	22	34.130	22.184	24.5	39.2	0.145
	Point 27B	33	20	25.845	16.799	12.5	27.2	0.076
	Point 30	50	24	34.522	22.439	19.0	33.7	0.126
Total Oxygen Injected Per Day (lb)			**23.956**					
System Total Per Day (lb)			**217.88**					

Appendix E. Table E-1
Operational Data - Garner Lane Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through October 22, 2013: 799,407 lbs

Oxygen to OU-2 - Garner Lane

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-13	9	2,521
Month 2	Nov-13	30	7,610
Month 3	Dec-13	31	8,589
Total Operational Days in mid-Oct through Dec 2013			70
Total Oxygen in mid-Oct through Dec 2013			18,719.69
Running Total for Oxygen to Garner Lane Through Q4 2013 (lbs)			**818,126.48**

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

System Operating Specs
Total of 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 was reconfigured in October and the new configuration began operation on October 22, 2013.

			10/15/2013						11/12/2013						12/17/2013					
	O_2%		82.1						84.9						82.5					
	R		10.73						10.73						10.73					
	Temp R (T)		530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 1	Point 1	25	26	31.363	33.453	9.0	23.7	0.114	24	28.950	30.880	9.0	23.7	0.109	26	31.363	33.453	9.0	23.7	0.115
	Point 2	25	24	28.019	29.887	7.5	22.2	0.096	24	28.019	29.887	7.5	22.2	0.099	24	28.019	29.887	7.5	22.2	0.096
	Point 3	25	24	28.019	29.887	7.5	22.2	0.096	24	28.019	29.887	7.5	22.2	0.099	24	28.019	29.887	7.5	22.2	0.096
	Point 4	25	24	27.702	29.548	7.0	21.7	0.093	26	30.010	32.011	7.0	21.7	0.104	24	27.702	29.548	7.0	21.7	0.093
	Point 5	25	26	30.010	32.011	7.0	21.7	0.100	26	30.010	32.011	7.0	21.7	0.104	26	30.354	32.378	7.5	22.2	0.104
	Point 6	25	26	30.694	32.740	8.0	22.7	0.107	24	28.333	30.222	8.0	22.7	0.102	26	30.694	32.740	8.0	22.7	0.108
	Point 7	25	24	27.702	29.548	7.0	21.7	0.093	24	27.381	29.206	6.5	21.2	0.092	26	30.010	32.011	7.0	21.7	0.101
	Point 8	25	24	27.702	29.548	7.0	21.7	0.093	24	27.702	29.548	7.0	21.7	0.096	26	30.354	32.378	7.5	22.2	0.104
	Point 9	50	34	48.906	52.166	19.0	33.7	0.254	34	48.906	52.166	19.0	33.7	0.262	34	49.267	52.552	19.5	34.2	0.261
	Point 10	25	24	27.702	29.548	7.0	21.7	0.093	24	27.702	29.548	7.0	21.7	0.096	24	27.702	29.548	7.0	21.7	0.093
Total Oxygen Injected Per Day (lb)			**36.406**						**37.233**						**37.486**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 2	Point 11	25	26	30.354	32.378	7.5	22.2	0.104	26	30.354	32.378	7.5	22.2	0.107	26	30.354	32.378	7.5	22.2	0.104
	Point 12	50	26	37.398	39.892	19.0	33.7	0.194	32	46.029	49.097	19.0	33.7	0.247	32	46.029	49.097	19.0	33.7	0.240
	Point 13	25	24	27.702	29.548	7.0	21.7	0.093	26	30.010	32.011	7.0	21.7	0.104	24	28.019	29.887	7.5	22.2	0.096
	Point 14	68	38	60.436	64.465	26.5	41.2	0.383	10	15.807	16.861	26.0	40.7	0.102	30	48.001	51.202	27.0	41.7	0.310
	Point 15	25	22	25.972	27.703	8.0	22.7	0.091	28	33.055	35.259	8.0	22.7	0.119	26	30.694	32.740	8.0	22.7	0.108
	Point 16	50	24	34.265	36.549	18.5	33.2	0.175	30	42.831	45.686	18.5	33.2	0.226	32	46.029	49.097	19.0	33.7	0.240
	Point 17	25	22	25.684	27.396	7.5	22.2	0.088	24	28.019	29.887	7.5	22.2	0.099	24	28.333	30.222	8.0	22.7	0.100
	Point 18	66	24	38.631	41.206	27.5	42.2	0.251	10	15.904	16.965	26.5	41.2	0.104	10	16.096	17.169	27.5	42.2	0.105
	Point 19	25	22	25.393	27.086	7.0	21.7	0.085	22	25.393	27.086	7.0	21.7	0.088	22	25.393	27.086	7.0	21.7	0.085
	Point 20	50	28	39.975	42.640	18.5	33.2	0.204	26	37.120	39.595	18.5	33.2	0.196	28	40.275	42.960	19.0	33.7	0.210
Total Oxygen Injected Per Day (lb)			**53.372**						**44.601**						**51.138**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 3	Point 21	27	24	28.333	30.222	8.0	22.7	0.099	22	26.256	28.007	8.5	23.2	0.097	22	26.256	28.007	8.5	23.2	0.094
	Point 22	65.5	46	75.776	80.828	29.5	44.2	0.516	16	26.208	27.955	29.0	43.7	0.182	32	52.714	56.228	29.5	44.2	0.361
	Point 23	25	24	28.019	29.887	7.5	22.2	0.096	28	32.689	34.868	7.5	22.2	0.116	26	30.354	32.378	7.5	22.2	0.104
	Point 24	50	38	54.659	58.303	19.0	33.7	0.284	30	43.152	46.029	19.0	33.7	0.232	34	48.906	52.166	19.0	33.7	0.255
	Point 25	25	24	28.019	29.887	7.5	22.2	0.096	24	28.019	29.887	7.5	22.2	0.099	26	30.354	32.378	7.5	22.2	0.104
	Point 26	25	24	27.702	29.548	7.0	21.7	0.093	24	27.702	29.548	7.0	21.7	0.096	24	28.019	29.887	7.5	22.2	0.096
	Point 27	25	24	27.702	29.548	7.0	21.7	0.093	24	27.702	29.548	7.0	21.7	0.096	24	27.702	29.548	7.0	21.7	0.093
	Point 28	25	24	27.702	29.548	7.0	21.7	0.093	24	27.702	29.548	7.0	21.7	0.096	26	30.010	32.011	7.0	21.7	0.101
	Point 29	25	24	28.019	29.887	7.5	22.2	0.096	24	28.019	29.887	7.5	22.2	0.099	26	30.354	32.378	7.5	22.2	0.104
	Point 30	25	24	27.702	29.548	7.0	21.7	0.093	24	27.702	29.548	7.0	21.7	0.096	26	30.010	32.011	7.0	21.7	0.101
Total Oxygen Injected Per Day (lb)			**49.795**						**38.641**						**45.231**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 4	Point 1	25	30	36.567	39.005	9.5	24.2	0.136	28	33.775	36.027	9.0	23.7	0.127	28	33.775	36.027	9.0	23.7	0.124
	Point 2	27	30	37.315	39.803	10.5	25.2	0.145	26	32.017	34.152	10.0	24.7	0.126	28	34.480	36.779	10.0	24.7	0.132
	Point 2A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 4	35	28	36.514	38.949	13.0	27.7	0.156	28	36.183	38.595	12.5	27.2	0.157	26	33.599	35.839	12.5	27.2	0.141
	Point 5	35	28	36.514	38.949	13.0	27.7	0.156	26	33.599	35.839	12.5	27.2	0.146	26	33.599	35.839	12.5	27.2	0.141
	Point 6	40	26	35.695	38.075	16.0	30.7	0.169	26	35.695	38.075	16.0	30.7	0.175	26	35.695	38.075	16.0	30.7	0.170
	Point 7	45	30	42.507	45.341	18.0	32.7	0.214	34	47.057	50.194	16.5	31.2	0.234	30	42.507	45.341	18.0	32.7	0.215
	Point 8	45	36	51.397	54.823	18.5	33.2	0.263	30	42.507	45.341	18.0	32.7	0.221	28	39.673	42.318	18.0	32.7	0.201
	Point 9	45	32	44.993	47.992	17.5	32.2	0.223	32	44.993	47.992	17.5	32.2	0.231	26	36.557	38.994	17.5	32.2	0.182
	Point 10	45	30	42.507	45.341	18.0	32.7	0.214	30	41.852	44.642	17.0	31.7	0.211	30	42.507	45.341	18.0	32.7	0.215
Total Oxygen Injected Per Day (lb)			**53.609**						**52.073**						**48.676**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 5	Point 11	45	30	43.152	46.029	19.0	33.7	0.224	24	34.265	36.549	18.5	33.2	0.181	28	39.975	42.640	18.5	33.2	0.205
	Point 4A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 13	45	28	39.975	42.640	18.5	33.2	0.204	24	34.006	36.273	18.0	32.7	0.177	26	36.839	39.295	18.0	32.7	0.186
	Point 14	40	28	38.441	41.003	16.0	30.7	0.182	24	32.680	34.858	15.5	30.2	0.157	26	35.403	37.763	15.5	30.2	0.165
	Point 15	35	28	37.168	39.645	14.0	28.7	0.164	24	31.579	33.684	13.5	28.2	0.142	26	34.211	36.491	13.5	28.2	0.149
	Point 16	35	30	40.510	43.211	15.0	29.7	0.185	26	35.109	37.449	15.0	29.7	0.166	26	35.109	37.449	15.0	29.7	0.161
	Point 17	35	28	36.842	39.299	13.5	28.2	0.160	24	31.298	33.384	13.0	27.7	0.138	32	42.106	44.913	13.5	28.2	0.184
	Point 18	35	28	36.514	38.949	13.0	27.7	0.156	26	33.906	36.167	13.0	27.7	0.150	32	41.731	44.513	13.0	27.7	0.179
	Point 19	35	26	34.211	36.491	13.5	28.2	0.149	24	31.298	33.384	13.0	27.7	0.138	30	39.122	41.731	13.0	27.7	0.168
	Point 20	30	28	35.171	37.516	11.0	25.7	0.139	22	27.635	29.477	11.0	25.7	0.113	26	32.659	34.836	11.0	25.7	0.130
Total Oxygen Injected Per Day (lb)			**50.019**						**43.585**						**48.897**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 6	Point 6A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 22	30	24	30.147	32.157	11.0	25.7	0.119	24	29.852	31.842	10.5	25.2	0.120	30	37.315	39.803	10.5	25.2	0.146
	Point 23	30	24	30.147	32.157	11.0	25.7	0.119	24	30.147	32.157	11.0	25.7	0.123	28	35.171	37.516	11.0	25.7	0.140
	Point 24	25	24	28.643	30.553	8.5	23.2	0.102	24	28.643	30.553	8.5	23.2	0.106	30	35.804	38.191	8.5	23.2	0.129
	Point 25	25	24	33.745	35.994	17.5	32.2	0.167	26	36.272	38.690	17.0	31.7	0.183	30	41.852	44.642	17.0	31.7	0.205
	Point 26	25	24	29.254	31.204	9.5	24.2	0.109	26	31.692	33.805	9.5	24.2	0.122	28	34.130	36.405	9.5	24.2	0.128
	Point 27	25	26	31.692	33.805	9.5	24.2	0.118	24	28.950	30.880	9.0	23.7	0.109	32	38.600	41.174	9.0	23.7	0.142
	Point 27A	26	28	35.171	37.516	11.0	25.7	0.139	26	32.340	34.496	10.5	25.2	0.130	34	42.708	45.555	11.0	25.7	0.170
	Point 27B	35	24	31.579	33.684	13.5	28.2	0.137	24	31.298	33.384	13.0	27.7	0.138	28	36.842	39.299	13.5	28.2	0.161
	Point 27C	35	24	31.858	33.982	14.0	28.7	0.141	24	31.579	33.684	13.5	28.2	0.142	36	47.369	50.527	13.5	28.2	0.207
Total Oxygen Injected Per Day (lb)			**36.881**						**37.540**						**45.629**					
System Total Per Day (lb)			**280.08**						**253.67**						**277.06**					

Appendix E. Table E-1
Operational Data - Garner Lane Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q4 2013: 818,126 lbs

Oxygen to OU-2 - Garner Lane

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-14	31	8,662
Month 2	Feb-14	28	7,593
Month 3	Mar-14	31	8,406
Total Operational Days in Q1 2014			90
Total Oxygen in Q1 2014			24,661.29
Running Total for Oxygen to Garner Lane Through Q1 2014 (lbs)			**842,787.77**

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

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

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

* System check for March 2014 used for February 2014.

			1/21/2014						3/3/2014*						3/3/2014					
	O_2%		84.1						87.4						87.4					
	R		10.73						10.73						10.73					
	Temp R (T)		530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 1	Point 1	25	28	33.775	36.027	9.0	23.7	0.126	26	31.363	33.453	9.0	23.7	0.122	26	31.363	33.453	9.0	23.7	0.122
	Point 2	25	28	32.689	34.868	7.5	22.2	0.114	26	30.354	32.378	7.5	22.2	0.110	26	30.354	32.378	7.5	22.2	0.110
	Point 3	25	26	30.354	32.378	7.5	22.2	0.106	24	28.019	29.887	7.5	22.2	0.102	24	28.019	29.887	7.5	22.2	0.102
	Point 4	25	28	32.319	34.473	7.0	21.7	0.111	26	30.010	32.011	7.0	21.7	0.107	26	30.010	32.011	7.0	21.7	0.107
	Point 5	25	26	30.354	32.378	7.5	22.2	0.106	26	30.354	32.378	7.5	22.2	0.110	26	30.354	32.378	7.5	22.2	0.110
	Point 6	25	28	33.055	35.259	8.0	22.7	0.118	24	28.333	30.222	8.0	22.7	0.105	24	28.333	30.222	8.0	22.7	0.105
	Point 7	25	28	32.319	34.473	7.0	21.7	0.111	24	27.702	29.548	7.0	21.7	0.099	24	27.702	29.548	7.0	21.7	0.099
	Point 8	25	28	32.689	34.868	7.5	22.2	0.114	24	28.019	29.887	7.5	22.2	0.102	24	28.019	29.887	7.5	22.2	0.102
	Point 9	50	34	49.267	52.552	19.5	34.2	0.266	30	43.152	46.029	19.0	33.7	0.238	30	43.152	46.029	19.0	33.7	0.238
	Point 10	25	28	31.565	33.670	6.0	20.7	0.103	26	30.354	32.378	7.5	22.2	0.110	26	30.354	32.378	7.5	22.2	0.110
Total Oxygen Injected Per Day (lb)			**40.841**						**38.602**						**38.602**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 2	Point 11	25	22	25.684	27.396	7.5	22.2	0.090	24	28.333	30.222	8.0	22.7	0.105	24	28.333	30.222	8.0	22.7	0.105
	Point 12	50	32	46.369	49.460	19.5	34.2	0.250	30	43.471	46.369	19.5	34.2	0.244	30	43.471	46.369	19.5	34.2	0.244
	Point 13	25	22	25.684	27.396	7.5	22.2	0.090	24	28.019	29.887	7.5	22.2	0.102	24	28.019	29.887	7.5	22.2	0.102
	Point 14	68	32	51.202	54.615	27.0	41.7	0.337	32	51.202	54.615	27.0	41.7	0.350	32	51.202	54.615	27.0	41.7	0.350
	Point 15	25	24	28.333	30.222	8.0	22.7	0.101	26	30.694	32.740	8.0	22.7	0.114	26	30.694	32.740	8.0	22.7	0.114
	Point 16	50	34	48.906	52.166	19.0	33.7	0.260	30	43.152	46.029	19.0	33.7	0.238	30	43.152	46.029	19.0	33.7	0.238
	Point 17	25	24	28.333	30.222	8.0	22.7	0.101	22	25.972	27.703	8.0	22.7	0.097	22	25.972	27.703	8.0	22.7	0.097
	Point 18	66	24	39.086	41.691	28.5	43.2	0.266	18	29.144	31.087	28.0	42.7	0.204	18	29.144	31.087	28.0	42.7	0.204
	Point 19	25	20	23.085	24.624	7.0	21.7	0.079	20	23.085	24.624	7.0	21.7	0.082	20	23.085	24.624	7.0	21.7	0.082
	Point 20	50	28	40.275	42.960	19.0	33.7	0.214	32	46.029	49.097	19.0	33.7	0.254	32	46.029	49.097	19.0	33.7	0.254
Total Oxygen Injected Per Day (lb)			**57.254**						**57.306**						**57.306**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 3	Point 21	27	22	26.256	28.007	8.5	23.2	0.096	22	26.256	28.007	8.5	23.2	0.100	22	26.256	28.007	8.5	23.2	0.100
	Point 22	65.5	50	81.898	87.358	29.0	43.7	0.565	10	16.000	17.067	27.0	41.7	0.109	10	16.000	17.067	27.0	41.7	0.109
	Point 23	25	26	30.354	32.378	7.5	22.2	0.106	22	25.684	27.396	7.5	22.2	0.093	22	25.684	27.396	7.5	22.2	0.093
	Point 24	50	30	43.471	46.369	19.5	34.2	0.235	22	31.645	33.754	19.0	33.7	0.175	22	31.645	33.754	19.0	33.7	0.175
	Point 25	25	24	28.019	29.887	7.5	22.2	0.098	24	28.019	29.887	7.5	22.2	0.102	24	28.019	29.887	7.5	22.2	0.102
	Point 26	25	24	28.019	29.887	7.5	22.2	0.098	24	28.019	29.887	7.5	22.2	0.102	24	28.019	29.887	7.5	22.2	0.102
	Point 27	25	26	30.354	32.378	7.5	22.2	0.106	20	23.349	24.906	7.5	22.2	0.085	20	23.349	24.906	7.5	22.2	0.085
	Point 28	25	24	27.702	29.548	7.0	21.7	0.095	24	28.019	29.887	7.5	22.2	0.102	24	28.019	29.887	7.5	22.2	0.102
	Point 29	25	26	30.694	32.740	8.0	22.7	0.110	24	28.333	30.222	8.0	22.7	0.105	24	28.333	30.222	8.0	22.7	0.105
	Point 30	25	24	27.702	29.548	7.0	21.7	0.095	24	28.019	29.887	7.5	22.2	0.102	24	28.019	29.887	7.5	22.2	0.102
Total Oxygen Injected Per Day (lb)			**51.313**						**34.426**						**34.426**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 4	Point 1	25	34	41.013	43.747	9.0	23.7	0.153	24	29.254	31.204	9.5	24.2	0.116	24	29.254	31.204	9.5	24.2	0.116
	Point 2	27	34	41.869	44.660	10.0	24.7	0.163	24	29.555	31.525	10.0	24.7	0.120	24	29.555	31.525	10.0	24.7	0.120
	Point 2A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 4	35	24	31.014	33.082	12.5	27.2	0.133	24	31.014	33.082	12.5	27.2	0.138	24	31.014	33.082	12.5	27.2	0.138
	Point 5	35	24	31.014	33.082	12.5	27.2	0.133	24	31.014	33.082	12.5	27.2	0.138	24	31.014	33.082	12.5	27.2	0.138
	Point 6	40	24	32.949	35.146	16.0	30.7	0.160	24	32.949	35.146	16.0	30.7	0.166	24	32.949	35.146	16.0	30.7	0.166
	Point 7	45	22	31.172	33.250	18.0	32.7	0.161	26	36.557	38.994	17.5	32.2	0.193	26	36.557	38.994	17.5	32.2	0.193
	Point 8	45	22	31.172	33.250	18.0	32.7	0.161	26	36.839	39.295	18.0	32.7	0.197	26	36.839	39.295	18.0	32.7	0.197
	Point 9	45	20	28.120	29.995	17.5	32.2	0.143	24	34.006	36.273	18.0	32.7	0.182	24	34.006	36.273	18.0	32.7	0.182
	Point 10	45	22	31.172	33.250	18.0	32.7	0.161	26	36.839	39.295	18.0	32.7	0.197	26	36.839	39.295	18.0	32.7	0.197
Total Oxygen Injected Per Day (lb)			**43.756**						**46.347**						**46.347**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 5	Point 11	45	26	37.120	39.595	18.5	33.2	0.194	28	39.975	42.640	18.5	33.2	0.218	28	39.975	42.640	18.5	33.2	0.218
	Point 4A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 13	45	26	36.839	39.295	18.0	32.7	0.190	28	39.975	42.640	18.5	33.2	0.218	28	39.975	42.640	18.5	33.2	0.218
	Point 14	40	24	32.949	35.146	16.0	30.7	0.160	30	41.187	43.932	16.0	30.7	0.207	30	41.187	43.932	16.0	30.7	0.207
	Point 15	35	22	28.948	30.877	13.5	28.2	0.129	26	34.211	36.491	13.5	28.2	0.158	26	34.211	36.491	13.5	28.2	0.158
	Point 16	35	24	32.408	34.569	15.0	29.7	0.152	26	35.109	37.449	15.0	29.7	0.171	26	35.109	37.449	15.0	29.7	0.171
	Point 17	35	24	31.298	33.384	13.0	27.7	0.137	28	36.514	38.949	13.0	27.7	0.166	28	36.514	38.949	13.0	27.7	0.166
	Point 18	35	24	31.014	33.082	12.5	27.2	0.133	26	33.599	35.839	12.5	27.2	0.150	26	33.599	35.839	12.5	27.2	0.150
	Point 19	35	26	33.599	35.839	12.5	27.2	0.144	26	33.599	35.839	12.5	27.2	0.150	26	33.599	35.839	12.5	27.2	0.150
	Point 20	30	24	30.147	32.157	11.0	25.7	0.122	28	35.171	37.516	11.0	25.7	0.148	28	35.171	37.516	11.0	25.7	0.148
Total Oxygen Injected Per Day (lb)			**43.545**						**50.724**						**50.724**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 6	Point 6A	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 22	30	28	34.480	36.779	10.0	24.7	0.134	28	34.480	36.779	10.0	24.7	0.140	28	34.480	36.779	10.0	24.7	0.140
	Point 23	30	28	35.171	37.516	11.0	25.7	0.143	28	35.171	37.516	11.0	25.7	0.148	28	35.171	37.516	11.0	25.7	0.148
	Point 24	25	28	33.055	35.259	8.0	22.7	0.118	24	28.333	30.222	8.0	22.7	0.105	24	28.333	30.222	8.0	22.7	0.105
	Point 25	25	26	35.985	38.383	16.5	31.2	0.177	28	39.062	41.666	17.0	31.7	0.203	28	39.062	41.666	17.0	31.7	0.203
	Point 26	25	28	34.130	36.405	9.5	24.2	0.130	26	31.692	33.805	9.5	24.2	0.126	26	31.692	33.805	9.5	24.2	0.126
	Point 27	25	32	38.191	40.737	8.5	23.2	0.140	26	31.363	33.453	9.0	23.7	0.122	26	31.363	33.453	9.0	23.7	0.122
	Point 27A	26	32	39.803	42.456	10.5	25.2	0.158	30	37.684	40.196	11.0	25.7	0.159	30	37.684	40.196	11.0	25.7	0.159
	Point 27B	35	26	34.211	36.491	13.5	28.2	0.152	28	36.842	39.299	13.5	28.2	0.170	28	36.842	39.299	13.5	28.2	0.170
	Point 27C	35	32	41.731	44.513	13.0	27.7	0.182	32	42.106	44.913	13.5	28.2	0.195	32	42.106	44.913	13.5	28.2	0.195
Total Oxygen Injected Per Day (lb)			**42.726**						**43.761**						**43.761**					
System Total Per Day (lb)			**279.43**						**271.17**						**271.17**					

Appendix E. Table E-1
Operational Data - Garner Lane Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2012/2013 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q1 2014: 842,788 lbs

Oxygen to OU-2 - Garner Lane

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-14	30	7,982
Month 2	May-14	31	6,505
Month 3	Jun-14	30	6,408
Total Operational Days in Q2 2014			91
Total Oxygen in Q2 2014			20,894.16
Running Total for Oxygen to Garner Lane Through Q2 2014 (lbs)			**863,681.94**

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

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

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

			4/29/2014						5/20/2014						6/20/2014					
	O_2%		88.7						85.1						84.8					
	R		10.73						10.73						10.73					
	Temp R (T)		643						648						646					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 1	Point 1	25	26	31.363	33.453	9.0	23.7	0.102	22	26.538	28.307	9.0	23.7	0.082	20	24.125	25.733	9.0	23.7	0.075
	Point 2	25	26	30.354	32.378	7.5	22.2	0.092	24	28.019	29.887	7.5	22.2	0.081	24	28.019	29.887	7.5	22.2	0.081
	Point 3	25	26	30.354	32.378	7.5	22.2	0.092	24	28.019	29.887	7.5	22.2	0.081	24	28.019	29.887	7.5	22.2	0.081
	Point 4	25	26	30.010	32.011	7.0	21.7	0.089	22	25.684	27.396	7.5	22.2	0.074	22	25.393	27.086	7.0	21.7	0.072
	Point 5	25	26	30.354	32.378	7.5	22.2	0.092	18	21.014	22.415	7.5	22.2	0.061	22	25.684	27.396	7.5	22.2	0.074
	Point 6	25	28	33.055	35.259	8.0	22.7	0.103	18	21.482	22.914	8.5	23.2	0.065	22	25.972	27.703	8.0	22.7	0.077
	Point 7	25	24	27.702	29.548	7.0	21.7	0.082	24	27.702	29.548	7.0	21.7	0.078	24	27.702	29.548	7.0	21.7	0.078
	Point 8	25	28	32.689	34.868	7.5	22.2	0.100	22	25.684	27.396	7.5	22.2	0.074	22	25.684	27.396	7.5	22.2	0.074
	Point 9	50	48	69.554	74.190	19.5	34.2	0.326	34	49.267	52.552	19.5	34.2	0.220	34	49.267	52.552	19.5	34.2	0.220
	Point 10	25	24	28.333	30.222	8.0	22.7	0.088	24	28.019	29.887	7.5	22.2	0.081	24	27.702	29.548	7.0	21.7	0.078
	Total Oxygen Injected Per Day (lb)		**37.367**						**28.769**						**29.177**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 2	Point 11	25	22	25.972	27.703	8.0	22.7	0.081	18	21.250	22.666	8.0	22.7	0.063	20	23.611	25.185	8.0	22.7	0.070
	Point 12	50	32	46.029	49.097	19.0	33.7	0.213	26	37.398	39.892	19.0	33.7	0.165	26	37.398	39.892	19.0	33.7	0.165
	Point 13	25	22	25.684	27.396	7.5	22.2	0.078	18	21.014	22.415	7.5	22.2	0.061	18	20.776	22.161	7.0	21.7	0.059
	Point 14	68	42	66.798	71.251	26.5	41.2	0.377	40	64.002	68.269	27.0	41.7	0.348	34	54.402	58.028	27.0	41.7	0.296
	Point 15	25	24	28.333	30.222	8.0	22.7	0.088	18	21.250	22.666	8.0	22.7	0.063	16	18.889	20.148	8.0	22.7	0.056
	Point 16	50	32	46.029	49.097	19.0	33.7	0.213	36	51.782	55.235	19.0	33.7	0.228	26	37.398	39.892	19.0	33.7	0.165
	Point 17	25	22	25.972	27.703	8.0	22.7	0.081	22	25.972	27.703	8.0	22.7	0.077	18	21.250	22.666	8.0	22.7	0.063
	Point 18	66	12	19.315	20.603	27.5	42.2	0.112	20	32.759	34.943	29.0	43.7	0.187	24	39.311	41.932	29.0	43.7	0.224
	Point 19	25	20	23.085	24.624	7.0	21.7	0.069	20	23.349	24.906	7.5	22.2	0.068	18	20.776	22.161	7.0	21.7	0.059
	Point 20	50	32	46.029	49.097	19.0	33.7	0.213	36	51.782	55.235	19.0	33.7	0.228	24	34.522	36.823	19.0	33.7	0.152
	Total Oxygen Injected Per Day (lb)		**48.771**						**47.584**						**41.857**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 3	Point 21	27	28	33.417	35.645	8.5	23.2	0.106	18	21.482	22.914	8.5	23.2	0.065	20	23.869	25.461	8.5	23.2	0.072
	Point 22	65.5	22	36.241	38.657	29.5	44.2	0.220	34	56.009	59.743	29.5	44.2	0.323	32	52.714	56.228	29.5	44.2	0.304
	Point 23	25	26	30.354	32.378	7.5	22.2	0.092	16	18.889	20.148	8.0	22.7	0.056	20	23.611	25.185	8.0	22.7	0.070
	Point 24	50	36	51.782	55.235	19.0	33.7	0.239	30	43.152	46.029	19.0	33.7	0.190	30	43.152	46.029	19.0	33.7	0.190
	Point 25	25	26	30.354	32.378	7.5	22.2	0.092	18	21.014	22.415	7.5	22.2	0.061	20	23.349	24.906	7.5	22.2	0.068
	Point 26	25	28	32.689	34.868	7.5	22.2	0.100	18	21.014	22.415	7.5	22.2	0.061	20	23.085	24.624	7.0	21.7	0.065
	Point 27	25	28	32.689	34.868	7.5	22.2	0.100	18	21.014	22.415	7.5	22.2	0.061	20	23.085	24.624	7.0	21.7	0.065
	Point 28	25	26	30.354	32.378	7.5	22.2	0.092	16	18.679	19.925	7.5	22.2	0.054	20	23.085	24.624	7.0	21.7	0.065
	Point 29	25	28	33.055	35.259	8.0	22.7	0.103	18	21.250	22.666	8.0	22.7	0.063	20	23.611	25.185	8.0	22.7	0.070
	Point 30	25	28	32.689	34.868	7.5	22.2	0.100	20	23.349	24.906	7.5	22.2	0.068	20	23.349	24.906	7.5	22.2	0.068
	Total Oxygen Injected Per Day (lb)		**39.807**						**32.051**						**33.210**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 4	Point 1	25	24	29.254	31.204	9.5	24.2	0.097	20	24.125	25.733	9.0	23.7	0.075	22	26.816	28.604	9.5	24.2	0.085
	Point 2	27	24	29.852	31.842	10.5	25.2	0.103	20	24.629	26.271	10.0	24.7	0.079	22	27.092	28.898	10.0	24.7	0.087
	Point 2A	43	24	33.745	35.994	17.5	32.2	0.149	18	25.308	26.996	17.5	32.2	0.106	20	28.120	29.995	17.5	32.2	0.118
	Point 4	35	28	36.514	38.949	13.0	27.7	0.139	22	28.690	30.602	13.0	27.7	0.104	24	31.298	33.384	13.0	27.7	0.113
	Point 5	35	28	36.514	38.949	13.0	27.7	0.139	22	28.948	30.877	13.5	28.2	0.107	24	31.298	33.384	13.0	27.7	0.113
	Point 6	40	28	38.441	41.003	16.0	30.7	0.162	22	30.203	32.217	16.0	30.7	0.121	28	38.441	41.003	16.0	30.7	0.154
	Point 7	45	28	39.975	42.640	18.5	33.2	0.182	22	31.172	33.250	18.0	32.7	0.133	26	36.839	39.295	18.0	32.7	0.157
	Point 8	45	28	39.673	42.318	18.0	32.7	0.178	22	31.172	33.250	18.0	32.7	0.133	24	34.006	36.273	18.0	32.7	0.145
	Point 9	45	28	39.673	42.318	18.0	32.7	0.178	22	31.172	33.250	18.0	32.7	0.133	24	34.006	36.273	18.0	32.7	0.145
	Point 10	45	30	42.507	45.341	18.0	32.7	0.191	24	34.006	36.273	18.0	32.7	0.145	26	36.839	39.295	18.0	32.7	0.157
	Total Oxygen Injected Per Day (lb)		**48.541**						**36.359**						**40.820**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 5	Point 11	45	32	45.686	48.732	18.5	33.2	0.208	20	28.554	30.457	18.5	33.2	0.124	20	28.554	30.457	18.5	33.2	0.124
	Point 4A	43	26	36.272	38.690	17	31.7	0.158	16.000	22.144	23.621	16.5	31.2	0.090	18.000	24.912	26.573	16.5	31.2	0.101
	Point 13	45	26	36.839	39.295	18.0	32.7	0.165	24	34.006	36.273	18.0	32.7	0.145	24	34.006	36.273	18.0	32.7	0.145
	Point 14	40	28	38.441	41.003	16.0	30.7	0.162	22	30.203	32.217	16.0	30.7	0.121	22	30.203	32.217	16.0	30.7	0.121
	Point 15	35	28	37.168	39.645	14.0	28.7	0.146	22	29.203	31.150	14.0	28.7	0.109	20	26.316	28.070	13.5	28.2	0.097
	Point 16	35	28	37.810	40.330	15.0	29.7	0.154	22	29.707	31.688	15.0	29.7	0.115	22	29.707	31.688	15.0	29.7	0.115
	Point 17	35	26	34.211	36.491	13.5	28.2	0.132	18	23.684	25.263	13.5	28.2	0.087	24	31.579	33.684	13.5	28.2	0.116
	Point 18	35	26	33.906	36.167	13.0	27.7	0.129	20	26.082	27.820	13.0	27.7	0.094	20	26.082	27.820	13.0	27.7	0.094
	Point 19	35	26	33.906	36.167	13.0	27.7	0.129	20	26.316	28.070	13.5	28.2	0.097	20	26.082	27.820	13.0	27.7	0.094
	Point 20	30	26	32.659	34.836	11.0	25.7	0.115	24	30.147	32.157	11.0	25.7	0.101	24	30.147	32.157	11.0	25.7	0.101
	Total Oxygen Injected Per Day (lb)		**47.935**						**34.699**						**35.507**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 6	Point 6A	43	24	32.949	35.146	16	30.7	0.139	14	-	-	16	-	-	20	27.458	29.288	16	30.7	0.110
	Point 22	30	26	32.340	34.496	10.5	25.2	0.112	26	32.659	34.836	11.0	25.7	0.110	24	29.852	31.842	10.5	25.2	0.098
	Point 23	30	32	40.196	42.876	11.0	25.7	0.142	18	22.610	24.118	11.0	25.7	0.076	22	27.635	29.477	11.0	25.7	0.093
	Point 24	25	28	33.417	35.645	8.5	23.2	0.106	24	28.643	30.553	8.5	23.2	0.087	24	28.643	30.553	8.5	23.2	0.087
	Point 25	25	28	39.673	42.318	18.0	32.7	0.178	26	36.272	38.690	17.0	31.7	0.150	24	33.216	35.431	16.5	31.2	0.135
	Point 26	25	26	32.017	34.152	10.0	24.7	0.108	26	32.017	34.152	10.0	24.7	0.103	24	29.254	31.204	9.5	24.2	0.092
	Point 27	25	30	36.188	38.600	9.0	23.7	0.118	24	28.950	30.880	9.0	23.7	0.090	24	28.950	30.880	9.0	23.7	0.090
	Point 27A	26	32	40.196	42.876	11.0	25.7	0.142	24	30.147	32.157	11.0	25.7	0.101	24	30.147	32.157	11.0	25.7	0.101
	Point 27B	35	30	39.474	42.106	13.5	28.2	0.153	22	28.948	30.877	13.5	28.2	0.107	24	31.579	33.684	13.5	28.2	0.116
	Point 27C	35	32	42.477	45.309	14.0	28.7	0.167	26	34.211	36.491	13.5	28.2	0.126	22	29.203	31.150	14.0	28.7	0.109
	Total Oxygen Injected Per Day (lb)		**43.645**						**30.361**						**33.019**					
	System Total Per Day (lb)		**266.07**						**209.82**						**213.59**					

Appendix E. Table E-2
Operational Data - 9 North Clinton Avenue Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q2 2013: 260,121 lbs

Oxygen to OU-2 - 9 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-13	31	7,365
Month 2	Aug-13	31	6,535
Month 3	Sep-13	25	4,346
Total Operational Days in Q3 2013			87
Total Oxygen in Q3 2013 (lbs)			18,246.22
Running Total for Oxygen to 9 North Clinton Through Q3 2013 (lbs)			**278,367.20**

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)

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

The system was down for 5 days in September due to a battery issue.

			7/25/2013						8/14/2013						9/28/2013					
		O_2%	93.9						93.3						91.1					
		R	10.73						10.73						10.73					
		Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	30	34	42.291	36.652	10.5	25.2	0.153	26	32.340	28.028	10.5	25.2	0.116	30	37.315	32.340	10.5	25.2	0.131
	Point 7A	30	40	49.258	42.690	10.0	24.7	0.174	28	34.480	29.883	10.0	24.7	0.121	30	36.567	31.692	9.5	24.2	0.123
	Point 7B	64	32	50.272	43.569	25.5	40.2	0.289	28	43.988	38.123	25.5	40.2	0.251	32	49.959	43.297	25.0	39.7	0.275
	Point 13A	25	38	43.861	38.013	7.0	21.7	0.136	26	30.010	26.009	7.0	21.7	0.093	30	34.226	29.662	6.5	21.2	0.101
	Point 13B	52	32	46.707	40.479	20.0	34.7	0.232	30	43.788	37.949	20.0	34.7	0.216	32	46.707	40.479	20.0	34.7	0.225
	Point 19A	25	34	40.138	34.786	8.0	22.7	0.130	24	28.643	24.824	8.5	23.2	0.094	30	35.416	30.694	8.0	22.7	0.112
	Point 19B	44	34	47.432	41.108	17.0	31.7	0.215	28	39.062	33.854	17.0	31.7	0.176	30	41.521	35.985	16.5	31.2	0.180
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**42.544**						**34.163**						**36.671**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	32	38	48.195	41.769	11.5	26.2	0.181	26	33.288	28.850	12.0	26.7	0.126	28	35.512	30.777	11.5	26.2	0.129
	Point 8A	45	34	47.432	41.108	17.0	31.7	0.215	28	39.062	33.854	17.0	31.7	0.176	30	41.521	35.985	16.5	31.2	0.180
	Point 8B	64	32	49.959	43.297	25.0	39.7	0.284	30	46.836	40.591	25.0	39.7	0.264	30	46.836	40.591	25.0	39.7	0.258
	Point 8C	25	38	43.861	38.013	7.0	21.7	0.136	24	27.702	24.008	7.0	21.7	0.085	28	32.319	28.009	7.0	21.7	0.097
	Point 14A	25	36	42.499	36.833	8.0	22.7	0.138	26	31.030	26.893	8.5	23.2	0.102	28	33.055	28.648	8.0	22.7	0.104
	Point 14B	52	36	52.165	45.210	19.5	34.2	0.255	28	40.573	35.163	19.5	34.2	0.197	30	43.471	37.675	19.5	34.2	0.206
	Point 20A	25	36	42.029	36.425	7.5	22.2	0.134	26	30.694	26.601	8.0	22.7	0.099	28	32.689	28.330	7.5	22.2	0.101
	Point 20B	42	32	43.932	38.075	16.0	30.7	0.193	28	38.441	33.315	16.0	30.7	0.168	30	40.850	35.403	15.5	30.2	0.171
Total Oxygen Injected Per Day (lb)			**49.144**						**39.002**						**39.908**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	25	26	30.354	26.307	7.5	22.2	0.096	26	30.354	26.307	7.5	22.2	0.096	30	35.024	30.354	7.5	22.2	0.108
	Point 3B	35	26	32.975	28.579	11.5	26.2	0.124	28	35.849	31.069	12.0	26.7	0.136	30	38.048	32.975	11.5	26.2	0.138
	Point 9A	45	24	32.949	28.556	16.0	30.7	0.145	28	38.441	33.315	16.0	30.7	0.168	36	49.825	43.181	16.5	31.2	0.216
	Point 9B	64	28	42.315	36.673	22.5	37.2	0.225	24	36.270	31.434	22.5	37.2	0.192	50	75.563	65.488	22.5	37.2	0.390
	Point 9C	25	24	28.019	24.283	7.5	22.2	0.089	32	37.359	32.378	7.5	22.2	0.118	26	30.010	26.009	7.0	21.7	0.090
	Point 15A	25	24	28.333	24.555	8.0	22.7	0.092	26	30.694	26.601	8.0	22.7	0.099	28	33.055	28.648	8.0	22.7	0.104
	Point 15B	44	26	35.403	30.683	15.5	30.2	0.153	30	40.850	35.403	15.5	30.2	0.175	32	43.573	37.763	15.5	30.2	0.183
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**29.572**						**31.487**						**39.350**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	25	30	35.416	30.694	8.0	22.7	0.115	28	33.055	28.648	8.0	22.7	0.107	36	42.029	36.425	7.5	22.2	0.130
	Point 4B	39	36	47.787	41.415	14.0	28.7	0.196	30	39.822	34.513	14.0	28.7	0.163	34	44.737	38.772	13.5	28.2	0.175
	Point 10A	45	36	49.825	43.181	16.5	31.2	0.222	26	35.985	31.187	16.5	31.2	0.160	32	43.932	38.075	16.0	30.7	0.187
	Point 10B	64	38	59.698	51.738	25.5	40.2	0.343	30	46.836	40.591	25.0	39.7	0.264	30	46.836	40.591	25.0	39.7	0.258
	Point 10C	25	32	37.777	32.740	8.0	22.7	0.123	28	33.055	28.648	8.0	22.7	0.107	38	44.860	38.879	8.0	22.7	0.141
	Point 16A	25	34	39.694	34.401	7.5	22.2	0.126	28	32.689	28.330	7.5	22.2	0.103	36	41.553	36.012	7.0	21.7	0.125
	Point 16B	47	34	48.175	41.751	18.0	32.7	0.225	28	39.673	34.383	18.0	32.7	0.184	36	50.617	43.868	17.5	32.2	0.226
Total Oxygen Injected Per Day (lb)			**43.246**						**34.801**						**39.774**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	25	26	30.354	26.307	7.5	22.2	0.096	30	35.024	30.354	7.5	22.2	0.111	34	39.244	34.012	7.0	21.7	0.118
	Point 5B	42	24	32.134	27.850	14.5	29.2	0.134	30	40.168	34.812	14.5	29.2	0.167	34	45.132	39.114	14.0	28.7	0.180
	Point 11A	45	26	35.985	31.187	16.5	31.2	0.161	30	41.521	35.985	16.5	31.2	0.184	34	47.057	40.782	16.5	31.2	0.204
	Point 11B	64	20	30.629	26.545	23.5	38.2	0.167	28	42.880	37.163	23.5	38.2	0.233	34	52.069	45.126	23.5	38.2	0.276
	Point 17A	25	22	25.684	22.260	7.5	22.2	0.082	30	35.024	30.354	7.5	22.2	0.111	36	42.029	36.425	7.5	22.2	0.130
	Point 17B	45	28	39.369	34.120	17.5	32.2	0.181	30	42.181	36.557	17.5	32.2	0.193	34	47.805	41.431	17.5	32.2	0.214
	Point 21A	25	28	33.055	28.648	8.0	22.7	0.107	30	35.416	30.694	8.0	22.7	0.114	38	44.860	38.879	8.0	22.7	0.141
Total Oxygen Injected Per Day (lb)			**29.733**						**35.597**						**40.405**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 6A	30	36	42.499	36.833	8.0	22.7	0.138	28	33.055	28.648	8.0	22.7	0.107	32	37.359	32.378	7.5	22.2	0.115
	Point 6B	52	36	52.165	45.210	19.5	34.2	0.255	30	43.471	37.675	19.5	34.2	0.211	42	59.963	51.968	18.5	33.2	0.276
	Point 12A	25	34	39.694	34.401	7.5	22.2	0.126	26	30.354	26.307	7.5	22.2	0.096	30	35.024	30.354	7.5	22.2	0.108
	Point 12B	54	34	50.336	43.624	21.0	35.7	0.257	30	44.414	38.492	21.0	35.7	0.225	34	50.336	43.624	21.0	35.7	0.249
	Point 18A	25	36	42.499	36.833	8.0	22.7	0.138	30	35.416	30.694	8.0	22.7	0.114	34	40.138	34.786	8.0	22.7	0.126
	Point 18B	45	36	50.222	43.526	17.0	31.7	0.228	30	41.852	36.272	17.0	31.7	0.189	36	50.222	43.526	17.0	31.7	0.221
	Point 21B	42	36	49.020	42.484	15.5	30.2	0.212	30	40.850	35.403	15.5	30.2	0.175	38	51.743	44.844	15.5	30.2	0.217
Total Oxygen Injected Per Day (lb)			**43.338**						**35.766**						**42.030**					
System Total Per Day (lb)			**237.58**						**210.82**						**238.14**					

Appendix E. Table E-2
Operational Data - 9 North Clinton Avenue Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q3 2013: 278,637 lbs

Oxygen to OU-2 - 9 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-13	31	5,851
Month 2	Nov-13	30	5,926
Month 3	Dec-13	31	2,755
Total Operational Days in Q4 2013			92
Total Oxygen in Q4 2013 (lbs)			14,532.92
Running Total for Oxygen to 9 North Clinton Through Q4 2013 (lbs)			**293,169.92**

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

System Operating Specs
Total of 6 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 3.1 injection cycles per day
Each injection point injects oxygen for 40 min per day (13 min per cycle * 3.1 cycles)

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

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

			10/25/2013						11/11/2013						12/23/2013					
		O_2%	96.2						94.2						94.3					
		R	10.73						10.73						10.73					
		Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	30	32	39.803	26.535	10.5	25.2	0.113	40	49.754	33.169	10.5	25.2	0.138	18	22.389	14.926	10.5	25.2	0.062
	Point 7A	30	30	36.567	24.378	9.5	24.2	0.100	40	49.258	32.838	10.0	24.7	0.134	16	19.703	13.135	10.0	24.7	0.054
	Point 7B	64	40	62.840	41.894	25.5	40.2	0.285	34	53.081	35.387	25.0	39.7	0.233	22	34.347	22.898	25.0	39.7	0.151
	Point 13A	25	30	34.627	23.085	7.0	21.7	0.085	38	43.353	28.902	6.5	21.2	0.101	20	23.085	15.390	7.0	21.7	0.055
	Point 13B	52	30	43.788	29.192	20.0	34.7	0.171	34	49.626	33.084	20.0	34.7	0.190	26	37.949	25.299	20.0	34.7	0.146
	Point 19A	25	28	33.055	22.037	8.0	22.7	0.085	34	40.138	26.759	8.0	22.7	0.101	22	25.972	17.314	8.0	22.7	0.065
	Point 19B	44	34	47.057	31.371	16.5	31.2	0.166	36	49.825	33.216	16.5	31.2	0.172	18	25.111	16.741	17.0	31.7	0.088
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**32.131**						**34.223**						**19.873**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	32	24	30.439	20.293	11.5	26.2	0.090	42	53.268	35.512	11.5	26.2	0.154	16	20.485	13.657	12.0	26.7	0.060
	Point 8A	45	26	35.985	23.990	16.5	31.2	0.127	38	52.593	35.062	16.5	31.2	0.181	20	27.901	18.601	17.0	31.7	0.098
	Point 8B	64	26	40.591	27.061	25.0	39.7	0.182	36	56.203	37.469	25.0	39.7	0.246	24	37.232	24.821	24.5	39.2	0.161
	Point 8C	25	24	27.702	18.468	7.0	21.7	0.068	44	50.786	33.858	7.0	21.7	0.122	16	18.679	12.453	7.5	22.2	0.046
	Point 14A	25	26	30.694	20.463	8.0	22.7	0.079	42	49.582	33.055	8.0	22.7	0.124	16	19.095	12.730	8.5	23.2	0.049
	Point 14B	52	24	34.777	23.185	19.5	34.2	0.134	40	57.536	38.357	19.0	33.7	0.214	20	28.981	19.320	19.5	34.2	0.110
	Point 20A	25	28	32.689	21.793	7.5	22.2	0.082	42	49.033	32.689	7.5	22.2	0.120	14	16.527	11.018	8.0	22.7	0.041
	Point 20B	42	26	35.695	23.797	16.0	30.7	0.124	38	52.170	34.780	16.0	30.7	0.177	20	27.458	18.305	16.0	30.7	0.093
	Total Oxygen Injected Per Day (lb)		**28.294**						**42.845**						**21.076**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	25	40	46.169	30.780	7.0	21.7	0.113	30	35.024	23.349	7.5	22.2	0.086	28	32.689	21.793	7.5	22.2	0.080
	Point 3B	35	42	53.268	35.512	11.5	26.2	0.157	30	38.048	25.366	11.5	26.2	0.110	16	20.485	13.657	12.0	26.7	0.060
	Point 9A	45	42	57.661	38.441	16.0	30.7	0.200	32	43.932	29.288	16.0	30.7	0.149	20	27.458	18.305	16.0	30.7	0.093
	Point 9B	64	34	51.383	34.255	22.5	37.2	0.216	36	54.405	36.270	22.5	37.2	0.223	24	36.270	24.180	22.5	37.2	0.149
	Point 9C	25	50	57.712	38.475	7.0	21.7	0.141	30	34.627	23.085	7.0	21.7	0.083	16	18.679	12.453	7.5	22.2	0.046
	Point 15A	25	24	28.333	18.889	8.0	22.7	0.073	32	37.777	25.185	8.0	22.7	0.095	16	18.889	12.592	8.0	22.7	0.047
	Point 15B	44	42	57.190	38.126	15.5	30.2	0.195	30	40.850	27.233	15.5	30.2	0.136	14	19.063	12.709	15.5	30.2	0.064
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**35.011**						**28.233**						**17.277**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	25	30	35.416	23.611	8.0	22.7	0.091	30	35.416	23.611	8.0	22.7	0.089	20	23.611	15.740	8.0	22.7	0.059
	Point 4B	39	32	42.106	28.070	13.5	28.2	0.134	32	42.106	28.070	13.5	28.2	0.131	22	29.203	19.469	14.0	28.7	0.093
	Point 10A	45	26	35.695	23.797	16.0	30.7	0.124	30	41.521	27.680	16.5	31.2	0.143	20	27.680	18.454	16.5	31.2	0.095
	Point 10B	64	32	49.959	33.306	25.0	39.7	0.224	30	46.836	31.224	25.0	39.7	0.205	24	37.704	25.136	25.5	40.2	0.168
	Point 10C	25	26	30.694	20.463	8.0	22.7	0.079	30	35.416	23.611	8.0	22.7	0.089	18	21.250	14.166	8.0	22.7	0.053
	Point 16A	25	28	32.319	21.546	7.0	21.7	0.079	30	34.627	23.085	7.0	21.7	0.083	18	21.014	14.010	7.5	22.2	0.052
	Point 16B	47	28	39.369	26.246	17.5	32.2	0.143	30	42.181	28.120	17.5	32.2	0.150	22	31.172	20.781	18.0	32.7	0.113
	Total Oxygen Injected Per Day (lb)		**27.918**						**28.481**						**20.240**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	25	36	41.553	27.702	7.0	21.7	0.102	36	41.553	27.702	7.0	21.7	0.100	22	25.684	17.123	7.5	22.2	0.063
	Point 5B	42	38	50.442	33.628	14.0	28.7	0.163	34	45.132	30.088	14.0	28.7	0.143	24	32.134	21.423	14.5	29.2	0.104
	Point 11A	45	38	52.593	35.062	16.5	31.2	0.185	34	47.057	31.371	16.5	31.2	0.162	24	33.482	22.321	17.0	31.7	0.117
	Point 11B	64	38	58.194	38.796	23.5	38.2	0.251	30	45.943	30.629	23.5	38.2	0.194	24	36.754	24.503	23.5	38.2	0.155
	Point 17A	25	38	44.363	29.576	7.5	22.2	0.111	32	37.359	24.906	7.5	22.2	0.092	24	28.019	18.679	7.5	22.2	0.069
	Point 17B	45	38	53.012	35.342	17.0	31.7	0.190	36	50.222	33.482	17.0	31.7	0.176	24	33.745	22.496	17.5	32.2	0.120
	Point 21A	25	40	47.221	31.481	8.0	22.7	0.121	30	35.416	23.611	8.0	22.7	0.089	22	25.972	17.314	8.0	22.7	0.065
	Total Oxygen Injected Per Day (lb)		**35.909**						**30.551**						**22.187**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 6A	30	30	35.024	23.349	7.5	22.2	0.088	38	44.363	29.576	7.5	22.2	0.109	20	23.611	15.740	8.0	22.7	0.059
	Point 6B	52	34	49.267	32.845	19.5	34.2	0.190	32	46.029	30.686	19.0	33.7	0.171	24	34.777	23.185	19.5	34.2	0.131
	Point 12A	25	28	32.689	21.793	7.5	22.2	0.082	38	44.363	29.576	7.5	22.2	0.109	18	21.014	14.010	7.5	22.2	0.052
	Point 12B	54	30	44.414	29.609	21.0	35.7	0.179	34	50.336	33.557	21.0	35.7	0.198	24	35.531	23.687	21.0	35.7	0.140
	Point 18A	25	28	33.055	22.037	8.0	22.7	0.085	36	42.499	28.333	8.0	22.7	0.107	20	23.611	15.740	8.0	22.7	0.059
	Point 18B	45	32	44.642	29.761	17.0	31.7	0.160	36	50.222	33.482	17.0	31.7	0.176	24	33.482	22.321	17.0	31.7	0.117
	Point 21B	42	30	40.850	27.233	15.5	30.2	0.139	38	51.313	34.209	15.0	29.7	0.168	22	29.957	19.971	15.5	30.2	0.100
	Total Oxygen Injected Per Day (lb)		**29.494**						**33.212**						**21.092**					
	System Total Per Day (lb)		**188.76**						**197.54**						**121.74**					

Appendix E. Table E-2
Operational Data - 9 North Clinton Avenue Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q4 2013: 293,170 lbs

Oxygen to OU-2 - 9 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-14	29	5,580
Month 2	Feb-14	27	5,105
Month 3	Mar-14	24	2,401
Total Operational Days in Q1 2014			80
Total Oxygen in Q1 2014			13,085.85
Running Total for Oxygen to 9 North Clinton Through Q4 2013 (lbs)			**306,255.77**

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

System Operating Specs
Total of 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 was down for two days in January due to booster pump circuit breaker being tripped.
System was down for one day in February due to a compressor fault caused by a power outage.
System was down for seven days in March due to a compressor fault caused by a power outage and the backup battery malfunctioning.

			1/25/2014						2/18/2014						3/22/2014					
		O_2%	91.9						94.4						76.9					
		R	10.73						10.73						10.73					
		Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	30	34	42.708	28.472	11.0	25.7	0.118	32	40.196	26.797	11.0	25.7	0.114	24	29.852	19.901	10.5	25.2	0.068
	Point 7A	30	34	41.869	27.913	10.0	24.7	0.111	32	39.406	26.271	10.0	24.7	0.108	22	27.092	18.061	10.0	24.7	0.060
	Point 7B	64	32	50.272	33.515	25.5	40.2	0.218	34	53.414	35.609	25.5	40.2	0.238	26	40.591	27.061	25.0	39.7	0.145
	Point 13A	25	32	36.936	24.624	7.0	21.7	0.086	32	36.936	24.624	7.0	21.7	0.089	22	25.393	16.929	7.0	21.7	0.050
	Point 13B	52	30	43.788	29.192	20.0	34.7	0.164	32	46.707	31.138	20.0	34.7	0.179	28	40.868	27.246	20.0	34.7	0.128
	Point 19A	25	30	35.804	23.869	8.5	23.2	0.089	30	35.804	23.869	8.5	23.2	0.092	26	30.694	20.463	8.0	22.7	0.063
	Point 19B	44	34	47.432	31.621	17.0	31.7	0.162	32	44.642	29.761	17.0	31.7	0.157	28	39.062	26.041	17.0	31.7	0.112
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**30.365**						**31.240**						**20.012**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	32	38	48.652	32.435	12.0	26.7	0.140	34	43.531	29.021	12.0	26.7	0.129	28	35.849	23.899	12.0	26.7	0.086
	Point 8A	45	38	53.012	35.342	17.0	31.7	0.181	32	44.642	29.761	17.0	31.7	0.157	30	41.852	27.901	17.0	31.7	0.120
	Point 8B	64	44	68.259	45.506	24.5	39.2	0.288	30	47.130	31.420	25.5	40.2	0.210	30	46.540	31.027	24.5	39.2	0.164
	Point 8C	25	34	39.694	26.462	7.5	22.2	0.095	34	39.694	26.462	7.5	22.2	0.098	28	32.689	21.793	7.5	22.2	0.065
	Point 14A	25	34	40.578	27.052	8.5	23.2	0.101	34	40.578	27.052	8.5	23.2	0.104	28	33.417	22.278	8.5	23.2	0.070
	Point 14B	52	38	55.063	36.709	19.5	34.2	0.203	34	49.267	32.845	19.5	34.2	0.186	30	43.471	28.981	19.5	34.2	0.134
	Point 20A	25	34	40.138	26.759	8.0	22.7	0.098	32	37.777	25.185	8.0	22.7	0.095	28	33.055	22.037	8.0	22.7	0.068
	Point 20B	42	30	41.187	27.458	16.0	30.7	0.136	32	43.932	29.288	16.0	30.7	0.149	30	41.187	27.458	16.0	30.7	0.114
	Total Oxygen Injected Per Day (lb)		**39.772**						**36.071**						**26.282**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	25	34	39.694	26.462	7.5	22.2	0.095	34	39.694	26.462	7.5	22.2	0.098	20	23.349	15.566	7.5	22.2	0.047
	Point 3B	35	34	43.531	29.021	12.0	26.7	0.125	34	43.531	29.021	12.0	26.7	0.129	20	25.607	17.071	12.0	26.7	0.062
	Point 9A	45	34	47.057	31.371	16.5	31.2	0.158	34	47.057	31.371	16.5	31.2	0.162	24	32.949	21.966	16.0	30.7	0.091
	Point 9B	64	34	51.727	34.484	23.0	37.7	0.210	30	45.641	30.427	23.0	37.7	0.190	28	42.315	28.210	22.5	37.2	0.142
	Point 9C	25	32	37.359	24.906	7.5	22.2	0.089	36	42.029	28.019	7.5	22.2	0.103	18	21.014	14.010	7.5	22.2	0.042
	Point 15A	25	28	33.055	22.037	8.0	22.7	0.081	32	38.191	25.461	8.5	23.2	0.098	26	30.694	20.463	8.0	22.7	0.063
	Point 15B	44	34	46.296	30.864	15.5	30.2	0.151	34	46.678	31.119	16.0	30.7	0.159	18	24.510	16.340	15.5	30.2	0.067
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**29.095**						**30.045**						**16.418**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	25	30	35.416	23.611	8.0	22.7	0.087	34	40.138	26.759	8.0	22.7	0.101	28	33.055	22.037	8.0	22.7	0.068
	Point 4B	39	36	47.787	31.858	14.0	28.7	0.148	34	45.132	30.088	14.0	28.7	0.143	28	37.168	24.778	14.0	28.7	0.096
	Point 10A	45	32	44.289	29.526	16.5	31.2	0.149	34	47.057	31.371	16.5	31.2	0.162	30	41.521	27.680	16.5	31.2	0.117
	Point 10B	64	40	62.840	41.894	25.5	40.2	0.272	32	50.272	33.515	25.5	40.2	0.224	36	56.907	37.938	26.0	40.7	0.209
	Point 10C	25	34	40.578	27.052	8.5	23.2	0.101	32	38.191	25.461	8.5	23.2	0.098	28	33.055	22.037	8.0	22.7	0.068
	Point 16A	25	34	39.694	26.462	7.5	22.2	0.095	32	37.359	24.906	7.5	22.2	0.092	28	32.689	21.793	7.5	22.2	0.065
	Point 16B	47	36	51.008	34.006	18.0	32.7	0.180	32	45.341	30.227	18.0	32.7	0.164	30	42.507	28.338	18.0	32.7	0.125
	Total Oxygen Injected Per Day (lb)		**33.006**						**31.494**						**23.928**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	25	32	37.359	24.906	7.5	22.2	0.089	32	37.777	25.185	8.0	22.7	0.095	28	32.689	21.793	7.5	22.2	0.065
	Point 5B	42	32	42.846	28.564	14.5	29.2	0.135	32	42.846	28.564	14.5	29.2	0.138	36	48.201	32.134	14.5	29.2	0.127
	Point 11A	45	32	44.642	29.761	17.0	31.7	0.152	30	42.181	28.120	17.5	32.2	0.150	32	44.642	29.761	17.0	31.7	0.128
	Point 11B	64	32	49.006	32.670	23.5	38.2	0.202	30	46.243	30.828	24.0	38.7	0.198	36	55.131	36.754	23.5	38.2	0.190
	Point 17A	25	30	35.416	23.611	8.0	22.7	0.087	30	35.024	23.349	7.5	22.2	0.086	26	30.694	20.463	8.0	22.7	0.063
	Point 17B	45	32	44.993	29.995	17.5	32.2	0.156	32	44.993	29.995	17.5	32.2	0.160	32	44.993	29.995	17.5	32.2	0.131
	Point 21A	25	30	35.416	23.611	8.0	22.7	0.087	30	35.416	23.611	8.0	22.7	0.089	28	33.055	22.037	8.0	22.7	0.068
	Total Oxygen Injected Per Day (lb)		**29.042**						**29.345**						**24.665**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 6A	30	34	40.138	26.759	8.0	22.7	0.098	34	40.138	26.759	8.0	22.7	0.101	30	35.416	23.611	8.0	22.7	0.072
	Point 6B	52	34	49.267	32.845	19.5	34.2	0.182	34	49.626	33.084	20.0	34.7	0.191	40	58.383	38.922	20.0	34.7	0.183
	Point 12A	25	34	40.138	26.759	8.0	22.7	0.098	32	37.777	25.185	8.0	22.7	0.095	22	25.972	17.314	8.0	22.7	0.053
	Point 12B	54	30	44.724	29.816	21.5	36.2	0.174	32	47.706	31.804	21.5	36.2	0.191	36	53.669	35.779	21.5	36.2	0.175
	Point 18A	25	36	42.499	28.333	8.0	22.7	0.104	32	37.777	25.185	8.0	22.7	0.095	30	35.416	23.611	8.0	22.7	0.072
	Point 18B	45	34	47.432	31.621	17.0	31.7	0.162	30	41.852	27.901	17.0	31.7	0.147	32	44.642	29.761	17.0	31.7	0.128
	Point 21B	42	34	46.678	31.119	16.0	30.7	0.154	32	43.573	29.049	15.5	30.2	0.146	32	43.932	29.288	16.0	30.7	0.122
	Total Oxygen Injected Per Day (lb)		**31.122**						**30.872**						**25.761**					
	System Total Per Day (lb)		**192.40**						**189.07**						**137.07**					

Appendix E. Table E-2
Operational Data - 9 North Clinton Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2012/2013 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q4 2013 306,256 lbs

Oxygen to OU-2 - 9 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-14	16	2,752
Month 2	May-14	26	4,472
Month 3	Jun-14	30	2,474
Total Operational Days in Q2 2014			72
Total Oxygen in Q2 2014			9,697.36
Running Total for Oxygen to 9 North Clinton Through Q2 2014 (lbs)			**315,953.13**

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 was down for 5 days in April due to air compressor pressure relief valve malfunctioning
System was down for 14 days in April and into May due to Multiple problems including: air compressor contact not remaining engaged;
booster pump leaking; refrigerated dryer thermostat malfunctioning
April check not conducted due to above down time.

May 2014 system check used for April 2014 system check.

			4/11/2014						5/17/2014						6/26/2014					
		O_2%	90.7						90.7						89.1					
		R	10.73						10.73						10.73					
		Temp R (T)	619						619						616					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	30	90	114.145	76.097	11.5	26.2	0.272	90	114.145	76.097	11.5	26.2	0.272	28	34.828	23.218	10.5	25.2	0.079
	Point 7A	30	88	109.458	72.972	10.5	25.2	0.251	88	109.458	72.972	10.5	25.2	0.251	28	34.480	22.987	10.0	24.7	0.077
	Point 7B	64	46	72.714	48.476	26.0	40.7	0.269	46	72.714	48.476	26.0	40.7	0.269	30	46.836	31.224	25.0	39.7	0.167
	Point 13A	25	64	74.717	49.812	7.5	22.2	0.151	64	74.717	49.812	7.5	22.2	0.151	28	32.319	21.546	7.0	21.7	0.063
	Point 13B	52	48	70.563	47.042	20.5	35.2	0.226	48	70.563	47.042	20.5	35.2	0.226	36	52.545	35.030	20.0	34.7	0.164
	Point 19A	25	68	82.025	54.684	9.0	23.7	0.177	68	82.025	54.684	9.0	23.7	0.177	28	33.417	22.278	8.5	23.2	0.070
	Point 19B	44	52	73.113	48.742	17.5	32.2	0.214	52	73.113	48.742	17.5	32.2	0.214	30	41.852	27.901	17.0	31.7	0.119
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**49.960**						**49.960**						**23.625**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	32	30	38.410	25.607	12.0	26.7	0.093	30	38.410	25.607	12.0	26.7	0.093	24	30.728	20.485	12.0	26.7	0.074
	Point 8A	45	30	41.852	27.901	17.0	31.7	0.121	30	41.852	27.901	17.0	31.7	0.121	26	36.272	24.181	17.0	31.7	0.103
	Point 8B	64	28	43.438	28.958	24.5	39.2	0.155	28	43.438	28.958	24.5	39.2	0.155	26	40.335	26.890	24.5	39.2	0.142
	Point 8C	25	32	37.359	24.906	7.5	22.2	0.076	32	37.359	24.906	7.5	22.2	0.076	22	25.684	17.123	7.5	22.2	0.051
	Point 14A	25	30	35.804	23.869	8.5	23.2	0.076	30	35.804	23.869	8.5	23.2	0.076	22	26.256	17.504	8.5	23.2	0.055
	Point 14B	52	30	43.471	28.981	19.5	34.2	0.135	30	43.471	28.981	19.5	34.2	0.135	24	34.777	23.185	19.5	34.2	0.107
	Point 20A	25	28	33.055	22.037	8.0	22.7	0.068	28	33.055	22.037	8.0	22.7	0.068	22	25.972	17.314	8.0	22.7	0.053
	Point 20B	42	28	38.441	25.627	16.0	30.7	0.107	28	38.441	25.627	16.0	30.7	0.107	26	35.403	23.602	15.5	30.2	0.096
	Total Oxygen Injected Per Day (lb)		**26.604**						**26.604**						**21.795**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	25	38	44.860	29.907	8.0	22.7	0.093	38	44.860	29.907	8.0	22.7	0.093	18	21.014	14.010	7.5	22.2	0.042
	Point 3B	35	30	38.410	25.607	12.0	26.7	0.093	30	38.410	25.607	12.0	26.7	0.093	18	22.829	15.219	11.5	26.2	0.054
	Point 9A	45	30	41.521	27.680	16.5	31.2	0.118	30	41.521	27.680	16.5	31.2	0.118	20	27.458	18.305	16.0	30.7	0.076
	Point 9B	64	30	45.641	30.427	23.0	37.7	0.157	30	45.641	30.427	23.0	37.7	0.157	22	33.248	22.165	22.5	37.2	0.111
	Point 9C	25	26	30.354	20.236	7.5	22.2	0.061	26	30.354	20.236	7.5	22.2	0.061	16	18.679	12.453	7.5	22.2	0.037
	Point 15A	25	30	35.416	23.611	8.0	22.7	0.073	30	35.416	23.611	8.0	22.7	0.073	24	28.333	18.889	8.0	22.7	0.058
	Point 15B	44	26	35.403	23.602	15.5	30.2	0.097	26	35.403	23.602	15.5	30.2	0.097	18	24.510	16.340	15.5	30.2	0.067
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**22.161**						**22.161**						**14.213**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	25	32	37.777	25.185	8.0	22.7	0.078	32	37.777	25.185	8.0	22.7	0.078	20	23.611	15.740	8.0	22.7	0.048
	Point 4B	39	34	45.132	30.088	14.0	28.7	0.118	34	45.132	30.088	14.0	28.7	0.118	20	26.548	17.699	14.0	28.7	0.068
	Point 10A	45	40	55.361	36.907	16.5	31.2	0.157	40	55.361	36.907	16.5	31.2	0.157	22	30.448	20.299	16.5	31.2	0.085
	Point 10B	64	30	47.130	31.420	25.5	40.2	0.172	30	47.130	31.420	25.5	40.2	0.172	22	34.562	23.041	25.5	40.2	0.125
	Point 10C	25	30	35.416	23.611	8.0	22.7	0.073	30	35.416	23.611	8.0	22.7	0.073	18	21.250	14.166	8.0	22.7	0.043
	Point 16A	25	32	37.359	24.906	7.5	22.2	0.076	32	37.359	24.906	7.5	22.2	0.076	18	21.014	14.010	7.5	22.2	0.042
	Point 16B	47	32	45.341	30.227	18.0	32.7	0.135	32	45.341	30.227	18.0	32.7	0.135	18	25.504	17.003	18.0	32.7	0.075
	Total Oxygen Injected Per Day (lb)		**25.901**						**25.901**						**15.587**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	25	34	39.694	26.462	7.5	22.2	0.080	34	39.694	26.462	7.5	22.2	0.080	20	23.349	15.566	7.5	22.2	0.047
	Point 5B	42	32	42.846	28.564	14.5	29.2	0.114	32	42.846	28.564	14.5	29.2	0.114	20	26.779	17.852	14.5	29.2	0.070
	Point 11A	45	38	53.012	35.342	17.0	31.7	0.153	38	53.012	35.342	17.0	31.7	0.153	22	30.448	20.299	16.5	31.2	0.085
	Point 11B	64	32	49.325	32.884	24.0	38.7	0.174	32	49.325	32.884	24.0	38.7	0.174	18	27.566	18.377	23.5	38.2	0.095
	Point 17A	25	34	40.138	26.759	8.0	22.7	0.083	34	40.138	26.759	8.0	22.7	0.083	22	25.972	17.314	8.0	22.7	0.053
	Point 17B	45	30	42.181	28.120	17.5	32.2	0.124	30	42.181	28.120	17.5	32.2	0.124	24	33.745	22.496	17.5	32.2	0.098
	Point 21A	25	34	40.578	27.052	8.5	23.2	0.086	34	40.578	27.052	8.5	23.2	0.086	20	23.869	15.913	8.5	23.2	0.050
	Total Oxygen Injected Per Day (lb)		**26.022**						**26.022**						**15.912**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 6A	30	26	30.694	20.463	8.0	22.7	0.063	26	30.694	20.463	8.0	22.7	0.063	28	33.055	22.037	8.0	22.7	0.067
	Point 6B	52	28	40.573	27.049	19.5	34.2	0.126	28	40.573	27.049	19.5	34.2	0.126	28	40.573	27.049	19.5	34.2	0.125
	Point 12A	25	24	28.333	18.889	8.0	22.7	0.059	24	28.333	18.889	8.0	22.7	0.059	26	30.354	20.236	7.5	22.2	0.061
	Point 12B	54	28	41.742	27.828	21.5	36.2	0.138	28	41.742	27.828	21.5	36.2	0.138	30	44.414	29.609	21.0	35.7	0.142
	Point 18A	25	26	30.694	20.463	8.0	22.7	0.063	26	30.694	20.463	8.0	22.7	0.063	30	35.416	23.611	8.0	22.7	0.072
	Point 18B	45	28	39.062	26.041	17.0	31.7	0.113	28	39.062	26.041	17.0	31.7	0.113	28	39.062	26.041	17.0	31.7	0.111
	Point 21B	42	28	38.126	25.418	15.5	30.2	0.105	28	38.126	25.418	15.5	30.2	0.105	28	38.126	25.418	15.5	30.2	0.103
	Total Oxygen Injected Per Day (lb)		**21.339**						**21.339**						**21.830**					
	System Total Per Day (lb)		**171.99**						**171.99**						**112.96**					

Appendix E. Table E-3
Operational Data - 34 North Clinton Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q2 2013: 318,437 lbs

Oxygen to OU-2 - 34 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-13	31	6,435
Month 2	Aug-13	31	6,995
Month 3	Sep-13	30	5,305
Total Operational Days in Q3 2013			92
Total Oxygen in Q3 2013 (lbs)			18,735.23
Running Total for Oxygen to 34 North Clinton Through Q3 2013 (lbs)			**337,172.23**

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

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

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

		7/24/2013						8/13/2013						9/18/2013					
	O_2%	84.3						85.4						85.0					
	R	10.73						10.73						10.73					
	Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	65	28	44.801	38.828	27.0	41.7	0.240	36	57.602	49.921	27.0	41.7	0.313	30	48.001	41.601	27.0	41.7	0.259
	Point 1B	45	22	30.691	26.599	17.0	31.7	0.125	30	41.852	36.272	17.0	31.7	0.173	24	33.482	29.017	17.0	31.7	0.137
	Point 2	30	18	23.473	20.344	13.0	27.7	0.084	36	46.947	40.687	13.0	27.7	0.169	24	31.014	26.879	12.5	27.2	0.109
	Point 13A	65	22	34.130	29.579	24.5	39.2	0.172	36	55.848	48.402	24.5	39.2	0.285	26	40.077	34.733	24.0	38.7	0.201
	Point 13B	45	20	27.458	23.797	16.0	30.7	0.108	30	41.187	35.695	16.0	30.7	0.165	26	35.695	30.936	16.0	30.7	0.142
	Point 14	30	20	24.629	21.345	10.0	24.7	0.078	30	36.943	32.017	10.0	24.7	0.119	22	27.092	23.479	10.0	24.7	0.087
	Point 25A	45	22	30.203	26.176	16.0	30.7	0.119	30	41.521	35.985	16.5	31.2	0.169	26	35.695	30.936	16.0	30.7	0.142
	Point 25B	30	22	27.092	23.479	10.0	24.7	0.086	30	36.943	32.017	10.0	24.7	0.119	24	29.555	25.614	10.0	24.7	0.095
	Total Oxygen Injected Per Day (lb)		**32.383**						**48.324**						**37.508**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3A	65	32	50.272	43.569	25.5	40.2	0.260	30	46.836	40.591	25.0	39.7	0.242	24	37.704	32.677	25.0	39.7	0.194
	Point 3B	45	28	38.126	33.043	15.5	30.2	0.148	34	45.912	39.790	15.0	29.7	0.177	24	32.680	28.323	15.0	29.7	0.126
	Point 4	30	24	29.555	25.614	10.0	24.7	0.094	32	39.803	34.496	10.5	25.2	0.131	24	29.555	25.614	10.0	24.7	0.095
	Point 15A	65	50	78.060	67.652	25.0	39.7	0.398	30	45.943	39.817	23.5	38.2	0.228	26	40.591	35.179	23.5	38.2	0.201
	Point 15B	45	40	55.361	47.979	16.5	31.2	0.222	34	47.057	40.782	16.5	31.2	0.191	20	27.680	23.990	16.5	31.2	0.112
	Point 16	30	22	26.816	23.241	9.5	24.2	0.083	34	41.869	36.286	10.0	24.7	0.135	24	29.254	25.353	9.5	24.2	0.092
	Point 26A	45	24	33.216	28.788	16.5	31.2	0.133	32	44.642	38.690	17.0	31.7	0.184	22	30.448	26.389	16.5	31.2	0.123
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**42.812**						**41.224**						**30.134**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 5A	65	30	48.288	41.850	27.5	42.2	0.262	26	41.601	36.054	27.0	41.7	0.226	26	41.601	36.054	27.0	41.7	0.225
	Point 5B	45	40	55.361	47.979	16.5	31.2	0.222	30	41.521	35.985	16.5	31.2	0.169	26	35.985	31.187	16.5	31.2	0.145
	Point 6	30	36	42.499	36.833	8.0	22.7	0.124	30	35.416	30.694	8.0	22.7	0.105	28	33.055	28.648	8.0	22.7	0.097
	Point 17A	65	34	52.408	45.420	24.0	38.7	0.261	28	43.160	37.405	24.0	38.7	0.217	32	49.325	42.749	24.0	38.7	0.247
	Point 17B	45	34	47.057	40.782	16.5	31.2	0.189	32	44.289	38.383	16.5	31.2	0.180	30	41.521	35.985	16.5	31.2	0.168
	Point 18	30	34	41.869	36.286	10.0	24.7	0.133	30	36.943	32.017	10.0	24.7	0.119	26	31.692	27.466	9.5	24.2	0.099
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**38.070**						**32.479**						**31.417**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 7A	65	32	50.894	44.108	26.5	41.2	0.269	34	53.745	46.579	26.0	40.7	0.285	24	38.170	33.081	26.5	41.2	0.204
	Point 7B	45	28	39.062	33.854	17.0	31.7	0.159	26	36.272	31.435	17.0	31.7	0.150	24	33.216	28.788	16.5	31.2	0.134
	Point 8	30	28	34.828	30.184	10.5	25.2	0.113	34	42.291	36.652	10.5	25.2	0.139	24	29.852	25.872	10.5	25.2	0.097
	Point 19A	65	34	53.745	46.579	26.0	40.7	0.281	34	53.745	46.579	26.0	40.7	0.285	26	40.846	35.400	25.5	40.2	0.213
	Point 19B	45	30	41.852	36.272	17.0	31.7	0.170	30	41.852	36.272	17.0	31.7	0.173	26	35.985	31.187	16.5	31.2	0.145
	Point 20	30	30	36.943	32.017	10.0	24.7	0.117	32	39.406	34.152	10.0	24.7	0.127	24	29.555	25.614	10.0	24.7	0.095
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**35.517**						**37.026**						**28.419**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 9A	65	28	44.532	38.594	26.5	41.2	0.236	32	50.894	44.108	26.5	41.2	0.273	24	38.170	33.081	26.5	41.2	0.204
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	30	36	43.881	38.030	9.5	24.2	0.136	34	41.443	35.917	9.5	24.2	0.131	22	26.816	23.241	9.5	24.2	0.084
	Point 21A	65	32	49.959	43.297	25.0	39.7	0.255	32	49.959	43.297	25.0	39.7	0.258	26	40.591	35.179	25.0	39.7	0.209
	Point 21B	45	30	41.521	35.985	16.5	31.2	0.166	32	44.289	38.383	16.5	31.2	0.180	26	35.985	31.187	16.5	31.2	0.145
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**25.388**						**26.924**						**20.543**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 11A	65	32	50.272	43.569	25.5	40.2	0.260	34	53.414	46.292	25.5	40.2	0.279	24	37.704	32.677	25.5	40.2	0.196
	Point 11B	45	28	38.753	33.586	16.5	31.2	0.155	32	44.289	38.383	16.5	31.2	0.180	22	30.448	26.389	16.5	31.2	0.123
	Point 12	30	26	32.017	27.748	10.0	24.7	0.102	34	41.869	36.286	10.0	24.7	0.135	24	29.555	25.614	10.0	24.7	0.095
	Point 23	65	26	41.099	35.619	26.0	40.7	0.215	32	50.584	43.839	26.0	40.7	0.268	26	41.099	35.619	26.0	40.7	0.217
	Point 24A	55	30	44.724	38.761	21.5	36.2	0.208	34	50.687	43.929	21.5	36.2	0.239	24	35.779	31.009	21.5	36.2	0.168
	Point 24B	30	26	32.340	28.028	10.5	25.2	0.105	34	42.291	36.652	10.5	25.2	0.139	26	32.017	27.748	10.0	24.7	0.102
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**33.413**						**39.659**						**28.828**					
	System Total Per Day (lb)		**207.58**						**225.64**						**176.85**					

Appendix E. Table E-3
Operational Data - 34 North Clinton Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q3 2013: 337,172 lbs

Oxygen to OU-2 - 34 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-13	17	4,475
Month 2	Nov-13	29	6,165
Month 3	Dec-13	31	6,115
Total Operational Days in Q4 2013			77
Total Oxygen in Q4 2013 (lbs)			16,756.14
Running Total for Oxygen to 34 North Clinton Through Q4 2013 (lbs)			**353,928.14**

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

System was down for 14 days in October due to circuit breakers malfunctioning.
System was down for 1 day in November due to circuit breakers malfunctioning.

		10/16/2013						11/13/2013						12/18/2013					
	O_2%	85.0						84.6						85.6					
	R	10.73						10.73						10.73					
	Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	65	42	66.798	57.892	26.5	41.2	0.356	32	50.894	44.108	26.5	41.2	0.270	30	48.001	41.601	27.0	41.7	0.261
	Point 1B	45	38	53.012	45.944	17.0	31.7	0.218	30	41.852	36.272	17.0	31.7	0.171	30	42.181	36.557	17.5	32.2	0.177
	Point 2	30	42	54.275	47.038	12.5	27.2	0.191	30	38.768	33.599	12.5	27.2	0.136	30	39.122	33.906	13.0	27.7	0.141
	Point 13A	65	32	49.325	42.749	24.0	38.7	0.247	30	46.243	40.077	24.0	38.7	0.231	24	36.994	32.061	24.0	38.7	0.187
	Point 13B	45	38	52.170	45.214	16.0	30.7	0.207	28	38.441	33.315	16.0	30.7	0.152	28	38.441	33.315	16.0	30.7	0.154
	Point 14	30	40	48.757	42.256	9.5	24.2	0.153	26	31.692	27.466	9.5	24.2	0.099	34	41.869	36.286	10.0	24.7	0.135
	Point 25A	45	38	52.593	45.580	16.5	31.2	0.213	32	40.585	35.174	11.5	26.2	0.137	34	43.122	37.372	11.5	26.2	0.147
	Point 25B	30	40	49.258	42.690	10.0	24.7	0.158	38	46.795	40.555	10.0	24.7	0.149	34	41.869	36.286	10.0	24.7	0.135
	Total Oxygen Injected Per Day (lb)		**55.781**						**43.047**						**42.803**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3A	65	32	49.959	43.297	25.0	39.7	0.257	30	47.130	40.846	25.5	40.2	0.244	32	49.959	43.297	25.0	39.7	0.259
	Point 3B	45	40	53.557	46.416	14.5	29.2	0.203	30	40.168	34.812	14.5	29.2	0.151	24	32.134	27.850	15.0	29.7	0.125
	Point 4	30	40	49.258	42.690	10.0	24.7	0.158	28	34.480	29.883	10.0	24.7	0.110	24	29.555	25.614	10.5	25.2	0.097
	Point 15A	65	36	54.769	47.467	23.0	37.7	0.267	28	42.880	37.163	23.5	38.2	0.211	24	36.513	31.645	23.5	38.2	0.182
	Point 15B	45	36	49.424	42.834	16.0	30.7	0.197	26	35.695	30.936	16.0	30.7	0.141	20	27.458	23.797	16.5	31.2	0.112
	Point 16	30	38	45.838	39.726	9.0	23.7	0.141	30	36.188	31.363	9.0	23.7	0.111	28	33.775	29.272	9.5	24.2	0.107
	Point 26A	45	42	58.129	50.378	16.5	31.2	0.235	40	54.915	47.593	16.0	30.7	0.217	40	55.361	47.979	16.5	31.2	0.225
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**46.617**						**37.942**						**35.394**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 5A	65	38	60.802	52.695	27.0	41.7	0.328	34	54.402	47.148	27.0	41.7	0.292	30	48.288	41.850	27.5	42.2	0.266
	Point 5B	45	34	46.678	40.454	16.0	30.7	0.186	26	35.695	30.936	16.0	30.7	0.141	20	27.680	23.990	16.5	31.2	0.113
	Point 6	30	36	42.499	36.833	8.0	22.7	0.125	26	30.694	26.601	8.0	22.7	0.090	22	26.256	22.755	8.5	23.2	0.079
	Point 17A	65	32	49.325	42.749	24.0	38.7	0.247	30	46.243	40.077	24.0	38.7	0.231	26	40.077	34.733	24.0	38.7	0.202
	Point 17B	45	38	52.170	45.214	16.0	30.7	0.207	30	41.187	35.695	16.0	30.7	0.163	26	35.985	31.187	16.5	31.2	0.146
	Point 18	30	36	43.881	38.030	9.5	24.2	0.138	30	36.567	31.692	9.5	24.2	0.114	26	32.017	27.748	10.0	24.7	0.103
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**39.403**						**33.006**						**29.117**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 7A	65	48	75.876	65.759	26.0	40.7	0.400	30	47.422	41.099	26.0	40.7	0.249	22	34.989	30.324	26.5	41.2	0.188
	Point 7B	45	36	50.222	43.526	17.0	31.7	0.206	34	47.057	40.782	16.5	31.2	0.189	28	39.062	33.854	17.0	31.7	0.162
	Point 8	30	42	52.241	45.276	10.5	25.2	0.171	32	39.803	34.496	10.5	25.2	0.129	30	37.315	32.340	10.5	25.2	0.123
	Point 19A	65	34	53.414	46.292	25.5	40.2	0.278	36	56.556	49.015	25.5	40.2	0.293	26	41.099	35.619	26.0	40.7	0.218
	Point 19B	45	38	52.593	45.580	16.5	31.2	0.213	32	44.289	38.383	16.5	31.2	0.178	26	36.272	31.435	17.0	31.7	0.150
	Point 20	30	44	54.183	46.959	10.0	24.7	0.173	32	39.406	34.152	10.0	24.7	0.125	30	36.943	32.017	10.0	24.7	0.119
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**46.108**						**37.255**						**30.704**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 9A	65	40	63.230	54.799	26.0	40.7	0.333	30	47.713	41.351	26.5	41.2	0.253	30	47.713	41.351	26.5	41.2	0.256
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	30	48	58.508	50.707	9.5	24.2	0.183	30	36.567	31.692	9.5	24.2	0.114	30	36.943	32.017	10.0	24.7	0.119
	Point 21A	65	36	56.203	48.710	25.0	39.7	0.289	30	46.836	40.591	25.0	39.7	0.240	28	43.714	37.885	25.0	39.7	0.226
	Point 21B	45	40	55.361	47.979	16.5	31.2	0.224	30	41.187	35.695	16.0	30.7	0.163	30	41.521	35.985	16.5	31.2	0.169
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**32.946**						**24.649**						**24.667**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 11A	65	36	56.556	49.015	25.5	40.2	0.295	32	50.272	43.569	25.5	40.2	0.261	30	47.422	41.099	26.0	40.7	0.252
	Point 11B	45	38	52.593	45.580	16.5	31.2	0.213	26	35.985	31.187	16.5	31.2	0.145	28	38.753	33.586	16.5	31.2	0.158
	Point 12	30	40	49.258	42.690	10.0	24.7	0.158	30	36.943	32.017	10.0	24.7	0.118	30	36.943	32.017	10.0	24.7	0.119
	Point 23	65	34	53.414	46.292	25.5	40.2	0.278	28	43.988	38.123	25.5	40.2	0.228	26	41.099	35.619	26.0	40.7	0.218
	Point 24A	55	34	50.336	43.624	21.0	35.7	0.233	42	62.180	53.889	21.0	35.7	0.286	30	44.724	38.761	21.5	36.2	0.211
	Point 24B	30	38	46.795	40.555	10.0	24.7	0.150	28	34.480	29.883	10.0	24.7	0.110	30	37.315	32.340	10.5	25.2	0.123
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**42.410**						**36.702**						**34.580**					
	System Total Per Day (lb)		**263.26**						**212.60**						**197.27**					

Appendix E. Table E-3
Operational Data - 34 North Clinton Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q4 2013: 353,928 lbs

Oxygen to OU-2 - 34 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-14	31	5,986
Month 2	Feb-14	28	5,841
Month 3	Mar-14	31	3,149
Total Operational Days in Q1 2014			90
Total Oxygen in Q1 2014			14,976.86
Running Total for Oxygen to 34 North Clinton Through Q4 2013 (lbs)			**368,905.00**

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure
n = PV/RT = (lb Moles)
lbs = n*32 lb/lb mole
Temperature = Degrees Rankine
R = Constant (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 was down for 14 days in October due to circuit breakers malfunctioning.
System was down for 1 day in November due to circuit breakers malfunctioning.

		1/15/2014						2/20/2014						3/18/2014					
	O_2%	84.9						85.6						84.2					
	R	10.73						10.73						10.73					
	Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	65	28	44.801	38.828	27.0	41.7	0.242	26	41.601	36.054	27.0	41.7	0.226	10	15.513	13.445	24.5	39.2	0.078
	Point 1B	45	28	39.369	34.120	17.5	32.2	0.164	28	39.369	34.120	17.5	32.2	0.165	16	22.321	19.345	17.0	31.7	0.091
	Point 2	30	28	36.514	31.646	13.0	27.7	0.131	30	39.122	33.906	13.0	27.7	0.141	10	12.923	11.200	12.5	27.2	0.045
	Point 13A	65	26	40.335	34.957	24.5	39.2	0.205	28	43.438	37.646	24.5	39.2	0.222	10	15.113	13.098	22.5	37.2	0.072
	Point 13B	45	28	38.753	33.586	16.5	31.2	0.156	30	41.521	35.985	16.5	31.2	0.169	10	13.729	11.898	16.0	30.7	0.054
	Point 14	30	30	36.943	32.017	10.0	24.7	0.118	28	34.480	29.883	10.0	24.7	0.111	18	21.940	19.015	9.5	24.2	0.068
	Point 25A	45	30	37.684	32.659	11.0	25.7	0.125	30	38.410	33.288	12.0	26.7	0.134	20	23.349	20.236	7.5	22.2	0.067
	Point 25B	30	30	37.315	32.340	10.5	25.2	0.122	30	37.315	32.340	10.5	25.2	0.123	20	24.629	21.345	10.0	24.7	0.078
	Total Oxygen Injected Per Day (lb)		**40.405**						**41.335**						**17.692**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3A	65	26	40.846	35.400	25.5	40.2	0.212	26	40.591	35.179	25.0	39.7	0.210	18	28.278	24.508	25.0	39.7	0.144
	Point 3B	45	26	35.109	30.428	15.0	29.7	0.135	28	37.810	32.768	15.0	29.7	0.146	20	27.007	23.406	15.0	29.7	0.103
	Point 4	30	24	29.852	25.872	10.5	25.2	0.097	18	22.389	19.404	10.5	25.2	0.074	20	24.877	21.560	10.5	25.2	0.080
	Point 15A	65	26	40.077	34.733	24.0	38.7	0.201	28	42.880	37.163	23.5	38.2	0.214	16	24.663	21.374	24.0	38.7	0.122
	Point 15B	45	30	41.521	35.985	16.5	31.2	0.168	30	41.521	35.985	16.5	31.2	0.169	18	24.912	21.591	16.5	31.2	0.100
	Point 16	30	26	31.692	27.466	9.5	24.2	0.099	30	36.567	31.692	9.5	24.2	0.115	22	26.816	23.241	9.5	24.2	0.083
	Point 26A	45	30	41.521	35.985	16.5	31.2	0.168	30	41.852	36.272	17.0	31.7	0.173	26	35.985	31.187	14.0	28.7	0.133
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**34.554**						**35.248**						**24.494**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 5A	65	26	41.850	36.270	27.5	42.2	0.229	22	35.411	30.690	27.5	42.2	0.195	10	15.904	13.784	26.5	41.2	0.084
	Point 5B	45	28	38.753	33.586	16.5	31.2	0.156	28	39.062	33.854	17.0	31.7	0.162	16	21.966	19.037	16.0	30.7	0.087
	Point 6	30	30	35.804	31.030	8.5	23.2	0.107	32	38.191	33.099	8.5	23.2	0.116	20	23.869	20.687	8.5	23.2	0.071
	Point 17A	65	26	40.335	34.957	24.5	39.2	0.205	26	40.335	34.957	24.5	39.2	0.206	16	23.014	19.946	19.0	33.7	0.100
	Point 17B	45	28	38.753	33.586	16.5	31.2	0.156	30	41.521	35.985	16.5	31.2	0.169	28	38.441	33.315	16.0	30.7	0.151
	Point 18	30	28	34.480	29.883	10.0	24.7	0.110	34	41.869	36.286	10.0	24.7	0.135	28	34.480	29.883	10.0	24.7	0.109
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**30.836**						**31.431**						**19.261**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 7A	65	22	35.201	30.508	27.0	41.7	0.190	22	34.989	30.324	26.5	41.2	0.188	10	15.807	13.700	26.0	40.7	0.083
	Point 7B	45	26	36.272	31.435	17.0	31.7	0.149	28	39.062	33.854	17.0	31.7	0.162	22	30.691	26.599	17.0	31.7	0.125
	Point 8	30	26	32.659	28.305	11.0	25.7	0.109	30	37.684	32.659	11.0	25.7	0.126	22	27.365	23.716	10.5	25.2	0.088
	Point 19A	65	22	34.989	30.324	26.5	41.2	0.187	28	44.261	38.359	26.0	40.7	0.235	10	15.710	13.615	25.5	40.2	0.081
	Point 19B	45	26	36.272	31.435	17.0	31.7	0.149	26	36.557	31.682	17.5	32.2	0.154	20	27.901	24.181	17.0	31.7	0.113
	Point 20	30	26	32.340	28.028	10.5	25.2	0.105	28	34.828	30.184	10.5	25.2	0.114	20	24.629	21.345	10.0	24.7	0.078
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**28.417**						**31.327**						**18.191**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 9A	65	30	48.001	41.601	27.0	41.7	0.259	40	63.617	55.135	26.5	41.2	0.342	10	15.904	13.784	26.5	41.2	0.084
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	30	30	36.943	32.017	10.0	24.7	0.118	34	41.869	36.286	10.0	24.7	0.135	20	24.629	21.345	10.0	24.7	0.078
	Point 21A	65	32	50.272	43.569	25.5	40.2	0.261	38	59.698	51.738	25.5	40.2	0.313	10	15.710	13.615	25.5	40.2	0.081
	Point 21B	45	30	41.521	35.985	16.5	31.2	0.168	36	49.825	43.181	16.5	31.2	0.203	18	24.912	21.591	16.5	31.2	0.100
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**25.796**						**31.766**						**10.973**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 11A	65	24	37.938	32.880	26.0	40.7	0.200	28	44.261	38.359	26.0	40.7	0.235	0	0.000	0.000	23.0	37.7	0.000
	Point 11B	45	26	36.272	31.435	17.0	31.7	0.149	36	50.222	43.526	17.0	31.7	0.208	12	16.608	14.394	16.5	31.2	0.066
	Point 12	30	26	32.340	28.028	10.5	25.2	0.105	32	39.803	34.496	10.5	25.2	0.131	16	19.901	17.248	10.5	25.2	0.064
	Point 23	65	32	50.894	44.108	26.5	41.2	0.271	30	47.713	41.351	26.5	41.2	0.256	10	15.113	13.098	22.5	37.2	0.072
	Point 24A	55	28	41.742	36.177	21.5	36.2	0.196	30	44.724	38.761	21.5	36.2	0.211	10	14.805	12.831	21.0	35.7	0.068
	Point 24B	30	28	34.828	30.184	10.5	25.2	0.114	32	39.803	34.496	10.5	25.2	0.131	18	22.389	19.404	10.5	25.2	0.072
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**33.099**						**37.505**						**10.982**					
	System Total Per Day (lb)		**193.11**						**208.61**						**101.59**					

Appendix E. Table E-3
Operational Data - 34 North Clinton Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q1 2014: 368,905 lbs

Oxygen to OU-2 - 34 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-14	25	6,500
Month 2	May-14	23	4,073
Month 3	Jun-14	30	5,769
Total Operational Days in Q2 2014			78
Total Oxygen in Q2 2014			16,341.20
Running Total for Oxygen to 34 North Clinton Through Q2 2014 (lbs)			**385,246.20**

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 was down for 13 days due to Booster pump malfunctioning; electrical contactor and controller malfunctioning; O2 booster tank pressure sensor malfunctioning

			4/17/2014						5/12/2014						6/16/2014					
		O_2%	81.5						80						80.3					
		R	10.73						10.73						10.73					
		Temp R (T)	632						616						634					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	65	58	92.803	80.429	27.0	41.7	0.403	22	35.201	30.508	27.0	41.7	0.154	40	63.617	55.135	26.5	41.2	0.268
	Point 1B	45	38	53.012	45.944	17.0	31.7	0.175	28	39.369	34.120	17.5	32.2	0.133	32	44.642	38.690	17.0	31.7	0.145
	Point 2	30	48	62.596	54.250	13.0	27.7	0.181	40	52.163	45.208	13.0	27.7	0.152	38	49.555	42.948	13.0	27.7	0.140
	Point 13A	65	56	87.428	75.771	25.0	39.7	0.362	38	58.951	51.091	24.5	39.2	0.242	34	52.746	45.713	24.5	39.2	0.212
	Point 13B	45	42	57.661	49.973	16.0	30.7	0.184	34	47.057	40.782	16.5	31.2	0.154	36	49.424	42.834	16.0	30.7	0.155
	Point 14	30	38	47.266	40.964	10.5	25.2	0.124	38	46.795	40.555	10.0	24.7	0.121	34	41.869	36.286	10.0	24.7	0.106
	Point 25A	45	50	69.201	59.974	16.5	31.2	0.225	32	44.289	38.383	16.5	31.2	0.145	38	52.593	45.580	16.5	31.2	0.168
	Point 25B	30	48	59.704	51.744	10.5	25.2	0.157	36	44.778	38.808	10.5	25.2	0.118	40	49.754	43.120	10.5	25.2	0.128
	Total Oxygen Injected Per Day (lb)		**57.929**						**39.023**						**42.304**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3A	65	56	87.976	76.246	25.5	40.2	0.368	26	40.591	35.179	25.0	39.7	0.169	28	43.988	38.123	25.0	39.7	0.179
	Point 3B	45	38	51.313	44.471	15.0	29.7	0.159	26	35.109	30.428	15.0	29.7	0.109	38	51.313	44.471	15.0	29.7	0.156
	Point 4	30	32	39.803	34.496	10.5	25.2	0.104	24	29.852	25.872	10.5	25.2	0.079	30	37.315	32.340	10.5	25.2	0.096
	Point 15A	65	28	43.438	37.646	24.5	39.2	0.177	26	39.817	34.508	23.5	38.2	0.160	26	40.335	34.957	23.5	38.2	0.158
	Point 15B	45	30	41.521	35.985	16.5	31.2	0.135	24	33.216	28.788	16.5	31.2	0.109	40	55.361	47.979	16.5	31.2	0.177
	Point 16	30	32	39.406	34.152	10.0	24.7	0.101	26	31.692	27.466	9.5	24.2	0.080	30	36.943	32.017	9.5	24.2	0.091
	Point 26A	45	38	53.012	45.944	17.0	31.7	0.175	28	38.753	33.586	16.5	31.2	0.127	34	47.432	41.108	16.5	31.2	0.151
	Point 26B	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**39.049**						**26.652**						**32.254**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 5A	65	52	83.700	72.540	27.5	42.2	0.368	28	45.069	39.060	27.5	42.2	0.200	34	54.727	47.430	27.5	42.2	0.236
	Point 5B	45	44	60.897	52.777	16.5	31.2	0.198	32	44.289	38.383	16.5	31.2	0.145	30	41.521	35.985	16.5	31.2	0.133
	Point 6	30	38	45.352	39.305	8.5	23.2	0.110	28	33.417	28.961	8.5	23.2	0.081	32	38.191	33.099	8.5	23.2	0.091
	Point 17A	65	36	55.848	48.402	24.5	39.2	0.228	30	46.540	40.335	24.5	39.2	0.191	32	49.325	42.749	24.0	38.7	0.195
	Point 17B	45	70	96.881	83.964	16.5	31.2	0.315	32	44.289	38.383	16.5	31.2	0.145	32	44.289	38.383	16.5	31.2	0.141
	Point 18	30	50	61.572	53.362	10.0	24.7	0.158	28	34.480	29.883	10.0	24.7	0.089	28	34.480	29.883	10.0	24.7	0.087
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**44.053**						**27.246**						**28.262**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 7A	65	56	89.603	77.656	27.0	41.7	0.389	30	47.713	41.351	26.5	41.2	0.206	50	79.521	68.918	26.5	41.2	0.335
	Point 7B	45	34	47.432	41.108	17.0	31.7	0.157	30	41.852	36.272	17.0	31.7	0.139	26	36.272	31.435	17.0	31.7	0.118
	Point 8	30	36	45.220	39.191	11.0	25.7	0.121	28	35.171	30.482	11.0	25.7	0.095	30	37.315	32.340	10.5	25.2	0.096
	Point 19A	65	34	53.745	46.579	26.0	40.7	0.228	30	47.422	41.099	26.0	40.7	0.202	24	37.938	32.880	26.0	40.7	0.158
	Point 19B	45	40	55.803	48.362	17.0	31.7	0.184	28	39.062	33.854	17.0	31.7	0.130	32	44.642	38.690	17.0	31.7	0.145
	Point 20	30	36	44.778	38.808	10.5	25.2	0.118	26	32.340	28.028	10.5	25.2	0.085	28	34.828	30.184	10.5	25.2	0.090
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**38.287**						**27.457**						**30.128**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 9A	65	64	101.787	88.216	26.5	41.2	0.437	28	44.801	38.828	27.0	41.7	0.196	40	63.617	55.135	26.5	41.2	0.268
	Point 9B	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 10	30	42	51.720	44.824	10.0	24.7	0.133	34	41.869	36.286	10.0	24.7	0.108	36	44.332	38.421	10.0	24.7	0.112
	Point 21A	65	30	47.130	40.846	25.5	40.2	0.197	38	59.698	51.738	25.5	40.2	0.252	40	62.448	54.122	25.0	39.7	0.254
	Point 21B	45	28	38.753	33.586	16.5	31.2	0.126	36	49.825	43.181	16.5	31.2	0.163	40	55.361	47.979	16.5	31.2	0.177
	Point 22	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**28.580**						**23.016**						**25.935**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 11A	65	50	79.037	68.499	26.0	40.7	0.335	42	66.391	57.539	26.0	40.7	0.283	38	59.698	51.738	25.5	40.2	0.246
	Point 11B	45	44	60.897	52.777	16.5	31.2	0.198	34	47.432	41.108	17.0	31.7	0.158	34	47.057	40.782	16.5	31.2	0.150
	Point 12	30	40	49.754	43.120	10.5	25.2	0.131	34	42.291	36.652	10.5	25.2	0.112	34	41.869	36.286	10.0	24.7	0.106
	Point 23	65	70	110.652	95.899	26.0	40.7	0.469	28	44.532	38.594	26.5	41.2	0.192	34	53.745	46.579	26.0	40.7	0.224
	Point 24A	55	66	98.393	85.274	21.5	36.2	0.371	38	56.650	49.097	21.5	36.2	0.215	38	56.650	49.097	21.5	36.2	0.210
	Point 24B	30	38	47.266	40.964	10.5	25.2	0.124	28	34.828	30.184	10.5	25.2	0.092	34	42.291	36.652	10.5	25.2	0.109
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**52.086**						**33.683**						**33.411**					
	System Total Per Day (lb)		**259.98**						**177.08**						**192.29**					

Appendix E. Table E-4
Operational Data - 33 North Clinton Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q2 2013: 363,453 lbs

Oxygen to OU-2 - 33 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-13	31	6,601
Month 2	Aug-13	31	8,060
Month 3	Sep-13	30	6,824
Total Operational Days in Q3 2013			92
Total Oxygen in Q3 2013 (lbs)			21,484.52
Running Total for Oxygen to 33 North Clinton Through Q3 2013 (lbs)			**384,937.47**

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

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

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

		7/18/2013						8/6/2013						9/19/2013					
	O_2%	93.8						93.4						90.0					
	R	10.73						10.73						10.73					
	Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	62	42	64.320	41.808	23.5	38.2	0.263	26	39.556	25.711	23.0	37.7	0.159	26	39.293	25.540	22.5	37.2	0.150
	Point 1B	46	20	27.458	17.848	16.0	30.7	0.090	22	30.203	19.632	16.0	30.7	0.099	14	19.220	12.493	16.0	30.7	0.061
	Point 6A	65	52	81.183	52.769	25.0	39.7	0.346	24	37.232	24.201	24.5	39.2	0.156	26	40.335	26.218	24.5	39.2	0.163
	Point 6B	46	24	33.482	21.763	17.0	31.7	0.114	22	30.448	19.791	16.5	31.2	0.101	14	19.376	12.595	16.5	31.2	0.062
	Point 11	46	20	27.901	18.136	17.0	31.7	0.095	20	27.680	17.992	16.5	31.2	0.092	16	22.144	14.394	16.5	31.2	0.071
	Point 35	41	30	39.474	25.658	13.5	28.2	0.119	40	52.632	34.211	13.5	28.2	0.158	32	42.106	27.369	13.5	28.2	0.122
	Point 40	41	16	20.865	13.562	13.0	27.7	0.062	22	28.948	18.816	13.5	28.2	0.087	14	18.421	11.974	13.5	28.2	0.053
	Point 45	31	14	16.708	10.861	8.5	23.2	0.042	20	24.125	15.681	9.0	23.7	0.061	14	16.888	10.977	9.0	23.7	0.041
	Total Oxygen Injected Per Day (lb)		**36.186**						**29.256**						**23.159**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	67	40	62.840	40.846	25.5	40.2	0.271	44	69.124	44.931	25.5	40.2	0.297	40	62.448	40.591	25.0	39.7	0.255
	Point 2B	46	10	13.840	8.996	16.5	31.2	0.046	20	27.680	17.992	16.5	31.2	0.092	20	27.680	17.992	16.5	31.2	0.089
	Point 7A	65	38	58.951	38.318	24.5	39.2	0.248	36	55.848	36.301	24.5	39.2	0.234	36	55.491	36.069	24.0	38.7	0.221
	Point 7B	46	10	13.951	9.068	17.0	31.7	0.047	26	36.272	23.577	17.0	31.7	0.123	24	33.482	21.763	17.0	31.7	0.109
	Point 12	46	20	27.680	17.992	16.5	31.2	0.093	28	38.753	25.189	16.5	31.2	0.129	16	22.144	14.394	16.5	31.2	0.071
	Point 36	36	20	25.122	16.330	11.0	25.7	0.069	30	37.315	24.255	10.5	25.2	0.100	28	34.828	22.638	10.5	25.2	0.090
	Point 41	41	12	15.929	10.354	14.0	28.7	0.049	24	31.858	20.708	14.0	28.7	0.098	26	34.211	22.237	13.5	28.2	0.099
	Point 46	36	18	22.829	14.839	11.5	26.2	0.064	24	30.439	19.785	11.5	26.2	0.085	20	25.122	16.330	11.0	25.7	0.066
	Total Oxygen Injected Per Day (lb)		**28.392**						**37.040**						**32.031**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	24.75	44	69.124	44.931	25.5	40.2	0.298	22	34.562	22.465	25.5	40.2	0.148	32	49.959	32.473	25.0	39.7	0.204
	Point 3B	16.5	16	21.966	14.278	16.0	30.7	0.072	20	27.458	17.848	16.0	30.7	0.090	18	24.712	16.063	16.0	30.7	0.078
	Point 8A	28.5	66	108.106	70.269	29.0	43.7	0.506	38	61.886	40.226	28.5	43.2	0.285	26	41.850	27.202	27.5	42.2	0.182
	Point 8B	16.5	12	16.608	10.795	16.5	31.2	0.056	26	35.695	23.202	16.0	30.7	0.117	20	27.458	17.848	16.0	30.7	0.087
	Point 32A	24.25	30	46.836	30.444	25.0	39.7	0.199	18	27.924	18.151	24.5	39.2	0.117	48	73.509	47.781	23.5	38.2	0.289
	Point 32B	11.5	10	12.683	8.244	11.5	26.2	0.036	26	32.659	21.228	11.0	25.7	0.090	18	22.610	14.697	11.0	25.7	0.060
	Point 37	13.5	32	42.106	27.369	13.5	28.2	0.127	30	39.822	25.885	14.0	28.7	0.122	18	23.473	15.258	13.0	27.7	0.067
	Point 42	11.75	12	15.364	9.987	12.0	26.7	0.044	34	43.122	28.029	11.5	26.2	0.121	20	25.366	16.488	11.5	26.2	0.068
	Total Oxygen Injected Per Day (lb)		**42.833**						**34.873**						**33.099**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	69	22	35.201	22.881	27.0	41.7	0.157	28	44.532	28.946	26.5	41.2	0.196	32	50.894	33.081	26.5	41.2	0.216
	Point 4B	46	0	0.000	0.000	11.0	25.7	0.000	16	22.144	14.394	16.5	31.2	0.074	16	22.144	14.394	16.5	31.2	0.071
	Point 9A	71	22	35.201	22.881	27.0	41.7	0.157	28	44.801	29.121	27.0	41.7	0.199	38	60.802	39.521	27.0	41.7	0.261
	Point 9B	46	0	0.000	0.000	16.5	31.2	0.000	16	22.144	14.394	16.5	31.2	0.074	18	24.912	16.193	16.5	31.2	0.080
	Point 33	42	14	18.584	12.079	14.0	28.7	0.057	36	47.787	31.061	14.0	28.7	0.146	40	53.096	34.513	14.0	28.7	0.157
	Point 38	36	0	0.000	0.000	11.5	26.2	0.000	16	20.098	13.064	11.0	25.7	0.055	20	25.122	16.330	11.0	25.7	0.066
	Point 43	31	0	0.000	0.000	9.5	24.2	0.000	16	19.300	12.545	9.0	23.7	0.049	18	21.713	14.113	9.0	23.7	0.053
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**11.902**						**25.382**						**28.917**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	65	44	69.124	44.931	25.5	40.2	0.298	26	40.591	26.384	25.0	39.7	0.172	32	49.643	32.268	24.5	39.2	0.200
	Point 5B	46	30	41.521	26.988	16.5	31.2	0.139	36	49.424	32.126	16.0	30.7	0.162	32	43.932	28.556	16.0	30.7	0.139
	Point 10	56	38	58.951	38.318	24.5	39.2	0.248	30	44.102	28.666	20.5	35.2	0.166	32	46.707	30.359	20.0	34.7	0.167
	Point 34	41	26	33.906	22.039	13.0	27.7	0.101	48	62.028	40.318	12.5	27.2	0.180	40	51.690	33.599	12.5	27.2	0.145
	Point 39	26	12	13.851	9.003	7.0	21.7	0.032	46	53.703	34.907	7.5	22.2	0.127	34	38.789	25.213	6.5	21.2	0.085
	Point 44	36	20	25.607	16.644	12.0	26.7	0.073	38	47.733	31.026	11.0	25.7	0.131	30	37.684	24.494	11.0	25.7	0.100
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**28.505**						**30.019**						**26.704**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 16	40	16	21.605	14.044	15.0	29.7	0.069	22	29.707	19.310	15.0	29.7	0.094	20	27.007	17.554	15.0	29.7	0.083
	Point 19	40	0	0.000	0.000	14.5	29.2	0.000	24	32.134	20.887	14.5	29.2	0.100	22	29.456	19.147	14.5	29.2	0.088
	Point 22	40	0	0.000	0.000	14.5	29.2	0.000	26	34.812	22.628	14.5	29.2	0.109	26	34.513	22.433	14.0	28.7	0.102
	Point 25A	60	24	36.270	23.576	22.5	37.2	0.145	24	36.754	23.890	23.5	38.2	0.150	18	27.385	17.800	23.0	37.7	0.106
	Point 25B	29	0	0.000	0.000	10.0	24.7	0.000	24	29.555	19.210	10.0	24.7	0.078	26	31.692	20.600	9.5	24.2	0.079
	Point 28	50	20	28.768	18.699	19.0	33.7	0.104	32	46.029	29.919	19.0	33.7	0.166	30	42.831	27.840	18.5	33.2	0.146
	Point 31A	69	40	64.384	41.850	27.5	42.2	0.291	30	48.288	31.387	27.5	42.2	0.218	30	48.001	31.201	27.0	41.7	0.206
	Point 31B	40	10	13.389	8.703	14.5	29.2	0.042	22	29.456	19.147	14.5	29.2	0.092	20	26.779	17.406	14.5	29.2	0.080
	Total Oxygen Injected Per Day (lb)		**20.819**						**32.181**						**28.499**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 14	39	0	0.000	0.000	15.5	30.2	0.000	34	46.296	30.093	15.5	30.2	0.149	26	35.403	23.012	15.5	30.2	0.110
	Point 17	40	24	31.298	20.344	13.0	27.7	0.093	26	33.599	21.839	12.5	27.2	0.098	24	31.014	20.159	12.5	27.2	0.087
	Point 20	40	18	24.306	15.799	15.0	29.7	0.077	32	42.846	27.850	14.5	29.2	0.134	26	34.812	22.628	14.5	29.2	0.105
	Point 23	40	18	24.101	15.665	14.5	29.2	0.075	26	34.812	22.628	14.5	29.2	0.109	24	31.858	20.708	14.0	28.7	0.094
	Point 26A	60	36	55.131	35.835	23.5	38.2	0.226	34	51.727	33.622	23.0	37.7	0.208	34	51.383	33.399	22.5	37.2	0.197
	Point 26B	29	18	23.473	15.258	13.0	27.7	0.070	30	38.768	25.199	12.5	27.2	0.113	22	28.430	18.479	12.5	27.2	0.080
	Point 29A	66	44	69.553	45.209	26.0	40.7	0.303	28	43.988	28.592	25.5	40.2	0.189	30	47.130	30.635	25.5	40.2	0.195
	Point 29B	40	20	27.007	17.554	15.0	29.7	0.086	26	34.812	22.628	14.5	29.2	0.109	24	32.134	20.887	14.5	29.2	0.097
	Total Oxygen Injected Per Day (lb)		**29.785**						**35.422**						**30.815**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 13	40	0	0.000	0.000	15.5	30.2	0.000	30	37.315	24.255	10.5	25.2	0.100	18	24.510	15.931	15.5	30.2	0.076
	Point 15	40	0	0.000	0.000	15.0	29.7	0.000	30	38.410	24.966	12.0	26.7	0.109	18	24.306	15.799	15.0	29.7	0.074
	Point 18	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 21	40	0	0.000	0.000	14.5	29.2	0.000	26	34.513	22.433	14.0	28.7	0.106	20	26.316	17.105	13.5	28.2	0.076
	Point 24	55	22	32.341	21.022	20.5	35.2	0.122	42	61.743	40.133	20.5	35.2	0.232	32	47.042	30.577	20.5	35.2	0.170
	Point 27A	65	24	37.704	24.508	25.5	40.2	0.163	48	75.408	49.015	25.5	40.2	0.324	24	37.469	24.355	25.0	39.7	0.153
	Point 27B	33	0	0.000	0.000	12.5	27.2	0.000	22	28.430	18.479	12.5	27.2	0.083	16	20.676	13.439	12.5	27.2	0.058
	Point 30	50	22	36.035	23.423	29.0	43.7	0.169	32	46.029	29.919	19.0	33.7	0.166	30	43.152	28.049	19.0	33.7	0.150
	Total Oxygen Injected Per Day (lb)		**14.508**						**35.820**						**24.241**					
	System Total Per Day (lb)		**212.93**						**259.99**						**227.46**					

Weight of Oxygen Injected through Q3 2013 384,937 lbs

Oxygen to OU-2 - 33 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-13	15	3,268
Total Operational Days in October 2013			15
Total Oxygen in October 2013 (lbs)			3,268.14
Running Total for Oxygen to 33 North Clinton Through Q4 2013 (lbs)			**388,205.14**

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 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 was reconfigured in October and the new configuration began operation on October 15, 2013.

		10/22/2013
	O_2%	94.6
	R	10.73
	Temp R (T)	530

		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	62	28	42.315	27.505	22.5	37.2	0.170
	Point 1B	46	20	27.233	17.702	15.5	30.2	0.089
	Point 6A	65	26	40.077	26.050	24.0	38.7	0.168
	Point 6B	46	18	24.912	16.193	16.5	31.2	0.084
	Point 11	46	20	27.680	17.992	16.5	31.2	0.093
	Point 35	41	48	63.158	41.053	13.5	28.2	0.193
	Point 40	41	22	28.948	18.816	13.5	28.2	0.088
	Point 45	31	24	28.950	18.818	9.0	23.7	0.074
Total Oxygen Injected Per Day (lb)				**30.697**				
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	67	34	53.081	34.503	25.0	39.7	0.228
	Point 2B	46	20	27.458	17.848	16.0	30.7	0.091
	Point 7A	65	34	52.408	34.065	24.0	38.7	0.219
	Point 7B	41	22	30.691	19.949	17.0	31.7	0.105
	Point 12	46	20	27.458	17.848	16.0	30.7	0.091
	Point 36	36	36	44.778	29.106	10.5	25.2	0.122
	Point 41	41	22	28.948	18.816	13.5	28.2	0.088
	Point 46	46	18	22.610	14.697	11.0	25.7	0.063
Total Oxygen Injected Per Day (lb)				**32.248**				
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	65	28	43.714	28.414	25.0	39.7	0.188
	Point 3B	46	18	24.712	16.063	16.0	30.7	0.082
	Point 8A	71	16	25.601	16.640	27.0	41.7	0.115
	Point 8B	46	20	27.458	17.848	16.0	30.7	0.091
	Point 32A	63.5	30	45.943	29.863	23.5	38.2	0.190
	Point 32B	36	18	22.610	14.697	11.0	25.7	0.063
	Point 37	41	38	49.555	32.211	13.0	27.7	0.148
	Point 42	36	20	25.366	16.488	11.5	26.2	0.072
Total Oxygen Injected Per Day (lb)				**30.372**				
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	69	14	22.266	14.473	26.5	41.2	0.099
	Point 4B	46	16	22.144	14.394	16.5	31.2	0.075
	Point 9A	71	18	28.278	18.381	25.5	40.2	0.123
	Point 9B	46	16	22.144	14.394	16.5	31.2	0.075
	Point 33	42	36	47.369	30.790	13.5	28.2	0.144
	Point 38	36	22	27.635	17.963	11.0	25.7	0.077
	Point 43	31	24	28.950	18.818	9.0	23.7	0.074
	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)				**21.342**				
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	67	10	15.513	10.084	24.5	39.2	0.066
	Point 5B	45	22	30.203	19.632	16.0	30.7	0.100
	Point 10	56	20	29.192	18.975	20.0	34.7	0.110
	Point 34	36	32	41.352	26.879	12.5	27.2	0.122
	Point 39	26	24	27.381	17.797	6.5	21.2	0.063
	Point 44	41	24	30.147	19.595	11.0	25.7	0.084
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)				**17.398**				
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 16	40	20	27.007	17.554	15.0	29.7	0.087
	Point 19	40	22	29.456	19.147	14.5	29.2	0.093
	Point 22	40	24	31.858	20.708	14.0	28.7	0.099
	Point 25A	60	40	60.855	39.556	23.0	37.7	0.248
	Point 25B	29	22	26.816	17.430	9.5	24.2	0.070
	Point 28	50	28	39.975	25.984	18.5	33.2	0.144
	Point 31A	69	24	38.401	24.961	27.0	41.7	0.173
	Point 31B	40	22	29.456	19.147	14.5	29.2	0.093
Total Oxygen Injected Per Day (lb)				**32.207**				
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 14	39	24	32.680	21.242	15.5	30.2	0.107
	Point 17	40	22	28.430	18.479	12.5	27.2	0.084
	Point 20	40	26	34.812	22.628	14.5	29.2	0.110
	Point 23	40	22	29.203	18.982	14.0	28.7	0.091
	Point 26A	60	30	45.338	29.469	22.5	37.2	0.182
	Point 26B	29	24	31.014	20.159	12.5	27.2	0.091
	Point 29A	66	24	37.469	24.355	25.0	39.7	0.161
	Point 29B	40	24	32.134	20.887	14.5	29.2	0.101
Total Oxygen Injected Per Day (lb)				**29.655**				
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 13	40	22	29.957	19.472	15.5	30.2	0.098
	Point 15	40	22	29.456	19.147	14.5	29.2	0.093
	Point 18	40	-	-	-	-	-	-
	Point 21	40	22	28.948	18.816	13.5	28.2	0.088
	Point 24	55	22	32.341	21.022	20.5	35.2	0.123
	Point 27A	65	22	34.130	22.184	24.5	39.2	0.145
	Point 27B	33	20	25.845	16.799	12.5	27.2	0.076
	Point 30	50	24	34.522	22.439	19.0	33.7	0.126
Total Oxygen Injected Per Day (lb)				**23.956**				
System Total Per Day (lb)				**217.88**				

Appendix E. Table E-4
Operational Data - 33 North Clinton Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q3 2013: 388,205 lbs

Oxygen to OU-2 - 33 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-13	16	4,031
Month 2	Nov-13	30	6,708
Month 3	Dec-13	31	6,136
Total Operational Days in mid-Oct through Dec 2013			77
Total Oxygen in mid-Oct through Dec 2013			16,874.55
Running Total for Oxygen to 33 North Clinton Through Q4 2013 (lbs)			**405,079.69**

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 = (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)
The 33 North Clinton system was modified in October and system restarted on October 15, 2013.

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 was reconfigured in October and the new configuration began operation on October 15, 2013.

		10/22/2013						11/18/2013						12/4/2013					
	O_2%	94.6						90.2						90.9					
	R	10.73						10.73						10.73					
	Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	62	28	42.315	27.505	22.5	37.2	0.170	28	42.598	27.689	23.0	37.7	0.166	22	33.470	21.756	23.0	37.7	0.131
	Point 1B	46	20	27.233	17.702	15.5	30.2	0.089	16	21.787	14.161	15.5	30.2	0.068	20	27.458	17.848	16.0	30.7	0.088
	Point 6A	65	26	40.077	26.050	24.0	38.7	0.168	26	40.335	26.218	24.5	39.2	0.163	18	27.924	18.151	24.5	39.2	0.114
	Point 6B	46	18	24.912	16.193	16.5	31.2	0.084	16	22.144	14.394	16.5	31.2	0.071	20	27.680	17.992	16.5	31.2	0.090
	Point 11	46	20	27.680	17.992	16.5	31.2	0.093	18	24.712	16.063	16.0	30.7	0.078	20	27.680	17.992	16.5	31.2	0.090
	Point 35	41	48	63.158	41.053	13.5	28.2	0.193	40	52.163	33.906	13.0	27.7	0.149	48	62.596	40.687	13.0	27.7	0.180
	Point 40	41	22	28.948	18.816	13.5	28.2	0.088	18	23.684	15.395	13.5	28.2	0.069	26	34.211	22.237	13.5	28.2	0.100
	Point 45	31	24	28.950	18.818	9.0	23.7	0.074	18	21.713	14.113	9.0	23.7	0.053	24	28.950	18.818	9.0	23.7	0.071
	Total Oxygen Injected Per Day (lb)		**30.697**						**26.135**						**27.633**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	67	34	53.081	34.503	25.0	39.7	0.228	30	47.130	30.635	25.5	40.2	0.195	10	15.513	10.084	24.5	39.2	0.063
	Point 2B	46	20	27.458	17.848	16.0	30.7	0.091	14	19.220	12.493	16.0	30.7	0.061	18	24.712	16.063	16.0	30.7	0.079
	Point 7A	65	34	52.408	34.065	24.0	38.7	0.219	30	46.243	30.058	24.0	38.7	0.185	10	14.805	9.623	21.0	35.7	0.055
	Point 7B	41	22	30.691	19.949	17.0	31.7	0.105	14	19.531	12.695	17.0	31.7	0.064	24	33.216	21.591	16.5	31.2	0.108
	Point 12	46	20	27.458	17.848	16.0	30.7	0.091	16	21.966	14.278	16.0	30.7	0.070	18	24.712	16.063	16.0	30.7	0.079
	Point 36	36	36	44.778	29.106	10.5	25.2	0.122	30	37.315	24.255	10.5	25.2	0.097	40	49.754	32.340	10.5	25.2	0.130
	Point 41	41	22	28.948	18.816	13.5	28.2	0.088	18	23.684	15.395	13.5	28.2	0.069	20	26.316	17.105	13.5	28.2	0.077
	Point 46	46	18	22.610	14.697	11.0	25.7	0.063	20	25.122	16.330	11.0	25.7	0.067	14	17.586	11.431	11.0	25.7	0.047
	Total Oxygen Injected Per Day (lb)		**32.248**						**25.804**						**20.408**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	65	28	43.714	28.414	25.0	39.7	0.188	38	59.326	38.562	25.0	39.7	0.243	40	62.448	40.591	25.0	39.7	0.258
	Point 3B	46	18	24.712	16.063	16.0	30.7	0.082	20	27.233	17.702	15.5	30.2	0.085	18	24.510	15.931	15.5	30.2	0.077
	Point 8A	71	16	25.601	16.640	27.0	41.7	0.115	28	45.335	29.468	28.0	42.7	0.200	26	42.097	27.363	28.0	42.7	0.187
	Point 8B	46	20	27.458	17.848	16.0	30.7	0.091	20	27.458	17.848	16.0	30.7	0.087	20	27.458	17.848	16.0	30.7	0.088
	Point 32A	63.5	30	45.943	29.863	23.5	38.2	0.190	28	43.160	28.054	24.0	38.7	0.172	28	43.160	28.054	24.0	38.7	0.174
	Point 32B	36	18	22.610	14.697	11.0	25.7	0.063	14	17.586	11.431	11.0	25.7	0.047	16	20.098	13.064	11.0	25.7	0.054
	Point 37	41	38	49.555	32.211	13.0	27.7	0.148	40	52.163	33.906	13.0	27.7	0.149	38	49.555	32.211	13.0	27.7	0.143
	Point 42	36	20	25.366	16.488	11.5	26.2	0.072	16	20.098	13.064	11.0	25.7	0.053	16	20.098	13.064	11.0	25.7	0.054
	Total Oxygen Injected Per Day (lb)		**30.372**						**33.123**						**33.034**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	69	14	22.266	14.473	26.5	41.2	0.099	14	22.266	14.473	26.5	41.2	0.095	14	22.266	14.473	26.5	41.2	0.095
	Point 4B	46	16	22.144	14.394	16.5	31.2	0.075	16	22.144	14.394	16.5	31.2	0.071	16	22.144	14.394	16.5	31.2	0.072
	Point 9A	71	18	28.278	18.381	25.5	40.2	0.123	16	24.821	16.134	24.5	39.2	0.100	16	25.136	16.338	25.5	40.2	0.105
	Point 9B	46	16	22.144	14.394	16.5	31.2	0.075	16	21.605	14.044	15.0	29.7	0.066	16	22.144	14.394	16.5	31.2	0.072
	Point 33	42	36	47.369	30.790	13.5	28.2	0.144	32	42.106	27.369	13.5	28.2	0.122	32	42.477	27.610	14.0	28.7	0.127
	Point 38	36	22	27.635	17.963	11.0	25.7	0.077	18	22.610	14.697	11.0	25.7	0.060	20	25.366	16.488	11.5	26.2	0.069
	Point 43	31	24	28.950	18.818	9.0	23.7	0.074	16	19.300	12.545	9.0	23.7	0.047	14	16.888	10.977	9.0	23.7	0.042
	Point 48	55	56	80.550	52.358	19.0	33.7	0.294	10	14.384	9.350	19.0	33.7	0.050	10	14.384	9.350	19.0	33.7	0.050
	Total Oxygen Injected Per Day (lb)		**30.734**						**19.575**						**20.208**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	67	10	15.513	10.084	24.5	39.2	0.066	36	55.848	36.301	24.5	39.2	0.226	10	15.513	10.084	24.5	39.2	0.063
	Point 5B	45	22	30.203	19.632	16.0	30.7	0.100	20	27.458	17.848	16.0	30.7	0.087	18	24.712	16.063	16.0	30.7	0.079
	Point 10	56	20	29.192	18.975	20.0	34.7	0.110	36	52.545	34.154	20.0	34.7	0.188	20	29.192	18.975	20.0	34.7	0.105
	Point 34	36	32	41.352	26.879	12.5	27.2	0.122	20	25.845	16.799	12.5	27.2	0.072	20	25.845	16.799	12.5	27.2	0.073
	Point 39	26	24	27.381	17.797	6.5	21.2	0.063	20	22.817	14.831	6.5	21.2	0.050	20	22.817	14.831	6.5	21.2	0.050
	Point 44	41	24	30.147	19.595	11.0	25.7	0.084	20	25.122	16.330	11.0	25.7	0.067	20	25.122	16.330	11.0	25.7	0.067
	Point 47	55	44	63.757	41.442	19.5	34.2	0.236	28	40.275	26.179	19.0	33.7	0.140	38	55.063	35.791	19.5	34.2	0.196
	Point 49	55	40	57.961	37.675	19.5	34.2	0.214	28	40.573	26.372	19.5	34.2	0.143	40	57.961	37.675	19.5	34.2	0.206
	Total Oxygen Injected Per Day (lb)		**31.802**						**31.119**						**26.855**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 16	40	20	27.007	17.554	15.0	29.7	0.087	24	32.408	21.065	15.0	29.7	0.099	18	24.306	15.799	15.0	29.7	0.075
	Point 19	40	22	29.456	19.147	14.5	29.2	0.093	26	34.812	22.628	14.5	29.2	0.105	20	26.779	17.406	14.5	29.2	0.081
	Point 22	40	24	31.858	20.708	14.0	28.7	0.099	16	21.239	13.805	14.0	28.7	0.063	22	29.203	18.982	14.0	28.7	0.087
	Point 25A	60	40	60.855	39.556	23.0	37.7	0.248	36	54.769	35.600	23.0	37.7	0.213	32	48.684	31.645	23.0	37.7	0.191
	Point 25B	29	22	26.816	17.430	9.5	24.2	0.070	14	17.065	11.092	9.5	24.2	0.043	22	27.092	17.610	10.0	24.7	0.070
	Point 28	50	28	39.975	25.984	18.5	33.2	0.144	22	31.409	20.416	18.5	33.2	0.108	26	37.398	24.309	19.0	33.7	0.131
	Point 31A	69	24	38.401	24.961	27.0	41.7	0.173	34	54.402	35.361	27.0	41.7	0.234	14	22.401	14.560	27.0	41.7	0.097
	Point 31B	40	22	29.456	19.147	14.5	29.2	0.093	14	18.584	12.079	14.0	28.7	0.055	20	26.779	17.406	14.5	29.2	0.081
	Total Oxygen Injected Per Day (lb)		**32.207**						**29.398**						**26.009**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 14	39	24	32.680	21.242	15.5	30.2	0.107	18	24.510	15.931	15.5	30.2	0.076	18	24.510	15.931	15.5	30.2	0.077
	Point 17	40	22	28.430	18.479	12.5	27.2	0.084	18	23.261	15.119	12.5	27.2	0.065	20	25.845	16.799	12.5	27.2	0.073
	Point 20	40	26	34.812	22.628	14.5	29.2	0.110	16	21.423	13.925	14.5	29.2	0.064	18	24.101	15.665	14.5	29.2	0.073
	Point 23	40	22	29.203	18.982	14.0	28.7	0.091	18	23.893	15.531	14.0	28.7	0.071	18	23.893	15.531	14.0	28.7	0.071
	Point 26A	60	30	45.338	29.469	22.5	37.2	0.182	26	39.293	25.540	22.5	37.2	0.151	24	35.779	23.256	21.5	36.2	0.135
	Point 26B	29	24	31.014	20.159	12.5	27.2	0.091	18	23.261	15.119	12.5	27.2	0.065	20	25.845	16.799	12.5	27.2	0.073
	Point 29A	66	24	37.469	24.355	25.0	39.7	0.161	20	31.420	20.423	25.5	40.2	0.130	22	34.347	22.325	25.0	39.7	0.142
	Point 29B	40	24	32.134	20.887	14.5	29.2	0.101	20	26.779	17.406	14.5	29.2	0.081	20	26.779	17.406	14.5	29.2	0.081
	Total Oxygen Injected Per Day (lb)		**29.655**						**22.512**						**23.194**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 13	40	22	29.957	19.472	15.5	30.2	0.098	26	35.109	22.821	15.0	29.7	0.108	16	21.787	14.161	15.5	30.2	0.068
	Point 15	40	22	29.456	19.147	14.5	29.2	0.093	28	37.490	24.368	14.5	29.2	0.113	16	21.605	14.044	15.0	29.7	0.067
	Point 50	55	60	86.942	56.512	19.5	34.2	0.322	28	40.573	26.372	19.5	34.2	0.143	20	28.981	18.837	19.5	34.2	0.103
	Point 21	40	22	28.948	18.816	13.5	28.2	0.088	28	36.842	23.948	13.5	28.2	0.107	18	23.684	15.395	13.5	28.2	0.069
	Point 24	55	22	32.341	21.022	20.5	35.2	0.123	32	47.042	30.577	20.5	35.2	0.171	18	26.461	17.200	20.5	35.2	0.097
	Point 27A	65	22	34.130	22.184	24.5	39.2	0.145	40	62.054	40.335	24.5	39.2	0.251	12	18.497	12.023	24.0	38.7	0.074
	Point 27B	33	20	25.845	16.799	12.5	27.2	0.076	20	25.607	16.644	12.0	26.7	0.070	18	23.046	14.980	12.0	26.7	0.064
	Point 30	50	24	34.522	22.439	19.0	33.7	0.126	32	46.029	29.919	19.0	33.7	0.160	20	28.768	18.699	19.0	33.7	0.101
	Total Oxygen Injected Per Day (lb)		**34.245**						**35.918**						**20.582**					
	System Total Per Day (lb)		**251.96**						**223.59**						**197.92**					

Appendix E. Table E-4
Operational Data - 33 North Clinton Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q4 2013: 405,080 lbs

Oxygen to OU-2 - 33 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-14	31	5,578
Month 2	Feb-14	28	8,371
Month 3	Mar-14	31	8,195
Total Operational Days in Q1 2014			90
Total Oxygen in Q1 2014			22,144.44
Running Total for Oxygen to 33 North Clinton Through Q4 2013 (lbs)			**427,224.13**

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

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

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

		1/27/2014						2/12/2014						3/20/2014					
O_2%		91.4						90.9						86.0					
R		10.73						10.73						10.73					
Temp R (T)		530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	62	24	36.513	23.733	23.0	37.7	0.144	34	51.727	33.622	23.0	37.7	0.203	30	45.641	29.667	23.0	37.7	0.169
	Point 1B	46	14	19.220	12.493	16.0	30.7	0.062	20	27.458	17.848	16.0	30.7	0.088	20	27.458	17.848	16.0	30.7	0.083
	Point 6A	65	20	31.027	20.167	24.5	39.2	0.127	34	53.081	34.503	25.0	39.7	0.219	36	55.848	36.301	24.5	39.2	0.215
	Point 6B	46	14	19.376	12.595	16.5	31.2	0.063	22	30.691	19.949	17.0	31.7	0.101	20	27.680	17.992	16.5	31.2	0.085
	Point 11	46	14	19.376	12.595	16.5	31.2	0.063	26	35.985	23.390	16.5	31.2	0.117	24	33.216	21.591	16.5	31.2	0.102
	Point 35	41	30	39.474	25.658	13.5	28.2	0.116	40	52.632	34.211	13.5	28.2	0.154	36	47.369	30.790	13.5	28.2	0.131
	Point 40	41	12	15.790	10.263	13.5	28.2	0.047	22	29.203	18.982	14.0	28.7	0.087	18	23.893	15.531	14.0	28.7	0.067
	Point 45	31	16	19.300	12.545	9.0	23.7	0.048	22	26.538	17.249	9.0	23.7	0.065	20	24.125	15.681	9.0	23.7	0.056
Total Oxygen Injected Per Day (lb)			**21.421**						**33.072**						**29.084**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	67	24	37.469	24.355	25.0	39.7	0.155	40	62.840	40.846	25.5	40.2	0.262	20	31.420	20.423	25.5	40.2	0.124
	Point 2B	46	18	24.912	16.193	16.5	31.2	0.081	28	38.753	25.189	16.5	31.2	0.126	30	41.521	26.988	16.5	31.2	0.127
	Point 7A	65	10	15.414	10.019	24.0	38.7	0.062	60	93.081	60.502	24.5	39.2	0.379	30	46.243	30.058	24.0	38.7	0.176
	Point 7B	41	14	19.531	12.695	17.0	31.7	0.065	32	44.642	29.017	17.0	31.7	0.147	32	44.642	29.017	17.0	31.7	0.139
	Point 12	46	14	19.376	12.595	16.5	31.2	0.063	28	38.126	24.782	15.5	30.2	0.120	26	35.985	23.390	16.5	31.2	0.110
	Point 36	36	30	37.684	24.494	11.0	25.7	0.101	32	40.196	26.127	11.0	25.7	0.107	38	47.733	31.026	11.0	25.7	0.121
	Point 41	41	18	23.893	15.531	14.0	28.7	0.072	26	34.513	22.433	14.0	28.7	0.103	20	26.548	17.256	14.0	28.7	0.075
	Point 46	46	18	22.829	14.839	11.5	26.2	0.062	26	32.975	21.434	11.5	26.2	0.090	20	25.366	16.488	11.5	26.2	0.065
Total Oxygen Injected Per Day (lb)			**21.186**						**42.683**						**30.005**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	65	22	34.562	22.465	25.5	40.2	0.145	42	65.571	42.621	25.0	39.7	0.270	30	47.130	30.635	25.5	40.2	0.186
	Point 3B	46	20	27.680	17.992	16.5	31.2	0.090	22	30.203	19.632	16.0	30.7	0.096	20	27.680	17.992	16.5	31.2	0.085
	Point 8A	71	26	42.343	27.523	28.5	43.2	0.191	32	52.114	33.874	28.5	43.2	0.234	22	36.445	23.689	30.0	44.7	0.160
	Point 8B	46	22	30.448	19.791	16.5	31.2	0.099	22	30.448	19.791	16.5	31.2	0.099	20	27.458	17.848	16.0	30.7	0.083
	Point 32A	63.5	16	25.136	16.338	25.5	40.2	0.106	12	18.497	12.023	24.0	38.7	0.074	30	46.540	30.251	24.5	39.2	0.179
	Point 32B	36	14	17.586	11.431	11.0	25.7	0.047	20	25.122	16.330	11.0	25.7	0.067	20	25.366	16.488	11.5	26.2	0.065
	Point 37	41	40	52.632	34.211	13.5	28.2	0.155	34	44.737	29.079	13.5	28.2	0.131	38	50.000	32.500	13.5	28.2	0.139
	Point 42	36	18	22.829	14.839	11.5	26.2	0.062	22	27.902	18.136	11.5	26.2	0.076	22	27.902	18.136	11.5	26.2	0.072
Total Oxygen Injected Per Day (lb)			**28.673**						**33.532**						**31.015**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	69	36	57.602	37.441	27.0	41.7	0.251	40	63.617	41.351	26.5	41.2	0.272	40	64.002	41.601	27.0	41.7	0.262
	Point 4B	46	14	19.531	12.695	17.0	31.7	0.065	26	35.985	23.390	16.5	31.2	0.117	30	41.852	27.204	17.0	31.7	0.130
	Point 9A	71	36	57.946	37.665	27.5	42.2	0.255	48	77.261	50.220	27.5	42.2	0.339	46	74.042	48.127	27.5	42.2	0.307
	Point 9B	46	18	24.912	16.193	16.5	31.2	0.081	30	41.521	26.988	16.5	31.2	0.135	30	41.521	26.988	16.5	31.2	0.127
	Point 33	42	32	42.477	27.610	14.0	28.7	0.127	30	39.822	25.885	14.0	28.7	0.119	28	37.168	24.159	14.0	28.7	0.105
	Point 38	36	16	20.293	13.190	11.5	26.2	0.056	28	35.171	22.861	11.0	25.7	0.094	28	35.171	22.861	11.0	25.7	0.089
	Point 43	31	10	12.063	7.841	9.0	23.7	0.030	26	31.363	20.386	9.0	23.7	0.077	28	33.775	21.954	9.0	23.7	0.079
	Point 48	55	10	14.490	9.419	19.5	34.2	0.052	26	37.675	24.489	19.5	34.2	0.134	28	40.573	26.372	19.5	34.2	0.136
Total Oxygen Injected Per Day (lb)			**29.338**						**41.154**						**39.552**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	67	16	23.853	15.504	21.5	36.2	0.090	10	15.314	9.954	23.5	38.2	0.061	42	65.571	42.621	25.0	39.7	0.256
	Point 5B	45	16	21.966	14.278	16.0	30.7	0.070	22	30.448	19.791	16.5	31.2	0.099	32	44.289	28.788	16.5	31.2	0.136
	Point 10	56	22	32.341	21.022	20.5	35.2	0.119	46	67.141	43.642	20.0	34.7	0.242	46	67.623	43.955	20.5	35.2	0.234
	Point 34	36	16	20.865	13.562	13.0	27.7	0.060	30	39.122	25.430	13.0	27.7	0.113	36	46.947	30.516	13.0	27.7	0.128
	Point 39	26	16	18.468	12.004	7.0	21.7	0.042	26	30.010	19.507	7.0	21.7	0.068	20	23.085	15.005	7.0	21.7	0.049
	Point 44	41	14	17.756	11.541	11.5	26.2	0.049	26	32.975	21.434	11.5	26.2	0.090	28	34.828	22.638	10.5	25.2	0.086
	Point 47	55	18	26.083	16.954	19.5	34.2	0.093	32	47.042	30.577	20.5	35.2	0.172	28	40.573	26.372	19.5	34.2	0.136
	Point 49	55	20	28.981	18.837	19.5	34.2	0.104	32	46.369	30.140	19.5	34.2	0.165	10	9.500	6.175	0.0	14.7	0.014
Total Oxygen Injected Per Day (lb)			**20.069**						**32.267**						**33.253**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 16	40	16	21.605	14.044	15.0	29.7	0.067	20	27.007	17.554	15.0	29.7	0.083	18	24.510	15.931	15.5	30.2	0.073
	Point 19	40	16	21.605	14.044	15.0	29.7	0.067	22	29.456	19.147	14.5	29.2	0.089	18	24.306	15.799	15.0	29.7	0.071
	Point 22	40	14	18.745	12.184	14.5	29.2	0.057	24	32.134	20.887	14.5	29.2	0.097	10	13.389	8.703	14.5	29.2	0.038
	Point 25A	60	40	60.855	39.556	23.0	37.7	0.240	40	61.257	39.817	23.5	38.2	0.243	42	64.320	41.808	23.5	38.2	0.242
	Point 25B	29	14	17.240	11.206	10.0	24.7	0.044	22	27.092	17.610	10.0	24.7	0.070	10	12.314	8.004	10.0	24.7	0.030
	Point 28	50	20	28.768	18.699	19.0	33.7	0.101	32	46.029	29.919	19.0	33.7	0.161	28	40.275	26.179	19.0	33.7	0.133
	Point 31A	69	32	51.202	33.281	27.0	41.7	0.223	24	38.631	25.110	27.5	42.2	0.169	36	57.946	37.665	27.5	42.2	0.240
	Point 31B	40	14	18.745	12.184	14.5	29.2	0.057	22	29.456	19.147	14.5	29.2	0.089	16	21.605	14.044	15.0	29.7	0.063
Total Oxygen Injected Per Day (lb)			**27.422**						**32.087**						**28.493**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 14	39	20	26.316	17.105	13.5	28.2	0.078	24	32.680	21.242	15.5	30.2	0.103	22	29.957	19.472	15.5	30.2	0.089
	Point 17	40	20	26.082	16.953	13.0	27.7	0.075	24	31.298	20.344	13.0	27.7	0.090	28	36.514	23.734	13.0	27.7	0.099
	Point 20	40	16	21.605	14.044	15.0	29.7	0.067	32	42.846	27.850	14.5	29.2	0.130	24	32.134	20.887	14.5	29.2	0.092
	Point 23	40	16	21.423	13.925	14.5	29.2	0.065	26	34.812	22.628	14.5	29.2	0.106	28	37.168	24.159	14.0	28.7	0.105
	Point 26A	60	18	27.385	17.800	23.0	37.7	0.108	44	67.383	43.799	23.5	38.2	0.267	46	69.983	45.489	23.0	37.7	0.259
	Point 26B	29	16	20.865	13.562	13.0	27.7	0.060	26	33.906	22.039	13.0	27.7	0.098	22	28.690	18.648	13.0	27.7	0.078
	Point 29A	66	12	18.852	12.254	25.5	40.2	0.079	54	85.360	55.484	26.0	40.7	0.361	44	69.124	44.931	25.5	40.2	0.273
	Point 29B	40	18	24.101	15.665	14.5	29.2	0.074	22	29.707	19.310	15.0	29.7	0.092	22	29.707	19.310	15.0	29.7	0.087
Total Oxygen Injected Per Day (lb)			**19.402**						**39.867**						**34.648**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 13	40	12	16.067	10.444	14.5	29.2	0.049	32	37.359	24.283	7.5	22.2	0.086	0	0.000	0.000	15.5	30.2	0.000
	Point 15	40	12	16.204	10.533	15.0	29.7	0.050	34	40.578	26.376	8.5	23.2	0.098	30	40.850	26.552	15.5	30.2	0.121
	Point 50	55	10	14.490	9.419	19.5	34.2	0.052	34	49.626	32.257	20.0	34.7	0.179	30	43.788	28.462	20.0	34.7	0.149
	Point 21	40	10	13.274	8.628	14.0	28.7	0.040	30	39.822	25.885	14.0	28.7	0.119	32	42.477	27.610	14.0	28.7	0.120
	Point 24	55	10	14.701	9.555	20.5	35.2	0.054	52	76.984	50.040	21.0	35.7	0.286	44	65.141	42.341	21.0	35.7	0.229
	Point 27A	65	10	14.908	9.690	21.5	36.2	0.056	50	78.060	50.739	25.0	39.7	0.322	46	72.266	46.973	25.5	40.2	0.286
	Point 27B	33	10	12.923	8.400	12.5	27.2	0.037	30	38.768	25.199	12.5	27.2	0.110	34	43.937	28.559	12.5	27.2	0.117
	Point 30	50	10	14.384	9.350	19.0	33.7	0.051	36	52.165	33.907	19.5	34.2	0.185	36	52.165	33.907	19.5	34.2	0.175
Total Oxygen Injected Per Day (lb)			**12.437**						**44.290**						**38.318**					
System Total Per Day (lb)			**179.95**						**298.95**						**264.37**					

Weight of Oxygen Injected through Q4 2013 427,224 lbs

Oxygen to OU-2 - 33 North Clinton

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-14	30	6,943
Month 2	May-14	31	6,526
Month 3	Jun-14	30	5,082
Total Operational Days in Q2 2014			91
Total Oxygen in Q2 2014			18,550.30
Running Total for Oxygen to 33 North Clinton Through Q2 2014 (lbs)			**445,774.43**

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

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

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

		4/16/2014						5/14/2014						6/23/2014					
	O_2%	86.6						85.6						88.9					
	R	10.73						10.73						10.73					
	Temp R (T)	630						637						632					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	62	40	60.855	39.556	23.0	37.7	0.191	36	54.769	35.600	23.0	37.7	0.168	28	42.598	27.689	23.0	37.7	0.137
	Point 1B	46	36	49.424	32.126	16.0	30.7	0.126	16	21.966	14.278	16.0	30.7	0.055	16	21.966	14.278	16.0	30.7	0.057
	Point 6A	65	38	59.326	38.562	25.0	39.7	0.196	38	59.326	38.562	25.0	39.7	0.192	30	46.540	30.251	24.5	39.2	0.155
	Point 6B	46	18	24.912	16.193	16.5	31.2	0.065	18	25.111	16.322	17.0	31.7	0.065	18	25.111	16.322	17.0	31.7	0.068
	Point 11	46	22	30.691	19.949	17.0	31.7	0.081	16	22.321	14.509	17.0	31.7	0.058	14	19.376	12.595	16.5	31.2	0.052
	Point 35	41	50	65.790	42.763	13.5	28.2	0.154	34	45.132	29.336	14.0	28.7	0.105	30	40.168	26.109	14.5	29.2	0.100
	Point 40	41	22	29.203	18.982	14.0	28.7	0.070	14	18.584	12.079	14.0	28.7	0.043	14	18.584	12.079	14.0	28.7	0.045
	Point 45	31	22	26.816	17.430	9.5	24.2	0.054	14	17.065	11.092	9.5	24.2	0.034	16	19.503	12.677	9.5	24.2	0.040
	Total Oxygen Injected Per Day (lb)		**30.002**						**23.027**						**20.951**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 2A	67	100	159.043	103.378	26.5	41.2	0.546	36	56.556	36.762	25.5	40.2	0.185	28	44.261	28.770	26.0	40.7	0.154
	Point 2B	46	28	38.753	25.189	16.5	31.2	0.101	20	27.680	17.992	16.5	31.2	0.070	16	22.144	14.394	16.5	31.2	0.059
	Point 7A	65	54	83.773	54.452	24.5	39.2	0.273	40	62.054	40.335	24.5	39.2	0.198	22	34.130	22.184	24.5	39.2	0.114
	Point 7B	41	28	39.369	25.590	17.5	32.2	0.106	18	25.111	16.322	17.0	31.7	0.065	10	13.840	8.996	16.5	31.2	0.037
	Point 12	46	32	44.289	28.788	16.5	31.2	0.115	26	35.985	23.390	16.5	31.2	0.091	18	24.912	16.193	16.5	31.2	0.066
	Point 36	36	42	52.757	34.292	11.0	25.7	0.113	34	42.708	27.760	11.0	25.7	0.089	32	40.196	26.127	11.0	25.7	0.088
	Point 41	41	24	31.858	20.708	14.0	28.7	0.076	20	26.548	17.256	14.0	28.7	0.062	16	21.239	13.805	14.0	28.7	0.052
	Point 46	46	26	32.975	21.434	11.5	26.2	0.072	24	30.439	19.785	11.5	26.2	0.065	20	25.122	16.330	11.0	25.7	0.055
	Total Oxygen Injected Per Day (lb)		**44.844**						**26.428**						**19.980**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 3A	65	36	56.907	36.989	26.0	40.7	0.193	30	47.130	30.635	25.5	40.2	0.154	28	43.714	28.414	25.0	39.7	0.148
	Point 3B	46	22	30.203	19.632	16.0	30.7	0.077	18	24.912	16.193	16.5	31.2	0.063	16	22.144	14.394	16.5	31.2	0.059
	Point 8A	71	30	49.698	32.304	30.0	44.7	0.185	38	61.886	40.226	28.5	43.2	0.218	32	52.114	33.874	28.5	43.2	0.192
	Point 8B	46	20	27.680	17.992	16.5	31.2	0.072	20	27.680	17.992	16.5	31.2	0.070	16	22.144	14.394	16.5	31.2	0.059
	Point 32A	63.5	34	52.746	34.285	24.5	39.2	0.172	36	55.491	36.069	24.0	38.7	0.175	28	42.880	27.872	23.5	38.2	0.140
	Point 32B	36	20	25.366	16.488	11.5	26.2	0.055	16	20.293	13.190	11.5	26.2	0.043	20	25.366	16.488	11.5	26.2	0.057
	Point 37	41	40	53.096	34.513	14.0	28.7	0.127	36	47.787	31.061	14.0	28.7	0.112	36	47.369	30.790	13.5	28.2	0.114
	Point 42	36	24	30.728	19.973	12.0	26.7	0.068	18	23.046	14.980	12.0	26.7	0.050	14	17.925	11.651	12.0	26.7	0.041
	Total Oxygen Injected Per Day (lb)		**30.390**						**28.329**						**25.865**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 4A	69	26	41.601	27.041	27.0	41.7	0.144	36	57.602	37.441	27.0	41.7	0.196	28	44.801	29.121	27.0	41.7	0.159
	Point 4B	46	18	25.111	16.322	17.0	31.7	0.066	22	30.691	19.949	17.0	31.7	0.079	12	16.608	10.795	16.5	31.2	0.044
	Point 9A	71	26	41.850	27.202	27.5	42.2	0.147	36	57.946	37.665	27.5	42.2	0.199	36	57.946	37.665	27.5	42.2	0.208
	Point 9B	46	20	27.901	18.136	17.0	31.7	0.074	18	25.111	16.322	17.0	31.7	0.065	14	19.376	12.595	16.5	31.2	0.052
	Point 33	42	38	50.442	32.787	14.0	28.7	0.121	42	55.751	36.238	14.0	28.7	0.130	30	39.822	25.885	14.0	28.7	0.097
	Point 38	36	18	22.829	14.839	11.5	26.2	0.050	22	27.902	18.136	11.5	26.2	0.060	10	12.683	8.244	11.5	26.2	0.028
	Point 43	31	20	24.378	15.846	9.5	24.2	0.049	24	29.254	19.015	9.5	24.2	0.058	10	12.189	7.923	9.5	24.2	0.025
	Point 48	55	12	17.388	11.302	19.5	34.2	0.050	16	23.185	15.070	19.5	34.2	0.065	10	14.490	9.419	19.5	34.2	0.042
	Total Oxygen Injected Per Day (lb)		**22.414**						**27.217**						**21.002**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 5A	67	18	28.102	18.266	25.0	39.7	0.093	26	40.591	26.384	25.0	39.7	0.131	20	31.224	20.296	25.0	39.7	0.106
	Point 5B	45	28	38.753	25.189	16.5	31.2	0.101	34	47.057	30.587	16.5	31.2	0.120	16	22.144	14.394	16.5	31.2	0.059
	Point 10	56	26	38.222	24.844	20.5	35.2	0.112	28	41.162	26.755	20.5	35.2	0.118	20	29.401	19.111	20.5	35.2	0.088
	Point 34	36	40	52.163	33.906	13.0	27.7	0.120	28	36.514	23.734	13.0	27.7	0.082	34	44.339	28.820	13.0	27.7	0.105
	Point 39	26	34	39.244	25.509	7.0	21.7	0.071	26	30.010	19.507	7.0	21.7	0.053	10	11.542	7.503	7.0	21.7	0.021
	Point 44	41	32	40.585	26.380	11.5	26.2	0.089	30	38.048	24.731	11.5	26.2	0.081	14	17.756	11.541	11.5	26.2	0.040
	Point 47	55	28	40.573	26.372	19.5	34.2	0.116	36	52.165	33.907	19.5	34.2	0.145	10	14.490	9.419	19.5	34.2	0.042
	Point 49	55	10	10.276	6.679	2.5	17.2	0.015	16	23.353	15.180	20.0	34.7	0.066	10	14.490	9.419	19.5	34.2	0.042
	Total Oxygen Injected Per Day (lb)		**22.901**						**25.483**						**16.089**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 16	40	24	32.680	21.242	15.5	30.2	0.082	24	32.680	21.242	15.5	30.2	0.080	16	21.605	14.044	15.0	29.7	0.055
	Point 19	40	24	32.408	21.065	15.0	29.7	0.080	26	35.109	22.821	15.0	29.7	0.085	14	18.745	12.184	14.5	29.2	0.047
	Point 22	40	30	40.510	26.332	15.0	29.7	0.100	20	26.779	17.406	14.5	29.2	0.064	12	16.067	10.444	14.5	29.2	0.040
	Point 25A	60	32	49.006	31.854	23.5	38.2	0.156	24	36.754	23.890	23.5	38.2	0.114	26	39.556	25.711	23.0	37.7	0.127
	Point 25B	29	30	37.315	24.255	10.5	25.2	0.078	30	36.943	24.013	10.0	24.7	0.074	14	17.240	11.206	10.0	24.7	0.036
	Point 28	50	26	37.398	24.309	19.0	33.7	0.105	30	43.471	28.256	19.5	34.2	0.121	26	37.675	24.489	19.5	34.2	0.110
	Point 31A	69	16	25.754	16.740	27.5	42.2	0.090	26	41.850	27.202	27.5	42.2	0.144	20	32.192	20.925	27.5	42.2	0.116
	Point 31B	40	24	32.408	21.065	15.0	29.7	0.080	18	24.101	15.665	14.5	29.2	0.057	16	21.423	13.925	14.5	29.2	0.053
	Total Oxygen Injected Per Day (lb)		**24.714**						**23.665**						**18.672**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 7	Point 14	39	20	27.233	17.702	15.5	30.2	0.068	20	27.458	17.848	16.0	30.7	0.069	18	24.510	15.931	15.5	30.2	0.063
	Point 17	40	20	26.316	17.105	13.5	28.2	0.062	18	23.473	15.258	13.0	27.7	0.053	16	20.865	13.562	13.0	27.7	0.049
	Point 20	40	28	37.810	24.576	15.0	29.7	0.094	20	27.007	17.554	15.0	29.7	0.065	14	18.905	12.288	15.0	29.7	0.048
	Point 23	40	24	32.134	20.887	14.5	29.2	0.078	22	29.456	19.147	14.5	29.2	0.070	18	24.101	15.665	14.5	29.2	0.060
	Point 26A	60	40	60.855	39.556	23.0	37.7	0.191	36	55.131	35.835	23.5	38.2	0.171	34	51.727	33.622	23.0	37.7	0.166
	Point 26B	29	22	28.690	18.648	13.0	27.7	0.066	22	28.690	18.648	13.0	27.7	0.065	14	18.257	11.867	13.0	27.7	0.043
	Point 29A	66	30	47.422	30.825	26.0	40.7	0.161	34	53.745	34.934	26.0	40.7	0.178	36	56.556	36.762	25.5	40.2	0.194
	Point 29B	40	22	29.707	19.310	15.0	29.7	0.073	24	32.408	21.065	15.0	29.7	0.078	18	24.306	15.799	15.0	29.7	0.062
	Total Oxygen Injected Per Day (lb)		**25.387**						**23.981**						**21.909**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 8	Point 13	40	34	46.296	30.093	15.5	30.2	0.116	30	40.850	26.552	15.5	30.2	0.100	18	24.510	15.931	15.5	30.2	0.063
	Point 15	40	28	37.810	24.576	15.0	29.7	0.094	24	32.680	21.242	15.5	30.2	0.080	18	24.306	15.799	15.0	29.7	0.062
	Point 50	55	40	58.383	37.949	20.0	34.7	0.169	36	52.545	34.154	20.0	34.7	0.148	28	40.868	26.564	20.0	34.7	0.121
	Point 21	40	24	31.858	20.708	14.0	28.7	0.076	20	26.548	17.256	14.0	28.7	0.062	12	15.929	10.354	14.0	28.7	0.039
	Point 24	55	40	59.219	38.492	21.0	35.7	0.176	46	68.102	44.266	21.0	35.7	0.198	30	44.102	28.666	20.5	35.2	0.132
	Point 27A	65	24	37.938	24.660	26.0	40.7	0.129	44	69.124	44.931	25.5	40.2	0.226	36	56.203	36.532	25.0	39.7	0.190
	Point 27B	33	24	31.014	20.159	12.5	27.2	0.070	18	23.261	15.119	12.5	27.2	0.052	16	20.676	13.439	12.5	27.2	0.048
	Point 30	50	32	46.369	30.140	19.5	34.2	0.132	36	52.165	33.907	19.5	34.2	0.145	30	43.152	28.049	19.0	33.7	0.124
	Total Oxygen Injected Per Day (lb)		**30.774**						**32.386**						**24.916**					
	System Total Per Day (lb)		**231.43**						**210.52**						**169.38**					

Appendix E. Table E-5
Operational Data - Plume Tail Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q2 2013: 109,891 lbs

Oxygen to OU-2 - Plume Tail

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-13	31	4,005
Month 2	Aug-13	31	2,959
Month 3	Sep-13	30	2,407
Total Operational Days in Q3 2013			92
Total Oxygen in Q3 2013 (lbs)			9,372.10
Running Total for Oxygen to Plume Tail Through Q3 2013 (lbs)			**119,262.71**

		7/22/2013						8/12/2013						9/17/2013					
	O_2%	91.4						93.2						87					
	R	10.73						10.73						10.73					
	Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1	39	22	30.691	61.383	17.0	31.7	0.298	16	22.321	44.642	17.0	31.7	0.216	12	16.608	33.216	16.5	31.2	0.159
	Point 2	19	12	14.322	28.643	8.5	23.2	0.102	18	21.250	42.499	8.0	22.7	0.148	10	11.805	23.611	8.0	22.7	0.082
	Point 3	39	54	75.334	150.667	17.0	31.7	0.731	20	27.901	55.803	17.0	31.7	0.271	12	16.608	33.216	16.5	31.2	0.159
	Point 4	19	18	21.250	42.499	8.0	22.7	0.148	18	21.250	42.499	8.0	22.7	0.148	14	16.344	32.689	7.5	22.2	0.111
	Point 5	44	30	43.152	86.304	19.0	33.7	0.445	16	23.014	46.029	19.0	33.7	0.237	14	19.988	39.975	18.5	33.2	0.203
	Point 6	19	16	18.679	37.359	7.5	22.2	0.127	18	21.014	42.029	7.5	22.2	0.143	14	16.159	32.319	7.0	21.7	0.107
	Point 7	44	22	31.879	63.757	19.5	34.2	0.334	14	20.286	40.573	19.5	34.2	0.212	14	20.138	40.275	19.0	33.7	0.208
	Point 8	19	14	15.397	30.793	5.0	19.7	0.093	20	21.714	43.429	4.5	19.2	0.128	10	10.857	21.714	4.5	19.2	0.064
Total Oxygen Injected Per Day (lb)			**72.826**						**48.069**						**34.939**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 9	44	20	28.338	56.676	18.0	32.7	0.284	16	22.843	45.686	18.5	33.2	0.232	16	22.843	45.686	18.5	33.2	0.232
	Point 10	19	16	18.889	37.777	8.0	22.7	0.131	16	18.889	37.777	8.0	22.7	0.131	16	18.679	37.359	7.5	22.2	0.127
	Point 11	44	22	31.645	63.290	19.0	33.7	0.326	16	23.014	46.029	19.0	33.7	0.237	18	25.698	51.397	18.5	33.2	0.261
	Point 12	19	16	18.679	37.359	7.5	22.2	0.127	18	21.014	42.029	7.5	22.2	0.143	16	18.679	37.359	7.5	22.2	0.127
	Point 13	44	20	28.981	57.961	19.5	34.2	0.303	14	20.286	40.573	19.5	34.2	0.212	14	20.138	40.275	19.0	33.7	0.208
	Point 14	19	18	20.536	41.071	6.5	21.2	0.133	18	20.536	41.071	6.5	21.2	0.133	16	18.254	36.508	6.5	21.2	0.118
	Point 15	44	22	31.645	63.290	19.0	33.7	0.326	18	25.698	51.397	18.5	33.2	0.261	16	22.843	45.686	18.5	33.2	0.232
	Point 16	19	16	18.889	37.777	8.0	22.7	0.131	16	18.889	37.777	8.0	22.7	0.131	14	16.344	32.689	7.5	22.2	0.111
Total Oxygen Injected Per Day (lb)			**56.378**						**47.392**						**45.310**					
System Total Per Day (lb)			**129.20**						**95.46**						**80.25**					

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 2 injection banks
Oxygen is injected for 10 minutes during each injection cycle
Each injection bank operates for 12 injection cycles per day
Each injection point injects oxygen for 120 min per day (10 min per cycle * 12 cycles)

Example
Bank 1 starts injection at 7AM
Bank 1 finishes injection at 710AM
System is recharging 710AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 810AM
System is recharging 810AM to 900AM
Bank 1 starts injection at 900AM
Bank 1 finishes injection at 910AM
System is recharging from 910AM to 10AM
Bank 2 starts injection at 1000AM
Bank 2 finishes injection at 1010AM
System is recharging 1010AM to 1100AM
(Keep repeating cycle for course of day)

.

Appendix E. Table E-5
Operational Data - Plume Tail Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q3 2013: 119,263 lbs

Oxygen to OU-2 - Plume Tail

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-13	31	2,732
Month 2	Nov-13	30	3,415
Month 3	Dec-13	31	2,970
Total Operational Days in Q4 2013			92
Total Oxygen in Q4 2013 (lbs)			9,116.17
Running Total for Oxygen to Plume Tail Through Q4 2013 (lbs)			**128,379.17**

		10/10/2013						11/12/2013						12/3/2013					
O_2%		89.9						88.7						89.6					
R		10.73						10.73						10.73					
Temp R (T)		530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1	39	18	25.111	50.222	17.0	31.7	0.251	20	27.680	55.361	16.5	31.2	0.272	14	19.531	39.062	17.0	31.7	0.195
	Point 2	19	16	19.095	38.191	8.5	23.2	0.140	22	25.684	51.368	7.5	22.2	0.180	14	16.527	33.055	8.0	22.7	0.118
	Point 3	39	16	22.496	44.993	17.5	32.2	0.228	20	27.680	55.361	16.5	31.2	0.272	16	22.321	44.642	17.0	31.7	0.223
	Point 4	19	18	21.014	42.029	7.5	22.2	0.147	24	28.019	56.038	7.5	22.2	0.196	12	14.166	28.333	8.0	22.7	0.101
	Point 5	44	16	22.670	45.341	18.0	32.7	0.234	20	28.554	57.108	18.5	33.2	0.299	18	25.698	51.397	18.5	33.2	0.269
	Point 6	19	18	21.014	42.029	7.5	22.2	0.147	22	25.099	50.198	6.5	21.2	0.168	14	16.159	32.319	7.0	21.7	0.110
	Point 7	44	14	20.286	40.573	19.5	34.2	0.219	20	28.768	57.536	19.0	33.7	0.305	18	25.891	51.782	19.0	33.7	0.275
	Point 8	19	16	17.596	35.192	5.0	19.7	0.109	20	21.714	43.429	4.5	19.2	0.131	16	17.371	34.743	4.5	19.2	0.105
Total Oxygen Injected Per Day (lb)			**47.173**						**58.343**						**44.704**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 9	44	14	19.988	39.975	18.5	33.2	0.209	20	28.554	57.108	18.5	33.2	0.299	16	23.014	46.029	19.0	33.7	0.244
	Point 10	19	12	14.166	28.333	8.0	22.7	0.101	22	25.684	51.368	7.5	22.2	0.180	12	14.166	28.333	8.0	22.7	0.101
	Point 11	44	14	20.138	40.275	19.0	33.7	0.214	18	25.698	51.397	18.5	33.2	0.269	18	25.891	51.782	19.0	33.7	0.275
	Point 12	19	12	14.166	28.333	8.0	22.7	0.101	20	23.349	46.698	7.5	22.2	0.163	12	14.010	28.019	7.5	22.2	0.098
	Point 13	44	16	23.014	46.029	19.0	33.7	0.244	16	23.014	46.029	19.0	33.7	0.244	20	28.768	57.536	19.0	33.7	0.305
	Point 14	19	12	13.690	27.381	6.5	21.2	0.091	22	24.500	49.000	5.5	20.2	0.156	12	16.475	32.949	16.0	30.7	0.159
	Point 15	44	12	17.261	34.522	19.0	33.7	0.183	20	28.338	56.676	18.0	32.7	0.292	20	28.554	57.108	18.5	33.2	0.299
	Point 16	19	16	18.889	37.777	8.0	22.7	0.135	16	18.679	37.359	7.5	22.2	0.131	14	16.344	32.689	7.5	22.2	0.114
Total Oxygen Injected Per Day (lb)			**40.956**						**55.475**						**51.091**					
System Total Per Day (lb)			**88.13**						**113.82**						**95.80**					

Notes:
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Bank 1 starts injection at 900AM
Bank 1 finishes injection at 910AM
System is recharging from 910AM to 10AM
Bank 2 starts injection at 1000AM
Bank 2 finishes injection at 1010AM
System is recharging 1010AM to 1100AM
(Keep repeating cycle for course of day)

.

Appendix E. Table E-5
Operational Data - Plume Tail Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q4 2013: 128,379 lbs

Oxygen to OU-2 - Plume Tail

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-14	31	3,295
Month 2	Feb-14	28	3,346
Month 3	Mar-14	31	3,611
Total Operational Days in Q1 2014			90
Total Oxygen in Q1 2014			10,252.13
Running Total for Oxygen to Plume Tail Through Q4 2013 (lbs)			**138,631.30**

		1/14/2014						2/11/2014						3/10/2014					
O_2%		93.3						90.6						91.1					
R		10.73						10.73						10.73					
Temp R (T)		530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1	39	16	22.144	44.289	16.5	31.2	0.221	20	27.680	55.361	16.5	31.2	0.277	22	30.691	61.383	17.0	31.7	0.312
	Point 2	19	16	18.889	37.777	8.0	22.7	0.137	18	21.014	42.029	7.5	22.2	0.149	20	23.611	47.221	8.0	22.7	0.172
	Point 3	39	16	22.144	44.289	16.5	31.2	0.221	18	24.912	49.825	16.5	31.2	0.249	20	27.680	55.361	16.5	31.2	0.277
	Point 4	19	18	21.014	42.029	7.5	22.2	0.149	36	42.499	84.998	8.0	22.7	0.309	12	14.010	28.019	7.5	22.2	0.100
	Point 5	44	16	22.843	45.686	18.5	33.2	0.243	24	34.265	68.529	18.5	33.2	0.364	26	37.120	74.240	18.5	33.2	0.395
	Point 6	19	18	20.776	41.553	7.0	21.7	0.144	28	32.319	64.637	7.0	21.7	0.225	16	18.468	36.936	7.0	21.7	0.128
	Point 7	44	16	23.014	46.029	19.0	33.7	0.248	24	34.265	68.529	18.5	33.2	0.364	24	34.522	69.043	19.0	33.7	0.373
	Point 8	19	18	19.543	39.086	4.5	19.2	0.120	22	23.886	47.771	4.5	19.2	0.147	18	19.543	39.086	4.5	19.2	0.120
Total Oxygen Injected Per Day (lb)			**47.541**						**66.714**						**60.030**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 9	44	20	28.768	57.536	19.0	33.7	0.311	18	25.698	51.397	18.5	33.2	0.273	18	25.698	51.397	18.5	33.2	0.273
	Point 10	19	12	14.010	28.019	7.5	22.2	0.100	18	21.014	42.029	7.5	22.2	0.149	16	18.679	37.359	7.5	22.2	0.133
	Point 11	44	22	31.409	62.818	18.5	33.2	0.334	18	25.698	51.397	18.5	33.2	0.273	20	28.554	57.108	18.5	33.2	0.304
	Point 12	19	12	14.010	28.019	7.5	22.2	0.100	18	20.776	41.553	7.0	21.7	0.144	16	18.679	37.359	7.5	22.2	0.133
	Point 13	44	26	37.398	74.797	19.0	33.7	0.404	16	22.843	45.686	18.5	33.2	0.243	20	28.768	57.536	19.0	33.7	0.311
	Point 14	19	14	15.783	31.565	6.0	20.7	0.105	20	22.547	45.093	6.0	20.7	0.150	18	20.292	40.584	6.0	20.7	0.135
	Point 15	44	22	31.409	62.818	18.5	33.2	0.334	18	25.504	51.008	18.0	32.7	0.267	22	31.172	62.344	18.0	32.7	0.327
	Point 16	19	18	21.014	42.029	7.5	22.2	0.149	18	21.014	42.029	7.5	22.2	0.149	18	21.014	42.029	7.5	22.2	0.149
Total Oxygen Injected Per Day (lb)			**58.752**						**52.793**						**56.448**					
System Total Per Day (lb)			**106.29**						**119.51**						**116.48**					

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

System Operating Specs
Total of 2 injection banks
Oxygen is injected for 10 minutes during each injection cycle
Each injection bank operates for 12 injection cycles per day
Each injection point injects oxygen for 120 min per day (10 min per cycle * 12 cycles)

Example
Bank 1 starts injection at 7AM
Bank 1 finishes injection at 710AM
System is recharging 710AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 810AM
System is recharging 810AM to 900AM
Bank 1 starts injection at 900AM
Bank 1 finishes injection at 910AM
System is recharging from 910AM to 10AM
Bank 2 starts injection at 1000AM
Bank 2 finishes injection at 1010AM
System is recharging 1010AM to 1100AM
(Keep repeating cycle for course of day)

.

Appendix E. Table E-5
Operational Data - Plume Tail Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q1 2014: 138,631 lbs

Oxygen to OU-2 - Plume Tail

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-14	30	2,753
Month 2	May-14	31	2,101
Month 3	Jun-14	30	2,826
Total Operational Days in Q2 2014			91
Total Oxygen in Q2 2014			7,680.09
Running Total for Oxygen to Plume Tail Through Q2 2014 (lbs)			**146,311.38**

		4/4/2014						5/6/2014						6/27/2014					
	O_2%	87.5						88.9						88.3					
	R	10.73						10.73						10.73					
	Temp R (T)	650						650						610					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1	39	16	22.144	44.289	16.5	31.2	0.186	12	16.741	33.482	17.0	31.7	0.143	20	27.901	55.803	17.0	31.7	0.239
	Point 2	19	18	21.250	42.499	8.0	22.7	0.130	12	14.166	28.333	8.0	22.7	0.087	20	23.611	47.221	8.0	22.7	0.145
	Point 3	39	14	19.531	39.062	17.0	31.7	0.167	10	13.951	27.901	17.0	31.7	0.119	20	27.901	55.803	17.0	31.7	0.239
	Point 4	19	14	16.527	33.055	8.0	22.7	0.101	10	11.805	23.611	8.0	22.7	0.072	22	25.972	51.943	8.0	22.7	0.159
	Point 5	44	16	22.843	45.686	18.5	33.2	0.205	14	20.138	40.275	19.0	33.7	0.183	18	25.891	51.782	19.0	33.7	0.235
	Point 6	19	16	18.468	36.936	7.0	21.7	0.108	10	11.542	23.085	7.0	21.7	0.068	22	25.684	51.368	7.5	22.2	0.154
	Point 7	44	14	20.138	40.275	19.0	33.7	0.183	12	17.261	34.522	19.0	33.7	0.157	16	23.014	46.029	19.0	33.7	0.209
	Point 8	19	14	15.397	30.793	5.0	19.7	0.082	12	13.197	26.394	5.0	19.7	0.070	22	24.195	48.389	5.0	19.7	0.129
Total Oxygen Injected Per Day (lb)			**37.201**						**28.779**						**48.259**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 9	44	24	34.777	69.554	19.5	34.2	0.321	16	22.843	45.686	18.5	33.2	0.205	16	23.014	46.029	19.0	33.7	0.209
	Point 10	19	18	21.014	42.029	7.5	22.2	0.126	14	16.344	32.689	7.5	22.2	0.098	18	21.250	42.499	8.0	22.7	0.130
	Point 11	44	24	34.006	68.011	18.0	32.7	0.300	16	22.843	45.686	18.5	33.2	0.205	18	25.891	51.782	19.0	33.7	0.235
	Point 12	19	16	18.679	37.359	7.5	22.2	0.112	14	16.344	32.689	7.5	22.2	0.098	18	21.014	42.029	7.5	22.2	0.126
	Point 13	44	24	34.522	69.043	19.0	33.7	0.314	16	23.014	46.029	19.0	33.7	0.209	20	28.768	57.536	19.0	33.7	0.262
	Point 14	19	18	20.292	40.584	6.0	20.7	0.113	14	15.783	31.565	6.0	20.7	0.088	18	20.536	41.071	6.5	21.2	0.117
	Point 15	44	24	34.265	68.529	18.5	33.2	0.307	16	22.843	45.686	18.5	33.2	0.205	18	25.698	51.397	18.5	33.2	0.230
	Point 16	19	16	18.679	37.359	7.5	22.2	0.112	16	18.679	37.359	7.5	22.2	0.112	18	21.014	42.029	7.5	22.2	0.126
Total Oxygen Injected Per Day (lb)			**54.551**						**39.007**						**45.946**					
System Total Per Day (lb)			**91.75**						**67.79**						**94.20**					

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 2 injection banks
Oxygen is injected for 10 minutes during each injection cycle
Each injection bank operates for 12 injection cycles per day
Each injection point injects oxygen for 120 min per day (10 min per cycle * 12 cycles)

Example
Bank 1 starts injection at 7AM
Bank 1 finishes injection at 710AM
System is recharging 710AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 810AM
System is recharging 810AM to 900AM
Bank 1 starts injection at 900AM
Bank 1 finishes injection at 910AM
System is recharging from 910AM to 10AM
Bank 2 starts injection at 1000AM
Bank 2 finishes injection at 1010AM
System is recharging 1010AM to 1100AM
(Keep repeating cycle for course of day)

.

Appendix E. Table E-6
Operational Data - 29 Community Road Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q2 2013: 105,728 lbs

Oxygen to OU-2 - 29 Community Road

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jul-13	31	4,935
Month 2	Aug-13	31	7,766
Month 3	Sep-13	30	7,567
Total Operational Days in Q3 2013			92
Total Oxygen in Q3 2013 (lbs)			20,267.74
Running Total for Oxygen to 29 Community Road Through Q3 2013 (lbs)			**125,996.20**

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 4 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 6 injection cycles per day
Each injection point injects oxygen for 78 min per day (13 min per cycle * 6 cycles)

Example
Bank 1 starts injection at 7AM
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 10AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging 1013AM to 1100AM
(Keep repeating cycle for course of day)

			7/26/2013						8/26/2013						9/26/2013					
		O_2%	67.5						92.1						93					
		R	10.73						10.73						10.73					
		Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1	66	32	49.959	64.946	25.0	39.7	0.306	24	37.469	48.710	25.0	39.7	0.313	38	59.326	77.124	25.0	39.7	0.501
	Point 2	51	32	45.341	58.943	18.0	32.7	0.229	46	65.177	84.731	18.0	32.7	0.449	40	56.241	73.113	17.5	32.2	0.385
	Point 3	21	24	26.394	34.313	5.0	19.7	0.080	36	39.591	51.469	5.0	19.7	0.164	26	28.229	36.697	4.5	19.2	0.115
	Point 4	62.5	28	42.598	55.378	23.0	37.7	0.248	38	57.812	75.156	23.0	37.7	0.459	36	54.405	70.727	22.5	37.2	0.430
	Point 5	51	34	48.906	63.577	19.0	33.7	0.254	30	43.152	56.098	19.0	33.7	0.306	44	63.290	82.277	19.0	33.7	0.453
	Point 6	21	22	23.573	30.644	4.0	18.7	0.068	32	34.287	44.574	4.0	18.7	0.135	24	25.716	33.430	4.0	18.7	0.102
	Total Oxygen Injected Per Day (lb)		**37.925**						**58.436**						**63.579**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 7	66	36	40.584	52.759	6.0	20.7	0.130	38	60.068	78.089	26.0	40.7	0.515	40	62.840	81.692	25.5	40.2	0.537
	Point 8	51	36	52.545	68.309	20.0	34.7	0.281	40	58.383	75.898	20.0	34.7	0.427	40	58.383	75.898	20.0	34.7	0.431
	Point 9	32	24	30.147	39.191	11.0	25.7	0.120	28	35.171	45.723	11.0	25.7	0.190	36	44.778	58.212	10.5	25.2	0.240
	Point 10	66	28	43.714	56.828	25.0	39.7	0.268	38	59.326	77.124	25.0	39.7	0.496	32	49.959	64.946	25.0	39.7	0.422
	Point 11	51	36	51.782	67.317	19.0	33.7	0.269	42	60.413	78.537	19.0	33.7	0.429	20	28.554	37.120	18.5	33.2	0.202
	Point 12	21	24	25.716	33.430	4.0	18.7	0.074	26	28.229	36.697	4.5	19.2	0.114	26	28.594	37.172	5.0	19.7	0.120
	Total Oxygen Injected Per Day (lb)		**36.537**						**69.445**						**62.418**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 13	65	30	46.243	60.115	24.0	38.7	0.276	48	73.988	96.184	24.0	38.7	0.603	30	46.243	60.115	24.0	38.7	0.380
	Point 14	56	32	47.375	61.587	21.0	35.7	0.261	42	62.180	80.834	21.0	35.7	0.467	30	44.414	57.738	21.0	35.7	0.337
	Point 15	32	32	39.406	51.228	10.0	24.7	0.150	26	32.017	41.623	10.0	24.7	0.166	36	44.332	57.631	10.0	24.7	0.233
	Point 16	65	26	40.591	52.769	25.0	39.7	0.249	30	47.130	61.269	25.5	40.2	0.399	26	40.591	52.769	25.0	39.7	0.343
	Point 17	55	44	65.141	84.683	21.0	35.7	0.359	30	44.414	57.738	21.0	35.7	0.334	44	64.683	84.088	20.5	35.2	0.484
	Point 18	21	36	39.591	51.469	5.0	19.7	0.120	20	21.995	28.594	5.0	19.7	0.091	40	43.990	57.188	5.0	19.7	0.184
	Total Oxygen Injected Per Day (lb)		**45.284**						**65.940**						**62.758**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 19	65	10	16.933	22.012	32.0	46.7	0.166	42	68.003	88.404	28.0	42.7	0.611	40	63.617	82.702	26.5	41.2	0.552
	Point 20	45	34	46.296	60.185	15.5	30.2	0.216	28	38.126	49.564	15.5	30.2	0.242	24	32.408	42.131	15.0	29.7	0.205
	Point 21	21	36	38.573	50.145	4.0	18.7	0.111	24	25.716	33.430	4.0	18.7	0.101	30	31.712	41.225	3.5	18.2	0.123
	Point 22	65	34	54.402	70.722	27.0	41.7	0.350	28	44.801	58.242	27.0	41.7	0.393	38	60.802	79.042	27.0	41.7	0.539
	Point 23	55	36	51.782	67.317	19.0	33.7	0.269	32	46.029	59.837	19.0	33.7	0.327	42	59.963	77.952	18.5	33.2	0.423
	Point 24	21	36	39.591	51.469	5.0	19.7	0.120	22	23.886	31.051	4.5	19.2	0.097	32	34.743	45.166	4.5	19.2	0.142
	Total Oxygen Injected Per Day (lb)		**39.462**						**56.687**						**63.463**					
	System Total Per Day (lb)		**159.21**						**250.51**						**252.22**					

Appendix E. Table E-6
Operational Data - 29 Community Road Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q2 2013: 125,996 lbs

Oxygen to OU-2 - 29 Community Road

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-13	31	7,675
Month 2	Nov-13	30	7,114
Month 3	Dec-13	31	7,480
Total Operational Days in Q3 2013			92
Total Oxygen in Q3 2013 (lbs)			22,269.19
Running Total for Oxygen to 29 Community Road Through Q3 2013 (lbs)			**148,265.19**

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

System Operating Specs
Total of 4 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 6 injection cycles per day
Each injection point injects oxygen for 78 min per day (13 min per cycle * 6 cycles)

Example
Bank 1 starts injection at 7AM
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 10AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging 1013AM to 1100AM
(Keep repeating cycle for course of day)

*Oxygen purity on 10/8/13 was not recorded, so previous month's value was used in its place.

			10/8/2013*						11/22/2013						12/30/2013					
		O_2%	93.0						93.8						90.9					
		R	10.73						10.73						10.73					
		Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1	66	38	57.812	75.156	23.0	37.7	0.463	36	55.848	72.603	24.5	39.2	0.469	30	46.836	60.887	25.0	39.7	0.386
	Point 2	51	40	56.676	73.679	18.0	32.7	0.394	38	53.429	69.458	17.5	32.2	0.369	26	36.839	47.891	18.0	32.7	0.250
	Point 3	21	24	26.057	33.874	4.5	19.2	0.106	32	34.743	45.166	4.5	19.2	0.143	20	21.995	28.594	5.0	19.7	0.090
	Point 4	62.5	36	54.769	71.200	23.0	37.7	0.439	44	66.495	86.444	22.5	37.2	0.530	38	57.812	75.156	23.0	37.7	0.453
	Point 5	51	34	48.906	63.577	19.0	33.7	0.350	46	66.166	86.016	19.0	33.7	0.478	46	66.166	86.016	19.0	33.7	0.463
	Point 6	21	24	26.057	33.874	4.5	19.2	0.106	22	23.573	30.644	4.0	18.7	0.095	22	23.886	31.051	4.5	19.2	0.095
Total Oxygen Injected Per Day (lb)			**59.501**						**66.701**						**55.624**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 7	66	36	56.907	73.979	26.0	40.7	0.492	34	53.081	69.005	25.0	39.7	0.452	30	47.422	61.649	26.0	40.7	0.401
	Point 8	51	36	51.782	67.317	19.0	33.7	0.371	36	52.165	67.815	19.5	34.2	0.383	36	52.545	68.309	20.0	34.7	0.379
	Point 9	32	26	32.340	42.042	10.5	25.2	0.173	34	42.291	54.978	10.5	25.2	0.229	38	47.733	62.052	11.0	25.7	0.255
	Point 10	66	38	58.951	76.636	24.5	39.2	0.491	34	52.746	68.569	24.5	39.2	0.443	28	43.714	56.828	25.0	39.7	0.361
	Point 11	51	40	57.536	74.797	19.0	33.7	0.412	40	56.676	73.679	18.0	32.7	0.397	40	57.536	74.797	19.0	33.7	0.403
	Point 12	21	28	30.793	40.031	5.0	19.7	0.129	38	41.791	54.328	5.0	19.7	0.177	44	49.000	63.700	5.5	20.2	0.206
Total Oxygen Injected Per Day (lb)			**66.211**						**66.566**						**64.129**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 13	65	40	61.657	80.154	24.0	38.7	0.507	32	49.325	64.123	24.0	38.7	0.409	30	46.540	60.502	24.5	39.2	0.379
	Point 14	56	38	56.258	73.135	21.0	35.7	0.427	34	49.626	64.514	20.0	34.7	0.369	34	50.336	65.437	21.0	35.7	0.373
	Point 15	32	20	24.629	32.017	10.0	24.7	0.129	22	27.092	35.219	10.0	24.7	0.143	30	36.943	48.026	10.0	24.7	0.190
	Point 16	65	42	65.571	85.242	25.0	39.7	0.553	28	43.714	56.828	25.0	39.7	0.372	28	43.988	57.185	25.5	40.2	0.367
	Point 17	55	36	53.297	69.286	21.0	35.7	0.405	36	52.545	68.309	20.0	34.7	0.391	46	68.102	88.532	21.0	35.7	0.505
	Point 18	21	18	19.796	25.734	5.0	19.7	0.083	22	23.886	31.051	4.5	19.2	0.098	30	32.993	42.891	5.0	19.7	0.135
Total Oxygen Injected Per Day (lb)			**67.341**						**57.070**						**62.394**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 19	65	32	51.202	66.562	27.0	41.7	0.458	10	16.750	21.775	31.0	45.7	0.164	26	42.097	54.726	28.0	42.7	0.385
	Point 20	45	34	45.912	59.685	15.0	29.7	0.290	42	57.661	74.960	16.0	30.7	0.380	36	49.020	63.726	15.5	30.2	0.308
	Point 21	21	16	16.679	21.683	3.0	17.7	0.063	36	38.573	50.145	4.0	18.7	0.155	30	32.145	41.788	4.0	18.7	0.125
	Point 22	65	36	57.602	74.882	27.0	41.7	0.511	10	16.842	21.894	31.5	46.2	0.167	34	54.402	70.722	27.0	41.7	0.471
	Point 23	55	30	43.152	56.098	19.0	33.7	0.309	42	60.413	78.537	19.0	33.7	0.437	40	57.536	74.797	19.0	33.7	0.403
	Point 24	21	16	17.596	22.875	5.0	19.7	0.074	36	39.086	50.811	4.5	19.2	0.161	36	39.086	50.811	4.5	19.2	0.156
Total Oxygen Injected Per Day (lb)			**54.527**						**46.806**						**59.142**					
System Total Per Day (lb)			**247.58**						**237.14**						**241.29**					

Appendix E. Table E-6
Operational Data - 29 Community Road Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q4 2013: 148,265 lbs

Oxygen to OU-2 - 29 Community Road

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-14	31	7,599
Month 2	Feb-14	27	6,688
Month 3	Mar-14	28	7,078
Total Operational Days in Q1 2014			86
Total Oxygen in Q1 2014			21,364.51
Running Total for Oxygen to 29 Community Road Through Q3 2013 (lbs)			**169,629.70**

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

System Operating Specs
Total of 4 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 6 injection cycles per day
Each injection point injects oxygen for 78 min per day (13 min per cycle * 6 cycles)

Example
Bank 1 starts injection at 7AM
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 10AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging 1013AM to 1100AM
(Keep repeating cycle for course of day)

System was down for one day in February and three days in March due to a refrigerated dryer valve causing the dryer to freeze and preventing air flow.

			1/15/2014						2/11/2014						3/13/2014					
	O_2%		90.8						95.9						92.6					
	R		10.73						10.73						10.73					
	Temp R (T)		530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1	66	38	59.698	77.608	25.5	40.2	0.498	28	43.714	56.828	25.0	39.7	0.380	46	71.815	93.360	25.0	39.7	0.604
	Point 2	51	38	53.842	69.995	18.0	32.7	0.365	32	45.341	58.943	18.0	32.7	0.325	20	28.120	36.557	17.5	32.2	0.192
	Point 3	21	20	21.995	28.594	5.0	19.7	0.090	20	21.995	28.594	5.0	19.7	0.095	20	21.995	28.594	5.0	19.7	0.092
	Point 4	62.5	36	54.769	71.200	23.0	37.7	0.429	28	42.598	55.378	23.0	37.7	0.352	46	69.983	90.978	23.0	37.7	0.558
	Point 5	51	38	54.659	71.057	19.0	33.7	0.382	30	43.152	56.098	19.0	33.7	0.319	44	63.290	82.277	19.0	33.7	0.451
	Point 6	21	24	26.057	33.874	4.5	19.2	0.104	22	23.886	31.051	4.5	19.2	0.101	20	21.430	27.859	4.0	18.7	0.085
Total Oxygen Injected Per Day (lb)			**59.785**						**50.300**						**63.415**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 7	66	40	63.230	82.199	26.0	40.7	0.534	40	63.230	82.199	26.0	40.7	0.564	40	63.230	82.199	26.0	40.7	0.545
	Point 8	51	38	55.464	72.104	20.0	34.7	0.399	38	55.464	72.104	20.0	34.7	0.422	38	55.464	72.104	20.0	34.7	0.407
	Point 9	32	32	40.196	52.255	11.0	25.7	0.214	18	22.610	29.393	11.0	25.7	0.127	24	30.147	39.191	11.0	25.7	0.164
	Point 10	66	38	59.326	77.124	25.0	39.7	0.489	38	59.326	77.124	25.0	39.7	0.516	36	56.203	73.064	25.0	39.7	0.472
	Point 11	51	38	54.659	71.057	19.0	33.7	0.382	36	51.782	67.317	19.0	33.7	0.383	36	51.782	67.317	19.0	33.7	0.369
	Point 12	21	18	20.045	26.059	5.5	20.2	0.084	14	15.591	20.268	5.5	20.2	0.069	16	17.818	23.163	5.5	20.2	0.076
Total Oxygen Injected Per Day (lb)			**67.306**						**66.604**						**65.090**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 13	65	40	62.054	80.670	24.5	39.2	0.505	38	58.951	76.636	24.5	39.2	0.507	36	55.491	72.138	24.0	38.7	0.455
	Point 14	56	38	56.258	73.135	21.0	35.7	0.417	32	47.042	61.155	20.5	35.2	0.363	36	53.297	69.286	21.0	35.7	0.403
	Point 15	32	20	24.629	32.017	10.0	24.7	0.126	20	24.629	32.017	10.0	24.7	0.133	34	41.869	54.430	10.0	24.7	0.219
	Point 16	65	36	56.907	73.979	26.0	40.7	0.481	30	46.836	60.887	25.0	39.7	0.408	30	46.836	60.887	25.0	39.7	0.394
	Point 17	55	42	62.180	80.834	21.0	35.7	0.461	34	49.982	64.977	20.5	35.2	0.386	46	68.102	88.532	21.0	35.7	0.515
	Point 18	21	24	26.394	34.313	5.0	19.7	0.108	22	24.195	31.453	5.0	19.7	0.104	30	32.571	42.343	4.5	19.2	0.132
Total Oxygen Injected Per Day (lb)			**67.119**						**60.825**						**67.740**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 19	65	20	32.759	42.587	29.0	43.7	0.314	40	66.264	86.143	30.0	44.7	0.649	36	58.967	76.657	29.0	43.7	0.565
	Point 20	45	36	49.020	63.726	15.5	30.2	0.307	38	51.743	67.266	15.5	30.2	0.343	22	29.957	38.943	15.5	30.2	0.192
	Point 21	21	22	23.573	30.644	4.0	18.7	0.091	14	15.001	19.501	4.0	18.7	0.061	26	27.859	36.216	4.0	18.7	0.110
	Point 22	65	36	57.255	74.432	26.5	41.2	0.490	44	70.402	91.523	27.0	41.7	0.644	38	61.165	79.515	27.5	42.2	0.546
	Point 23	55	24	34.522	44.878	19.0	33.7	0.241	38	54.659	71.057	19.0	33.7	0.404	22	31.645	41.138	19.0	33.7	0.226
	Point 24	21	34	36.914	47.989	4.5	19.2	0.147	18	19.796	25.734	5.0	19.7	0.085	28	30.793	40.031	5.0	19.7	0.128
Total Oxygen Injected Per Day (lb)			**50.907**						**69.961**						**56.551**					
System Total Per Day (lb)			**245.12**						**247.69**						**252.80**					

Appendix E. Table E-6
Operational Data - 29 Community Road Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q1 2014: 169,630 lbs

Oxygen to OU-2 - 29 Community Road

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-14	30	5,976
Month 2	May-14	31	5,479
Month 3	Jun-14	30	5,072
Total Operational Days in Q2 2014			91
Total Oxygen in Q2 2014			16,527.31
Running Total for Oxygen to 29 Community Road Through Q2 2014 (lbs)			**186,157.01**

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 4 injection banks
Oxygen is injected for 13 minutes during each injection cycle
Each injection bank operates for 6 injection cycles per day
Each injection point injects oxygen for 78 min per day (13 min per cycle * 6 cycles)

Example
Bank 1 starts injection at 7AM
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 10AM
Bank 4 starts injection at 1000AM
Bank 4 finishes injection at 1013AM
System is recharging 1013AM to 1100AM
(Keep repeating cycle for course of day)

			4/7/2014						5/5/2014						6/13/2014					
		O_2%	90.3						91						93.6					
		R	10.73						10.73						10.73					
		Temp R (T)	628						642						643					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1	66	42	65.571	85.242	25.0	39.7	0.453	34	53.081	69.005	25.0	39.7	0.362	34	53.081	69.005	25.0	39.7	0.372
	Point 2	51	18	25.504	33.155	18.0	32.7	0.145	26	36.839	47.891	18.0	32.7	0.207	30	42.507	55.259	18.0	32.7	0.245
	Point 3	21	20	21.995	28.594	5.0	19.7	0.075	18	19.796	25.734	5.0	19.7	0.067	16	17.596	22.875	5.0	19.7	0.061
	Point 4	62.5	44	66.940	87.023	23.0	37.7	0.440	54	82.154	106.800	23.0	37.7	0.532	32	48.684	63.289	23.0	37.7	0.324
	Point 5	51	42	60.413	78.537	19.0	33.7	0.355	36	52.165	67.815	19.5	34.2	0.306	32	46.369	60.280	19.5	34.2	0.280
	Point 6	21	18	19.543	25.406	4.5	19.2	0.065	32	34.743	45.166	4.5	19.2	0.115	16	17.371	22.583	4.5	19.2	0.059
Total Oxygen Injected Per Day (lb)			**49.087**						**50.834**						**42.884**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 7	66	40	63.230	82.199	26.0	40.7	0.448	32	50.584	65.759	26.0	40.7	0.354	26	41.099	53.429	26.0	40.7	0.295
	Point 8	51	36	52.545	68.309	20.0	34.7	0.318	32	46.707	60.719	20.0	34.7	0.278	28	40.868	53.129	20.0	34.7	0.250
	Point 9	32	22	27.635	35.925	11.0	25.7	0.124	12	15.073	19.595	11.0	25.7	0.067	14	17.586	22.861	11.0	25.7	0.080
	Point 10	66	32	50.584	65.759	26.0	40.7	0.359	34	53.745	69.869	26.0	40.7	0.376	32	50.894	66.162	26.5	41.2	0.370
	Point 11	51	38	54.659	71.057	19.0	33.7	0.321	32	46.029	59.837	19.0	33.7	0.266	28	40.275	52.358	19.0	33.7	0.239
	Point 12	21	22	24.500	31.850	5.5	20.2	0.086	12	13.364	17.373	5.5	20.2	0.046	22	24.195	31.453	5.0	19.7	0.084
Total Oxygen Injected Per Day (lb)			**52.974**						**44.378**						**42.178**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 13	65	42	65.571	85.242	25.0	39.7	0.453	36	56.203	73.064	25.0	39.7	0.383	28	43.438	56.469	24.5	39.2	0.300
	Point 14	56	40	59.219	76.984	21.0	35.7	0.368	34	50.336	65.437	21.0	35.7	0.309	32	47.375	61.587	21.0	35.7	0.298
	Point 15	32	10	12.314	16.009	10.0	24.7	0.053	10	12.314	16.009	10.0	24.7	0.052	10	12.314	16.009	10.0	24.7	0.054
	Point 16	65	40	63.230	82.199	26.0	40.7	0.448	42	65.982	85.777	25.5	40.2	0.456	32	49.959	64.946	25.0	39.7	0.350
	Point 17	55	30	44.414	57.738	21.0	35.7	0.276	22	32.570	42.341	21.0	35.7	0.200	34	50.336	65.437	21.0	35.7	0.317
	Point 18	21	10	10.998	14.297	5.0	19.7	0.038	10	10.998	14.297	5.0	19.7	0.037	12	13.029	16.937	4.5	19.2	0.044
Total Oxygen Injected Per Day (lb)			**52.386**						**45.965**						**43.618**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 19	65	40	65.893	85.660	29.5	44.2	0.500	32	51.812	67.355	28.0	42.7	0.380	30	48.288	62.775	27.5	42.2	0.350
	Point 20	45	20	27.233	35.403	15.5	30.2	0.143	12	16.475	21.417	16.0	30.7	0.087	28	38.441	49.973	16.0	30.7	0.208
	Point 21	21	22	23.573	30.644	4.0	18.7	0.077	10	10.857	14.114	4.5	19.2	0.036	14	15.001	19.501	4.0	18.7	0.049
	Point 22	65	34	54.727	71.145	27.5	42.2	0.402	30	48.288	62.775	27.5	42.2	0.350	28	45.069	58.590	27.5	42.2	0.335
	Point 23	55	22	31.645	41.138	19.0	33.7	0.186	26	37.675	48.977	19.5	34.2	0.221	32	46.029	59.837	19.0	33.7	0.274
	Point 24	21	24	26.394	34.313	5.0	19.7	0.091	10	10.998	14.297	5.0	19.7	0.037	12	13.197	17.156	5.0	19.7	0.046
Total Oxygen Injected Per Day (lb)			**44.766**						**35.553**						**40.397**					
System Total Per Day (lb)			**199.21**						**176.73**						**169.08**					

Appendix F

Appendix F - Table F-1
Operational Data - 87 Community Road Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q4 2013: 14,966 lbs

Oxygen to OU-3 - 87 Community

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Jan-14	31	5,200
Month 2	Feb-14	28	4,306
Month 3	Mar-14	31	4,215
Total Operational Days in Q1 2014			90
Total Oxygen in Q1 2014 (lbs)			13,721.14
Running Total for Oxygen to 87 Community Rd Through Q1 2014 (lbs)			**28,686.81**

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

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

			1/23/2014						2/12/2014						3/12/2014					
		O_2%	93.9						91.9						82.7					
		R	10.73						10.73						10.73					
		Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	11	28	30.002	26.001	4.0	18.7	0.080	28	30.002	26.001	4.0	18.7	0.079	28	30.002	26.001	4.0	18.7	0.071
	Point 1B	21	28	33.055	28.648	8.0	22.7	0.107	26	30.694	26.601	8.0	22.7	0.098	24	28.333	24.555	8.0	22.7	0.081
	Point 1C	31	30	38.768	33.599	12.5	27.2	0.151	28	36.183	31.359	12.5	27.2	0.138	28	36.183	31.359	12.5	27.2	0.124
	Point 2A	11	28	30.002	26.001	4.0	18.7	0.080	30	32.145	27.859	4.0	18.7	0.084	20	21.430	18.572	4.0	18.7	0.051
	Point 2B	21	28	34.480	29.883	10.0	24.7	0.122	28	34.480	29.883	10.0	24.7	0.119	28	34.480	29.883	10.0	24.7	0.107
	Point 2C	31	28	35.512	30.777	11.5	26.2	0.133	30	38.048	32.975	11.5	26.2	0.140	32	40.585	35.174	11.5	26.2	0.134
	Point 3A	11	28	30.400	26.347	4.5	19.2	0.084	28	30.400	26.347	4.5	19.2	0.082	30	32.571	28.229	4.5	19.2	0.079
	Point 3B	21	32	37.777	32.740	8.0	22.7	0.123	30	35.416	30.694	8.0	22.7	0.113	26	30.694	26.601	8.0	22.7	0.088
Total Oxygen Injected Per Day (lb)			**28.163**						**27.245**						**23.497**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3C	31	28	36.514	31.646	13.0	27.7	0.145	28	36.514	31.646	13.0	27.7	0.142	32	41.731	36.167	13.0	27.7	0.146
	Point 4A	11	28	30.400	26.347	4.5	19.2	0.084	28	30.400	26.347	4.5	19.2	0.082	24	26.057	22.583	4.5	19.2	0.063
	Point 4B	21	30	35.416	30.694	8.0	22.7	0.115	32	37.777	32.740	8.0	22.7	0.120	34	40.138	34.786	8.0	22.7	0.115
	Point 4C	31	32	41.352	35.839	12.5	27.2	0.161	34	43.937	38.079	12.5	27.2	0.167	30	38.768	33.599	12.5	27.2	0.133
	Point 5A	11	30	32.145	27.859	4.0	18.7	0.086	30	32.145	27.859	4.0	18.7	0.084	20	21.714	18.819	4.5	19.2	0.053
	Point 5B	21	28	33.055	28.648	8.0	22.7	0.107	28	33.417	28.961	8.5	23.2	0.109	24	28.333	24.555	8.0	22.7	0.081
	Point 5C	31	30	39.122	33.906	13.0	27.7	0.155	30	39.122	33.906	13.0	27.7	0.152	26	33.906	29.385	13.0	27.7	0.118
	Point 6A	11	30	32.571	28.229	4.5	19.2	0.089	30	32.571	28.229	4.5	19.2	0.088	22	23.886	20.701	4.5	19.2	0.058
Total Oxygen Injected Per Day (lb)			**30.151**						**30.176**						**24.520**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 6B	21	30	34.627	30.010	7.0	21.7	0.108	30	34.627	30.010	7.0	21.7	0.105	28	32.319	28.009	7.0	21.7	0.088
	Point 6C	31	28	36.183	31.359	12.5	27.2	0.141	26	33.599	29.119	12.5	27.2	0.128	26	33.599	29.119	12.5	27.2	0.115
	Point 7A	11	28	30.793	26.688	5.0	19.7	0.087	26	28.594	24.781	5.0	19.7	0.079	30	32.993	28.594	5.0	19.7	0.082
	Point 7B	21	28	33.055	28.648	8.0	22.7	0.107	28	33.055	28.648	8.0	22.7	0.105	30	35.416	30.694	8.0	22.7	0.101
	Point 7C	31	28	36.514	31.646	13.0	27.7	0.145	30	39.122	33.906	13.0	27.7	0.152	30	39.122	33.906	13.0	27.7	0.137
	Point 8A	16	28	31.182	27.024	5.5	20.2	0.090	28	31.182	27.024	5.5	20.2	0.088	34	37.863	32.815	5.5	20.2	0.096
	Point 8B	26	28	34.480	29.883	10.0	24.7	0.122	28	34.480	29.883	10.0	24.7	0.119	34	41.869	36.286	10.0	24.7	0.130
	Point 8C	36	28	37.168	32.212	14.0	28.7	0.153	28	37.168	32.212	14.0	28.7	0.149	32	42.477	36.814	14.0	28.7	0.154
Total Oxygen Injected Per Day (lb)			**30.462**						**29.628**						**28.920**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 9A	16	30	32.993	28.594	5.0	19.7	0.093	28	30.793	26.688	5.0	19.7	0.085	26	28.594	24.781	5.0	19.7	0.071
	Point 9B	26	32	37.359	32.378	7.5	22.2	0.119	26	30.694	26.601	8.0	22.7	0.098	34	40.138	34.786	8.0	22.7	0.115
	Point 9C	36	38	50.000	43.334	13.5	28.2	0.202	30	39.474	34.211	13.5	28.2	0.156	32	42.106	36.491	13.5	28.2	0.150
	Point 10A	16	28	29.598	25.651	3.5	18.2	0.077	26	27.103	23.490	3.0	17.7	0.067	28	29.598	25.651	3.5	18.2	0.068
	Point 10B	26	26	31.692	27.466	9.5	24.2	0.110	26	31.692	27.466	9.5	24.2	0.107	34	41.443	35.917	9.5	24.2	0.126
	Point 10C	36	32	41.731	36.167	13.0	27.7	0.165	24	31.298	27.125	13.0	27.7	0.121	36	46.947	40.687	13.0	27.7	0.164
	Point 11A	16	24	26.394	22.875	5.0	19.7	0.074	22	24.195	20.969	5.0	19.7	0.067	5	5.499	4.766	5.0	19.7	0.014
	Point 11B	26	28	34.130	29.579	9.5	24.2	0.118	30	36.188	31.363	9.0	23.7	0.120	10	11.580	10.036	9.5	24.2	0.035
Total Oxygen Injected Per Day (lb)			**30.666**						**26.283**						**23.764**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 11C	36	38	50.442	43.716	14.0	28.7	0.207	40	53.096	46.017	14.0	28.7	0.213	30	39.822	34.513	14.0	28.7	0.144
	Point 12A	16	32	35.192	30.500	5.0	19.7	0.099	18	19.796	17.156	5.0	19.7	0.055	28	30.793	26.688	5.0	19.7	0.076
	Point 12B	26	32	39.005	33.805	9.5	24.2	0.135	30	35.024	30.354	7.5	22.2	0.109	30	35.024	30.354	7.5	22.2	0.098
	Point 12C	36	32	41.731	36.167	13.0	27.7	0.165	24	31.298	27.125	13.0	27.7	0.121	26	33.906	29.385	13.0	27.7	0.118
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**19.420**						**15.947**						**13.980**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 13A	16	38	42.318	36.676	5.5	20.2	0.122	32	35.636	30.885	5.5	20.2	0.101	30	33.409	28.954	5.5	20.2	0.085
	Point 13B	26	32	39.005	33.805	9.5	24.2	0.135	34	41.443	35.917	9.5	24.2	0.140	30	36.567	31.692	9.5	24.2	0.112
	Point 13C	36	32	42.477	36.814	14.0	28.7	0.174	30	39.822	34.513	14.0	28.7	0.160	30	40.168	34.812	14.5	29.2	0.148
	Point 14A	16	32	36.074	31.265	6.0	20.7	0.107	26	29.311	25.402	6.0	20.7	0.085	24	26.727	23.163	5.5	20.2	0.068
	Point 14B	26	36	44.332	38.421	10.0	24.7	0.157	28	34.480	29.883	10.0	24.7	0.119	30	37.315	32.340	10.5	25.2	0.119
	Point 14C	36	38	50.442	43.716	14.0	28.7	0.207	30	39.822	34.513	14.0	28.7	0.160	28	37.168	32.212	14.0	28.7	0.134
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**28.882**						**24.501**						**21.293**					
System Total Per Day (lb)			**167.74**						**153.78**						**135.97**					

Appendix F - Table F-1
Operational Data - 87 Community Road Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q3 2013: 0 lbs

Oxygen to OU-3 - 87 Community

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Oct-13	31	4,885
Month 2	Nov-13	30	4,675
Month 3	Dec-13	31	5,406
Total Operational Days in Q4 2013			92
Total Oxygen in Q4 2013 (lbs)			14,965.67
Running Total for Oxygen to 87 Community Rd Through Q4 2013 (lbs)			**14,965.67**

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 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 began operation on September 26, 2013.

			10/28/2013						11/22/2013						12/10/2013					
		O_2%	87.4						86.8						87.3					
		R	10.73						10.73						10.73					
		Temp R (T)	530						530						530					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	11	32	33.826	29.316	3.5	18.2	0.082	32	33.826	29.316	3.5	18.2	0.081	34	36.430	31.573	4.0	18.7	0.091
	Point 1B	21	38	44.363	38.448	7.5	22.2	0.131	34	39.694	34.401	7.5	22.2	0.117	38	44.860	38.879	8.0	22.7	0.135
	Point 1C	31	32	41.352	35.839	12.5	27.2	0.150	32	41.352	35.839	12.5	27.2	0.149	34	43.937	38.079	12.5	27.2	0.159
	Point 2A	11	38	40.168	34.813	3.5	18.2	0.097	36	38.054	32.980	3.5	18.2	0.092	40	42.859	37.145	4.0	18.7	0.107
	Point 2B	21	32	39.406	34.152	10.0	24.7	0.130	34	41.443	35.917	9.5	24.2	0.133	36	44.332	38.421	10.0	24.7	0.146
	Point 2C	31	32	40.196	34.836	11.0	25.7	0.138	30	37.684	32.659	11.0	25.7	0.128	34	43.122	37.372	11.5	26.2	0.150
	Point 3A	11	32	34.287	29.716	4.0	18.7	0.085	32	34.287	29.716	4.0	18.7	0.085	30	32.145	27.859	4.0	18.7	0.080
	Point 3B	21	32	37.359	32.378	7.5	22.2	0.110	32	37.359	32.378	7.5	22.2	0.110	36	42.499	36.833	8.0	22.7	0.128
Total Oxygen Injected Per Day (lb)			**29.551**						**28.599**						**31.874**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3C	31	30	38.768	33.599	12.5	27.2	0.140	30	38.768	33.599	12.5	27.2	0.139	30	38.768	33.599	12.5	27.2	0.140
	Point 4A	11	30	32.145	27.859	4.0	18.7	0.080	30	32.145	27.859	4.0	18.7	0.080	34	36.914	31.992	4.5	19.2	0.094
	Point 4B	21	30	34.627	30.010	7.0	21.7	0.100	32	37.359	32.378	7.5	22.2	0.110	30	35.024	30.354	7.5	22.2	0.103
	Point 4C	31	32	40.970	35.508	12.0	26.7	0.146	34	43.531	37.727	12.0	26.7	0.154	32	41.352	35.839	12.5	27.2	0.150
	Point 5A	11	28	29.598	25.651	3.5	18.2	0.072	32	33.826	29.316	3.5	18.2	0.081	40	42.859	37.145	4.0	18.7	0.107
	Point 5B	21	28	32.689	28.330	7.5	22.2	0.097	30	35.024	30.354	7.5	22.2	0.103	36	42.499	36.833	8.0	22.7	0.128
	Point 5C	31	28	35.849	31.069	12.0	26.7	0.127	32	41.352	35.839	12.5	27.2	0.149	38	49.106	42.558	12.5	27.2	0.178
	Point 6A	11	24	25.716	22.287	4.0	18.7	0.064	30	32.145	27.859	4.0	18.7	0.080	36	39.086	33.874	4.5	19.2	0.100
Total Oxygen Injected Per Day (lb)			**26.440**						**28.641**						**32.006**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 6B	21	30	34.226	29.662	6.5	21.2	0.097	34	38.789	33.617	6.5	21.2	0.109	36	41.553	36.012	7.0	21.7	0.120
	Point 6C	31	28	35.849	31.069	12.0	26.7	0.127	36	46.092	39.946	12.0	26.7	0.163	40	51.690	44.798	12.5	27.2	0.187
	Point 7A	11	30	32.571	28.229	4.5	19.2	0.083	36	39.086	33.874	4.5	19.2	0.099	36	39.591	34.313	5.0	19.7	0.104
	Point 7B	21	30	35.024	30.354	7.5	22.2	0.104	34	39.694	34.401	7.5	22.2	0.117	34	39.694	34.401	7.5	22.2	0.117
	Point 7C	31	28	36.183	31.359	12.5	27.2	0.131	32	41.352	35.839	12.5	27.2	0.149	30	39.122	33.906	13.0	27.7	0.144
	Point 8A	16	32	35.192	30.500	5.0	19.7	0.092	36	39.591	34.313	5.0	19.7	0.103	30	32.993	28.594	5.0	19.7	0.086
	Point 8B	26	30	36.567	31.692	9.5	24.2	0.118	34	41.443	35.917	9.5	24.2	0.133	30	36.943	32.017	10.0	24.7	0.121
	Point 8C	36	26	34.211	29.649	13.5	28.2	0.128	30	39.474	34.211	13.5	28.2	0.147	28	36.842	31.930	13.5	28.2	0.138
Total Oxygen Injected Per Day (lb)			**28.185**						**32.617**						**32.586**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 9A	16	36	39.086	33.874	4.5	19.2	0.100	28	30.400	26.347	4.5	19.2	0.077	38	41.791	36.219	5.0	19.7	0.110
	Point 9B	26	36	42.029	36.425	7.5	22.2	0.124	30	35.024	30.354	7.5	22.2	0.103	34	40.138	34.786	8.0	22.7	0.121
	Point 9C	36	40	52.163	45.208	13.0	27.7	0.192	30	39.122	33.906	13.0	27.7	0.143	34	44.339	38.427	13.0	27.7	0.163
	Point 10A	16	32	33.358	28.910	3.0	17.7	0.079	26	27.103	23.490	3.0	17.7	0.063	34	35.443	30.717	3.0	17.7	0.083
	Point 10B	26	32	39.005	33.805	9.5	24.2	0.126	36	43.881	38.030	9.5	24.2	0.140	28	34.130	29.579	9.5	24.2	0.110
	Point 10C	36	34	43.937	38.079	12.5	27.2	0.159	26	33.599	29.119	12.5	27.2	0.121	38	49.555	42.948	13.0	27.7	0.183
	Point 11A	16	34	36.914	31.992	4.5	19.2	0.094	28	30.400	26.347	4.5	19.2	0.077	36	39.591	34.313	5.0	19.7	0.104
	Point 11B	26	34	41.013	35.544	9.0	23.7	0.129	32	38.600	33.453	9.0	23.7	0.121	32	38.600	33.453	9.0	23.7	0.122
Total Oxygen Injected Per Day (lb)			**32.131**						**27.087**						**31.859**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 11C	36	34	44.737	38.772	13.5	28.2	0.168	30	39.474	34.211	13.5	28.2	0.147	42	55.264	47.895	13.5	28.2	0.207
	Point 12A	16	40	43.429	37.638	4.5	19.2	0.111	28	30.400	26.347	4.5	19.2	0.077	42	46.190	40.031	5.0	19.7	0.121
	Point 12B	26	30	34.627	30.010	7.0	21.7	0.100	32	36.936	32.011	7.0	21.7	0.106	32	37.359	32.378	7.5	22.2	0.110
	Point 12C	36	32	41.352	35.839	12.5	27.2	0.150	32	41.352	35.839	12.5	27.2	0.149	42	54.771	47.469	13.0	27.7	0.202
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Total Oxygen Injected Per Day (lb)			**16.928**						**15.337**						**20.499**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 13A	16	32	35.192	30.500	5.0	19.7	0.092	32	35.192	30.500	5.0	19.7	0.092	34	37.863	32.815	5.5	20.2	0.102
	Point 13B	26	32	38.600	33.453	9.0	23.7	0.122	32	38.191	33.099	8.5	23.2	0.117	32	39.005	33.805	9.5	24.2	0.126
	Point 13C	36	32	42.477	36.814	14.0	28.7	0.162	32	42.477	36.814	14.0	28.7	0.161	32	42.477	36.814	14.0	28.7	0.162
	Point 14A	16	34	37.863	32.815	5.5	20.2	0.102	32	35.636	30.885	5.5	20.2	0.095	36	40.091	34.745	5.5	20.2	0.108
	Point 14B	26	32	39.406	34.152	10.0	24.7	0.130	28	34.130	29.579	9.5	24.2	0.109	32	39.406	34.152	10.0	24.7	0.129
	Point 14C	36	30	39.822	34.513	14.0	28.7	0.152	32	42.477	36.814	14.0	28.7	0.161	34	45.132	39.114	14.0	28.7	0.172
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Oxygen Injected Per Day (lb)			**24.330**						**23.549**						**25.571**					
System Total Per Day (lb)			**157.57**						**155.83**						**174.39**					

Appendix F - Table F-1
Operational Data - 87 Community Road Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Weight of Oxygen Injected through Q1 2014: 28,687 lbs

Oxygen to OU-3 - 87 Community

	Operational Days		Oxygen Injected Per Month (lbs)
Month 1	Apr-14	30	4,433
Month 2	May-14	31	3,644
Month 3	Jun-14	30	3,045
Total Operational Days in Q2 2014			91
Total Oxygen in Q2 2014 (lbs)			11,121.04
Running Total for Oxygen to 87 Community Rd Through Q2 2014 (lbs)			**39,807.85**

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)

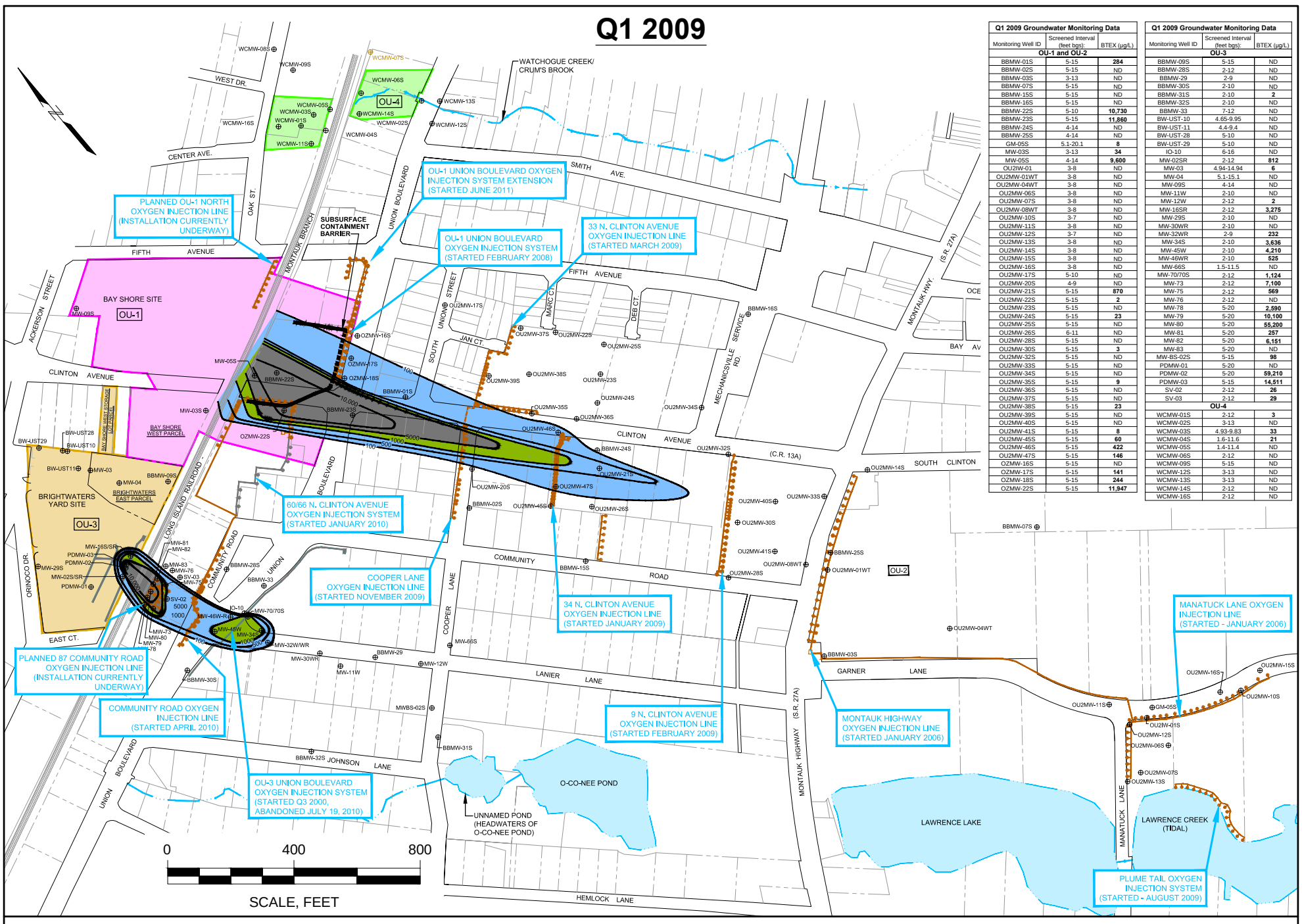
Example
Bank 1 starts injection at 700AM
Bank 1 finishes injection at 716AM
System is recharging 716AM to 800AM
Bank 2 starts injection at 800AM
Bank 2 finishes injection at 816AM
System is recharging 816AM to 900AM
Bank 3 starts injection at 900AM
Bank 3 finishes injection at 916AM
System is recharging 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)

note: April check done on March 31st

			3/31/2014						5/9/2014						6/3/2014					
		O_2%	86.4						83.5						86.1					
		R	10.73						10.73						10.73					
		Temp R (T)	607						632						602					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 1	Point 1A	11	30	32.571	28.229	4.5	19.2	0.072	28	30.400	26.347	4.5	19.2	0.062	20	21.430	18.572	4.0	18.7	0.046
	Point 1B	21	34	41.013	35.544	9.0	23.7	0.112	24	28.643	24.824	8.5	23.2	0.071	18	21.482	18.618	8.5	23.2	0.058
	Point 1C	31	32	41.731	36.167	13.0	27.7	0.133	28	36.514	31.646	13.0	27.7	0.108	24	31.298	27.125	13.0	27.7	0.100
	Point 2A	11	38	41.791	36.219	5.0	19.7	0.095	20	21.430	18.572	4.0	18.7	0.043	16	17.144	14.858	4.0	18.7	0.037
	Point 2B	21	30	37.684	32.659	11.0	25.7	0.111	28	34.828	30.184	10.5	25.2	0.094	24	29.555	25.614	10.0	24.7	0.084
	Point 2C	31	32	40.970	35.508	12.0	26.7	0.126	32	40.970	35.508	12.0	26.7	0.117	28	35.849	31.069	12.0	26.7	0.111
	Point 3A	11	32	35.192	30.500	5.0	19.7	0.080	28	30.400	26.347	4.5	19.2	0.062	20	21.714	18.819	4.5	19.2	0.048
	Point 3B	21	32	38.191	33.099	8.5	23.2	0.102	26	31.030	26.893	8.5	23.2	0.077	20	23.611	20.463	8.0	22.7	0.062
	Total Oxygen Injected Per Day (lb)		**26.556**						**20.269**						**17.473**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 3C	31	28	36.842	31.930	13.5	28.2	0.119	32	42.106	36.491	13.5	28.2	0.127	26	33.906	29.385	13.0	27.7	0.108
	Point 4A	11	34	37.392	32.406	5.0	19.7	0.085	22	24.195	20.969	5.0	19.7	0.051	18	19.543	16.937	4.5	19.2	0.043
	Point 4B	21	30	35.804	31.030	8.5	23.2	0.095	32	37.777	32.740	8.0	22.7	0.092	30	35.416	30.694	8.0	22.7	0.093
	Point 4C	31	28	36.514	31.646	13.0	27.7	0.116	30	39.122	33.906	13.0	27.7	0.116	28	36.514	31.646	13.0	27.7	0.117
	Point 5A	11	38	41.791	36.219	5.0	19.7	0.095	18	19.543	16.937	4.5	19.2	0.040	16	17.144	14.858	4.0	18.7	0.037
	Point 5B	21	32	38.600	33.453	9.0	23.7	0.105	26	31.030	26.893	8.5	23.2	0.077	16	19.095	16.549	8.5	23.2	0.051
	Point 5C	31	34	44.737	38.772	13.5	28.2	0.145	28	36.514	31.646	13.0	27.7	0.108	18	23.473	20.344	13.0	27.7	0.075
	Point 6A	11	34	37.392	32.406	5.0	19.7	0.085	26	28.594	24.781	5.0	19.7	0.060	18	19.543	16.937	4.5	19.2	0.043
	Total Oxygen Injected Per Day (lb)		**27.055**						**21.429**						**18.183**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 6B	21	32	37.359	32.378	7.5	22.2	0.095	28	32.689	28.330	7.5	22.2	0.077	22	25.393	22.007	7.0	21.7	0.064
	Point 6C	31	32	41.731	36.167	13.0	27.7	0.133	20	25.845	22.399	12.5	27.2	0.075	16	20.676	17.919	12.5	27.2	0.065
	Point 7A	11	34	38.329	33.219	6.0	20.7	0.091	24	26.394	22.875	5.0	19.7	0.055	20	21.995	19.063	5.0	19.7	0.050
	Point 7B	21	32	38.600	33.453	9.0	23.7	0.105	28	33.417	28.961	8.5	23.2	0.083	24	28.333	24.555	8.0	22.7	0.074
	Point 7C	31	30	39.474	34.211	13.5	28.2	0.128	28	36.842	31.930	13.5	28.2	0.111	26	33.906	29.385	13.0	27.7	0.108
	Point 8A	16	36	40.584	35.173	6.0	20.7	0.097	30	33.820	29.311	6.0	20.7	0.075	24	26.727	23.163	5.5	20.2	0.062
	Point 8B	26	34	42.291	36.652	10.5	25.2	0.123	32	39.803	34.496	10.5	25.2	0.107	22	27.092	23.479	10.0	24.7	0.077
	Point 8C	36	34	45.523	39.454	14.5	29.2	0.153	30	39.822	34.513	14.0	28.7	0.122	28	37.168	32.212	14.0	28.7	0.123
	Total Oxygen Injected Per Day (lb)		**29.586**						**22.568**						**19.980**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 9A	16	28	31.565	27.356	6.0	20.7	0.075	20	22.273	19.303	5.5	20.2	0.048	22	24.195	20.969	5.0	19.7	0.055
	Point 9B	26	28	33.775	29.272	9.0	23.7	0.092	30	35.804	31.030	8.5	23.2	0.089	24	28.333	24.555	8.0	22.7	0.074
	Point 9C	36	28	37.168	32.212	14.0	28.7	0.123	28	36.842	31.930	13.5	28.2	0.111	26	34.211	29.649	13.5	28.2	0.111
	Point 10A	16	40	42.859	37.145	4.0	18.7	0.092	24	25.369	21.987	3.5	18.2	0.049	24	25.369	21.987	3.5	18.2	0.053
	Point 10B	26	24	29.852	25.872	10.5	25.2	0.086	36	44.332	38.421	10.0	24.7	0.117	28	34.480	29.883	10.0	24.7	0.098
	Point 10C	36	28	37.168	32.212	14.0	28.7	0.123	18	23.684	20.526	13.5	28.2	0.071	18	23.684	20.526	13.5	28.2	0.077
	Point 11A	16	30	33.409	28.954	5.5	20.2	0.078	22	24.500	21.233	5.5	20.2	0.053	20	21.995	19.063	5.0	19.7	0.050
	Point 11B	26	28	34.480	29.883	10.0	24.7	0.098	36	43.881	38.030	9.5	24.2	0.113	24	29.254	25.353	9.5	24.2	0.082
	Total Oxygen Injected Per Day (lb)		**24.530**						**20.834**						**19.249**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 5	Point 11C	36	30	40.168	34.812	14.5	29.2	0.135	26	34.812	30.170	14.5	29.2	0.108	26	34.513	29.911	14.0	28.7	0.114
	Point 12A	16	60	67.640	58.621	6.0	20.7	0.161	26	28.954	25.094	5.5	20.2	0.062	26	28.594	24.781	5.0	19.7	0.065
	Point 12B	26	28	33.417	28.961	8.5	23.2	0.089	32	37.777	32.740	8.0	22.7	0.092	24	28.019	24.283	7.5	22.2	0.072
	Point 12C	36	28	36.842	31.930	13.5	28.2	0.119	50	65.790	57.018	13.5	28.2	0.198	28	36.842	31.930	13.5	28.2	0.120
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	Total Oxygen Injected Per Day (lb)		**16.141**						**14.732**						**11.884**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 6	Point 13A	16	32	36.074	31.265	6.0	20.7	0.086	28	31.182	27.024	5.5	20.2	0.067	22	24.500	21.233	5.5	20.2	0.057
	Point 13B	26	36	44.332	38.421	10.0	24.7	0.126	30	36.943	32.017	10.0	24.7	0.097	22	26.816	23.241	9.5	24.2	0.075
	Point 13C	36	32	43.211	37.449	15.0	29.7	0.148	30	40.168	34.812	14.5	29.2	0.125	26	34.812	30.170	14.5	29.2	0.117
	Point 14A	16	46	52.480	45.482	6.5	21.2	0.128	22	24.801	21.494	6.0	20.7	0.055	20	22.273	19.303	5.5	20.2	0.052
	Point 14B	26	32	39.803	34.496	10.5	25.2	0.115	30	37.315	32.340	10.5	25.2	0.100	22	27.092	23.479	10.0	24.7	0.077
	Point 14C	36	32	42.846	37.133	14.5	29.2	0.144	26	34.812	30.170	14.5	29.2	0.108	18	24.101	20.887	14.5	29.2	0.081
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Total Oxygen Injected Per Day (lb)		**23.883**						**17.708**						**14.724**					
	System Total Per Day (lb)		**147.75**						**117.54**						**101.49**					

Appendix G

Q1 2009



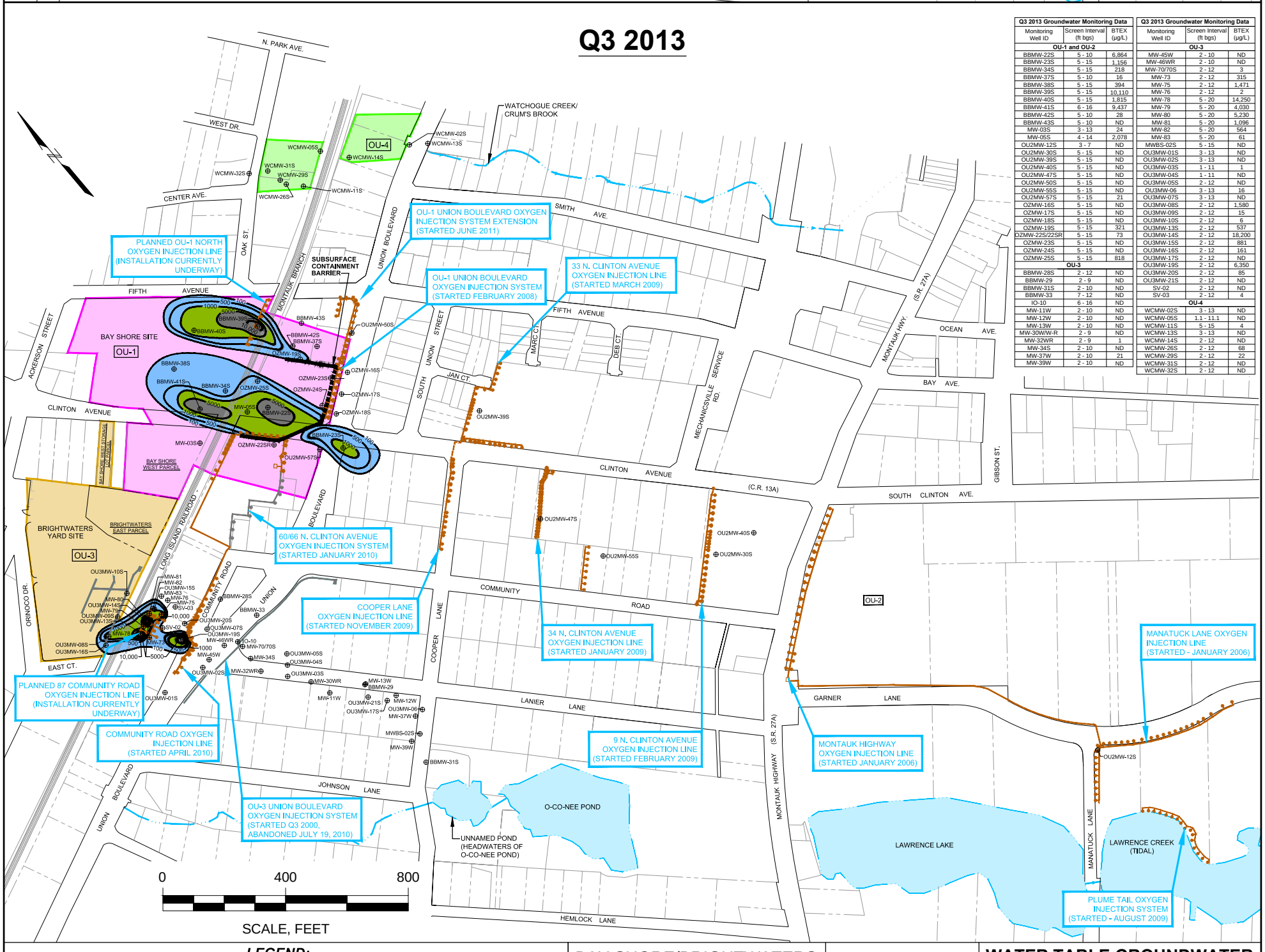
Q1 2009 Groundwater Monitoring Data

Monitoring Well ID	Screened Interval (feet bgs):	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01S	5-15	**284**
BBMW-02S	5-15	ND
BBMW-03S	3-13	ND
BBMW-07S	5-15	ND
BBMW-15S	5-15	ND
BBMW-16S	5-15	ND
BBMW-22S	5-10	**10,730**
BBMW-23S	5-15	**11,860**
BBMW-24S	4-14	ND
BBMW-25S	4-14	ND
GM-05S	5.1-20.1	**8**
MW-03S	3-13	**34**
MW-05S	4-14	**9,600**
OU2IW-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	**23**
OU2MW-39S	5-15	ND
OU2MW-40S	5-15	ND
OU2MW-41S	5-15	**8**
OU2MW-45S	5-15	**60**
OU2MW-46S	5-15	**422**
OU2MW-47S	5-15	**146**
OZMW-16S	5-15	ND
OZMW-17S	5-15	**141**
OZMW-18S	5-15	**244**
OZMW-22S	5-15	**11,947**

Q1 2009 Groundwater Monitoring Data

Monitoring Well ID	Screened Interval (feet bgs):	BTEX (µg/L)
OU-3		
BBMW-09S	5-15	ND
BBMW-28S	2-12	ND
BBMW-29	2-9	ND
BBMW-30S	2-10	ND
BBMW-31S	2-10	**2**
BBMW-32S	2-10	ND
BBMW-33	7-12	ND
BW-UST-10	4.65-9.95	ND
BW-UST-11	4.4-9.4	ND
BW-UST-28	5-10	ND
BW-UST-29	5-10	ND
IO-10	6-16	ND
MW-02SR	2-12	**812**
MW-03	4.94-14.94	**6**
MW-04	5.1-15.1	ND
MW-09S	4-14	ND
MW-11W	2-10	ND
MW-12W	2-12	**2**
MW-16SR	2-12	**3,275**
MW-29S	2-10	ND
MW-30WR	2-10	ND
MW-32WR	2-9	**232**
MW-34S	2-10	**3,636**
MW-45W	2-10	**4,210**
MW-46WR	2-10	**525**
MW-66S	1.5-11.5	ND
MW-70/70S	2-12	**1,124**
MW-73	2-12	**7,100**
MW-75	2-12	**569**
MW-76	2-12	ND
MW-78	5-20	**2,590**
MW-79	5-20	**10,100**
MW-80	5-20	**55,200**
MW-81	5-20	**257**
MW-82	5-20	**6,151**
MW-83	5-20	ND
MW-BS-02S	5-15	**98**
PDMW-01	5-20	ND
PDMW-02	5-20	**59,210**
PDMW-03	5-15	**14,511**
SV-02	2-12	**26**
SV-03	2-12	**29**
OU-4		
WCMW-01S	2-12	**3**
WCMW-02S	3-13	ND
WCMW-03S	4.93-9.83	**33**
WCMW-04S	1.6-11.6	**21**
WCMW-05S	1.4-11.4	ND
WCMW-06S	2-12	ND
WCMW-09S	5-15	ND
WCMW-12S	3-13	ND
WCMW-13S	3-13	ND
WCMW-14S	2-12	ND
WCMW-16S	2-12	ND

Q3 2013



Q3 2013 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-22S	5 - 10	6,864
BBMW-23S	5 - 15	1,156
BBMW-34S	5 - 15	218
BBMW-37S	5 - 10	16
BBMW-38S	5 - 15	394
BBMW-39S	5 - 15	10,110
BBMW-40S	5 - 15	1,815
BBMW-41S	6 - 16	9,437
BBMW-42S	5 - 10	28
BBMW-43S	5 - 10	ND
MW-03S	3 - 13	24
MW-05S	4 - 14	2,078
OU2MW-12S	3 - 7	ND
OU2MW-30S	5 - 15	ND
OU2MW-39S	5 - 15	ND
OU2MW-40S	5 - 15	ND
OU2MW-47S	5 - 15	ND
OU2MW-50S	5 - 15	ND
OU2MW-55S	5 - 15	ND
OU2MW-57S	5 - 15	21
OZMW-16S	5 - 15	ND
OZMW-17S	5 - 15	ND
OZMW-18S	5 - 15	ND
OZMW-19S	5 - 15	321
OZMW-22S/22SR	5 - 15	73
OZMW-23S	5 - 15	ND
OZMW-24S	5 - 15	ND
OZMW-25S	5 - 15	818
OU-3		
BBMW-28S	2 - 12	ND
BBMW-29	2 - 9	ND
BBMW-31S	2 - 10	ND
BBMW-33	7 - 12	ND
IO-10	6 - 16	ND
MW-11W	2 - 10	ND
MW-12W	2 - 10	ND
MW-13W	2 - 10	ND
MW-30W/W-R	2 - 9	ND
MW-32WR	2 - 9	1
MW-34S	2 - 10	ND
MW-37W	2 - 10	21
MW-39W	2 - 10	ND

Q3 2013 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-3		
MW-45W	2 - 10	ND
MW-46WR	2 - 10	ND
MW-70/70S	2 - 12	3
MW-73	2 - 12	315
MW-75	2 - 12	1,471
MW-76	2 - 12	2
MW-78	5 - 20	14,250
MW-79	5 - 20	4,030
MW-80	5 - 20	5,230
MW-81	5 - 20	1,096
MW-82	5 - 20	564
MW-83	5 - 20	61
MWBS-02S	5 - 15	ND
OU3MW-01S	3 - 13	ND
OU3MW-02S	3 - 13	ND
OU3MW-03S	1 - 11	1
OU3MW-04S	1 - 11	ND
OU3MW-05S	2 - 12	ND
OU3MW-06	3 - 13	16
OU3MW-07S	3 - 13	ND
OU3MW-08S	2 - 12	1,580
OU3MW-09S	2 - 12	15
OU3MW-10S	2 - 12	6
OU3MW-13S	2 - 12	537
OU3MW-14S	2 - 12	18,200
OU3MW-15S	2 - 12	881
OU3MW-16S	2 - 12	161
OU3MW-17S	2 - 12	ND
OU3MW-19S	2 - 12	6,350
OU3MW-20S	2 - 12	85
OU3MW-21S	2 - 12	ND
SV-02	2 - 12	ND
SV-03	2 - 12	4
OU-4		
WCMW-02S	3 - 13	ND
WCMW-05S	1.1 - 11.1	ND
WCMW-11S	5 - 15	4
WCMW-13S	3 - 13	ND
WCMW-14S	2 - 12	ND
WCMW-26S	2 - 12	68
WCMW-29S	2 - 12	22
WCMW-31S	2 - 12	ND
WCMW-32S	2 - 12	ND

LEGEND:

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

NOTE:

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

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

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Project 093180-5-1506

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

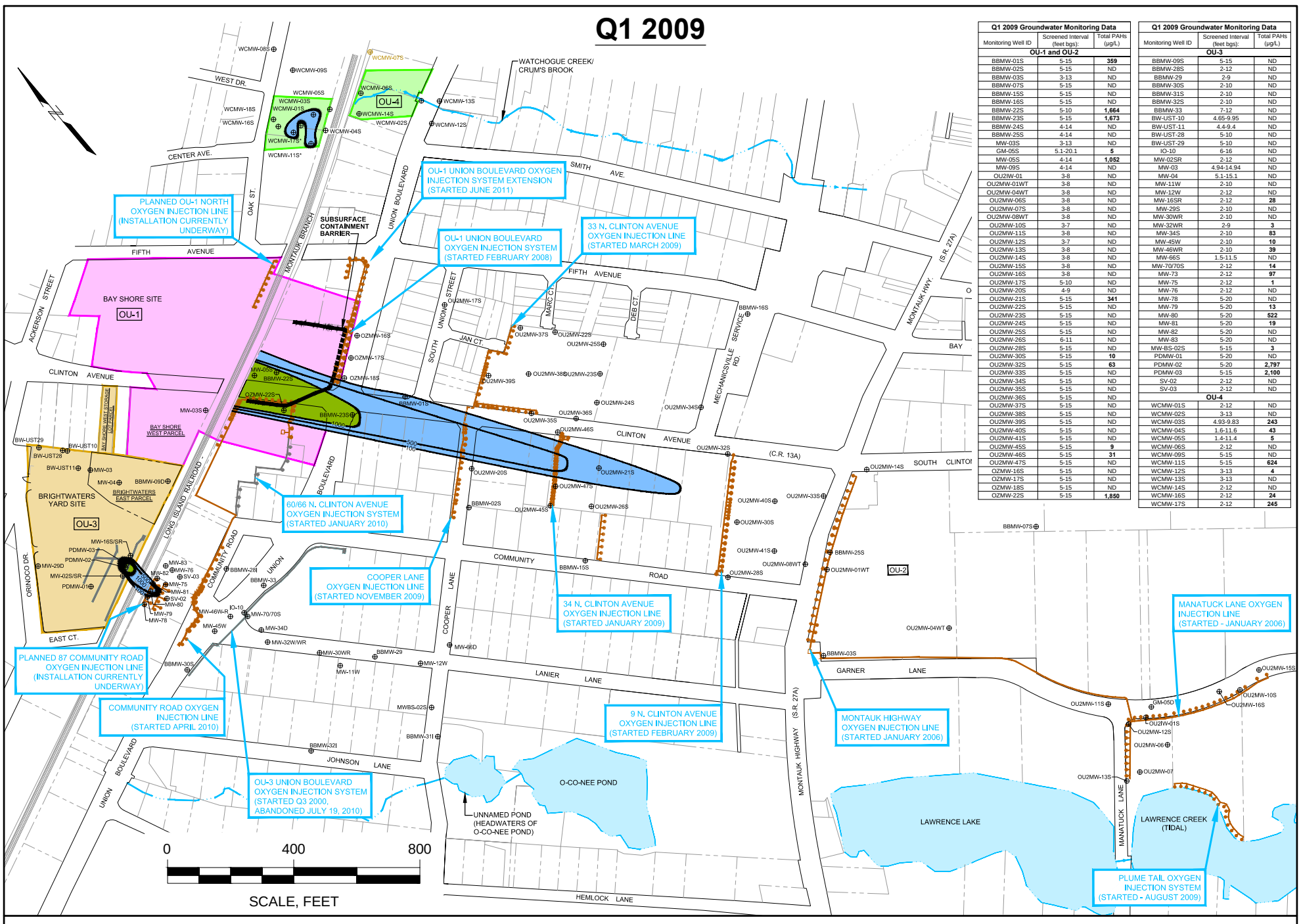
January 2014 Figure 3

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2013\ISO-Concentrations\ BAY SHORE-BTEX & PAH PLUMES Q3-2013.dwg \Dec 30, 2013

Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01S	5-15	**359**
BBMW-02S	5-15	ND
BBMW-03S	3-13	ND
BBMW-07S	5-15	ND
BBMW-15S	5-15	ND
BBMW-16S	5-15	ND
BBMW-22S	5-10	**1,664**
BBMW-23S	5-15	**1,673**
BBMW-24S	4-14	ND
BBMW-25S	4-14	ND
MW-03S	3-13	ND
GM-05S	5.1-20.1	**5**
MW-05S	4-14	**1,052**
MW-09S	4-14	ND
OU2IW-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	**341**
OU2MW-22S	5-15	ND
OU2MW-23S	5-15	ND
OU2MW-24S	5-15	ND
OU2MW-25S	5-15	ND
OU2MW-26S	6-11	ND
OU2MW-28S	5-15	ND
OU2MW-30S	5-15	**10**
OU2MW-32S	5-15	**63**
OU2MW-33S	5-15	ND
OU2MW-34S	5-15	ND
OU2MW-35S	5-15	ND
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	ND
OU2MW-45S	5-15	**9**
OU2MW-46S	5-15	**31**
OU2MW-47S	5-15	ND
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-22S	5-15	**1,850**

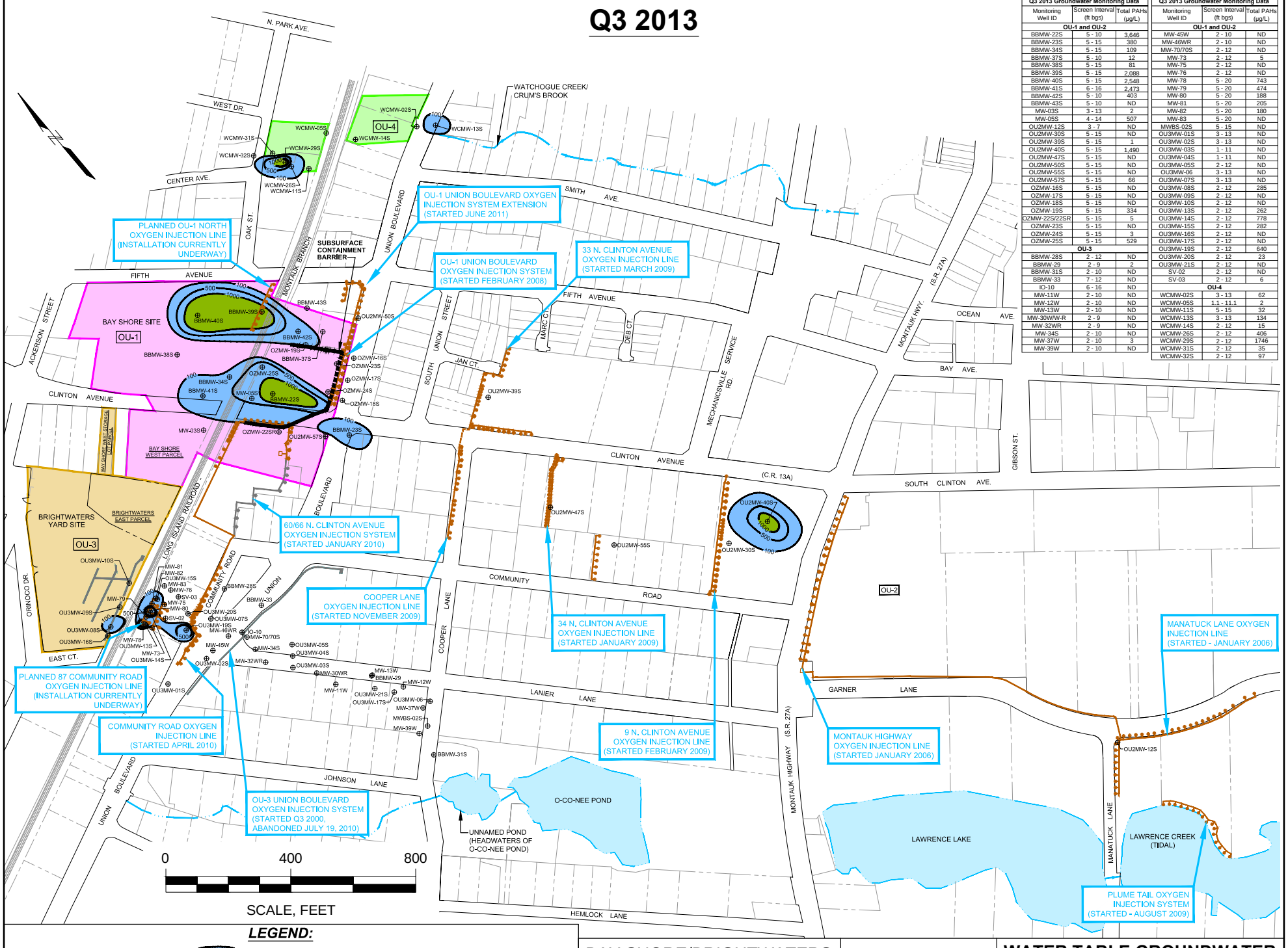
Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-3		
BBMW-09S	5-15	ND
BBMW-28S	2-12	ND
BBMW-29	2-9	ND
BBMW-30S	2-10	ND
BBMW-31S	2-10	ND
BBMW-32S	2-10	ND
BBMW-33	7-12	ND
BW-UST-10	4.65-9.95	ND
BW-UST-11	4.4-9.4	ND
BW-UST-28	5-10	ND
BW-UST-29	5-10	ND
IO-10	6-16	ND
MW-02SR	2-12	ND
MW-03	4.94-14.94	ND
MW-04	5.1-15.1	ND
MW-11W	2-10	ND
MW-12W	2-12	ND
MW-16SR	2-12	**28**
MW-29S	2-10	ND
MW-30WR	2-10	ND
MW-32WR	2-9	**3**
MW-34S	2-10	**83**
MW-45W	2-10	**10**
MW-46WR	2-10	**39**
MW-66S	1.5-11.5	ND
MW-70/70S	2-12	**14**
MW-73	2-12	**97**
MW-75	2-12	**1**
MW-76	2-12	ND
MW-78	5-20	ND
MW-79	5-20	**13**
MW-80	5-20	**522**
MW-81	5-20	**19**
MW-82	5-20	ND
MW-83	5-20	ND
MW-BS-02S	5-15	**3**
PDMW-01	5-20	ND
PDMW-02	5-20	**2,797**
PDMW-03	5-15	**2,100**
SV-02	2-12	ND
SV-03	2-12	ND
OU-4		
WCMW-01S	2-12	ND
WCMW-02S	3-13	ND
WCMW-03S	4.93-9.83	**243**
WCMW-04S	1.6-11.6	**43**
WCMW-05S	1.4-11.4	**5**
WCMW-06S	2-12	ND
WCMW-09S	5-15	ND
WCMW-11S	5-15	**624**
WCMW-12S	3-13	**4**
WCMW-13S	3-13	ND
WCMW-14S	2-12	ND
WCMW-16S	2-12	**24**
WCMW-17S	2-12	**245**



Q3 2013

Q3 2013 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-22S	5 - 10	3,646
BBMW-23S	5 - 15	380
BBMW-34S	5 - 15	109
BBMW-37S	5 - 10	12
BBMW-38S	5 - 15	81
BBMW-39S	5 - 15	2,088
BBMW-40S	5 - 15	2,548
BBMW-41S	6 - 16	2,473
BBMW-42S	5 - 10	403
BBMW-43S	5 - 10	ND
MW-03S	3 - 13	2
MW-05S	4 - 14	507
OU2MW-12S	3 - 7	ND
OU2MW-30S	5 - 15	ND
OU2MW-39S	5 - 15	1
OU2MW-40S	5 - 15	1,490
OU2MW-47S	5 - 15	ND
OU2MW-50S	5 - 15	ND
OU2MW-55S	5 - 15	ND
OU2MW-57S	5 - 15	66
OZMW-16S	5 - 15	ND
OZMW-17S	5 - 15	ND
OZMW-18S	5 - 15	ND
OZMW-19S	5 - 15	334
OZMW-22S/22SR	5 - 15	5
OZMW-23S	5 - 15	ND
OZMW-24S	5 - 15	3
OZMW-25S	5 - 15	529
OU-3		
BBMW-28S	2 - 12	ND
BBMW-29	2 - 9	2
BBMW-31S	2 - 10	ND
BBMW-33	7 - 12	ND
IO-10	6 - 16	ND
MW-11W	2 - 10	ND
MW-12W	2 - 10	ND
MW-13W	2 - 10	ND
MW-30W/W-R	2 - 9	ND
MW-32WR	2 - 9	ND
MW-34S	2 - 10	ND
MW-37W	2 - 10	3
MW-39W	2 - 10	ND

Q3 2013 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
MW-45W	2 - 10	ND
MW-46WR	2 - 10	ND
MW-70/70S	2 - 12	ND
MW-73	2 - 12	5
MW-75	2 - 12	ND
MW-76	2 - 12	ND
MW-78	5 - 20	743
MW-79	5 - 20	474
MW-80	5 - 20	188
MW-81	5 - 20	205
MW-82	5 - 20	180
MW-83	5 - 20	ND
MWBS-02S	5 - 15	ND
OU3MW-01S	3 - 13	ND
OU3MW-02S	3 - 13	ND
OU3MW-03S	1 - 11	ND
OU3MW-04S	1 - 11	ND
OU3MW-05S	2 - 12	ND
OU3MW-06	3 - 13	ND
OU3MW-07S	3 - 13	ND
OU3MW-08S	2 - 12	285
OU3MW-09S	2 - 12	ND
OU3MW-10S	2 - 12	ND
OU3MW-13S	2 - 12	262
OU3MW-14S	2 - 12	778
OU3MW-15S	2 - 12	282
OU3MW-16S	2 - 12	ND
OU3MW-17S	2 - 12	ND
OU3MW-19S	2 - 12	640
OU3MW-20S	2 - 12	23
OU3MW-21S	2 - 12	ND
SV-02	2 - 12	ND
SV-03	2 - 12	6
OU-4		
WCMW-02S	3 - 13	62
WCMW-05S	1.1 - 11.1	2
WCMW-11S	5 - 15	32
WCMW-13S	3 - 13	134
WCMW-14S	2 - 12	15
WCMW-26S	2 - 12	406
WCMW-29S	2 - 12	1746
WCMW-31S	2 - 12	35
WCMW-32S	2 - 12	97



LEGEND:

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

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

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

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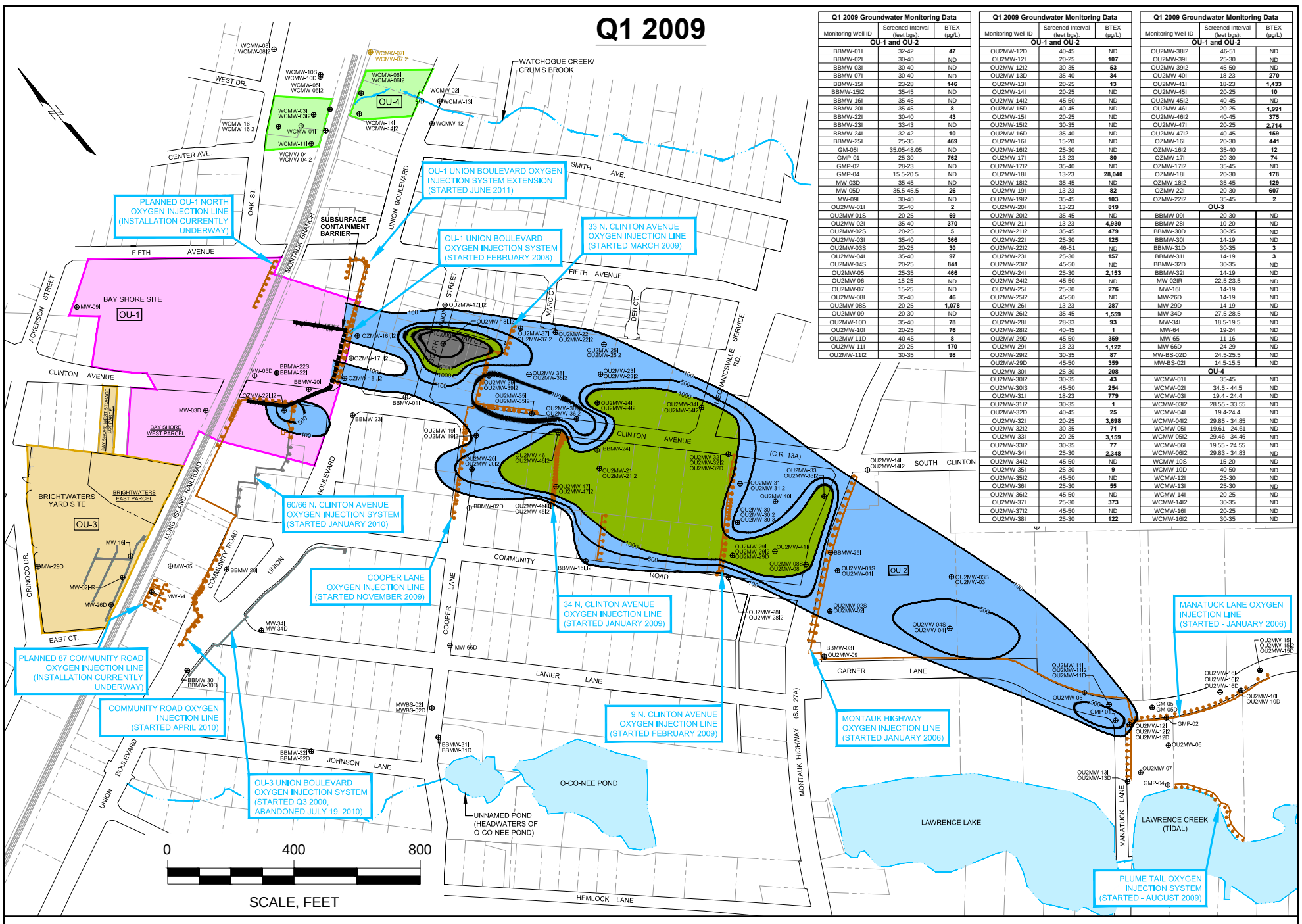
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WATER TABLE GROUNDWATER PAH ISO-CONCENTRATION MAPS (0-10 FEET BGS)

Project 093180-5-1506 | January 2014 | Figure 4

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2013\ISO-Concentrations\ BAY SHORE-BTEX & PAH PLUMES Q3-2013.dwg \Dec 30, 2013

Q1 2009



Q1 2009 Groundwater Monitoring Data

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

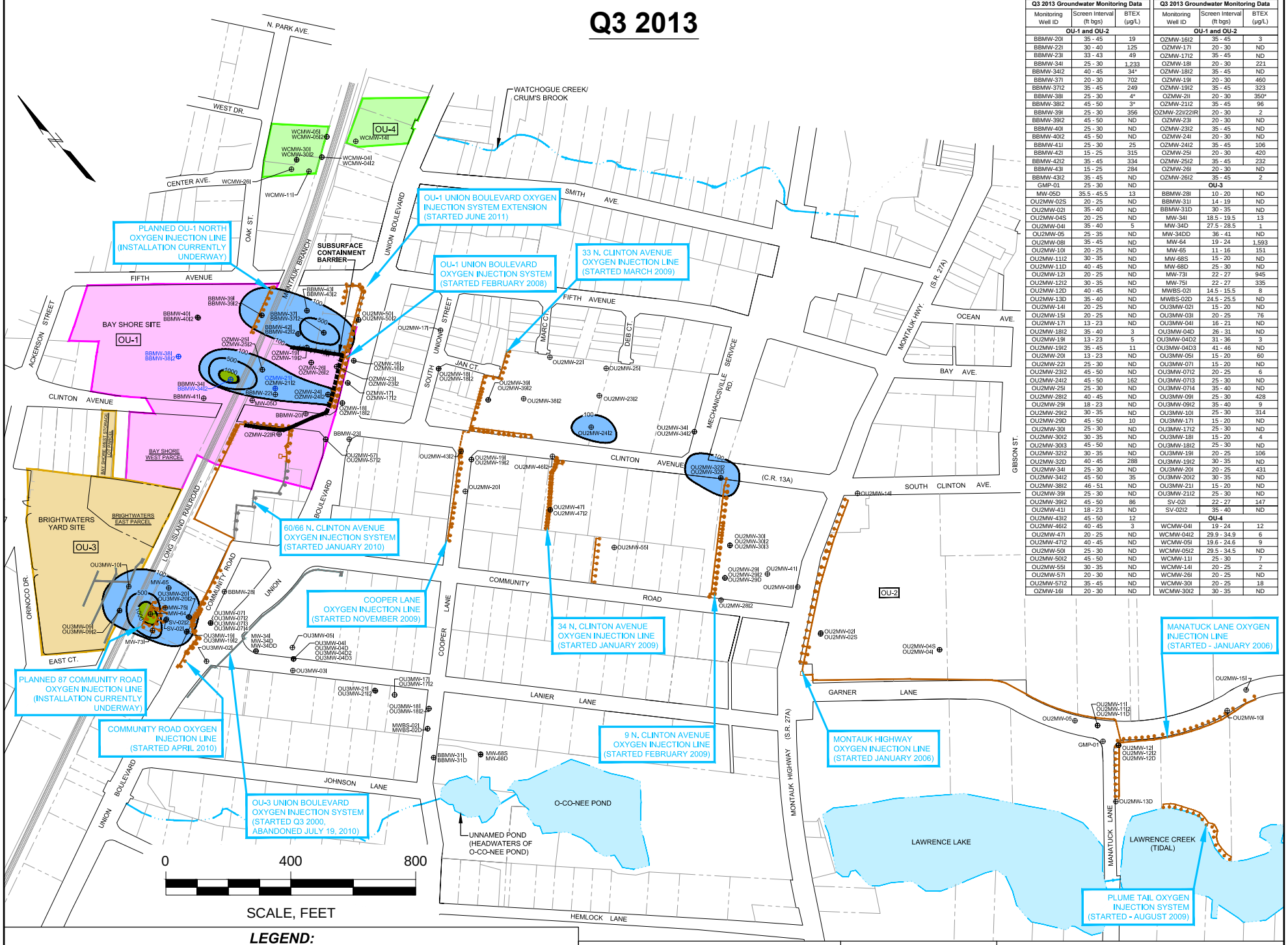
Q1 2009 Groundwater Monitoring Data

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

Q1 2009 Groundwater Monitoring Data

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

Q3 2013



Q3 2013 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-20I	35 - 45	19
BBMW-22I	30 - 40	125
BBMW-23I	33 - 43	49
BBMW-34I	25 - 30	1,233
BBMW-34I2	40 - 45	34*
BBMW-37I	20 - 30	702
BBMW-37I2	35 - 45	249
BBMW-38I	25 - 30	4*
BBMW-38I2	45 - 50	3*
BBMW-39I	25 - 30	356
BBMW-39I2	45 - 50	ND
BBMW-40I	25 - 30	ND
BBMW-40I2	45 - 50	ND
BBMW-41I	25 - 30	25
BBMW-42I	15 - 25	315
BBMW-42I2	35 - 45	334
BBMW-43I	15 - 25	284
BBMW-43I2	35 - 45	ND
GMP-01	25 - 30	ND
MW-05D	35.5 - 45.5	13
OU2MW-02S	20 - 25	ND
OU2MW-02I	35 - 40	ND
OU2MW-04S	20 - 25	ND
OU2MW-04I	35 - 40	5
OU2MW-05	25 - 35	ND
OU2MW-08I	35 - 45	ND
OU2MW-10I	20 - 25	ND
OU2MW-11I2	30 - 35	ND
OU2MW-11D	40 - 45	ND
OU2MW-12I	20 - 25	ND
OU2MW-12I2	30 - 35	ND
OU2MW-12D	40 - 45	ND
OU2MW-13D	35 - 40	ND
OU2MW-14I	20 - 25	ND
OU2MW-15I	20 - 25	ND
OU2MW-17I	13 - 23	ND
OU2MW-18I2	35 - 40	3
OU2MW-19I	13 - 23	5
OU2MW-19I2	35 - 45	11
OU2MW-20I	13 - 23	ND
OU2MW-22I	25 - 30	ND
OU2MW-23I2	45 - 50	ND
OU2MW-24I2	45 - 50	162
OU2MW-25I	25 - 30	ND
OU2MW-28I2	40 - 45	ND
OU2MW-29I	18 - 23	ND
OU2MW-29I2	30 - 35	ND
OU2MW-29D	45 - 50	10
OU2MW-30I	25 - 30	ND
OU2MW-30I2	30 - 35	ND
OU2MW-30I3	45 - 50	ND
OU2MW-32I2	30 - 35	ND
OU2MW-32D	40 - 45	288
OU2MW-34I	25 - 30	ND
OU2MW-34I2	45 - 50	35
OU2MW-38I2	46 - 51	ND
OU2MW-39I	25 - 30	ND
OU2MW-39I2	45 - 50	86
OU2MW-41I	18 - 23	ND
OU2MW-43I2	45 - 50	12
OU2MW-46I2	40 - 45	3
OU2MW-47I	20 - 25	ND
OU2MW-47I2	40 - 45	ND
OU2MW-50I	25 - 30	ND
OU2MW-50I2	45 - 50	ND
OU2MW-55I	30 - 35	ND
OU2MW-57I	20 - 30	ND
OU2MW-57I2	35 - 45	ND
OZMW-16I	20 - 30	ND

Q3 2013 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
OZMW-16I2	35 - 45	3
OZMW-17I	20 - 30	ND
OZMW-17I2	35 - 45	ND
OZMW-18I	20 - 30	221
OZMW-18I2	35 - 45	ND
OZMW-19I	20 - 30	460
OZMW-19I2	35 - 45	323
OZMW-21I	20 - 30	350*
OZMW-21I2	35 - 45	96
OZMW-22I/22IR	20 - 30	2
OZMW-23I	20 - 30	ND
OZMW-23I2	35 - 45	ND
OZMW-24I	20 - 30	ND
OZMW-24I2	35 - 45	106
OZMW-25I	20 - 30	420
OZMW-25I2	35 - 45	232
OZMW-26I	20 - 30	ND
OZMW-26I2	35 - 45	2
OU-3		
BBMW-28I	10 - 20	ND
BBMW-31I	14 - 19	ND
BBMW-31D	30 - 35	ND
MW-34I	18.5 - 19.5	13
MW-34D	27.5 - 28.5	1
MW-34DD	36 - 41	ND
MW-64	19 - 24	1,593
MW-65	11 - 16	151
MW-68S	15 - 20	ND
MW-68D	25 - 30	ND
MW-73I	22 - 27	945
MW-75I	22 - 27	335
MWBS-02I	14.5 - 15.5	8
MWBS-02D	24.5 - 25.5	ND
OU3MW-02I	15 - 20	ND
OU3MW-03I	20 - 25	76
OU3MW-04I	16 - 21	ND
OU3MW-04D	26 - 31	ND
OU3MW-04D2	31 - 36	3
OU3MW-04D3	41 - 46	ND
OU3MW-05I	15 - 20	60
OU3MW-07I	15 - 20	ND
OU3MW-07I2	20 - 25	6
OU3MW-07I3	25 - 30	ND
OU3MW-07I4	35 - 40	ND
OU3MW-09I	25 - 30	428
OU3MW-09I2	35 - 40	9
OU3MW-10I	25 - 30	314
OU3MW-17I	15 - 20	ND
OU3MW-17I2	25 - 30	ND
OU3MW-18I	15 - 20	4
OU3MW-18I2	25 - 30	ND
OU3MW-19I	20 - 25	106
OU3MW-19I2	30 - 35	ND
OU3MW-20I	25 - 30	431
OU3MW-20I2	30 - 35	ND
OU3MW-21I	15 - 20	ND
OU3MW-21I2	25 - 30	ND
SV-02I	22 - 27	147
SV-02I2	35 - 40	ND
OU-4		
WCMW-04I	19 - 24	12
WCMW-04I2	29.9 - 34.9	6
WCMW-05I	19.6 - 24.6	9
WCMW-05I2	29.5 - 34.5	ND
WCMW-11I	25 - 30	7
WCMW-14I	20 - 25	2
WCMW-26I	20 - 25	ND
WCMW-30I	20 - 25	18
WCMW-30I2	30 - 35	ND

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-38I — WELL NOT SAMPLED IN Q3 2013 DUE TO MEASURABLE LEVELS OF DNAPL
- µg/L — MICROGRAMS PER LITER
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- BTEX ≧5,000 µg/L
- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- BTEX — ISO-CONCENTRATION LINE (µg/L)
- BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE

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

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

nationalgrid

GEI Consultants

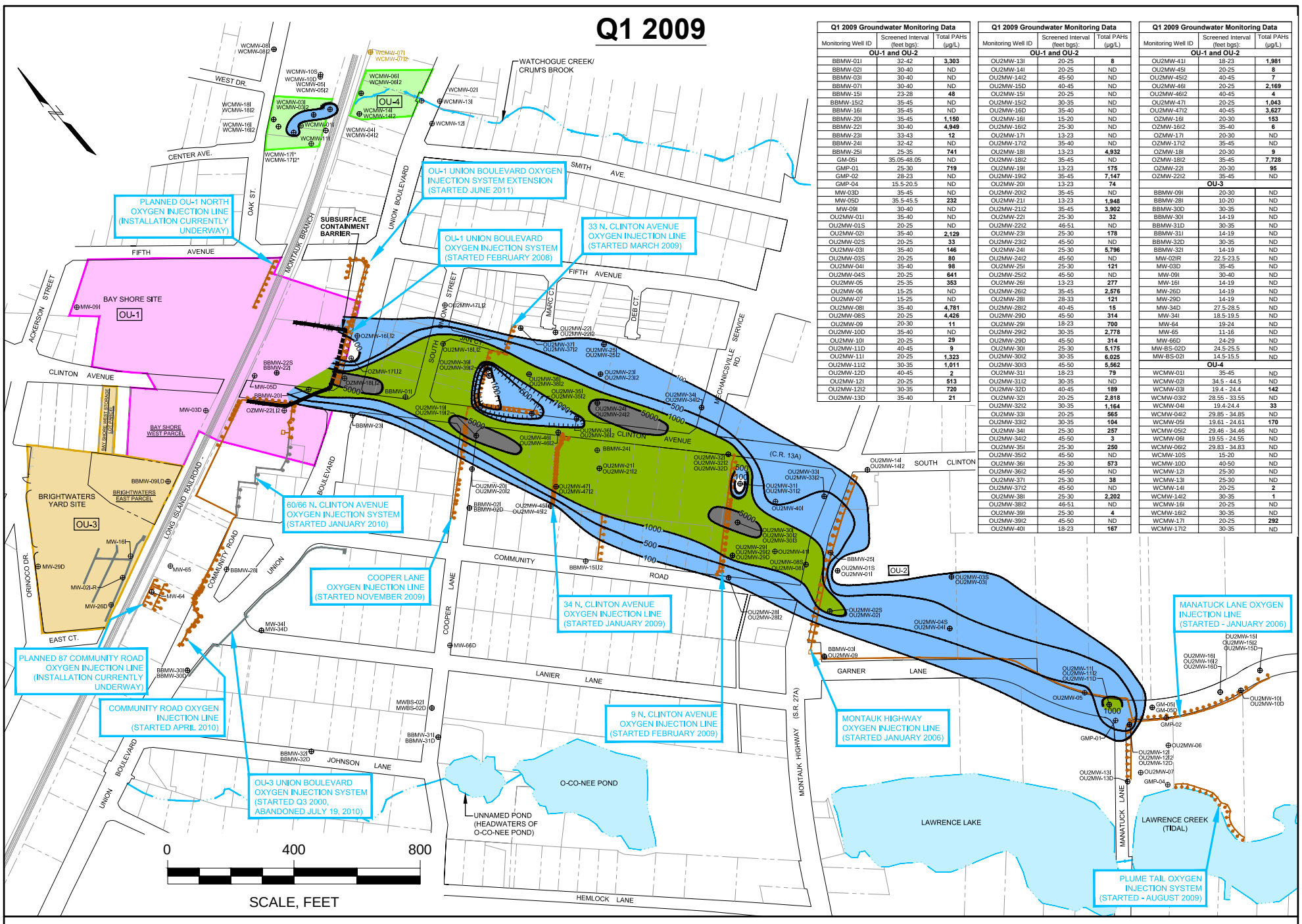
Project 093180-5-1506

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

January 2014 — Figure 5

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2013\ISO-Concentrations\ BAY SHORE-BTEX & PAH PLUMES Q3-2013.dwg \Dec 30, 2013

Q1 2009

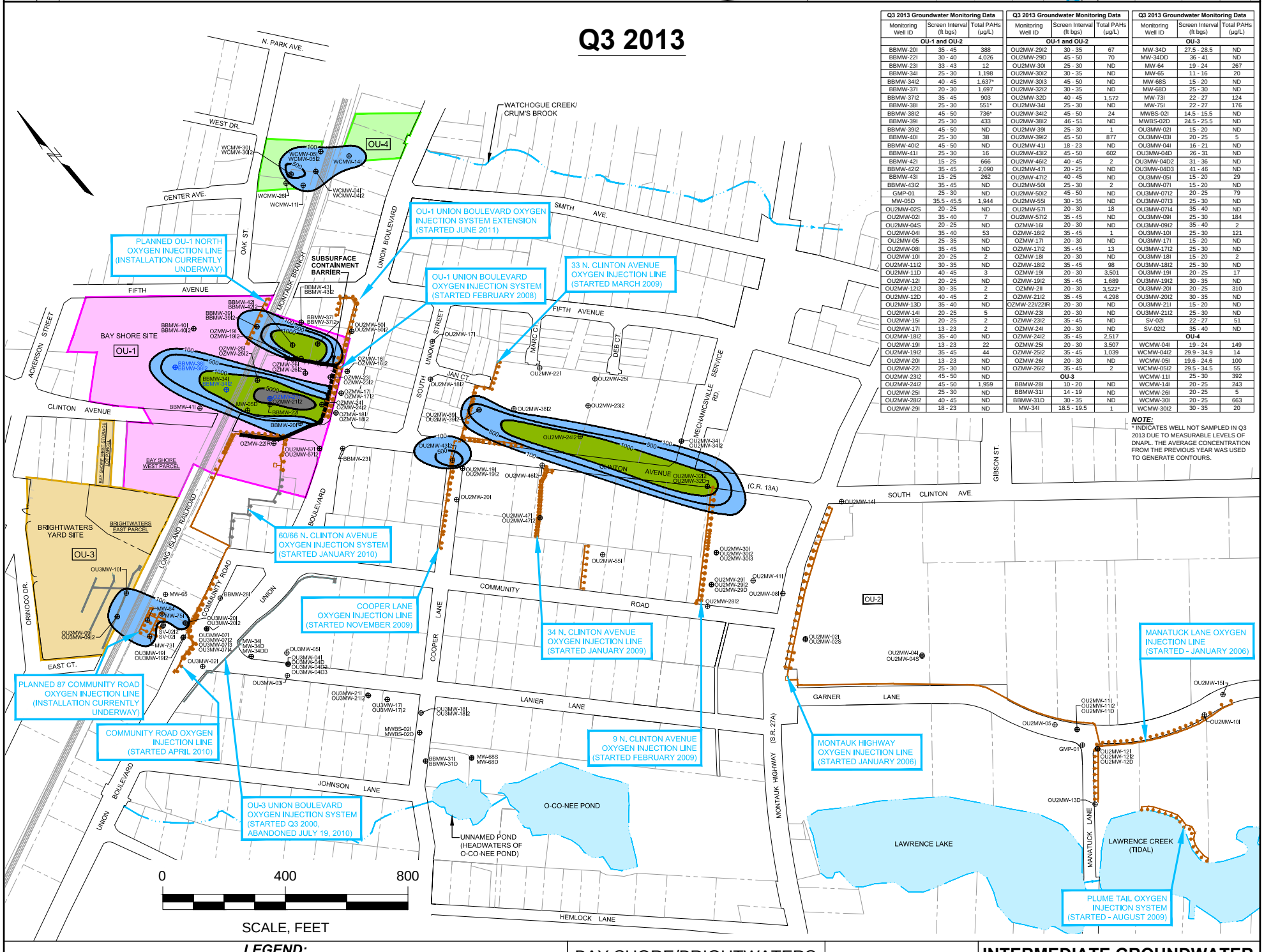


Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01I	32-42	**3,303**
BBMW-02I	30-40	ND
BBMW-03I	30-40	ND
BBMW-07I	30-40	ND
BBMW-15I	23-28	**48**
BBMW-15I2	35-45	ND
BBMW-16I	35-45	ND
BBMW-20I	35-45	**1,150**
BBMW-22I	30-40	**4,949**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

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

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

Q3 2013



Q3 2013 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-20I	35 - 45	388
BBMW-22I	30 - 40	4,026
BBMW-23I	33 - 43	12
BBMW-34I	25 - 30	1,198
BBMW-34I2	40 - 45	1,637*
BBMW-37I	20 - 30	1,697
BBMW-37I2	35 - 45	903
BBMW-38I	25 - 30	551*
BBMW-38I2	45 - 50	736*
BBMW-39I	25 - 30	433
BBMW-39I2	45 - 50	ND
BBMW-40I	25 - 30	38
BBMW-40I2	45 - 50	ND
BBMW-41I	25 - 30	16
BBMW-42I	15 - 25	666
BBMW-42I2	35 - 45	2,090
BBMW-43I	15 - 25	262
BBMW-43I2	35 - 45	ND
GMP-01	25 - 30	ND
MW-05D	35.5 - 45.5	1,944
OU2MW-02S	20 - 25	ND
OU2MW-02I	35 - 40	7
OU2MW-04S	20 - 25	ND
OU2MW-04I	35 - 40	53
OU2MW-05	25 - 35	ND
OU2MW-08I	35 - 45	ND
OU2MW-10I	20 - 25	2
OU2MW-11I2	30 - 35	ND
OU2MW-11D	40 - 45	3
OU2MW-12I	20 - 25	ND
OU2MW-12I2	30 - 35	2
OU2MW-12D	40 - 45	2
OU2MW-13D	35 - 40	ND
OU2MW-14I	20 - 25	5
OU2MW-15I	20 - 25	2
OU2MW-17I	13 - 23	2
OU2MW-18I	13 - 23	22
OU2MW-18I2	35 - 40	44
OU2MW-19I	13 - 23	ND
OU2MW-19I2	35 - 45	ND
OU2MW-20I	13 - 23	ND
OU2MW-20I2	25 - 30	ND
OU2MW-23I2	45 - 50	ND
OU2MW-24I2	45 - 50	1,959
OU2MW-25I	25 - 30	ND
OU2MW-28I2	40 - 45	ND
OU2MW-29I	18 - 23	ND

Q3 2013 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-29I2	30 - 35	67
OU2MW-29D	45 - 50	70
OU2MW-30I	25 - 30	ND
OU2MW-30I2	30 - 35	ND
OU2MW-30I3	45 - 50	ND
OU2MW-32I2	30 - 35	ND
OU2MW-32D	40 - 45	1,572
OU2MW-34I	25 - 30	ND
OU2MW-34I2	45 - 50	24
OU2MW-38I2	46 - 51	ND
OU2MW-39I	25 - 30	1
OU2MW-39I2	45 - 50	877
OU2MW-41I	18 - 23	ND
OU2MW-43I2	45 - 50	602
OU2MW-46I2	40 - 45	2
OU2MW-47I	20 - 25	ND
OU2MW-47I2	40 - 45	ND
OU2MW-50I	25 - 30	2
OU2MW-50I2	45 - 50	ND
OU2MW-55I	30 - 35	ND
OU2MW-57I	20 - 30	18
OU2MW-57I2	35 - 45	ND
OZMW-16I	20 - 30	ND
OZMW-16I2	35 - 45	1
OZMW-17I	20 - 30	ND
OZMW-17I2	35 - 45	13
OZMW-18I	20 - 30	ND
OZMW-18I2	35 - 45	98
OZMW-19I	20 - 30	3,501
OZMW-19I2	35 - 45	1,689
OZMW-2II	20 - 30	3,522*
OZMW-21I2	35 - 45	4,298
OZMW-22I/22IR	20 - 30	ND
OZMW-23I	20 - 30	ND
OZMW-23I2	35 - 45	ND
OZMW-24I	20 - 30	ND
OZMW-24I2	35 - 45	2,517
OZMW-25I	20 - 30	3,507
OZMW-25I2	35 - 45	1,039
OZMW-26I	20 - 30	ND
OZMW-26I2	35 - 45	2
OU-3		
BBMW-28I	10 - 20	ND
BBMW-31D	14 - 19	ND
BBMW-31D	30 - 35	ND
MW-34I	18.5 - 19.5	1

Q3 2013 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-3		
MW-34D	27.5 - 28.5	ND
MW-34DD	36 - 41	ND
MW-64	19 - 24	267
MW-65	11 - 16	20
MW-68S	15 - 20	ND
MW-68D	25 - 30	ND
MW-73I	22 - 27	124
MW-75I	22 - 27	176
MWBS-02I	14.5 - 15.5	ND
MWBS-02D	24.5 - 25.5	ND
OU3MW-02I	15 - 20	ND
OU3MW-03I	20 - 25	5
OU3MW-04I	16 - 21	ND
OU3MW-04D	26 - 31	ND
OU3MW-04D2	31 - 36	ND
OU3MW-04D3	41 - 46	ND
OU3MW-05I	15 - 20	29
OU3MW-07I	15 - 20	ND
OU3MW-07I2	20 - 25	79
OU3MW-07I3	25 - 30	ND
OU3MW-07I4	35 - 40	ND
OU3MW-09I	25 - 30	184
OU3MW-09I2	35 - 40	2
OU3MW-10I	25 - 30	121
OU3MW-17I	15 - 20	ND
OU3MW-17I2	25 - 30	ND
OU3MW-18I	15 - 20	2
OU3MW-18I2	25 - 30	ND
OU3MW-19I	20 - 25	17
OU3MW-19I2	30 - 35	ND
OU3MW-20I	20 - 25	310
OU3MW-20I2	30 - 35	ND
OU3MW-21I	15 - 20	ND
OU3MW-21I2	25 - 30	ND
SV-02I	22 - 27	51
SV-02I2	35 - 40	ND
OU-4		
WCMW-04I	19 - 24	149
WCMW-04I2	29.9 - 34.9	14
WCMW-05I	19.6 - 24.6	100
WCMW-05I2	29.5 - 34.5	55
WCMW-11I	25 - 30	392
WCMW-14I	20 - 25	243
WCMW-26I	20 - 25	5
WCMW-30I	20 - 25	663
WCMW-30I2	30 - 35	20

NOTE:
* INDICATES WELL NOT SAMPLED IN Q3 2013 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATION FROM THE PREVIOUS YEAR WAS USED TO GENERATE CONTOURS.

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-38I — WELL NOT SAMPLED IN Q3 2013 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
- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS

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

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

January 2014 — Figure 6

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2013\ISO-Concentrations\ BAY SHORE-BTEX & PAH PLUMES Q3-2013.dwg \Dec 30, 2013

Q1 2009

Q1 2009 Groundwater Monitoring Data

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

WEST DR.
CENTER AVE.
OAK ST.
WCMW-01D
WCMW-11D
OU-4
WCMW-02D
WCMW-13D
WCMW-14D
WCMW-12D
WATCHOGUE CREEK/ CRUM'S BROOK
SMITH AVE.
UNION BOULEVARD
MONTAUK BRANCH
SUBSURFACE CONTAINMENT BARRIER
FIFTH AVENUE
ACKERSON STREET
BAY SHORE SITE
OU-1
CLINTON AVENUE
BBMW-05D
BBMW-05D2
BBMW-22D
OZMW-22D
BBMW-13D
BAY SHORE WEST PARCEL
MAY CONTAIN WASTE STORAGE FOR ONSITE
BRIGHTWATERS YARD SITE
OU-3
BRIGHTWATERS EAST PARCEL
BBMW-09D
LONG ISLAND RAILROAD
ORINOCO DR.
EAST CT.
COMMUNITY ROAD
UNION BOULEVARD
JOHNSON LANE
HEMLOCK LANE
COOPER LANE
LANIER LANE
COMMUNITY ROAD
BBMW-15D
BBMW-02D
OZMW-16D
OZMW-17D
OZMW-18D
OU2MW-17D
OU2MW-18D
BBMW-01D
OZMW-21D
OZMW-24D
OZMW-23D
OZMW-25D
OU2MW-19D
OU2MW-20D
OU2MW-47D
OU2MW-45D
OU2MW-26D
OU2MW-24D
OU2MW-23D
OU2MW-35D
OU2MW-36D
OU2MW-38D
OU2MW-39D
OU2MW-37D
OU2MW-22D
OU2MW-25D
BBMW-24D
OU2MW-33D
OU2MW-30D
OU2MW-30D2
OU2MW-08I2
OU2MW-08D
BBMW-16D
MARC CT.
DEB CT.
JAN CT.
SOUTH UNION STREET
MECHANICSVILLE SERVICE RD.
MONTAUK HWY. (S.R. 27A)
OCEAN AVE.
BAY AVE.
GIBSON ST.
SOUTH CLINTON AVE.
(C.R. 13A)
BBMW-07D
BBMW-25D
OU2MW-01I2
OU2MW-01D
OU2MW-03I2
OU2MW-03D
OU2MW-02I2
OU2MW-02D
OU2MW-04I2
OU2MW-04D
BBMW-03D
GM-05D
GARNER LANE
MANATUCK LANE
LAWRENCE LAKE
LAWRENCE CREEK (TIDAL)
O-CO-NEE POND
UNNAMED POND (HEADWATERS OF O-CO-NEE POND)
100
500
1000
700

OU-1 UNION BOULEVARD OXYGEN INJECTION SYSTEM EXTENSION (STARTED JUNE 2011)
PLANNED OU-1 NORTH OXYGEN INJECTION LINE (INSTALLATION CURRENTLY UNDERWAY)
OU-1 UNION BOULEVARD OXYGEN INJECTION SYSTEM (STARTED FEBRUARY 2008)
33 N. CLINTON AVENUE OXYGEN INJECTION LINE (STARTED MARCH 2009)
60/66 N. CLINTON AVENUE OXYGEN INJECTION SYSTEM (STARTED JANUARY 2010)
COOPER LANE OXYGEN INJECTION LINE (STARTED NOVEMBER 2009)
34 N. CLINTON AVENUE OXYGEN INJECTION LINE (STARTED JANUARY 2009)
MANATUCK LANE OXYGEN INJECTION LINE (STARTED - JANUARY 2006)
PLANNED 87 COMMUNITY ROAD OXYGEN INJECTION LINE (INSTALLATION CURRENTLY UNDERWAY)
COMMUNITY ROAD OXYGEN INJECTION LINE (STARTED APRIL 2010)
9 N. CLINTON AVENUE OXYGEN INJECTION LINE (STARTED FEBRUARY 2009)
MONTAUK HIGHWAY OXYGEN INJECTION LINE (STARTED JANUARY 2006)
OU-3 UNION BOULEVARD OXYGEN INJECTION SYSTEM (STARTED Q3 2000, ABANDONED JULY 19, 2010)
PLUME TAIL OXYGEN INJECTION SYSTEM (STARTED - AUGUST 2009)

0 400 800
SCALE, FEET

Q3 2013

Q3 2013 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5 - 78.5	5
BBMW-05D	64- 74	628
BBMW-22D	64- 74	1,326*
BBMW-24D	59.5 - 69.5	2
BBMW-25D	62 - 72	ND
OU2MW-02I2	50 - 55	3
OU2MW-02D	65 - 70	ND
OU2MW-04I2	50 - 55	2
OU2MW-04D	65 - 70	ND
OU2MW-08I2	50 - 55	42
OU2MW-19D	65 - 70	415
OU2MW-23D	65 - 75	ND
0U2MW-24D	62 - 67	ND
OU2MW-26D	60 - 70	4
OU2MW-27D	65 - 70	ND
OU2MW-30D	50 - 55	ND
OU2MW-30D2	60 - 65	12
OU2MW-35D	57 - 62	30
OU2MW-36D	61 - 66	ND
OU2MW-37D	62 - 72	ND
OU2MW-38D	56 - 61	ND
OU2MW-39D	70 - 75	ND
OU2MW-42D	60 - 65	1,637
OU2MW-43D	65 - 70	471
OU2MW-47D	60 - 65	ND
OU2MW-50D	65 - 70	ND
OU2MW-55I2	50 - 55	ND
OU2MW-55D	65 - 70	2
OZMW-16D	55 - 65	ND
OZMW-17D	53 - 63	71
OZMW-18D	55 - 65	ND
OZMW-19D	55 - 65	ND
OZMW-21D	55 - 65	350*
OZMW-23D	55 - 65	ND
OZMW-24D	55 - 65	583
OZMW-25D	55 - 65	9

NOTE:
* INDICATES WELL NOT SAMPLED IN Q3 2013 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATION FROM THE PREVIOUS YEAR WAS USED TO GENERATE CONTOURS.

WEST DR.
CENTER AVE.
OAK ST.
WATCHOGUE CREEK/ CRUM'S BROOK
SMITH AVE.
UNION BOULEVARD
MONTAUK BRANCH
SUBSURFACE CONTAINMENT BARRIER
FIFTH AVENUE
ACKERSON STREET
BAY SHORE SITE
OU-1
CLINTON AVENUE
BAY SHORE WEST PARCEL
BRIGHTWATERS YARD SITE
OU-3
BRIGHTWATERS EAST PARCEL
LONG ISLAND RAILROAD
ORINOCO DR.
EAST CT.
COMMUNITY ROAD
UNION BOULEVARD
JOHNSON LANE
HEMLOCK LANE
COOPER LANE
LANIER LANE
COMMUNITY ROAD
JAN CT.
SOUTH UNION STREET
MECHANICSVILLE SERVICE RD.
MONTAUK HWY. (S.R. 27A)
OCEAN AVE.
BAY AVE.
GIBSON ST.
SOUTH CLINTON AVE.
(C.R. 13A)
BBMW-25D
OU-2
OU2MW-02I2
OU2MW-02D
OU2MW-04I2
OU2MW-04D
GARNER LANE
MANATUCK LANE
LAWRENCE LAKE
LAWRENCE CREEK (TIDAL)
O-CO-NEE POND
UNNAMED POND (HEADWATERS OF O-CO-NEE POND)
OU-1 UNION BOULEVARD OXYGEN INJECTION SYSTEM EXTENSION (STARTED JUNE 2011)
PLANNED OU-1 NORTH OXYGEN INJECTION LINE (INSTALLATION CURRENTLY UNDERWAY)
OU-1 UNION BOULEVARD OXYGEN INJECTION SYSTEM (STARTED FEBRUARY 2008)
33 N. CLINTON AVENUE OXYGEN INJECTION LINE (STARTED MARCH 2009)
60/66 N. CLINTON AVENUE OXYGEN INJECTION SYSTEM (STARTED JANUARY 2010)
COOPER LANE OXYGEN INJECTION LINE (STARTED NOVEMBER 2009)
34 N, CLINTON AVENUE OXYGEN INJECTION LINE (STARTED JANUARY 2009)
MANATUCK LANE OXYGEN INJECTION LINE (STARTED - JANUARY 2006)
PLANNED 87 COMMUNITY ROAD OXYGEN INJECTION LINE (INSTALLATION CURRENTLY UNDERWAY)
COMMUNITY ROAD OXYGEN INJECTION LINE (STARTED APRIL 2010)
9 N. CLINTON AVENUE OXYGEN INJECTION LINE (STARTED FEBRUARY 2009)
MONTAUK HIGHWAY OXYGEN INJECTION LINE (STARTED JANUARY 2006)
OU-3 UNION BOULEVARD OXYGEN INJECTION SYSTEM (STARTED Q3 2000, ABANDONED JULY 19, 2010)
PLUME TAIL OXYGEN INJECTION SYSTEM (STARTED - AUGUST 2009)
0 400 800
SCALE, FEET

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-22D — WELL NOT SAMPLED IN Q3 2013 DUE TO MEASURABLE LEVELS OF DNAPL
- µg/L — MICROGRAMS PER LITER
- BTEX ≥100 µg/L
- BTEX ≥1,000 µg/L
- BTEX ≥5,000 µg/L
- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L) BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

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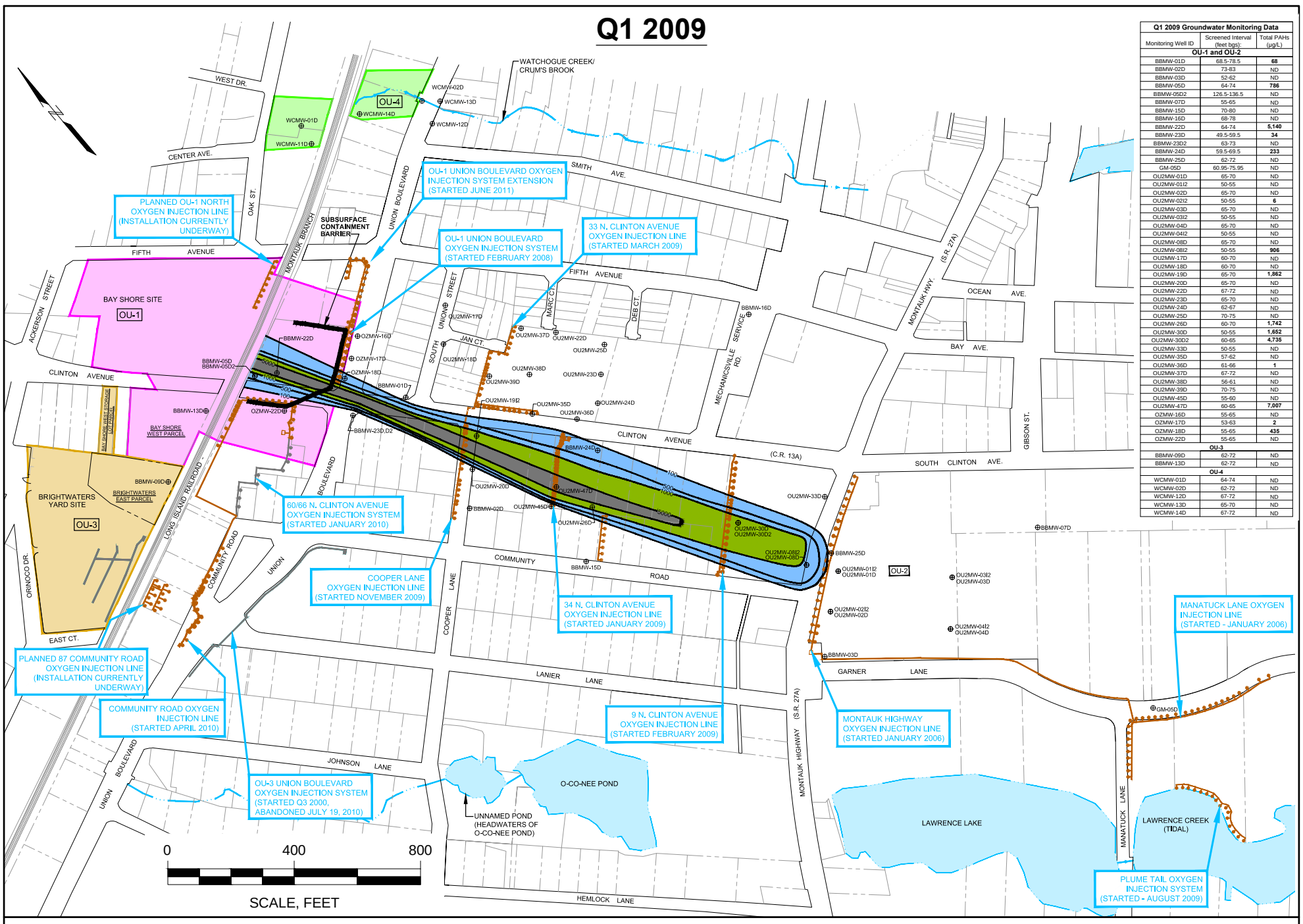
DEEP GROUNDWATER BTEX ISO-CONCENTRATION MAPS (BELOW 50 FEET BGS)

January 2014

Figure 7

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2013\ISO-Concentrations\ BAY SHORE-BTEX & PAH PLUMES Q3-2013.dwg \Dec 30, 2013

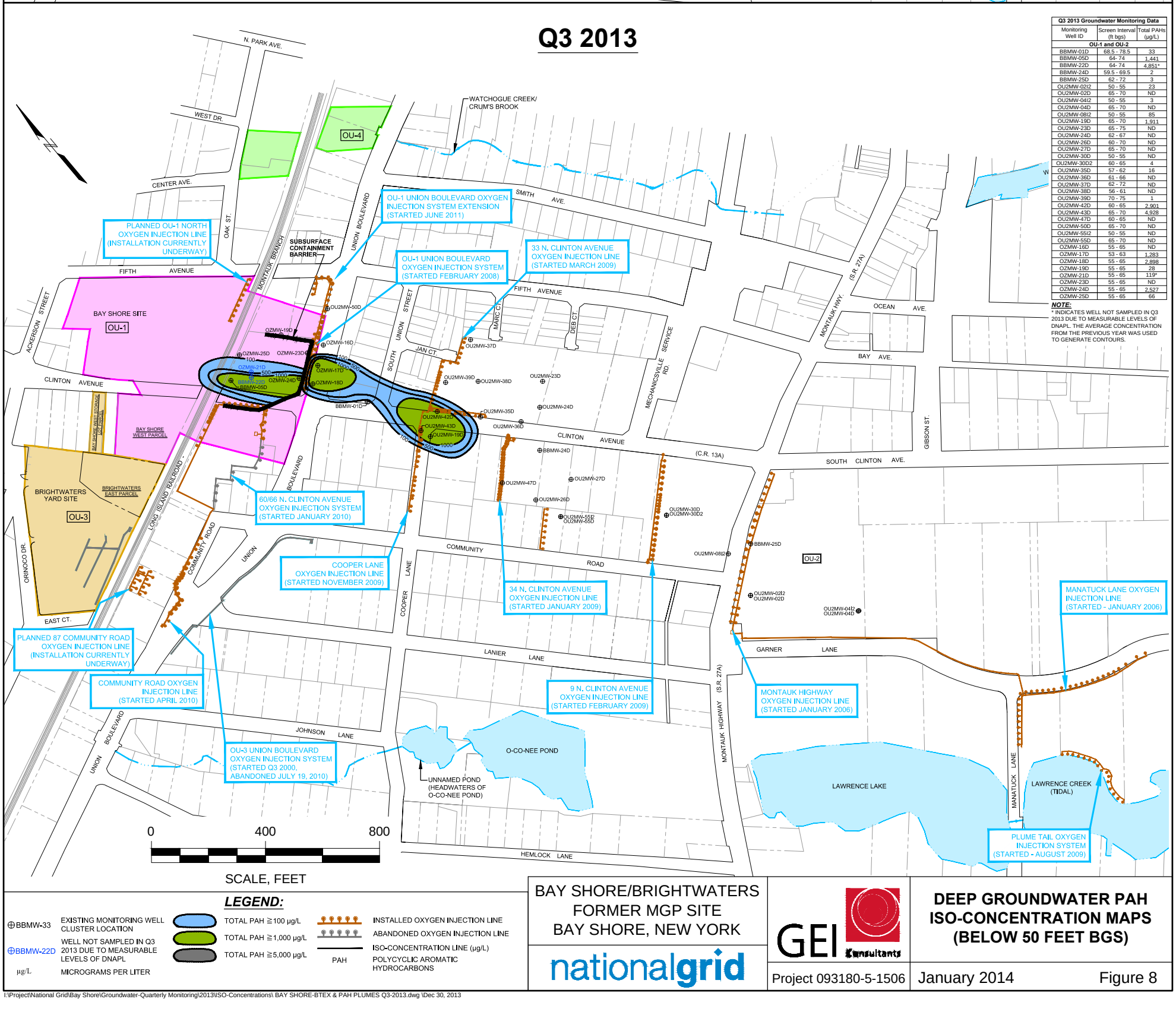
Q1 2009



Q1 2009 Groundwater Monitoring Data

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

Q3 2013



Q3 2013 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5 - 78.5	33
BBMW-05D	64- 74	1,441
BBMW-22D	64- 74	4,851*
BBMW-24D	59.5 - 69.5	2
BBMW-25D	62 - 72	3
OU2MW-02I2	50 - 55	23
OU2MW-02D	65 - 70	ND
OU2MW-04I2	50 - 55	3
OU2MW-04D	65 - 70	ND
OU2MW-08I2	50 - 55	85
OU2MW-19D	65 - 70	1,911
OU2MW-23D	65 - 75	ND
OU2MW-24D	62 - 67	ND
OU2MW-26D	60 - 70	ND
OU2MW-27D	65 - 70	ND
OU2MW-30D	50 - 55	ND
OU2MW-30D2	60 - 65	4
OU2MW-35D	57 - 62	16
OU2MW-36D	61 - 66	ND
OU2MW-37D	62 - 72	ND
OU2MW-38D	56 - 61	ND
OU2MW-39D	70 - 75	1
OU2MW-42D	60 - 65	2,901
OU2MW-43D	65 - 70	4,928
OU2MW-47D	60 - 65	ND
OU2MW-50D	65 - 70	ND
OU2MW-55I2	50 - 55	ND
OU2MW-55D	65 - 70	ND
OZMW-16D	55 - 65	ND
OZMW-17D	53 - 63	1,283
OZMW-18D	55 - 65	2,898
OZMW-19D	55 - 65	28
OZMW-21D	55 - 65	119*
OZMW-23D	55 - 65	ND
OZMW-24D	55 - 65	2,527
OZMW-25D	55 - 65	66

NOTE:
* INDICATES WELL NOT SAMPLED IN Q3 2013 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATION FROM THE PREVIOUS YEAR WAS USED TO GENERATE CONTOURS.

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-22D — WELL NOT SAMPLED IN Q3 2013 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
- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)

BAY SHORE/BRIGHTWATERS
FORMER MGP SITE
BAY SHORE, NEW YORK

nationalgrid

GEI Consultants

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

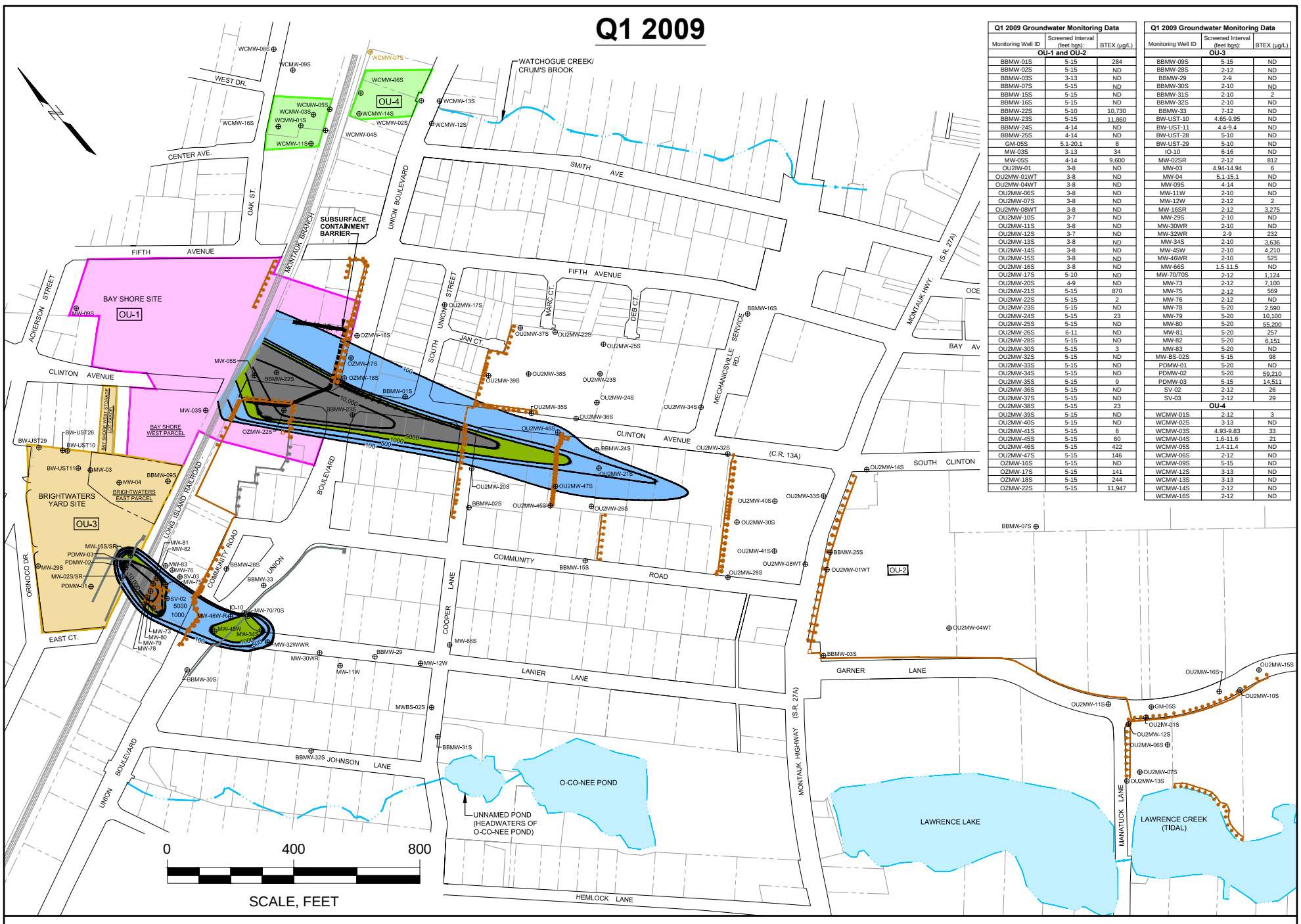
Project 093180-5-1506 | January 2014 | Figure 8

I:\Project\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\2013\ISO-Concentrations\ BAY SHORE-BTEX & PAH PLUMES Q3-2013.dwg \Dec 30, 2013

Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01S	5-15	284
BBMW-02S	5-15	ND
BBMW-03S	3-13	ND
BBMW-07S	5-15	ND
BBMW-15S	5-15	ND
BBMW-16S	5-15	ND
BBMW-22S	5-10	10,730
BBMW-23S	5-15	11,860
BBMW-24S	4-14	ND
BBMW-25S	4-14	ND
GM-05S	5.1-20.1	8
MW-03S	3-13	34
MW-05S	4-14	9,600
OU2IW-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	23
OU2MW-38S	5-15	ND
OU2MW-39S	5-15	ND
OU2MW-40S	5-15	60
OU2MW-46S	5-15	422
OU2MW-47S	5-15	146
OZMW-16S	5-15	ND
OZMW-17S	5-15	141
OZMW-18S	5-15	244
OZMW-22S	5-15	11,947

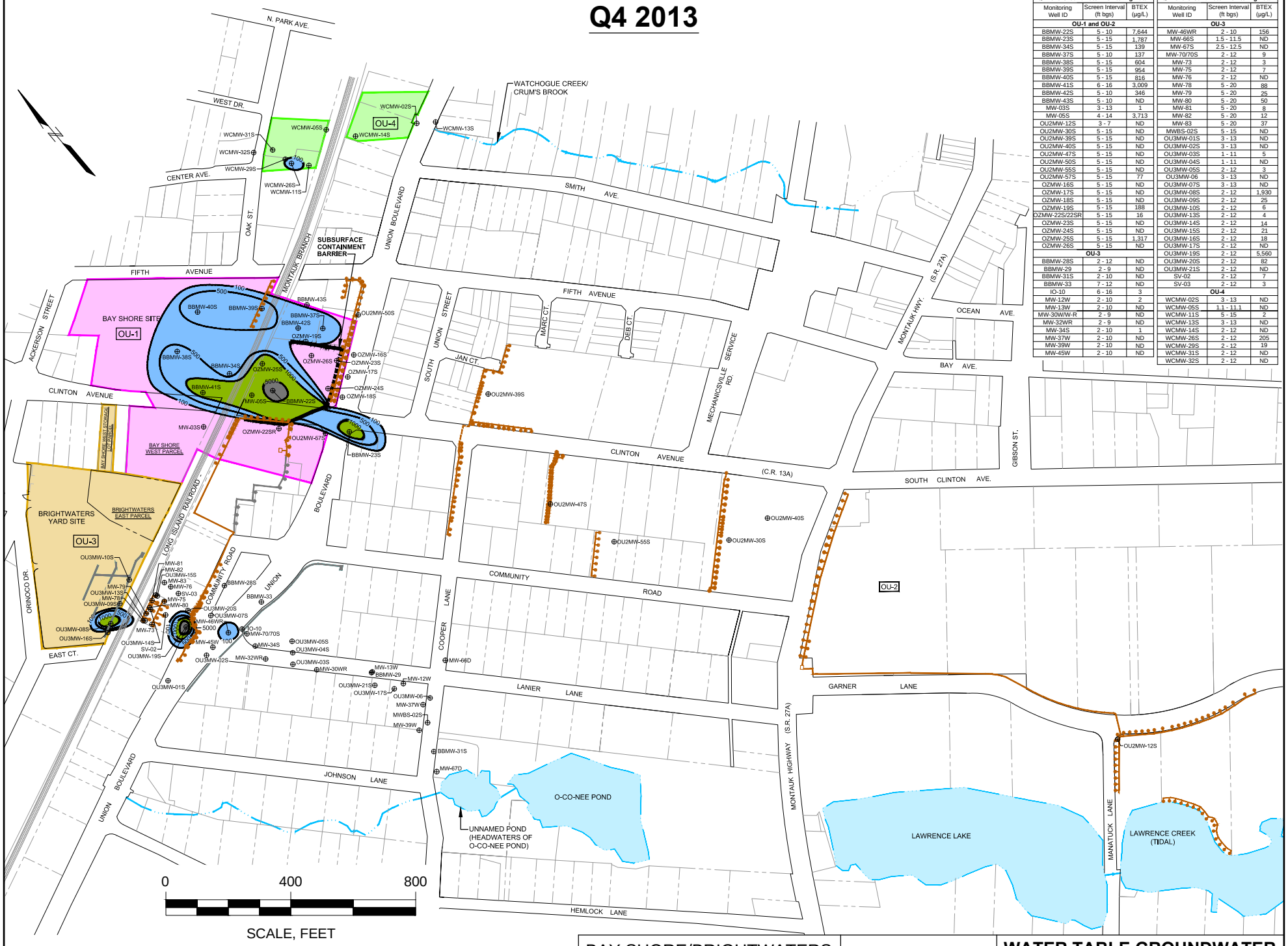
Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	BTEX (µg/L)
OU-3		
BBMW-09S	5-15	ND
BBMW-28S	2-12	ND
BBMW-29	2-9	ND
BBMW-30S	2-10	ND
BBMW-31S	2-10	2
BBMW-32S	2-10	ND
BBMW-33	7-12	ND
BW-UST-10	4.65-9.95	ND
BW-UST-11	4.4-9.4	ND
BW-UST-28	5-10	ND
BW-UST-29	5-10	ND
IO-10	6-16	ND
MW-02SR	2-12	812
MW-03	4.94-14.94	6
MW-04	5.1-15.1	ND
MW-09S	4-14	ND
MW-11W	2-10	ND
MW-12W	2-12	2
MW-16SR	2-12	3,275
MW-29S	2-10	ND
MW-30WR	2-10	ND
MW-32WR	2-9	232
MW-34S	2-10	3,636
MW-45W	2-10	4,210
MW-46WR	2-10	525
MW-66S	1.5-11.5	ND
MW-70/70S	2-12	1,124
MW-73	2-12	7,100
MW-75	2-12	569
MW-76	2-12	ND
MW-78	5-20	2,590
MW-79	5-20	10,100
MW-80	5-20	55,200
MW-81	5-20	257
MW-82	5-20	6,151
MW-83	5-20	ND
MW-BS-02S	5-15	98
PDMW-01	5-20	ND
PDMW-02	5-20	59,210
PDMW-03	5-15	14,511
SV-02	2-12	26
SV-03	2-12	29
OU-4		
WCMW-01S	2-12	3
WCMW-02S	3-13	ND
WCMW-03S	4.93-9.83	33
WCMW-04S	1.6-11.6	21
WCMW-05S	1.4-11.4	ND
WCMW-06S	2-12	ND
WCMW-09S	5-15	ND
WCMW-12S	3-13	ND
WCMW-13S	3-13	ND
WCMW-14S	2-12	ND
WCMW-16S	2-12	ND



Q4 2013

Q4 2013 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-22S	5 - 10	7,644
BBMW-23S	5 - 15	1,787
BBMW-34S	5 - 15	139
BBMW-37S	5 - 10	137
BBMW-38S	5 - 15	604
BBMW-39S	5 - 15	954
BBMW-40S	5 - 15	816
BBMW-41S	6 - 16	3,009
BBMW-42S	5 - 10	346
BBMW-43S	5 - 10	ND
MW-03S	3 - 13	1
MW-05S	4 - 14	3,713
OU2MW-12S	3 - 7	ND
OU2MW-30S	5 - 15	ND
OU2MW-39S	5 - 15	ND
OU2MW-40S	5 - 15	ND
OU2MW-47S	5 - 15	ND
OU2MW-50S	5 - 15	ND
OU2MW-55S	5 - 15	ND
OU2MW-57S	5 - 15	77
OZMW-16S	5 - 15	ND
OZMW-17S	5 - 15	ND
OZMW-18S	5 - 15	ND
OZMW-19S	5 - 15	188
OZMW-22S/22SR	5 - 15	16
OZMW-23S	5 - 15	ND
OZMW-24S	5 - 15	ND
OZMW-25S	5 - 15	1,317
OZMW-26S	5 - 15	ND
OU-3		
BBMW-28S	2 - 12	ND
BBMW-29	2 - 9	ND
BBMW-31S	2 - 10	ND
BBMW-33	7 - 12	ND
IO-10	6 - 16	3
MW-12W	2 - 10	2
MW-13W	2 - 10	ND
MW-30W/W-R	2 - 9	ND
MW-32WR	2 - 9	ND
MW-34S	2 - 10	1
MW-37W	2 - 10	ND
MW-39W	2 - 10	ND
MW-45W	2 - 10	ND

Q4 2013 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-3		
MW-46WR	2 - 10	156
MW-66S	1.5 - 11.5	ND
MW-67S	2.5 - 12.5	ND
MW-70/70S	2 - 12	9
MW-73	2 - 12	3
MW-75	2 - 12	7
MW-76	2 - 12	ND
MW-78	5 - 20	88
MW-79	5 - 20	25
MW-80	5 - 20	50
MW-81	5 - 20	8
MW-82	5 - 20	12
MW-83	5 - 20	37
MWBS-02S	5 - 15	ND
OU3MW-01S	3 - 13	ND
OU3MW-02S	3 - 13	ND
OU3MW-03S	1 - 11	5
OU3MW-04S	1 - 11	ND
OU3MW-05S	2 - 12	3
OU3MW-06	3 - 13	ND
OU3MW-07S	3 - 13	ND
OU3MW-08S	2 - 12	1,930
OU3MW-09S	2 - 12	25
OU3MW-10S	2 - 12	6
OU3MW-13S	2 - 12	4
OU3MW-14S	2 - 12	14
OU3MW-15S	2 - 12	21
OU3MW-16S	2 - 12	18
OU3MW-17S	2 - 12	ND
OU3MW-19S	2 - 12	5,560
OU3MW-20S	2 - 12	82
OU3MW-21S	2 - 12	ND
SV-02	2 - 12	7
SV-03	2 - 12	3
OU-4		
WCMW-02S	3 - 13	ND
WCMW-05S	1.1 - 11.1	ND
WCMW-11S	5 - 15	2
WCMW-13S	3 - 13	ND
WCMW-14S	2 - 12	ND
WCMW-26S	2 - 12	205
WCMW-29S	2 - 12	19
WCMW-31S	2 - 12	ND
WCMW-32S	2 - 12	ND



LEGEND:

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

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

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

Project 093180-5-1506 | March 2014 | Figure 3

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Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01S	5-15	359
BBMW-02S	5-15	ND
BBMW-03S	3-13	ND
BBMW-07S	5-15	ND
BBMW-15S	5-15	ND
BBMW-16S	5-15	ND
BBMW-22S	5-10	1,664
BBMW-23S	5-15	1,673
BBMW-24S	4-14	ND
BBMW-25S	4-14	ND
MW-03S	3-13	ND
GM-05S	5.1-20.1	5
MW-05S	4-14	1,052
MW-09S	4-14	ND
OU2IW-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	341
OU2MW-22S	5-15	ND
OU2MW-23S	5-15	ND
OU2MW-24S	5-15	ND
OU2MW-25S	5-15	ND
OU2MW-26S	6-11	ND
OU2MW-28S	5-15	ND
OU2MW-30S	5-15	10
OU2MW-32S	5-15	63
OU2MW-33S	5-15	ND
OU2MW-34S	5-15	ND
OU2MW-35S	5-15	ND
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	ND
OU2MW-45S	5-15	9
OU2MW-46S	5-15	31
OU2MW-47S	5-15	ND
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-22S	5-15	1,850

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-3		
BBMW-09S	5-15	ND
BBMW-28S	2-12	ND
BBMW-29	2-9	ND
BBMW-30S	2-10	ND
BBMW-31S	2-10	ND
BBMW-32S	2-10	ND
BBMW-33	7-12	ND
BW-UST-10	4.65-9.95	ND
BW-UST-11	4.4-9.4	ND
BW-UST-28	5-10	ND
BW-UST-29	5-10	ND
IO-10	6-16	ND
MW-02SR	2-12	ND
MW-03	4.94-14.94	ND
MW-04	5.1-15.1	ND
MW-11W	2-10	ND
MW-12W	2-12	ND
MW-16SR	2-12	28
MW-29S	2-10	ND
MW-30WR	2-10	ND
MW-32WR	2-9	3
MW-34S	2-10	83
MW-45W	2-10	10
MW-46WR	2-10	39
MW-66S	1.5-11.5	ND
MW-70/70S	2-12	14
MW-73	2-12	97
MW-75	2-12	1
MW-76	2-12	ND
MW-78	5-20	ND
MW-79	5-20	13
MW-80	5-20	522
MW-81	5-20	19
MW-82	5-20	ND
MW-83	5-20	ND
MW-BS-02S	5-15	3
PDMW-01	5-20	ND
PDMW-02	5-20	2,797
PDMW-03	5-15	2,100
SV-02	2-12	ND
SV-03	2-12	ND
OU-4		
WCMW-01S	2-12	ND
WCMW-02S	3-13	ND
WCMW-03S	4.93-9.83	243
WCMW-04S	1.6-11.6	43
WCMW-05S	1.4-11.4	5
WCMW-06S	2-12	ND
WCMW-09S	5-15	ND
WCMW-11S	5-15	624
WCMW-12S	3-13	4
WCMW-13S	3-13	ND
WCMW-14S	2-12	ND
WCMW-16S	2-12	24
WCMW-17S	2-12	245

Q4 2013

Q4 2013 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-22S	5 - 10	6,024
BBMW-23S	5 - 15	725
BBMW-34S	5 - 15	117
BBMW-37S	5 - 10	383
BBMW-38S	5 - 15	234
BBMW-39S	5 - 15	137
BBMW-40S	5 - 15	1,808
BBMW-41S	6 - 16	1,613
BBMW-42S	5 - 10	720
BBMW-43S	5 - 10	ND
MW-03S	3 - 13	1
MW-05S	4 - 14	1,546
OU2MW-12S	3 - 7	ND
OU2MW-30S	5 - 15	ND
OU2MW-39S	5 - 15	ND
OU2MW-40S	5 - 15	ND
OU2MW-47S	5 - 15	ND
OU2MW-50S	5 - 15	ND
OU2MW-57S	5 - 15	72
OZMW-16S	5 - 15	2
OZMW-17S	5 - 15	2
OZMW-18S	5 - 15	ND
OZMW-19S	5 - 15	641
OZMW-22S/22SR	5 - 15	1
OZMW-23S	5 - 15	ND
OZMW-24S	5 - 15	4
OZMW-25S	5 - 15	5,255
OZMW-26S	5 - 15	1
OU-3		
BBMW-28S	2 - 12	ND
BBMW-29	2 - 9	ND
BBMW-31S	2 - 10	ND
BBMW-33	7 - 12	ND
IO-10	6 - 16	4
MW-12W	2 - 10	ND
MW-13W	2 - 10	ND
MW-30W/W-R	2 - 9	ND
MW-32WR	2 - 9	ND
MW-34S	2 - 10	ND
MW-37W	2 - 10	ND
MW-39W	2 - 10	ND
MW-45W	2 - 10	ND

Q4 2013 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-3		
MW-46WR	2 - 10	2
MW-66S	1.5 - 11.5	ND
MW-67S	2.5 - 12.5	ND
MW-70/70S	2 - 12	1
MW-73	2 - 12	**ND**
MW-75	2 - 12	ND
MW-76	2 - 12	ND
MW-78	5 - 20	4
MW-79	5 - 20	ND
MW-80	5 - 20	ND
MW-81	5 - 20	ND
MW-82	5 - 20	ND
MW-83	5 - 20	ND
MWBS-02S	5 - 15	ND
OU3MW-01S	3 - 13	ND
OU3MW-02S	3 - 13	ND
OU3MW-03S	1 - 11	ND
OU3MW-04S	1 - 11	ND
OU3MW-05S	2 - 12	ND
OU3MW-06	3 - 13	ND
OU3MW-07S	3 - 13	ND
OU3MW-08S	2 - 12	468
OU3MW-09S	2 - 12	ND
OU3MW-10S	2 - 12	ND
OU3MW-13S	2 - 12	ND
OU3MW-14S	2 - 12	3
OU3MW-15S	2 - 12	3
OU3MW-16S	2 - 12	8
OU3MW-17S	2 - 12	ND
OU3MW-19S	2 - 12	1,004
OU3MW-20S	2 - 12	11
OU3MW-21S	2 - 12	ND
SV-02	2 - 12	ND
SV-03	2 - 12	5
OU-4		
WCMW-02S	3 - 13	77
WCMW-05S	1.1 - 11.1	39
WCMW-11S	5 - 15	77
WCMW-13S	3 - 13	176
WCMW-14S	2 - 12	53
WCMW-26S	2 - 12	2,081
WCMW-29S	2 - 12	2,172
WCMW-31S	2 - 12	22
WCMW-32S	2 - 12	25

LEGEND:

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

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

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

March 2014 — Figure 4

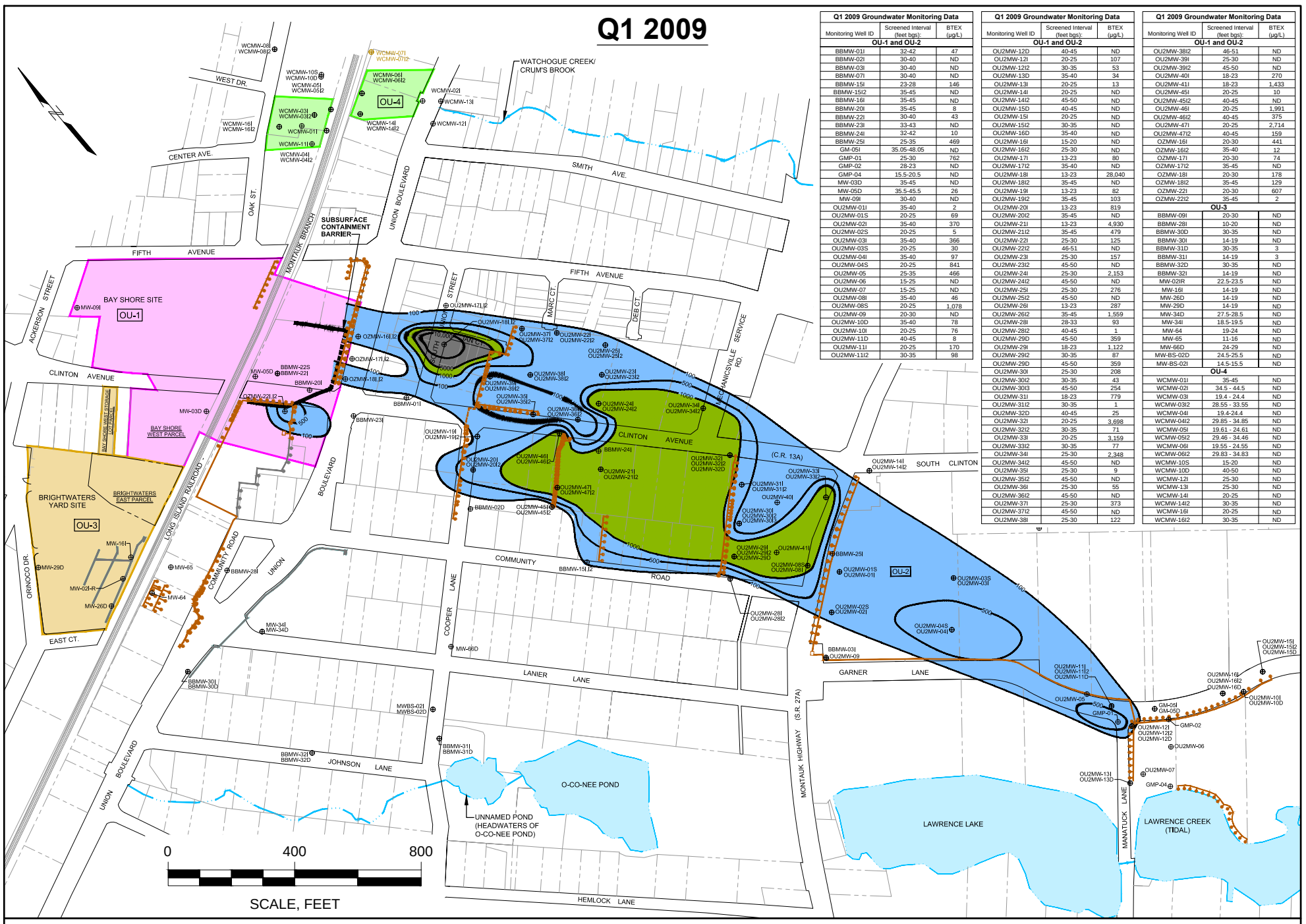
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Q1 2009

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

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

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



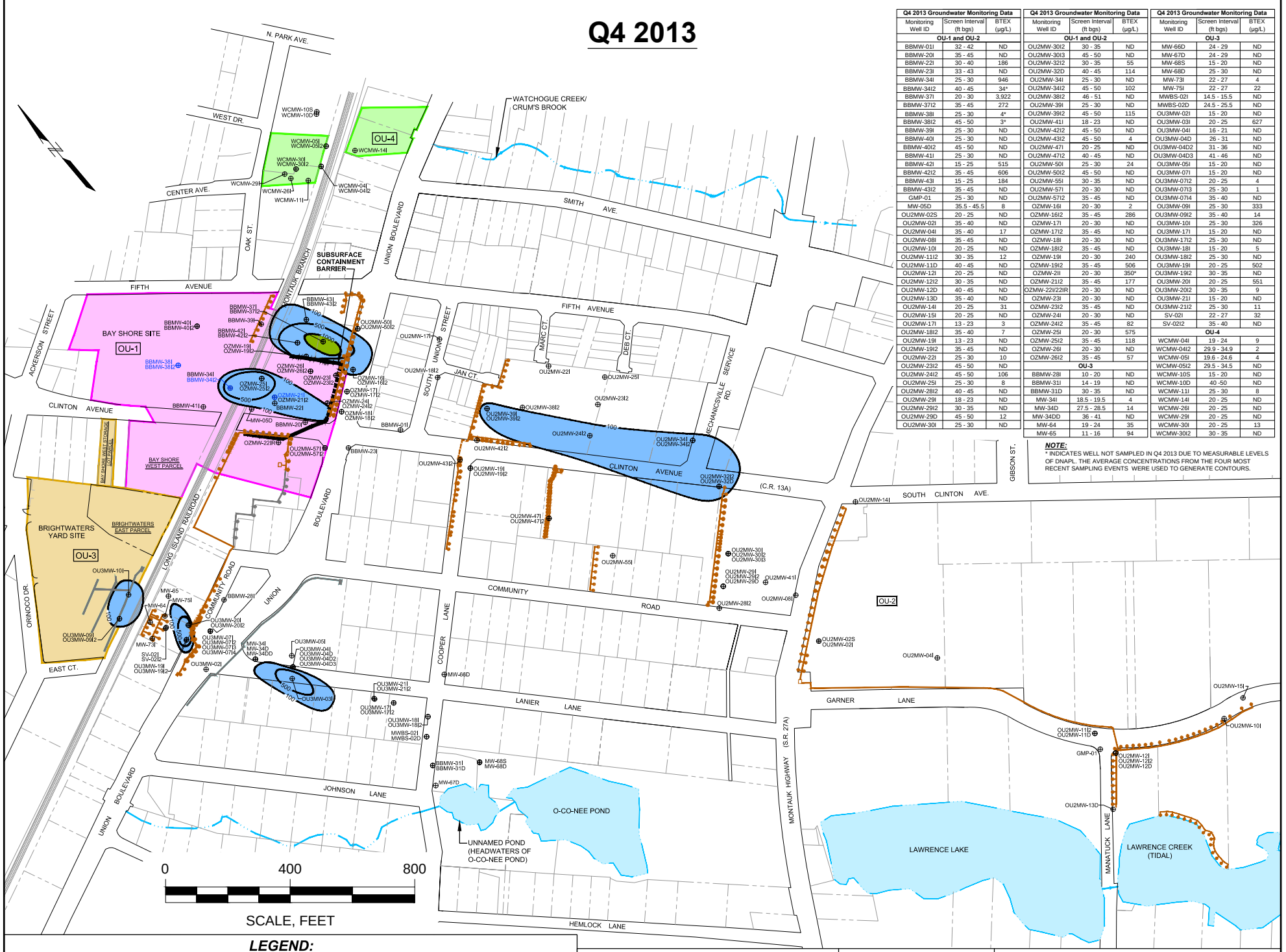
Q4 2013

Q4 2013 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01I	32 - 42	ND
BBMW-20I	35 - 45	ND
BBMW-22I	30 - 40	186
BBMW-23I	33 - 43	ND
BBMW-34I	25 - 30	946
BBMW-34I2	40 - 45	34*
BBMW-37I	20 - 30	3,922
BBMW-37I2	35 - 45	272
BBMW-38I	25 - 30	4*
BBMW-38I2	45 - 50	3*
BBMW-39I	25 - 30	ND
BBMW-40I	25 - 30	ND
BBMW-40I2	45 - 50	ND
BBMW-41I	25 - 30	ND
BBMW-42I	15 - 25	515
BBMW-42I2	35 - 45	606
BBMW-43I	15 - 25	184
BBMW-43I2	35 - 45	ND
GMP-01	25 - 30	ND
MW-05D	35.5 - 45.5	8
OU2MW-02S	20 - 25	ND
OU2MW-02I	35 - 40	ND
OU2MW-04I	35 - 40	17
OU2MW-08I	35 - 45	ND
OU2MW-10I	20 - 25	ND
OU2MW-11I2	30 - 35	12
OU2MW-11D	40 - 45	ND
OU2MW-12I	20 - 25	ND
OU2MW-12I2	30 - 35	ND
OU2MW-12D	40 - 45	ND
OU2MW-13D	35 - 40	ND
OU2MW-14I	20 - 25	31
OU2MW-15I	20 - 25	ND
OU2MW-17I	13 - 23	3
OU2MW-18I2	35 - 40	7
OU2MW-19I	13 - 23	ND
OU2MW-19I2	35 - 45	ND
OU2MW-22I	25 - 30	10
OU2MW-23I2	45 - 50	ND
OU2MW-24I2	45 - 50	106
OU2MW-25I	25 - 30	8
OU2MW-28I2	40 - 45	ND
OU2MW-29I	18 - 23	ND
OU2MW-29I2	30 - 35	ND
OU2MW-29D	45 - 50	12
OU2MW-30I	25 - 30	ND

Q4 2013 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
OU2MW-30I2	30 - 35	ND
OU2MW-30I3	45 - 50	ND
OU2MW-32I2	30 - 35	55
OU2MW-32D	40 - 45	114
OU2MW-34I	25 - 30	ND
OU2MW-34I2	45 - 50	102
OU2MW-38I2	46 - 51	ND
OU2MW-39I	25 - 30	ND
OU2MW-39I2	45 - 50	115
OU2MW-41I	18 - 23	ND
OU2MW-42I2	45 - 50	ND
OU2MW-43I2	45 - 50	4
OU2MW-47I	20 - 25	ND
OU2MW-47I2	40 - 45	ND
OU2MW-50I	25 - 30	24
OU2MW-50I2	45 - 50	ND
OU2MW-55I	30 - 35	ND
OU2MW-57I	20 - 30	ND
OU2MW-57I2	30 - 45	ND
OZMW-16I	20 - 30	2
OZMW-16I2	35 - 45	286
OZMW-17I	20 - 30	ND
OZMW-17I2	35 - 45	ND
OZMW-18I	20 - 30	ND
OZMW-18I2	35 - 45	ND
OZMW-19I	20 - 30	240
OZMW-19I2	35 - 45	506
OZMW-2II	20 - 30	350*
OZMW-21I2	35 - 45	177
OZMW-22I/22IR	20 - 30	ND
OZMW-23I	20 - 30	ND
OZMW-23I2	35 - 45	ND
OZMW-24I	20 - 30	ND
OZMW-24I2	35 - 45	82
OZMW-25I	20 - 30	575
OZMW-25I2	35 - 45	118
OZMW-26I	20 - 30	ND
OZMW-26I2	35 - 45	57
OU-3		
BBMW-28I	10 - 20	ND
BBMW-31I	14 - 19	ND
BBMW-31D	30 - 35	ND
MW-34I	18.5 - 19.5	4
MW-34D	27.5 - 28.5	14
MW-34DD	36 - 41	ND
MW-64	19 - 24	35
MW-65	11 - 16	94

Q4 2013 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-3		
MW-66D	24 - 29	ND
MW-67D	24 - 29	ND
MW-68S	15 - 20	ND
MW-68D	25 - 30	ND
MW-73I	22 - 27	4
MW-75I	22 - 27	22
MWBS-02I	14.5 - 15.5	ND
MWBS-02D	24.5 - 25.5	ND
OU3MW-02I	15 - 20	ND
OU3MW-03I	20 - 25	627
OU3MW-04I	16 - 21	ND
OU3MW-04D	26 - 31	ND
OU3MW-04D2	31 - 36	ND
OU3MW-04D3	41 - 46	ND
OU3MW-05I	15 - 20	ND
OU3MW-07I	15 - 20	ND
OU3MW-07I2	20 - 25	4
OU3MW-07I3	25 - 30	1
OU3MW-07I4	35 - 40	ND
OU3MW-09I	25 - 30	333
OU3MW-09I2	35 - 40	14
OU3MW-10I	25 - 30	326
OU3MW-17I	15 - 20	ND
OU3MW-17I2	25 - 30	ND
OU3MW-18I	15 - 20	5
OU3MW-18I2	25 - 30	ND
OU3MW-19I	20 - 25	502
OU3MW-19I2	30 - 35	ND
OU3MW-20I	20 - 25	551
OU3MW-20I2	30 - 35	9
OU3MW-21I	15 - 20	ND
OU3MW-21I2	25 - 30	11
SV-02I	22 - 27	32
SV-02I2	35 - 40	ND
OU-4		
WCMW-04I	19 - 24	9
WCMW-04I2	29.9 - 34.9	2
WCMW-05I	19.6 - 24.6	4
WCMW-05I2	29.5 - 34.5	ND
WCMW-10S	15 - 20	ND
WCMW-10D	40 -50	ND
WCMW-11I	25 - 30	8
WCMW-14I	20 - 25	ND
WCMW-26I	20 - 25	ND
WCMW-29I	20 - 25	ND
WCMW-30I	20 - 25	13
WCMW-30I2	30 - 35	ND

NOTE:
* INDICATES WELL NOT SAMPLED IN Q4 2013 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.



LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-38I — WELL NOT SAMPLED IN Q3 2013 DUE TO MEASURABLE LEVELS OF DNAPL
- µg/L — MICROGRAMS PER LITER
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- BTEX ≧5,000 µg/L
- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- BTEX — ISO-CONCENTRATION LINE (µg/L) BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE

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

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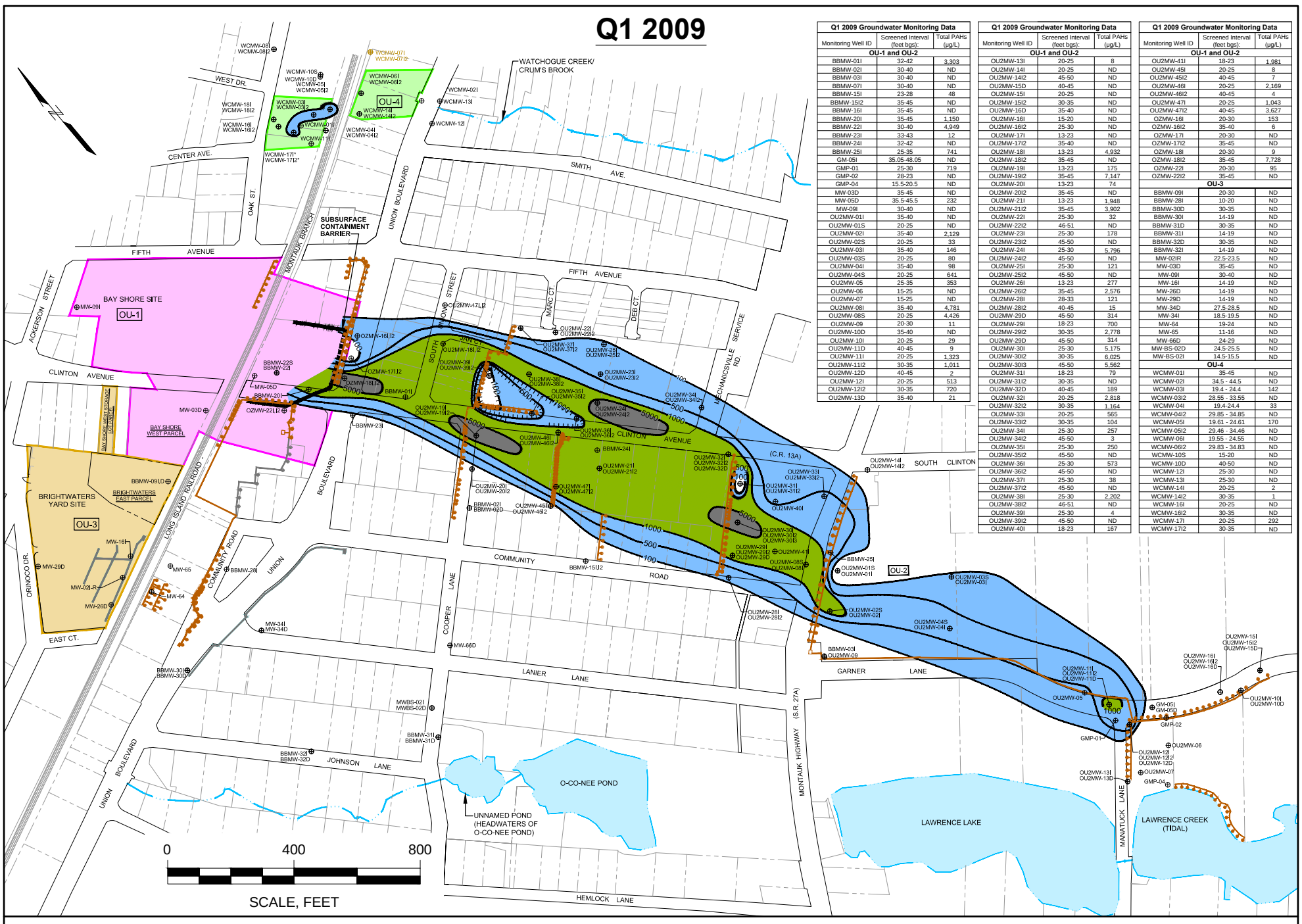
Project 093180-5-1506

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

March 2014 — Figure 5

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Q1 2009



Q1 2009 Groundwater Monitoring Data

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

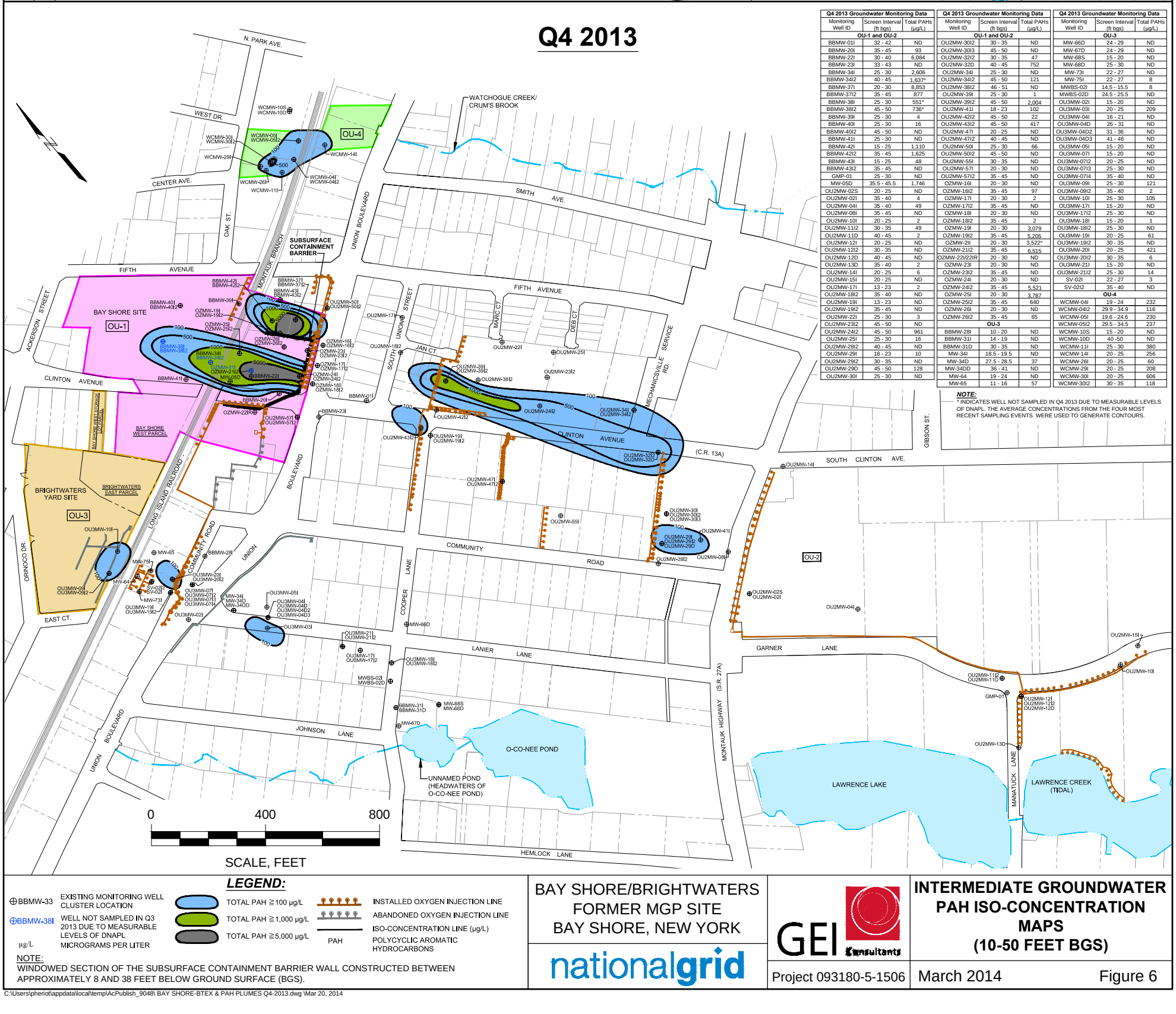
Q1 2009 Groundwater Monitoring Data

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

Q1 2009 Groundwater Monitoring Data

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

Q4 2013



Q4 2013 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01I	32 - 42	ND
BBMW-20I	35 - 45	93
BBMW-22I	30 - 40	6,084
BBMW-23I	33 - 43	ND
BBMW-34I	25 - 30	2,606
BBMW-34I2	40 - 45	1,637*
BBMW-37I	20 - 30	8,853
BBMW-37I2	35 - 45	877
BBMW-38I	25 - 30	551*
BBMW-38I2	45 - 50	736*
BBMW-39I	25 - 30	4
BBMW-40I	25 - 30	16
BBMW-40I2	45 - 50	ND
BBMW-41I	25 - 30	ND
BBMW-42I	15 - 25	1,110
BBMW-42I2	35 - 45	1,625
BBMW-43I	15 - 25	48
BBMW-43I2	35 - 45	ND
GMP-01	25 - 30	ND
MW-05D	35.5 - 45.5	1,746
OU2MW-02S	20 - 25	ND
OU2MW-02I	35 - 40	4
OU2MW-04I	35 - 40	49
OU2MW-08I	35 - 45	ND
OU2MW-10I	20 - 25	2
OU2MW-11I2	30 - 35	49
OU2MW-11D	40 - 45	2
OU2MW-12I	20 - 25	ND
OU2MW-12I2	30 - 35	ND
OU2MW-12D	40 - 45	ND
OU2MW-13D	35 - 40	2
OU2MW-14I	20 - 25	6
OU2MW-15I	20 - 25	ND
OU2MW-17I	13 - 23	2
OU2MW-18I2	35 - 40	ND
OU2MW-19I	13 - 23	ND
OU2MW-19I2	35 - 45	ND
OU2MW-22I	25 - 30	3
OU2MW-23I2	45 - 50	ND
OU2MW-24I2	45 - 50	961
OU2MW-25I	25 - 30	16
OU2MW-28I2	40 - 45	ND
OU2MW-29I	18 - 23	10
OU2MW-29I2	30 - 35	ND
OU2MW-30I	25 - 30	ND

Q4 2013 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-30I2	30 - 35	ND
OU2MW-30I3	45 - 50	ND
OU2MW-32I2	30 - 35	47
OU2MW-32D	40 - 45	752
OU2MW-34I	25 - 30	ND
OU2MW-34I2	45 - 50	121
OU2MW-38I2	46 - 51	ND
OU2MW-39I	25 - 30	1
OU2MW-39I2	45 - 50	2,004
OU2MW-41I	18 - 23	102
OU2MW-42I2	45 - 50	22
OU2MW-43I2	45 - 50	417
OU2MW-47I	20 - 25	ND
OU2MW-47I2	40 - 45	ND
OU2MW-50I	25 - 30	66
OU2MW-50I2	45 - 50	ND
OU2MW-55I	30 - 35	ND
OU2MW-57I	20 - 30	ND
OU2MW-57I2	35 - 45	ND
OZMW-16I	20 - 30	ND
OZMW-16I2	35 - 45	97
OZMW-17I	20 - 30	2
OZMW-17I2	35 - 45	ND
OZMW-18I	20 - 30	ND
OZMW-18I2	35 - 45	2
OZMW-19I	20 - 30	3,079
OZMW-19I2	35 - 45	5,205
OZMW-2II	20 - 30	3,522*
OZMW-21I2	35 - 45	6,515
OZMW-22I/22IR	20 - 30	ND
OZMW-23I	20 - 30	ND
OZMW-23I2	35 - 45	ND
OZMW-24I	20 - 30	ND
OZMW-24I2	35 - 45	5,521
OZMW-25I	20 - 30	3,787
OZMW-25I2	35 - 45	640
OZMW-26I	20 - 30	ND
OZMW-26I2	35 - 45	65
OU-3		
BBMW-28I	10 - 20	ND
BBMW-31I	14 - 19	ND
BBMW-31D	30 - 35	ND
MW-34I	18.5 - 19.5	ND
MW-34D	27.5 - 28.5	37
MW-34DD	36 - 41	ND
MW-64	19 - 24	ND
MW-65	11 - 16	57

Q4 2013 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-3		
MW-66D	24 - 29	ND
MW-67D	24 - 29	ND
MW-68S	15 - 20	ND
MW-68D	25 - 30	ND
MW-73I	22 - 27	ND
MW-75I	22 - 27	8
MWBS-02I	14.5 - 15.5	8
MWBS-02D	24.5 - 25.5	ND
OU3MW-02I	15 - 20	ND
OU3MW-03I	20 - 25	209
OU3MW-04I	16 - 21	ND
OU3MW-04D	26 - 31	ND
OU3MW-04D2	31 - 36	ND
OU3MW-04D3	41 - 46	ND
OU3MW-05I	15 - 20	ND
OU3MW-07I	15 - 20	ND
OU3MW-07I2	20 - 25	ND
OU3MW-07I3	25 - 30	ND
OU3MW-07I4	35 - 40	ND
OU3MW-09I	25 - 30	121
OU3MW-09I2	35 - 40	2
OU3MW-10I	25 - 30	105
OU3MW-17I	15 - 20	ND
OU3MW-17I2	25 - 30	ND
OU3MW-18I	15 - 20	1
OU3MW-18I2	25 - 30	ND
OU3MW-19I	20 - 25	61
OU3MW-19I2	30 - 35	ND
OU3MW-20I	20 - 25	421
OU3MW-20I2	30 - 35	6
OU3MW-21I	15 - 20	ND
OU3MW-21I2	25 - 30	14
SV-02I	22 - 27	3
SV-02I2	35 - 40	ND
OU-4		
WCMW-04I	19 - 24	232
WCMW-04I2	29.9 - 34.9	116
WCMW-05I	19.6 - 24.6	230
WCMW-05I2	29.5 - 34.5	237
WCMW-10S	15 - 20	ND
WCMW-10D	40 -50	ND
WCMW-11I	25 - 30	380
WCMW-14I	20 - 25	256
WCMW-26I	20 - 25	60
WCMW-29I	20 - 25	208
WCMW-30I	20 - 25	606
WCMW-30I2	30 - 35	118

NOTE:
* INDICATES WELL NOT SAMPLED IN Q4 2013 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.

LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-38I — WELL NOT SAMPLED IN Q3 2013 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
- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS

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

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

March 2014

Figure 6

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Q1 2009

Q1 2009 Groundwater Monitoring Data

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

Q4 2013

Q4 2013 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5 - 78.5	6
BBMW-05D	64- 74	941
BBMW-23D	49.5 - 59.5	ND
BBMW-23D2	63 - 73	ND
BBMW-25D	62 - 72	ND
OZMW-16D	55 - 65	ND
OZMW-17D	53 - 63	122
OZMW-18D	55 - 65	136
OZMW-19D	55 - 65	20
OZMW-23D	55 - 65	ND
OZMW-24D	55 - 65	642
OZMW-25D	55 - 65	1
OZMW-26D	55 - 65	ND
OU2MW-02I2	50 - 55	6
OU2MW-02D	65 - 70	ND
OU2MW-08I2	50 - 55	21
OU2MW-19D	65 - 70	137
OU2MW-26D	60 - 70	1
OU2MW-27D	65 - 70	ND
OU2MW-30D	50 - 55	ND
OU2MW-30D2	60 - 65	2
OU2MW-33D	50 - 55	40
OU2MW-39D	70 - 75	ND
OU2MW-42D	60 - 65	1,219
OU2MW-43D	65 - 70	484
OU2MW-47D	60 - 65	ND
OU2MW-50D	65 - 70	ND
OU2MW-55I2	50 - 55	ND
OU2MW-55D	65 - 70	ND

LEGEND:

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

SCALE, FEET

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Project 093180-5-1506

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

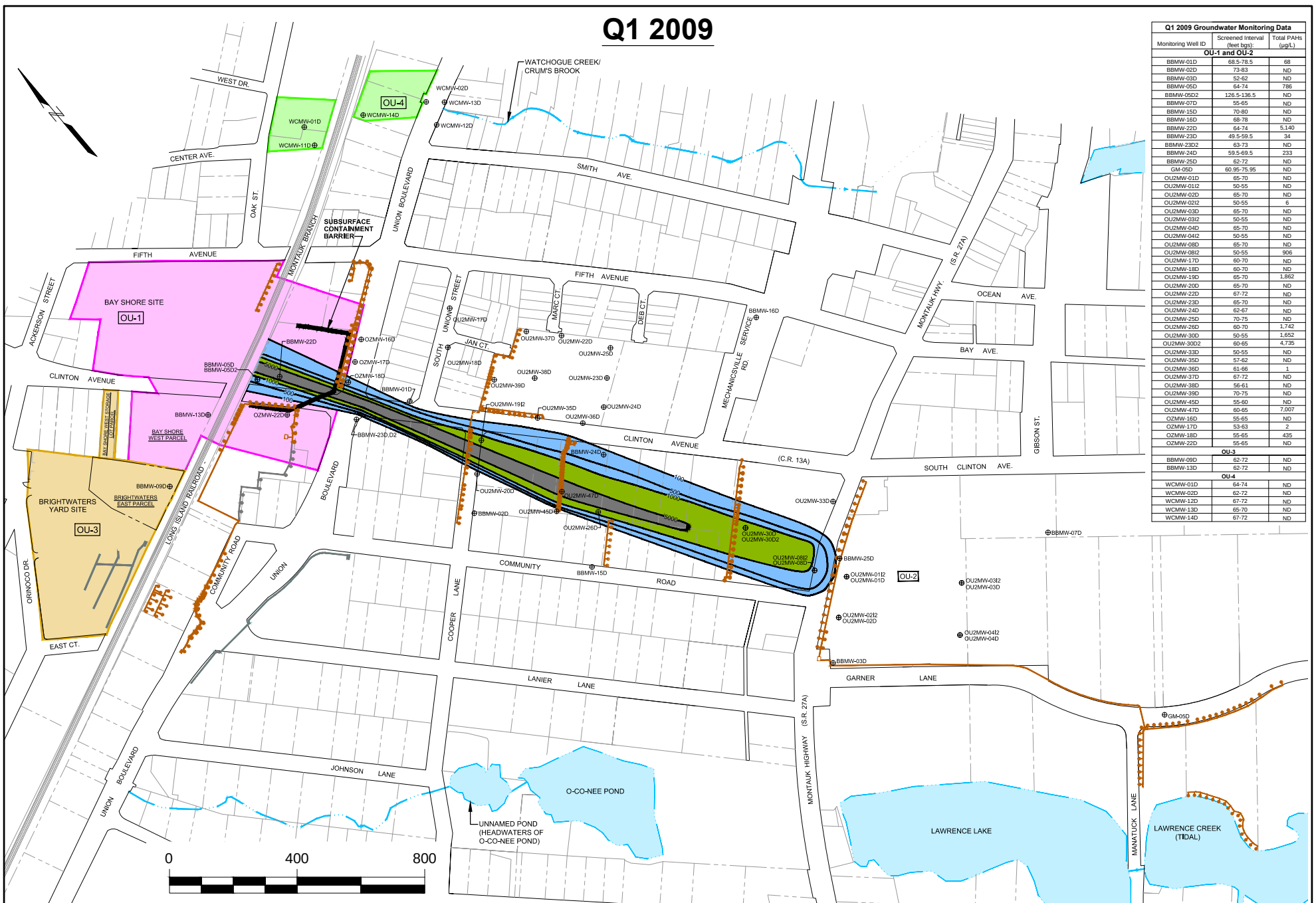
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Figure 7

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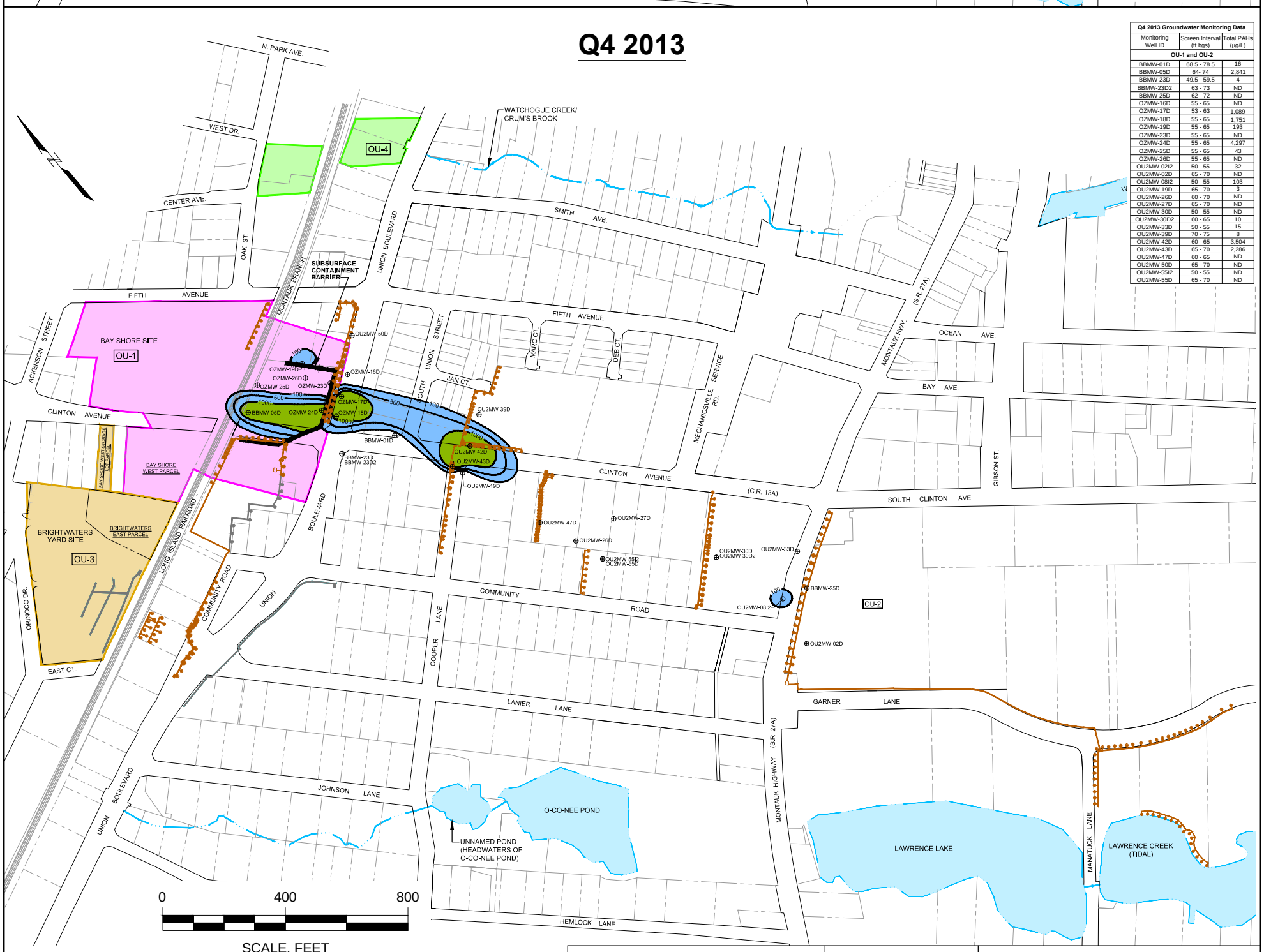
Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	68
BBMW-02D	73-83	ND
BBMW-03D	52-62	ND
BBMW-05D	64-74	786
BBMW-05D2	126.5-136.5	ND
BBMW-07D	55-65	ND
BBMW-15D	70-80	ND
BBMW-16D	68-78	ND
BBMW-22D	64-74	5,140
BBMW-23D	49.5-59.5	34
BBMW-23D2	63-73	ND
BBMW-24D	59.5-69.5	233
BBMW-25D	62-72	ND
GM-05D	60.95-75.95	ND
OU2MW-01D	65-70	ND
OU2MW-01I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-02I2	50-55	6
OU2MW-03D	65-70	ND
OU2MW-03I2	50-55	ND
OU2MW-04D	65-70	ND
OU2MW-04I2	50-55	ND
OU2MW-08D	65-70	ND
OU2MW-08I2	50-55	906
OU2MW-17D	60-70	ND
OU2MW-18D	60-70	ND
OU2MW-19D	65-70	1,862
OU2MW-20D	65-70	ND
OU2MW-22D	67-72	ND
OU2MW-23D	65-70	ND
OU2MW-24D	62-67	ND
OU2MW-25D	70-75	ND
OU2MW-26D	60-70	1,742
OU2MW-30D	50-55	1,652
OU2MW-30D2	60-65	4,735
OU2MW-33D	50-55	ND
OU2MW-35D	57-62	ND
OU2MW-36D	61-66	1
OU2MW-37D	67-72	ND
OU2MW-38D	56-61	ND
OU2MW-39D	70-75	ND
OU2MW-45D	55-60	ND
OU2MW-47D	60-65	7,007
OZMW-16D	55-65	ND
OZMW-17D	53-63	2
OZMW-18D	55-65	435
OZMW-22D	55-65	ND
OU-3		
BBMW-09D	62-72	ND
BBMW-13D	62-72	ND
OU-4		
WCMW-01D	64-74	ND
WCMW-02D	62-72	ND
WCMW-12D	67-72	ND
WCMW-13D	65-70	ND
WCMW-14D	67-72	ND



Q4 2013

Q4 2013 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5 - 78.5	16
BBMW-05D	64- 74	2,841
BBMW-23D	49.5 - 59.5	4
BBMW-23D2	63 - 73	ND
BBMW-25D	62 - 72	ND
OZMW-16D	55 - 65	ND
OZMW-17D	53 - 63	1,089
OZMW-18D	55 - 65	1,751
OZMW-19D	55 - 65	193
OZMW-23D	55 - 65	ND
OZMW-24D	55 - 65	4,297
OZMW-25D	55 - 65	43
OZMW-26D	55 - 65	ND
OU2MW-02I2	50 - 55	32
OU2MW-02D	65 - 70	ND
OU2MW-08I2	50 - 55	103
OU2MW-19D	65 - 70	3
OU2MW-26D	60 - 70	ND
OU2MW-27D	65 - 70	ND
OU2MW-30D	50 - 55	ND
OU2MW-30D2	60 - 65	10
OU2MW-33D	50 - 55	15
OU2MW-39D	70 - 75	8
OU2MW-42D	60 - 65	3,504
OU2MW-43D	65 - 70	2,286
OU2MW-47D	60 - 65	ND
OU2MW-50D	65 - 70	ND
OU2MW-55I2	50 - 55	ND
OU2MW-55D	65 - 70	ND



LEGEND:

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

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

Project 093180-5-1506 | March 2014 | Figure 8

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Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01S	5-15	284
BBMW-02S	5-15	ND
BBMW-03S	3-13	ND
BBMW-07S	5-15	ND
BBMW-15S	5-15	ND
BBMW-16S	5-15	ND
BBMW-22S	5-10	10,730
BBMW-23S	5-15	11,860
BBMW-24S	4-14	ND
BBMW-25S	4-14	ND
GM-05S	5.1-20.1	8
MW-03S	3-13	34
MW-05S	4-14	9,600
OU2IW-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	23
OU2MW-39S	5-15	ND
OU2MW-40S	5-15	ND
OU2MW-41S	5-15	8
OU2MW-45S	5-15	60
OU2MW-46S	5-15	422
OU2MW-47S	5-15	146
OZMW-16S	5-15	ND
OZMW-17S	5-15	141
OZMW-18S	5-15	244
OZMW-22S	5-15	11,947

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	BTEX (µg/L)
OU-3		
BBMW-09S	5-15	ND
BBMW-28S	2-12	ND
BBMW-29	2-9	ND
BBMW-30S	2-10	ND
BBMW-31S	2-10	2
BBMW-32S	2-10	ND
BBMW-33	7-12	ND
BW-UST-10	4.65-9.95	ND
BW-UST-11	4.4-9.4	ND
BW-UST-28	5-10	ND
BW-UST-29	5-10	ND
IO-10	6-16	ND
MW-02SR	2-12	812
MW-03	4.94-14.94	6
MW-04	5.1-15.1	ND
MW-09S	4-14	ND
MW-11W	2-10	ND
MW-12W	2-12	2
MW-16SR	2-12	3,275
MW-29S	2-10	ND
MW-30WR	2-10	ND
MW-32WR	2-9	232
MW-34S	2-10	3,636
MW-45W	2-10	4,210
MW-46WR	2-10	525
MW-66S	1.5-11.5	ND
MW-70/70S	2-12	1,124
MW-73	2-12	7,100
MW-75	2-12	569
MW-76	2-12	ND
MW-78	5-20	2,590
MW-79	5-20	10,100
MW-80	5-20	55,200
MW-81	5-20	257
MW-82	5-20	6,151
MW-83	5-20	ND
MW-BS-02S	5-15	98
PDMW-01	5-20	ND
PDMW-02	5-20	59,210
PDMW-03	5-15	14,511
SV-02	2-12	26
SV-03	2-12	29
OU-4		
WCMW-01S	2-12	3
WCMW-02S	3-13	ND
WCMW-03S	4.93-9.83	33
WCMW-04S	1.6-11.6	21
WCMW-05S	1.4-11.4	ND
WCMW-06S	2-12	ND
WCMW-09S	5-15	ND
WCMW-12S	3-13	ND
WCMW-13S	3-13	ND
WCMW-14S	2-12	ND
WCMW-16S	2-12	ND

Q1 2014

Q1 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-22S	5 - 10	5506
BBMW-23S	5 - 15	1418
BBMW-34S	5 - 15	165
BBMW-37S	5 - 10	7
BBMW-38S	5 - 15	305
BBMW-39S	5 - 15	623
BBMW-40S	5 - 15	572
BBMW-41S	6 - 16	4015
BBMW-42S	5 - 10	44
BBMW-43S	5 - 10	ND
MW-03S	3 - 13	2
MW-05S	4 - 14	3610
OU1PZ-101	4 - 14	1242.3
OU1PZ-102	4 - 14	15.2
OU1PZ-103	4 - 14	982
OU1PZ-104	4 - 14	6.4
OU1PZ-105	4 - 14	950
OU2MW-12S	3 - 7	ND
OU2MW-30S	5 - 15	ND
OU2MW-39S	5 - 15	ND
OU2MW-40S	5 - 15	ND
OU2MW-47S	5 - 15	ND
OU2MW-50S	5 - 15	ND
OU2MW-55S	5 - 15	ND
OU2MW-57S	5 - 15	16
OZMW-16S	5 - 15	ND
OZMW-17S	5 - 15	ND
OZMW-18S	5 - 15	ND
OZMW-19S	5 - 15	291
OZMW-22S/22SR	5 - 15	76
OZMW-23S	5 - 15	ND
OZMW-24S	5 - 15	ND
OZMW-25S	5 - 15	663
OU-3		
BBMW-28S	2 - 12	ND
BBMW-29	2 - 9	ND
BBMW-31S	2 - 10	ND
BBMW-33	7 - 12	ND
IO-10	6 - 16	ND
MW-11W	2 - 10	ND
MW-12W	2 - 10	ND
MW-13W	2 - 10	ND
MW-30W/W-R	2 - 9	ND
MW-32WR	2 - 9	ND
MW-34S	2 - 10	ND
MW-37W	2 - 10	ND

Q1 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-3		
MW-39W	2 - 10	ND
MW-45W	2 - 10	ND
MW-46WR	2 - 10	ND
MW-66S	2.5 - 12.5	ND
MW-67S	24 - 29	ND
MW-70/70S	2 - 12	ND
MW-73	2 - 12	11
MW-75	2 - 12	ND
MW-76	2 - 12	ND
MW-78	5 - 20	7
MW-79	5 - 20	6
MW-80	5 - 20	421
MW-81	5 - 20	6
MW-82	5 - 20	ND
MW-83	5 - 20	27
MWBS-02S	5 - 15	ND
OU3MW-01S	3 - 13	ND
OU3MW-02S	3 - 13	ND
OU3MW-03S	1 - 11	2
OU3MW-04S	1 - 11	ND
OU3MW-05S	2 - 12	ND
OU3MW-06	3 - 13	ND
OU3MW-07S	3 - 13	ND
OU3MW-08S	2 - 12	2240
OU3MW-09S	2 - 12	ND
OU3MW-10S	2 - 12	ND
OU3MW-13S	2 - 12	277
OU3MW-14S	2 - 12	9
OU3MW-15S	2 - 12	ND
OU3MW-16S	2 - 12	200
OU3MW-17S	2 - 12	ND
OU3MW-19S	2 - 12	4410
OU3MW-20S	2 - 12	3
OU3MW-21S	2 - 12	ND
SV-02	2 - 12	ND
SV-03	2 - 12	ND
OU-4		
WCMW-02S	3 - 13	ND
WCMW-05S	1.1 - 11.1	ND
WCMW-11S	5 - 15	8
WCMW-13S	3 - 13	9
WCMW-14S	2 - 12	ND
WCMW-26S	2 - 12	64
WCMW-29S	2 - 12	77
WCMW-31S	2 - 12	ND
WCMW-32S	2 - 12	ND

LEGEND:

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

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

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FORMER MGP SITE
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WATER TABLE GROUNDWATER BTEX ISO-CONCENTRATION MAPS (0-10 FEET BGS)

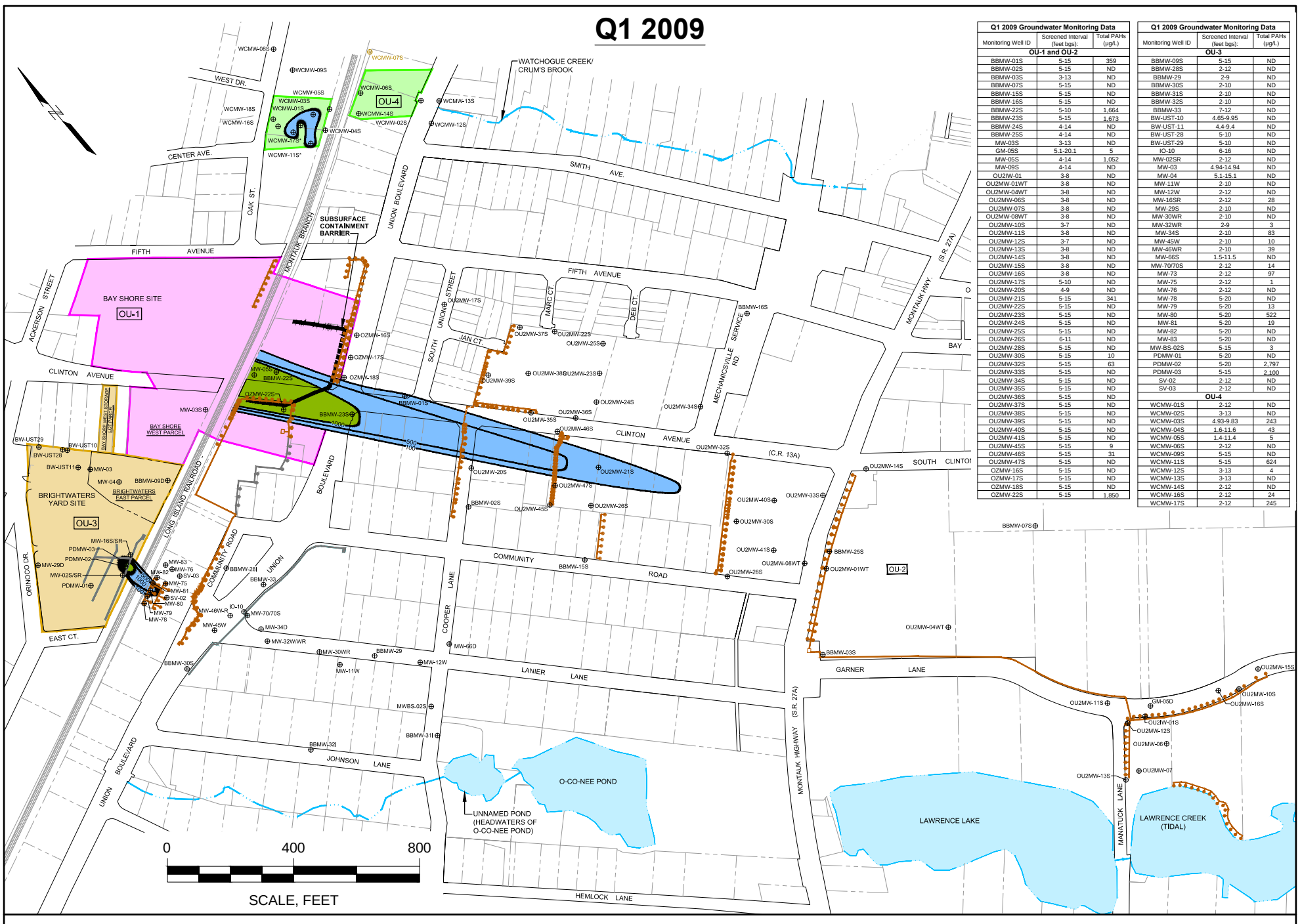
Project 093180-5-1506 | July 2014 | Figure 3

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Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01S	5-15	359
BBMW-02S	5-15	ND
BBMW-03S	3-13	ND
BBMW-07S	5-15	ND
BBMW-15S	5-15	ND
BBMW-16S	5-15	ND
BBMW-22S	5-10	1,664
BBMW-23S	5-15	1,673
BBMW-24S	4-14	ND
BBMW-25S	4-14	ND
MW-03S	3-13	ND
GM-05S	5.1-20.1	5
MW-05S	4-14	1,052
MW-09S	4-14	ND
OU2IW-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	341
OU2MW-22S	5-15	ND
OU2MW-23S	5-15	ND
OU2MW-24S	5-15	ND
OU2MW-25S	5-15	ND
OU2MW-26S	6-11	ND
OU2MW-28S	5-15	ND
OU2MW-30S	5-15	10
OU2MW-32S	5-15	63
OU2MW-33S	5-15	ND
OU2MW-34S	5-15	ND
OU2MW-35S	5-15	ND
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	ND
OU2MW-45S	5-15	9
OU2MW-46S	5-15	31
OU2MW-47S	5-15	ND
OZMW-16S	5-15	ND
OZMW-17S	5-15	ND
OZMW-18S	5-15	ND
OZMW-22S	5-15	1,850

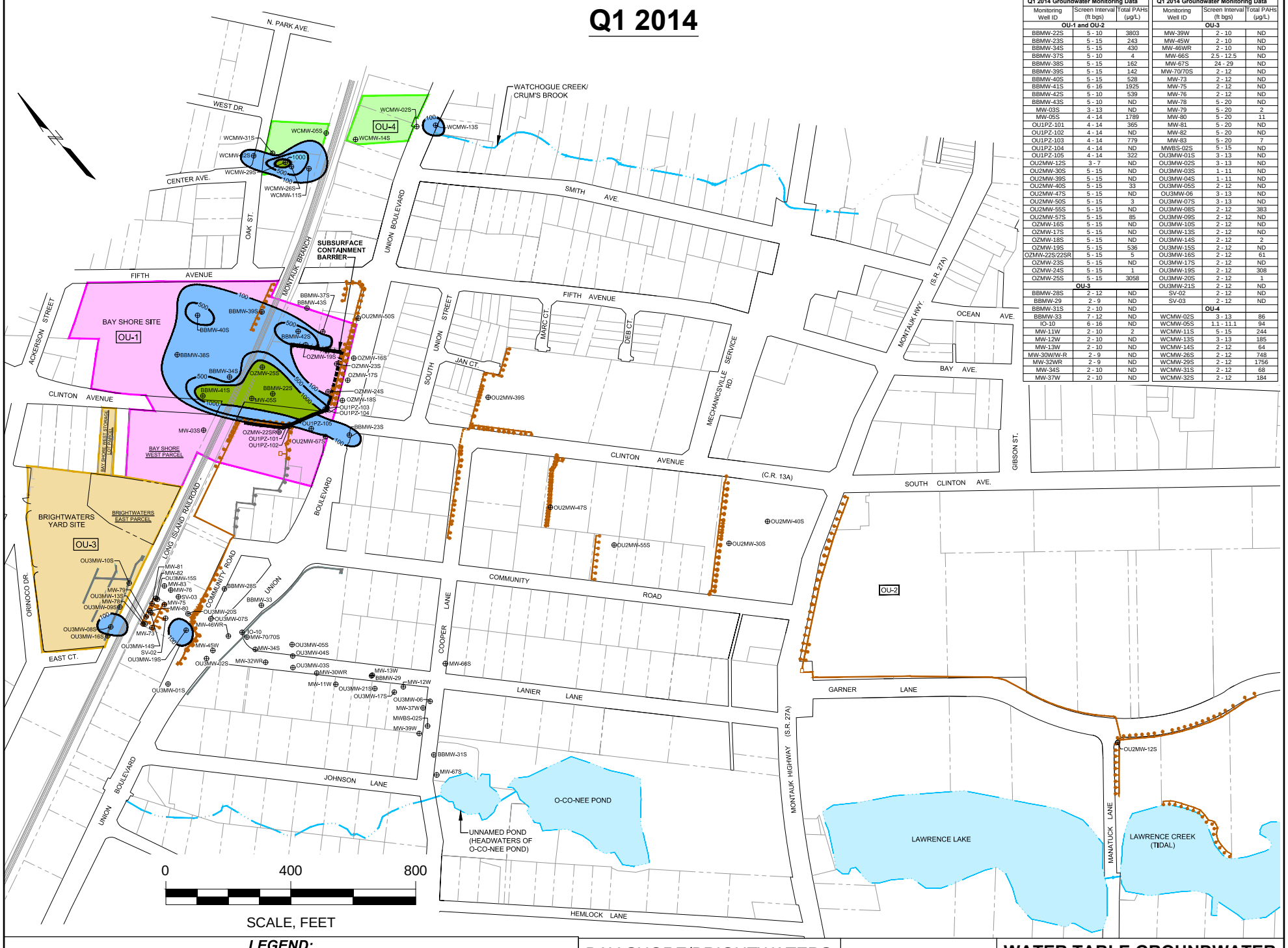
Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-3		
BBMW-09S	5-15	ND
BBMW-28S	2-12	ND
BBMW-29	2-9	ND
BBMW-30S	2-10	ND
BBMW-31S	2-10	ND
BBMW-32S	2-10	ND
BBMW-33	7-12	ND
BW-UST-10	4.65-9.95	ND
BW-UST-11	4.4-9.4	ND
BW-UST-28	5-10	ND
BW-UST-29	5-10	ND
IO-10	6-16	ND
MW-02SR	2-12	ND
MW-03	4.94-14.94	ND
MW-04	5.1-15.1	ND
MW-11W	2-10	ND
MW-12W	2-12	ND
MW-16SR	2-12	28
MW-29S	2-10	ND
MW-30WR	2-10	ND
MW-32WR	2-9	3
MW-34S	2-10	83
MW-45W	2-10	10
MW-46WR	2-10	39
MW-66S	1.5-11.5	ND
MW-70/70S	2-12	14
MW-73	2-12	97
MW-75	2-12	1
MW-76	2-12	ND
MW-78	5-20	ND
MW-79	5-20	13
MW-80	5-20	522
MW-81	5-20	19
MW-82	5-20	ND
MW-83	5-20	ND
MW-BS-02S	5-15	3
PDMW-01	5-20	ND
PDMW-02	5-20	2,797
PDMW-03	5-15	2,100
SV-02	2-12	ND
SV-03	2-12	ND
OU-4		
WCMW-01S	2-12	ND
WCMW-02S	3-13	ND
WCMW-03S	4.93-9.83	243
WCMW-04S	1.6-11.6	43
WCMW-05S	1.4-11.4	5
WCMW-06S	2-12	ND
WCMW-09S	5-15	ND
WCMW-11S	5-15	624
WCMW-12S	3-13	4
WCMW-13S	3-13	ND
WCMW-14S	2-12	ND
WCMW-16S	2-12	24
WCMW-17S	2-12	245



Q1 2014

Q1 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-22S	5 - 10	3803
BBMW-23S	5 - 15	243
BBMW-34S	5 - 15	430
BBMW-37S	5 - 10	4
BBMW-38S	5 - 15	162
BBMW-39S	5 - 15	142
BBMW-40S	5 - 15	528
BBMW-41S	6 - 16	1925
BBMW-42S	5 - 10	539
BBMW-43S	5 - 10	ND
MW-03S	3 - 13	ND
OU1PZ-101	4 - 14	1789
OU1PZ-102	4 - 14	365
OU1PZ-103	4 - 14	ND
OU1PZ-104	4 - 14	779
OU1PZ-105	4 - 14	ND
OU2MW-12S	4 - 14	322
OU2MW-30S	3 - 7	ND
OU2MW-39S	5 - 15	ND
OU2MW-40S	5 - 15	33
OU2MW-47S	5 - 15	ND
OU2MW-50S	5 - 15	3
OU2MW-55S	5 - 15	ND
OU2MW-57S	5 - 15	85
OZMW-16S	5 - 15	ND
OZMW-17S	5 - 15	ND
OZMW-18S	5 - 15	ND
OZMW-19S	5 - 15	536
OZMW-22S/22SR	5 - 15	5
OZMW-23S	5 - 15	ND
OZMW-24S	5 - 15	1
OZMW-25S	5 - 15	3058
OU-3		
BBMW-28S	2 - 12	ND
BBMW-29	2 - 9	ND
BBMW-31S	2 - 10	ND
BBMW-33	7 - 12	ND
IO-10	6 - 16	ND
MW-11W	2 - 10	2
MW-12W	2 - 10	ND
MW-13W	2 - 10	ND
MW-30W/W-R	2 - 9	ND
MW-32WR	2 - 9	ND
MW-34S	2 - 10	ND
MW-37W	2 - 10	ND

Q1 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-3		
MW-39W	2 - 10	ND
MW-45W	2 - 10	ND
MW-46WR	2 - 10	ND
MW-66S	2.5 - 12.5	ND
MW-67S	24 - 29	ND
MW-70/70S	2 - 12	ND
MW-73	2 - 12	ND
MW-75	2 - 12	ND
MW-76	2 - 12	ND
MW-78	5 - 20	ND
MW-79	5 - 20	2
MW-80	5 - 20	11
MW-81	5 - 20	ND
MW-82	5 - 20	ND
MW-83	5 - 20	7
MWBS-02S	5 - 15	ND
OU3MW-01S	3 - 13	ND
OU3MW-02S	3 - 13	ND
OU3MW-03S	1 - 11	ND
OU3MW-04S	1 - 11	ND
OU3MW-05S	2 - 12	ND
OU3MW-06	3 - 13	ND
OU3MW-07S	3 - 13	ND
OU3MW-08S	2 - 12	383
OU3MW-09S	2 - 12	ND
OU3MW-10S	2 - 12	ND
OU3MW-13S	2 - 12	ND
OU3MW-14S	2 - 12	2
OU3MW-15S	2 - 12	ND
OU3MW-16S	2 - 12	61
OU3MW-17S	2 - 12	ND
OU3MW-19S	2 - 12	308
OU3MW-20S	2 - 12	1
OU3MW-21S	2 - 12	ND
SV-02	2 - 12	ND
SV-03	2 - 12	ND
OU-4		
WCMW-02S	3 - 13	86
WCMW-05S	1.1 - 11.1	94
WCMW-11S	5 - 15	244
WCMW-13S	3 - 13	185
WCMW-14S	2 - 12	64
WCMW-26S	2 - 12	748
WCMW-29S	2 - 12	1756
WCMW-31S	2 - 12	68
WCMW-32S	2 - 12	184



LEGEND:

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

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

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

July 2014

Figure 4

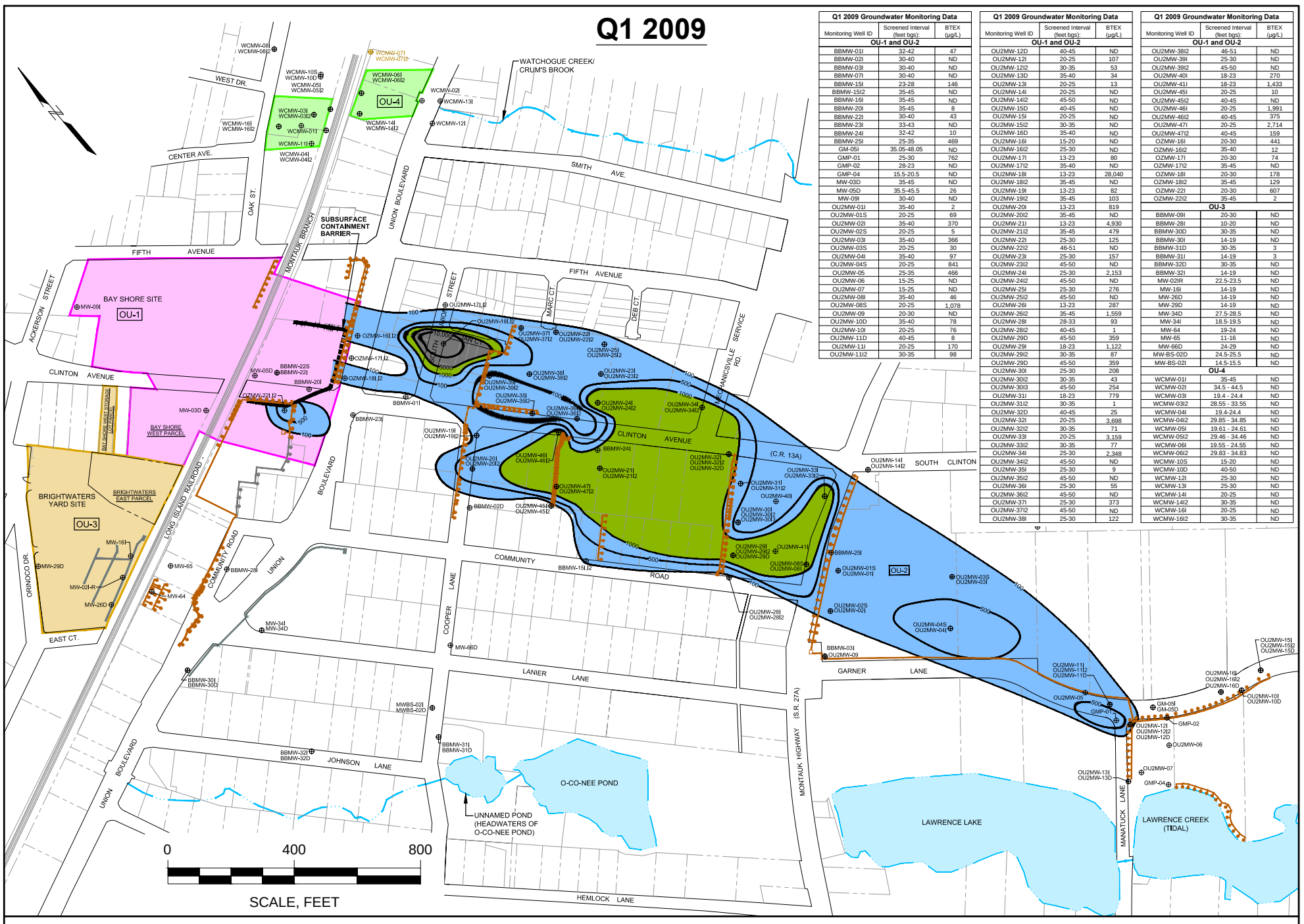
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Q1 2009

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

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

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



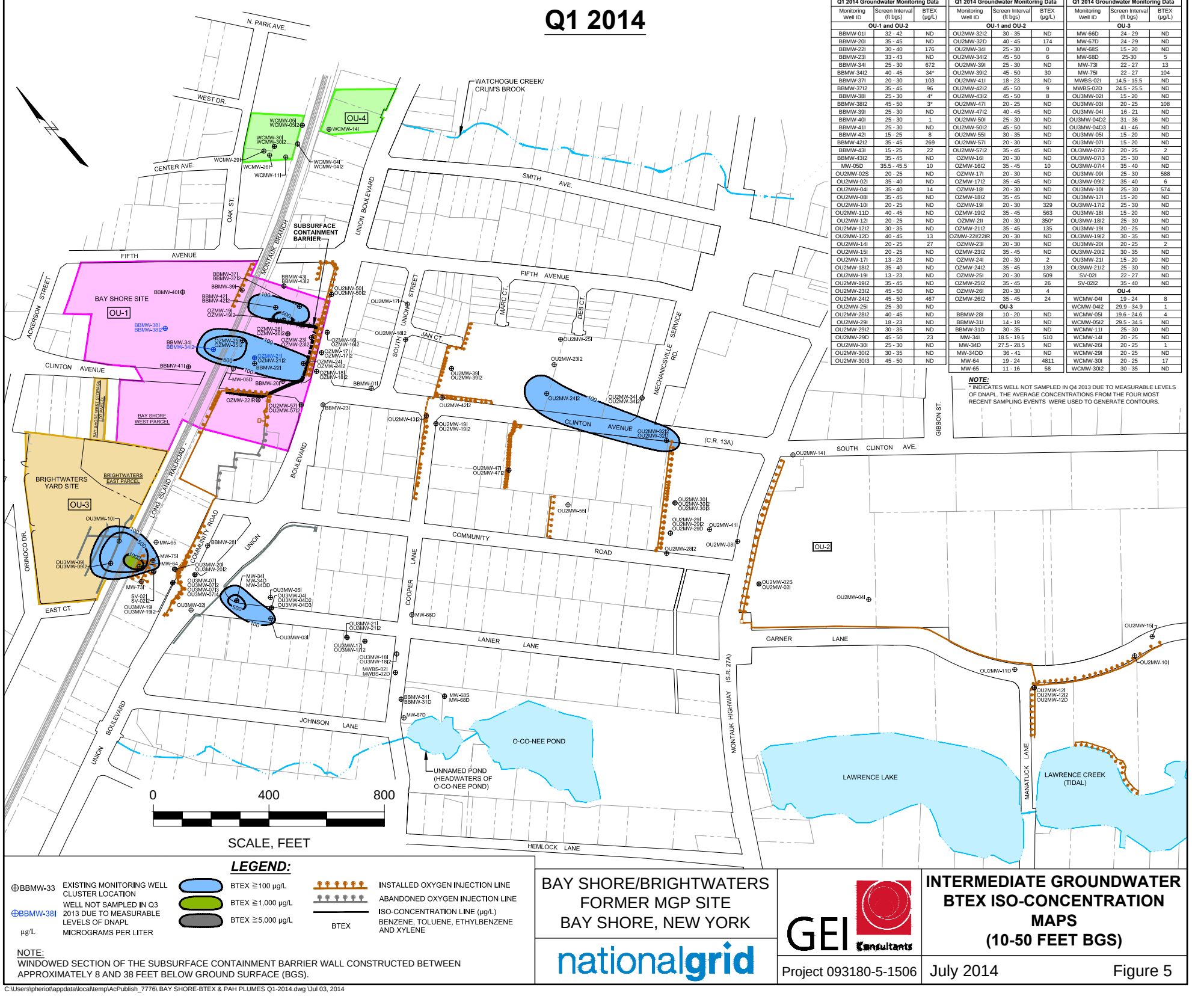
Q1 2014

Q1 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01I	32 - 42	ND
BBMW-20I	35 - 45	ND
BBMW-22I	30 - 40	176
BBMW-23I	33 - 43	ND
BBMW-34I	25 - 30	672
BBMW-34I2	40 - 45	34*
BBMW-37I	20 - 30	103
BBMW-37I2	35 - 45	96
BBMW-38I	25 - 30	4*
BBMW-38I2	45 - 50	3*
BBMW-39I	25 - 30	ND
BBMW-40I	25 - 30	1
BBMW-41I	25 - 30	ND
BBMW-42I	15 - 25	8
BBMW-42I2	35 - 45	269
BBMW-43I	15 - 25	22
BBMW-43I2	35 - 45	ND
MW-05D	35.5 - 45.5	10
OU2MW-02S	20 - 25	ND
OU2MW-02I	35 - 40	ND
OU2MW-04I	35 - 40	14
OU2MW-08I	35 - 45	ND
OU2MW-10I	20 - 25	ND
OU2MW-11D	40 - 45	ND
OU2MW-12I	20 - 25	ND
OU2MW-12I2	30 - 35	ND
OU2MW-12D	40 - 45	13
OU2MW-14I	20 - 25	27
OU2MW-15I	20 - 25	ND
OU2MW-17I	13 - 23	ND
OU2MW-18I2	35 - 40	ND
OU2MW-19I	13 - 23	ND
OU2MW-19I2	35 - 45	ND
OU2MW-23I2	45 - 50	ND
OU2MW-24I2	45 - 50	467
OU2MW-25I	25 - 30	ND
OU2MW-28I2	40 - 45	ND
OU2MW-29I	18 - 23	ND
OU2MW-29I2	30 - 35	ND
OU2MW-29D	45 - 50	23
OU2MW-30I	25 - 30	ND
OU2MW-30I2	30 - 35	ND
OU2MW-30I3	45 - 50	ND

Q1 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
OU2MW-32I2	30 - 35	ND
OU2MW-32D	40 - 45	174
OU2MW-34I	25 - 30	0
OU2MW-34I2	45 - 50	6
OU2MW-39I	25 - 30	ND
OU2MW-39I2	45 - 50	30
OU2MW-41I	18 - 23	ND
OU2MW-42I2	45 - 50	9
OU2MW-43I2	45 - 50	8
OU2MW-47I	20 - 25	ND
OU2MW-47I2	40 - 45	ND
OU2MW-50I	25 - 30	ND
OU2MW-50I2	45 - 50	ND
OU2MW-55I	30 - 35	ND
OU2MW-57I	20 - 30	ND
OU2MW-57I2	35 - 45	ND
OZMW-16I	20 - 30	ND
OZMW-16I2	35 - 45	10
OZMW-17I	20 - 30	ND
OZMW-17I2	35 - 45	ND
OZMW-18I	20 - 30	ND
OZMW-18I2	35 - 45	ND
OZMW-19I	20 - 30	329
OZMW-19I2	35 - 45	563
OZMW-2II	20 - 30	350*
OZMW-21I2	35 - 45	135
OZMW-22I/22IR	20 - 30	ND
OZMW-23I	20 - 30	ND
OZMW-23I2	35 - 45	ND
OZMW-24I	20 - 30	2
OZMW-24I2	35 - 45	139
OZMW-25I	20 - 30	509
OZMW-25I2	35 - 45	26
OZMW-26I	20 - 30	4
OZMW-26I2	35 - 45	24
OU-3		
BBMW-28I	10 - 20	ND
BBMW-31I	14 - 19	ND
BBMW-31D	30 - 35	ND
MW-34I	18.5 - 19.5	510
MW-34D	27.5 - 28.5	ND
MW-34DD	36 - 41	ND
MW-64	19 - 24	4811
MW-65	11 - 16	58

Q1 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-3		
MW-66D	24 - 29	ND
MW-67D	24 - 29	ND
MW-68S	15 - 20	ND
MW-68D	25-30	5
MW-73I	22 - 27	13
MW-75I	22 - 27	104
MWBS-02I	14.5 - 15.5	ND
MWBS-02D	24.5 - 25.5	ND
OU3MW-02I	15 - 20	ND
OU3MW-03I	20 - 25	108
OU3MW-04I	16 - 21	ND
OU3MW-04D2	31 - 36	ND
OU3MW-04D3	41 - 46	ND
OU3MW-05I	15 - 20	ND
OU3MW-07I	15 - 20	ND
OU3MW-07I2	20 - 25	2
OU3MW-07I3	25 - 30	ND
OU3MW-07I4	35 - 40	ND
OU3MW-09I	25 - 30	588
OU3MW-09I2	35 - 40	6
OU3MW-10I	25 - 30	574
OU3MW-17I	15 - 20	ND
OU3MW-17I2	25 - 30	ND
OU3MW-18I	15 - 20	ND
OU3MW-18I2	25 - 30	ND
OU3MW-19I	20 - 25	ND
OU3MW-19I2	30 - 35	ND
OU3MW-20I	20 - 25	2
OU3MW-20I2	30 - 35	ND
OU3MW-21I	15 - 20	ND
OU3MW-21I2	25 - 30	ND
SV-02I	22 - 27	ND
SV-02I2	35 - 40	ND
OU-4		
WCMW-04I	19 - 24	8
WCMW-04I2	29.9 - 34.9	1
WCMW-05I	19.6 - 24.6	4
WCMW-05I2	29.5 - 34.5	ND
WCMW-11I	25 - 30	ND
WCMW-14I	20 - 25	ND
WCMW-26I	20 - 25	1
WCMW-29I	20 - 25	ND
WCMW-30I	20 - 25	17
WCMW-30I2	30 - 35	ND

NOTE:
* INDICATES WELL NOT SAMPLED IN Q4 2013 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.



LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-38I — WELL NOT SAMPLED IN Q3 2013 DUE TO MEASURABLE LEVELS OF DNAPL
- µg/L — MICROGRAMS PER LITER
- BTEX ≧100 µg/L
- BTEX ≧1,000 µg/L
- BTEX ≧5,000 µg/L
- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)
- BTEX — BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE

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

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

July 2014 — Figure 5

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Q1 2009

Q1 2009 Groundwater Monitoring Data

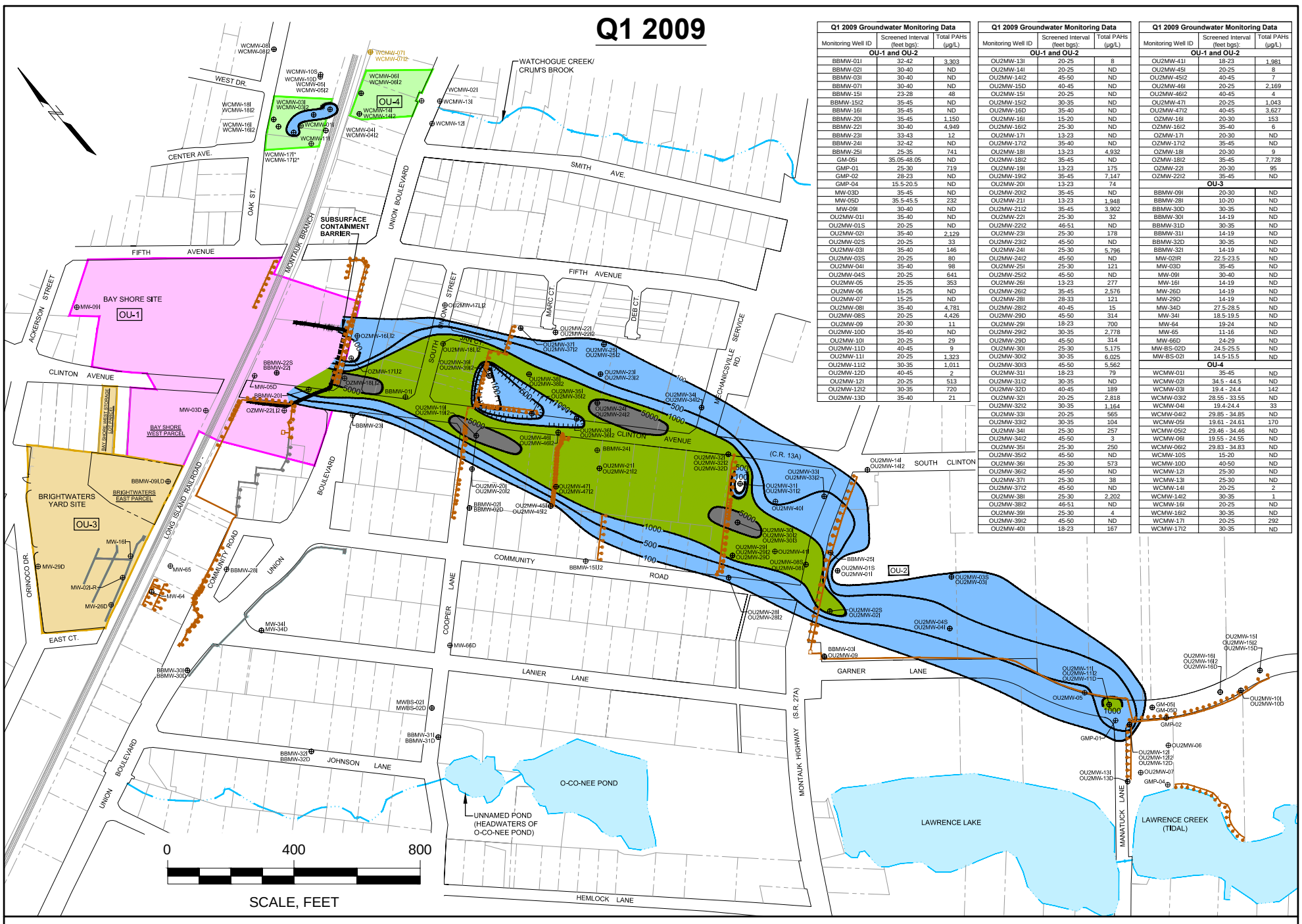
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01I	32-42	3,303
BBMW-02I	30-40	ND
BBMW-03I	30-40	ND
BBMW-07I	30-40	ND
BBMW-15I	23-28	48
BBMW-15I2	35-45	ND
BBMW-16I	35-45	ND
BBMW-20I	35-45	1,150
BBMW-22I	30-40	4,949
BBMW-23I	33-43	12
BBMW-24I	32-42	ND
BBMW-25I	25-35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

Q1 2009 Groundwater Monitoring Data

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

Q1 2009 Groundwater Monitoring Data

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



Q1 2014

Q1 2014 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01I	32 - 42	ND
BBMW-20I	35 - 45	350
BBMW-22I	30 - 40	4348
BBMW-23I	33 - 43	ND
BBMW-34I	25 - 30	2501
BBMW-34I2	40 - 45	1,637*
BBMW-37I	20 - 30	846
BBMW-37I2	35 - 45	319
BBMW-38I	25 - 30	551*
BBMW-38I2	45 - 50	736*
BBMW-39I	25 - 30	2
BBMW-40I	25 - 30	30
BBMW-41I	25 - 30	ND
BBMW-42I	15 - 25	80
BBMW-42I2	35 - 45	496
BBMW-43I	15 - 25	3
BBMW-43I2	35 - 45	ND
MW-05D	35.5 - 45.5	1775
OU2MW-02S	20 - 25	ND
OU2MW-02I	35 - 40	ND
OU2MW-04I	35 - 40	13
OU2MW-08I	35 - 45	ND
OU2MW-10I	20 - 25	1
OU2MW-11D	40 - 45	ND
OU2MW-12I	20 - 25	ND
OU2MW-12I2	30 - 35	ND
OU2MW-12D	40 - 45	2
OU2MW-14I	20 - 25	6
OU2MW-15I	20 - 25	ND
OU2MW-17I	13 - 23	ND
OU2MW-18I2	35 - 40	ND
OU2MW-19I	13 - 23	ND
OU2MW-19I2	35 - 45	ND
OU2MW-23I2	45 - 50	ND
OU2MW-25I	25 - 30	ND
OU2MW-28I2	40 - 45	ND
OU2MW-29I	18 - 23	ND
OU2MW-29I2	30 - 35	5
OU2MW-29D	45 - 50	118
OU2MW-30I	25 - 30	ND
OU2MW-30I2	30 - 35	ND
OU2MW-30I3	45 - 50	ND

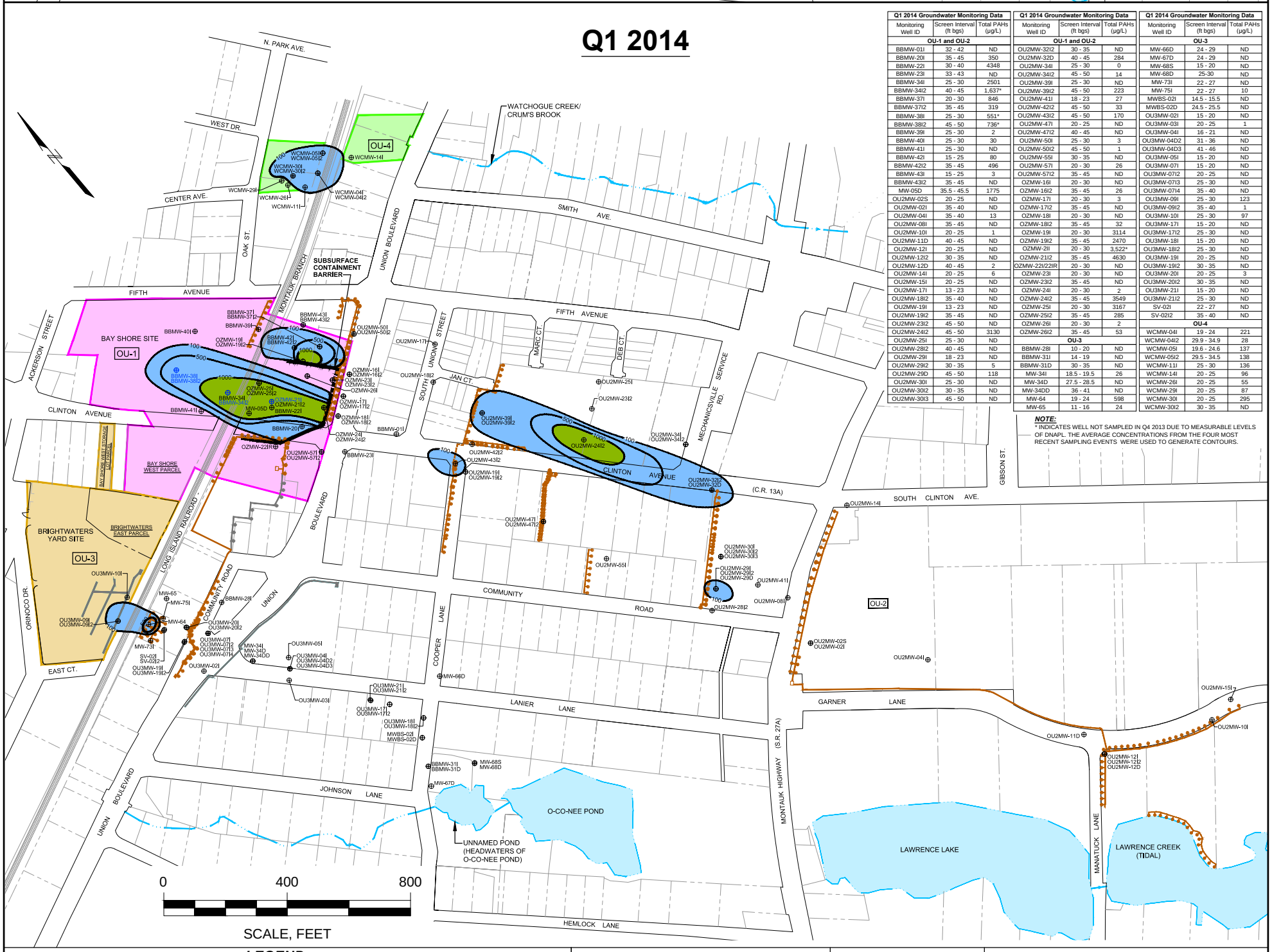
Q1 2014 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
OU2MW-32I2	30 - 35	ND
OU2MW-32D	40 - 45	284
OU2MW-34I	25 - 30	0
OU2MW-34I2	45 - 50	14
OU2MW-39I	25 - 30	ND
OU2MW-39I2	45 - 50	223
OU2MW-41I	18 - 23	27
OU2MW-42I2	45 - 50	33
OU2MW-43I2	45 - 50	170
OU2MW-47I	20 - 25	ND
OU2MW-47I2	40 - 45	ND
OU2MW-50I	25 - 30	3
OU2MW-50I2	45 - 50	1
OU2MW-55I	30 - 35	ND
OU2MW-57I	20 - 30	26
OU2MW-57I2	35 - 45	ND
OZMW-16I	20 - 30	ND
OZMW-16I2	35 - 45	26
OZMW-17I	20 - 30	3
OZMW-17I2	35 - 45	ND
OZMW-18I	20 - 30	ND
OZMW-18I2	35 - 45	32
OZMW-19I	20 - 30	3114
OZMW-19I2	35 - 45	2470
OZMW-2II	20 - 30	3,522*
OZMW-21I2	35 - 45	4630
OZMW-22I/22IR	20 - 30	ND
OZMW-23I	20 - 30	ND
OZMW-23I2	35 - 45	ND
OZMW-24I	20 - 30	2
OZMW-24I2	35 - 45	3549
OZMW-25I	20 - 30	3167
OZMW-25I2	35 - 45	285
OZMW-26I	20 - 30	2
OZMW-26I2	35 - 45	53
OU-3		
BBMW-28I	10 - 20	ND
BBMW-31I	14 - 19	ND
BBMW-31D	30 - 35	ND
MW-34I	18.5 - 19.5	26
MW-34D	27.5 - 28.5	ND
MW-34DD	36 - 41	ND
MW-64	19 - 24	598
MW-65	11 - 16	24

Q1 2014 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-3		
MW-66D	24 - 29	ND
MW-67D	24 - 29	ND
MW-68S	15 - 20	ND
MW-68D	25-30	ND
MW-73I	22 - 27	ND
MW-75I	22 - 27	10
MWBS-02I	14.5 - 15.5	ND
MWBS-02D	24.5 - 25.5	ND
OU3MW-02I	15 - 20	ND
OU3MW-03I	20 - 25	1
OU3MW-04I	16 - 21	ND
OU3MW-04D2	31 - 36	ND
OU3MW-04D3	41 - 46	ND
OU3MW-05I	15 - 20	ND
OU3MW-07I	15 - 20	ND
OU3MW-07I2	20 - 25	ND
OU3MW-07I3	25 - 30	ND
OU3MW-07I4	35 - 40	ND
OU3MW-09I	25 - 30	123
OU3MW-09I2	35 - 40	1
OU3MW-10I	25 - 30	97
OU3MW-17I	15 - 20	ND
OU3MW-17I2	25 - 30	ND
OU3MW-18I	15 - 20	ND
OU3MW-18I2	25 - 30	ND
OU3MW-19I	20 - 25	ND
OU3MW-19I2	30 - 35	ND
OU3MW-20I	20 - 25	3
OU3MW-20I2	30 - 35	ND
OU3MW-21I	15 - 20	ND
OU3MW-21I2	25 - 30	ND
SV-02I	22 - 27	ND
SV-02I2	35 - 40	ND
OU-4		
WCMW-04I	19 - 24	221
WCMW-04I2	29.9 - 34.9	28
WCMW-05I	19.6 - 24.6	137
WCMW-05I2	29.5 - 34.5	138
WCMW-11I	25 - 30	136
WCMW-14I	20 - 25	96
WCMW-26I	20 - 25	55
WCMW-29I	20 - 25	87
WCMW-30I	20 - 25	295
WCMW-30I2	30 - 35	ND

NOTE:
* INDICATES WELL NOT SAMPLED IN Q4 2013 DUE TO MEASURABLE LEVELS OF DNAPL. THE AVERAGE CONCENTRATIONS FROM THE FOUR MOST RECENT SAMPLING EVENTS WERE USED TO GENERATE CONTOURS.



LEGEND:

- ⊕BBMW-33 — EXISTING MONITORING WELL CLUSTER LOCATION
- ⊕BBMW-38I — WELL NOT SAMPLED IN Q3 2013 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
- INSTALLED OXYGEN INJECTION LINE
- ABANDONED OXYGEN INJECTION LINE
- ISO-CONCENTRATION LINE (µg/L)
- PAH — POLYCYCLIC AROMATIC HYDROCARBONS

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

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

July 2014

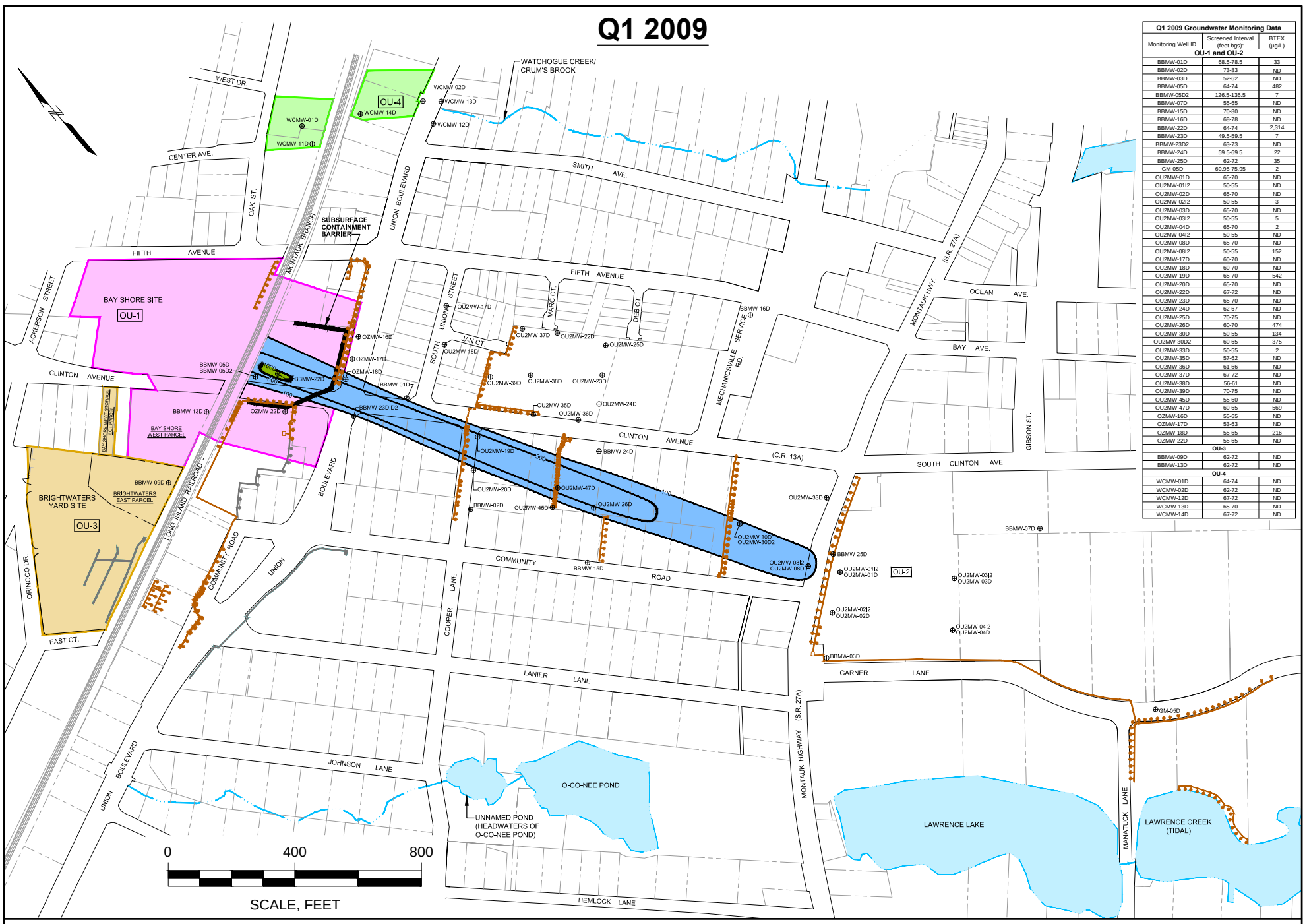
Figure 6

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Q1 2009

Q1 2009 Groundwater Monitoring Data

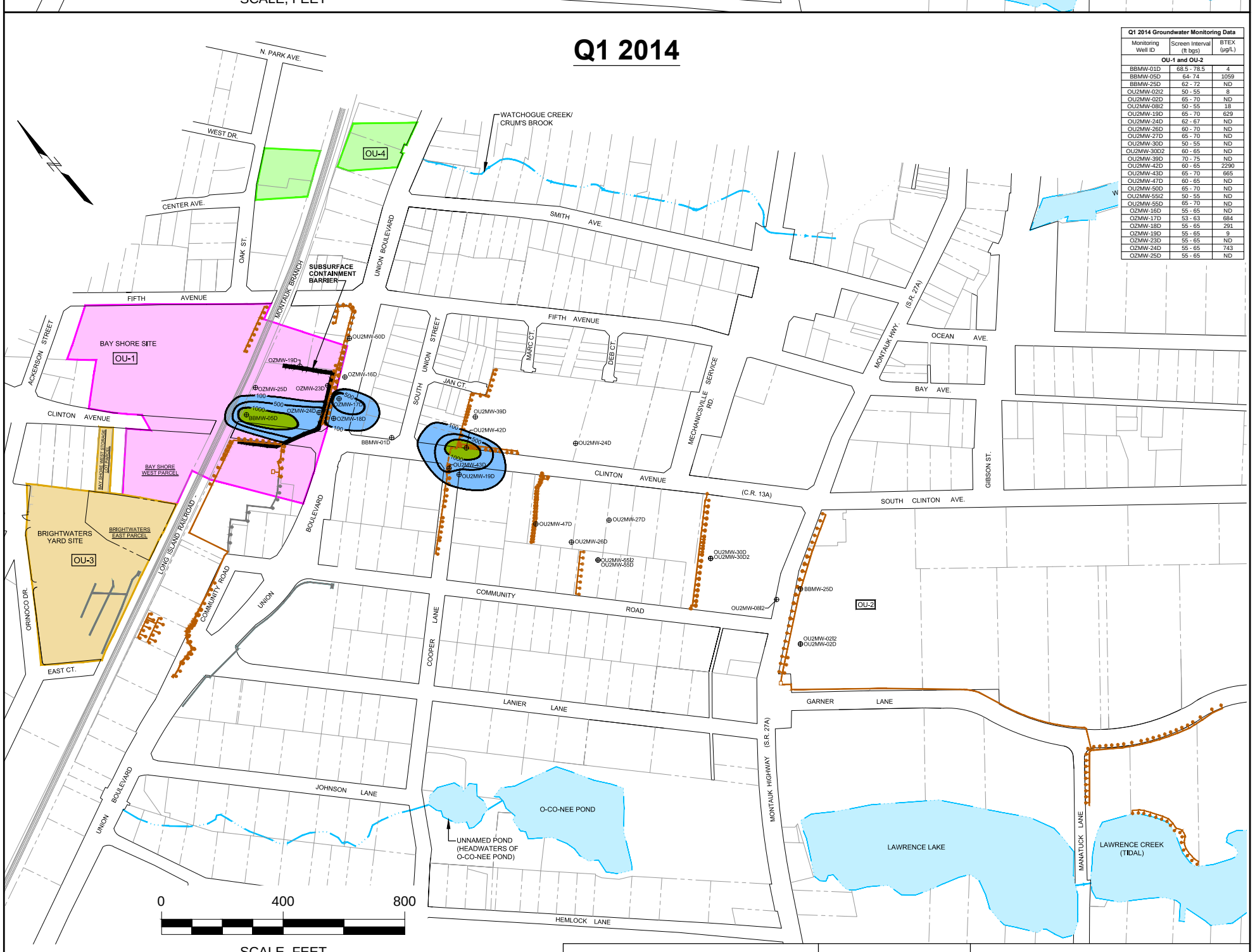
Monitoring Well ID	Screened Interval (feet bgs):	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	33
BBMW-02D	73-83	ND
BBMW-03D	52-62	ND
BBMW-05D	64-74	482
BBMW-05D2	126.5-136.5	7
BBMW-07D	55-65	ND
BBMW-15D	70-80	ND
BBMW-16D	68-78	ND
BBMW-22D	64-74	2,314
BBMW-23D	49.5-59.5	7
BBMW-23D2	63-73	ND
BBMW-24D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



Q1 2014

Q1 2014 Groundwater Monitoring Data

Monitoring Well ID	Screen Interval (ft bgs)	BTEX (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5 - 78.5	4
BBMW-05D	64- 74	1059
BBMW-25D	62 - 72	ND
OU2MW-02I2	50 - 55	8
OU2MW-02D	65 - 70	ND
OU2MW-08I2	50 - 55	18
OU2MW-19D	65 - 70	629
OU2MW-24D	62 - 67	ND
OU2MW-26D	60 - 70	ND
OU2MW-27D	65 - 70	ND
OU2MW-30D	50 - 55	ND
OU2MW-30D2	60 - 65	ND
OU2MW-39D	70 - 75	ND
OU2MW-42D	60 - 65	2290
OU2MW-43D	65 - 70	665
OU2MW-47D	60 - 65	ND
OU2MW-50D	65 - 70	ND
OU2MW-55I2	50 - 55	ND
OU2MW-55D	65 - 70	ND
OZMW-16D	55 - 65	ND
OZMW-17D	53 - 63	684
OZMW-18D	55 - 65	291
OZMW-19D	55 - 65	9
OZMW-23D	55 - 65	ND
OZMW-24D	55 - 65	743
OZMW-25D	55 - 65	ND



LEGEND:

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

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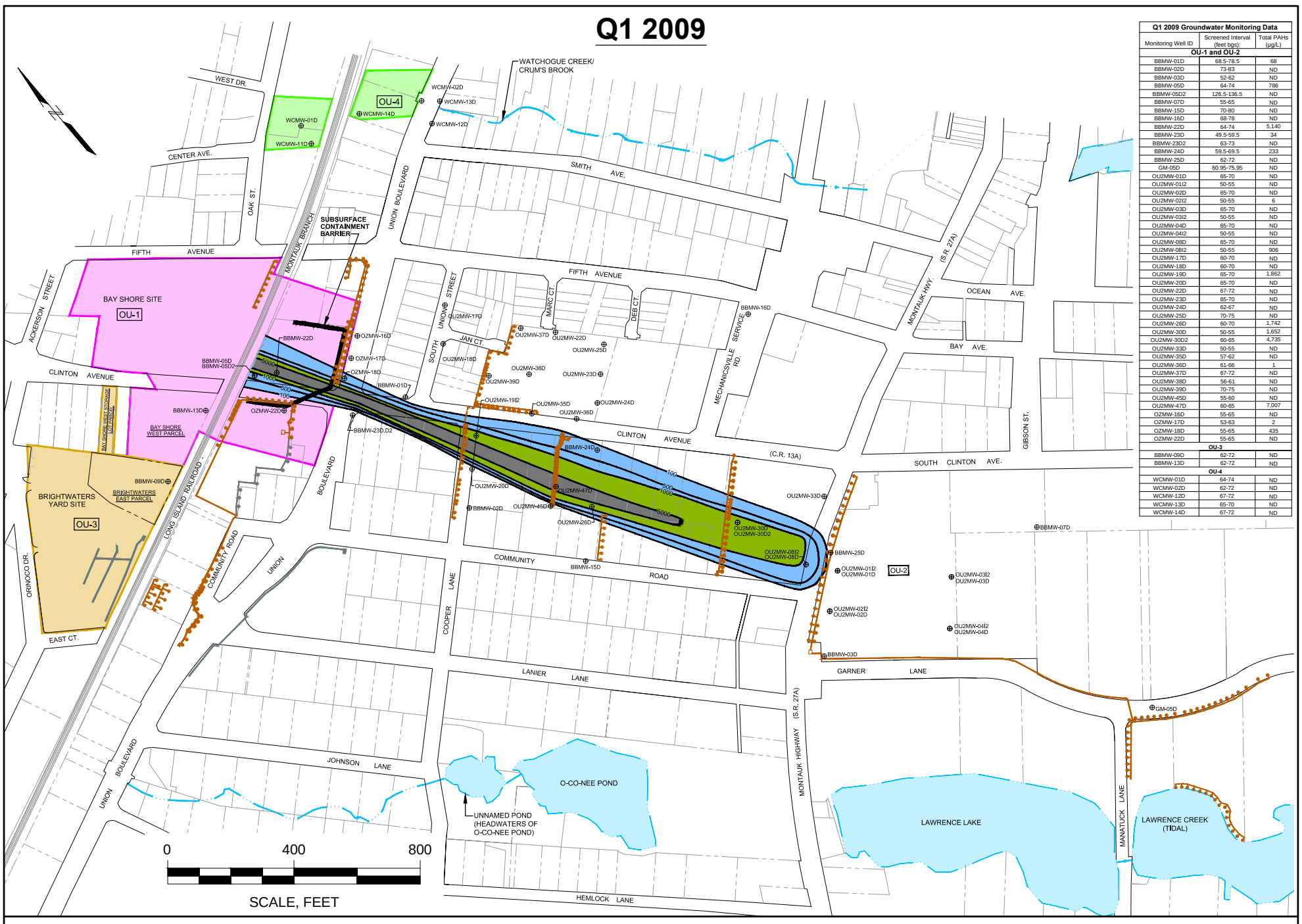
DEEP GROUNDWATER BTEX ISO-CONCENTRATION MAPS (BELOW 50 FEET BGS)

Project 093180-5-1506 | July 2014 | Figure 7

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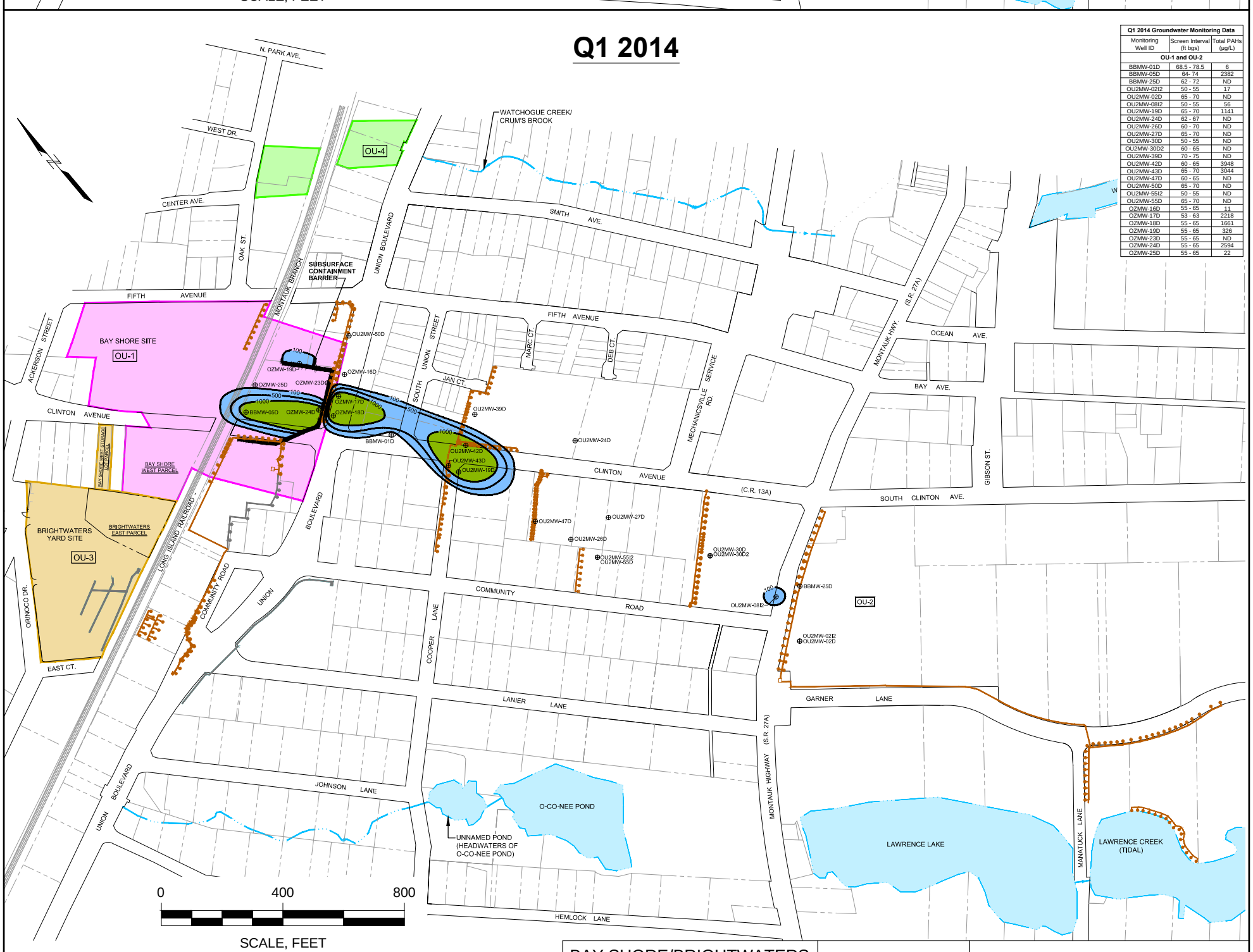
Q1 2009

Q1 2009 Groundwater Monitoring Data		
Monitoring Well ID	Screened Interval (feet bgs):	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5-78.5	68
BBMW-02D	73-83	ND
BBMW-03D	52-62	ND
BBMW-05D	64-74	786
BBMW-05D2	126.5-136.5	ND
BBMW-07D	55-65	ND
BBMW-15D	70-80	ND
BBMW-16D	68-78	ND
BBMW-22D	64-74	5,140
BBMW-23D	49.5-59.5	34
BBMW-23D2	63-73	ND
BBMW-24D	59.5-69.5	233
BBMW-25D	62-72	ND
GM-05D	60.95-75.95	ND
OU2MW-01D	65-70	ND
OU2MW-01I2	50-55	ND
OU2MW-02D	65-70	ND
OU2MW-02I2	50-55	6
OU2MW-03D	65-70	ND
OU2MW-03I2	50-55	ND
OU2MW-04D	65-70	ND
OU2MW-04I2	50-55	ND
OU2MW-08D	65-70	ND
OU2MW-08I2	50-55	906
OU2MW-17D	60-70	ND
OU2MW-18D	60-70	ND
OU2MW-19D	65-70	1,862
OU2MW-20D	65-70	ND
OU2MW-22D	67-72	ND
OU2MW-23D	65-70	ND
OU2MW-24D	62-67	ND
OU2MW-25D	70-75	ND
OU2MW-26D	60-70	1,742
OU2MW-30D	50-55	1,652
OU2MW-30D2	60-65	4,735
OU2MW-33D	50-55	ND
OU2MW-35D	57-62	ND
OU2MW-36D	61-66	1
OU2MW-37D	67-72	ND
OU2MW-38D	56-61	ND
OU2MW-39D	70-75	ND
OU2MW-45D	55-60	ND
OU2MW-47D	60-65	7,007
OZMW-16D	55-65	ND
OZMW-17D	53-63	2
OZMW-18D	55-65	435
OZMW-22D	55-65	ND
OU-3		
BBMW-09D	62-72	ND
BBMW-13D	62-72	ND
OU-4		
WCMW-01D	64-74	ND
WCMW-02D	62-72	ND
WCMW-12D	67-72	ND
WCMW-13D	65-70	ND
WCMW-14D	67-72	ND



Q1 2014

Q1 2014 Groundwater Monitoring Data		
Monitoring Well ID	Screen Interval (ft bgs)	Total PAHs (µg/L)
OU-1 and OU-2		
BBMW-01D	68.5 - 78.5	6
BBMW-05D	64- 74	2382
BBMW-25D	62 - 72	ND
OU2MW-02I2	50 - 55	17
OU2MW-02D	65 - 70	ND
OU2MW-08I2	50 - 55	56
OU2MW-19D	65 - 70	1141
OU2MW-24D	62 - 67	ND
OU2MW-26D	60 - 70	ND
OU2MW-27D	65 - 70	ND
OU2MW-30D	50 - 55	ND
OU2MW-30D2	60 - 65	ND
OU2MW-39D	70 - 75	ND
OU2MW-42D	60 - 65	3948
OU2MW-43D	65 - 70	3044
OU2MW-47D	60 - 65	ND
OU2MW-50D	65 - 70	ND
OU2MW-55I2	50 - 55	ND
OU2MW-55D	65 - 70	ND
OZMW-16D	55 - 65	11
OZMW-17D	53 - 63	2218
OZMW-18D	55 - 65	1661
OZMW-19D	55 - 65	326
OZMW-23D	55 - 65	ND
OZMW-24D	55 - 65	2594
OZMW-25D	55 - 65	22



LEGEND:

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

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

Project 093180-5-1506 | July 2014 | Figure 8

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Appendix H

Appendix H. Summary of Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Well ID	Screen Interval (feet bgs)	2013						2014				
		Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14
Operable Unit No. 1 (OU-1)												
BBMW-04D	63 - 73	--	--	--	--	--	--	--	--	--	--	--
BBMW-05D	64 - 74	--	--	--	--	--	--	--	--	--	--	--
BBMW-06S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
BBMW-06I	30 - 40	--	--	--	--	--	--	--	--	--	--	--
BBMW-06D	66 - 76	--	--	--	--	--	--	--	--	--	--	--
BBMW-08D	65 - 75	--	--	--	--	--	--	--	--	--	--	--
BBMW-17S	5.5 - 15.5	--	--	--	--	--	--	--	--	--	--	--
BBMW-17I	30.5 - 40.5	--	--	--	--	--	--	--	--	--	--	--
BBMW-18S	6 - 16	--	--	--	--	--	--	--	--	--	--	--
BBMW-18I	30 - 40	--	--	--	--	--	--	--	--	--	--	--
BBMW-18D	60 - 70	--	--	--	--	--	--	--	--	--	--	--
BBMW-19S	6 - 16	--	--	--	--	--	--	--	--	--	--	--
BBMW-19I	29.6 - 39.6	--	--	--	--	--	--	--	--	--	--	--
BBMW-19D	64.75 - 74.75	--	--	--	--	--	--	--	--	--	--	--
BBMW-20S	4 - 14	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35 - 45	--	--	--	--	--	--	--	--	--	--	--
BBMW-20D	62 - 72	--	--	--	--	--	--	--	--	--	--	--
BBMW-22S	5 - 10	--	--	--	--	--	--	--	--	--	--	--
BBMW-22I	30 - 40	--	--	--	--	--	--	--	--	--	--	--
BBMW-22D	64 - 74	--	--	--	--	--	--	--	--	--	--	--
BBMW-34S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
BBMW-34I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--
BBMW-34D	65 - 70	--	--	--	--	--	--	--	--	--	--	--
BBMW-38S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
BBMW-38I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--
BBMW-38D	65 - 70	--	--	--	--	--	--	--	--	--	--	--
BBMW-39S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
BBMW-39I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
BBMW-39D	65 - 70	--	--	--	--	--	--	--	--	--	--	--
BBMW-41S	6 - 16	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
BBMW-41I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
BBMW-41D	65 - 70	--	--	--	--	--	--	--	--	--	--	--
MW-05S	4 - 14	--	--	--	--	--	--	--	--	--	--	--
MW-05D	35.5 - 45.5	--	--	--	--	--	--	--	--	--	--	--
MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--
MW-08D	35 - 45	--	--	--	--	--	--	--	--	--	--	--
MW-09S	4 - 14	--	--	--	--	--	--	--	--	--	--	--
MW-09I	30 - 40	--	--	--	--	--	--	--	--	--	--	--
MW-09I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
MW-09D	65 - 70	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48S	3 - 13	--	--	--	--	--	--	--	--	--	--	--

Well ID	Screen Interval (feet bgs)	2013						2014				
		Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14
OU2MW-48I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
OU2MW-48D	65 - 70	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49S	3 - 13	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
OU2MW-49D	63 - 68	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I	20 - 30	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OZMW-16D	55 - 65	--	--	--	--	--	--	--	--	--	--	--
OZMW-17S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I	20 - 30	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OZMW-17D	53 - 63	39900	--	--	--	53300 D	--	--	30200	--	--	26200
OZMW-18S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I	20 - 30	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OZMW-18D	55 - 65	11700	--	--	--	102000 D	--	--	109000 D	--	--	57400 D
OZMW-19S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I	20 - 30	--	--	--	--	--	--	--	--	--	--	--
OZMW-19I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OZMW-19D	55 - 65	--	--	--	--	--	--	--	--	--	--	--
OZMW-21S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I	20 - 30	--	--	--	--	--	--	--	--	--	--	--
OZMW-21I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OZMW-21D	55 - 65	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OZMW-22SR	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I	20 - 30	--	--	--	--	--	--	--	--	--	--	--
OZMW-22IR	20 - 30	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55 - 65	--	--	--	--	--	--	--	--	--	--	--
OZMW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I	20 - 30	--	--	--	--	--	--	--	--	--	--	--
OZMW-23I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OZMW-23D	55 - 65	--	--	--	--	--	--	--	--	--	--	--
OZMW-24S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I	20 - 30	--	--	--	--	--	--	--	--	--	--	--
OZMW-24I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OZMW-24D	55 - 65	**516000**	--	--	--	**413000 D**	--	--	**454000 D**	--	--	**384000 D**
OZMW-25S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I	20 - 30	--	--	--	--	--	--	--	--	--	--	--
OZMW-25I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OZMW-25D	55 - 65	--	--	--	--	--	--	--	--	--	--	--
OZMW-26S	5 - 15	--	--	--	--	--	--	--	--	--	--	--

Appendix H. Summary of Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Well ID	Screen Interval (feet bgs)	2013						2014				
		Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14
OZMW-26I	20 - 30	--	--	--	--	--	--	--	--	--	--	--
OZMW-26I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OZMW-26D	55 - 65	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No. 2 (OU-2)												
BBMW-01S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
BBMW-01I	32 - 42	--	--	--	--	--	--	--	--	--	--	--
BBMW-01D	68.5 - 78.5	46100	--	--	48900	--	--	--	--	44100	--	40700
BBMW-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30 - 40	--	--	--	--	--	--	--	--	--	--	--
BBMW-02D	73 - 83	--	--	--	--	--	--	--	--	--	--	--
BBMW-03S	3 - 13	--	--	--	--	--	--	--	--	--	--	--
BBMW-03I	30 - 40	--	--	--	--	--	--	--	--	--	--	--
BBMW-03D	52 - 62	--	--	--	--	--	--	--	--	--	--	--
BBMW-07D	55 - 65	--	--	--	--	--	--	--	--	--	--	--
BBMW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
BBMW-23I	33 - 43	--	--	--	--	--	--	--	--	--	--	--
BBMW-23D	49.5 - 59.5	--	--	--	--	--	--	--	--	--	--	--
BBMW-24S	4 - 14	--	--	--	--	--	--	--	--	--	--	--
BBMW-24I	32 - 42	--	--	--	--	--	--	--	--	--	--	--
BBMW-24D	59.5 - 69.5	**334000 D**	--	--	--	--	--	--	**300000 D**	--	**278000 D**	--
BBMW-25S	4 - 14	--	--	--	--	--	--	--	--	--	--	--
BBMW-25I	25 - 35	--	--	--	19000	--	--	18000	--	--	--	--
BBMW-25D	62 - 72	--	--	--	16900	--	--	17400	--	--	--	--
GM-05S	5.1 - 20.1	--	--	--	--	--	--	--	--	--	--	--
GM-05I	35.05 - 48.05	--	--	--	--	--	--	--	--	--	--	--
GM-05D	60.95 - 75.95	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25 - 30	--	--	--	--	--	--	--	--	--	--	--
GMP-04	15.5 - 20.5	--	--	--	--	--	--	--	--	--	--	--
MW-04S	4 - 14	--	--	--	--	--	--	--	--	--	--	--
MW-04D	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OU2IW-01S	3 - 8	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01S	20 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-01I	35 - 40	--	--	--	--	--	--	--	--	--	29700	--
OU2MW-01I2	50 - 55	--	--	--	--	--	--	--	--	--	121000 D	--
OU2MW-01D	65 - 70	--	--	--	--	--	--	--	--	--	6430	--
OU2MW-02S	20 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	35 - 40	--	--	--	--	24600	--	--	28300	--	--	34300
OU2MW-02I2	50 - 55	--	--	82000 D	--	154000	--	--	211000 D	--	--	9570
OU2MW-02D	65 - 70	--	--	6860	--	6210	--	--	6870	--	--	6650
OU2MW-03S	20 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I	35 - 40	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--
OU2MW-03D	65 - 70	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--
OU2MW-04S	20 - 25	--	--	43500	--	--	--	--	--	56800 D	--	--

Well ID	Screen Interval (feet bgs)	2013						2014				
		Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14
OU2MW-04I	35 - 40	--	--	21900	--	--	--	--	--	48400	--	33100
OU2MW-04I2	50 - 55	--	--	7110	--	--	--	--	--	7890	--	48500
OU2MW-04D	65 - 70	--	--	5730	--	--	--	--	--	5580	--	9240
OU2MW-05	25 - 35	--	--	--	--	--	--	--	--		--	--
OU2MW-06S	3 - 8	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07S	3 - 8	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08WT	3 - 8	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08S	20 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08I	35 - 40	--	--	--	--	--	--	--	--	--	13500	--
OU2MW-08I2	50 - 55	--	--	--	--	--	--	--	--	--	104000 D	--
OU2MW-08D	65 - 70	--	--	--	--	--	--	--	--	--	6600	--
OU2MW-09	30 - 40	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3 - 7	--	--	--	--	--	--	--	--		--	--
OU2MW-10I	20 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35 - 40	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3 - 8	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11D	40 - 45	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3 - 7	14900	--	--	--	--	--	--	8990	--	--	13700
OU2MW-12I	20 - 25	46300	--	--	--	--	--	--	75100 D	--	--	49500
OU2MW-12I2	30 - 35	37400	--	--	--	--	--	--	49200	--	--	63000 D
OU2MW-12D	40 - 45	5710	--	--	--	--	--	--	14500	--	--	6890
OU2MW-13S	3 - 8	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35 - 40	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3 - 8	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3 - 8	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40 - 45	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3 - 8	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15 - 20	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35 - 40	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17S	5 - 10	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13 - 23	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60 - 75	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13 - 23	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60 - 70	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13 - 23	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--

Well ID	Screen Interval (feet bgs)	2013						2014				
		Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14
OU2MW-19D	65 - 70	70500	--	--	47400	--	--	59600 D	--	--	--	45000
OU2MW-20S	4 - 9	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13 - 23	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65 - 70	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13 - 23	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67 - 72	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65 - 70	--	50400	--	--	--	--	--	--	--	--	--
OU2MW-24S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62 - 67	--	62100	--	--	--	--	--	--	38700	--	--
OU2MW-25S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70 - 75	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6 - 11	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13 - 23	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35 - 45	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60 - 70	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
OU2MW-27D	65 - 70	--	102000 D	--	--	--	65400 D	--	--	72400	--	--
OU2MW-28S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28 - 33	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18 - 23	--	--	--	--	--	--	--	--	--	119000 D	--
OU2MW-29I2	30 - 35	--	66900 D	--	58200 D	--	--	--	41000	--	37700	--
OU2MW-29D	45 - 50	--	100000 D	--	136000 D	--	--	--	123000	--	181000 D	--
OU2MW-30S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45 - 50	--	28100	--	--	30600	--	--	36300	--	30700	--
OU2MW-30D	50 - 55	--	67400 D	--	--	71200 D	--	--	67900	--	11100	--
OU2MW-30D2	60 - 65	--	**273000 D**	--	--	**377000 D**	--	--	**411000**	--	23900	--
OU2MW-31I	18 - 23	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5 - 15	--	--	--	--	--	--	--	--	--	--	--

Appendix H. Summary of Sulfate Concentrations (µg/L)
Bay Shore/Brightwaters Former MGP Site
2013/2014 Annual Groundwater Monitoring and Operations, Maintenance & Monitoring Report

Well ID	Screen Interval (feet bgs)	2013						2014				
		Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14
OU2MW-32I	20 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30 - 35	--	--	--	--	--		--	--	--	--	--
OU2MW-32D	40 - 45	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35D	57 - 62	--	114000 D	--	--	68700 D	--	--	--	101000	--	--
OU2MW-36S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61 - 66	--	38000	--	--	--	--	--	--	31700	--	31800
OU2MW-37S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37D	67 - 72	--	78900	--	--	--	--	--	--	--	--	--
OU2MW-38S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46 - 51	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56 - 61	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	70 - 75	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18 - 23	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18 - 23	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
OU2MW-42D	60 - 65	--	**262000 D**	--	--	**384000 D**	--	--	--	**463000**	--	34500
OU2MW-43S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
OU2MW-43D	65 - 70	--	231000 D	--	--	223000 D	--	--	--	**267000**	--	174000 D
OU2MW-44S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
OU2MW-44D	65 - 70	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I	20 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45D	55 - 60	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40 - 45	--	16500	--	--	--	--	--	--	--	--	--

Well ID	Screen Interval (feet bgs)	2013						2014				
		Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14
OU2MW-47S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	20 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	60 - 65	--	21000	--	33500	--	--	--	--	--	--	--
OU2MW-52S	3 - 8	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52I	20 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-52D	35 - 40	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53S	3 - 8	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53I	20 - 25	--	--	--	--	--	--	--	--	--	--	--
OU2MW-53D	35 - 40	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54I2	40 - 45	--	--	--	--	--	--	--	--	--	--	--
OU2MW-54D	60 - 65	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I	30 - 35	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55I2	50 - 55	--	--	--	--	--	--	--	--	--	--	--
OU2MW-55D	65 - 70	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56I2	45 - 50	--	--	--	--	--	--	--	--	--	--	--
OU2MW-56D	65 - 70	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No. 3 (OU-3)												
MW-64	19 - 24	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--
OU3MW-01S	3 - 13	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--
OU3MW-02I	15 - 20	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07S	3 - 13	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I	15 - 20	--	--	--	--	--	--	--	--	--	--	--
OU3MW-07I2	20 - 25	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08S	2 - 12	--	--	--	--	--	--	--	--	--	--	--
OU3MW-08I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09S	2 - 12	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
OU3MW-09I2	35 - 40	--	--	--	--	--	--	--	--	--	--	--
Operable Unit No.4 (OU-4)												
WCMW-01S	2 - 12	--	--	--	--	--	--	--	--	--	--	--
WCMW-01I	35 - 45	--	--	--	--	--	--	--	--	--	--	--
WCMW-01D	64 - 74	--	--	--	--	--	--	--	--	--	--	--
WCMW-02S	3 - 13	--	--	--	--	--	--	--	--	--	--	--
WCMW-02I	34.5 - 44.5	--	--	--	--	--	--	--	--	--	--	--
WCMW-02D	62 - 72	--	--	--	--	--	--	--	--	--	--	--
WCMW-03S	4.83 - 9.83	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I	19.4 - 24.4	--	--	--	--	--	--	--	--	--	--	--
WCMW-03I2	28.55 - 33.55	--	--	--	--	--	--	--	--	--	--	--

Well ID	Screen Interval (feet bgs)	2013						2014				
		Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14
WCMW-04S	1.6 - 11.6	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I	19 - 24	--	--	--	--	--	--	--	--	--	--	--
WCMW-04I2	29.85 - 34.85	--	--	--	--	--	--	--	--	--	--	--
WCMW-05S	1.15 - 11.15	--	15400									
WCMW-05I	19.61 - 24.61	--	5000 U	--	--	--	--	--	--	--	--	--
WCMW-05I2	29.46 - 34.46	--	16100	--	--	--	--	--	--	--	--	--
WCMW-06S	2 - 12	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	--	--	--	--	--
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15 - 20	--	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40 - 50	--	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5 - 15	--	32000	--	--	--	--	--	--	--	--	--
WCMW-11I	25 - 30	--	5000 U	--	--	--	--	--	--	--	--	--
WCMW-11D	50 - 60	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3 - 13	--	--	--	--	--	--	--	--	--	--	--
WCMW-13I	25 - 30	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65 - 70	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2 - 12	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I	20 - 25	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67 - 72	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2 - 12	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20 - 25	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--
WCMW-17S	2 - 12	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I	20 - 25	--	--	--	--	--	--	--	--	--	--	--
WCMW-17I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--
WCMW-18WT	2 - 7	--	--	--	--	--	--	--	--	--	--	--
WCMW-18S	2 - 12	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I	20 - 25	--	--	--	--	--	--	--	--	--	--	--
WCMW-18I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--
WCMW-19S	2 - 12	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I	20 - 25	--	--	--	--	--	--	--	--	--	--	--
WCMW-19I2	30 - 35	--	--	--	--	--	--	--	--	--	--	--
WCMW-25I	30 - 35	--	--	--	--	--	--	--	--	--	--	--
WCMW-25D	55 - 60	--	--	--	--	--	--	--	--	--	--	--
WCMW-30I	20 - 25	--	5000 U	--	--	--	--	--	--	--	--	--
WCMW-30I2	30 - 35	--	18700	--	--	--	--	--	--	--	--	--

Notes:

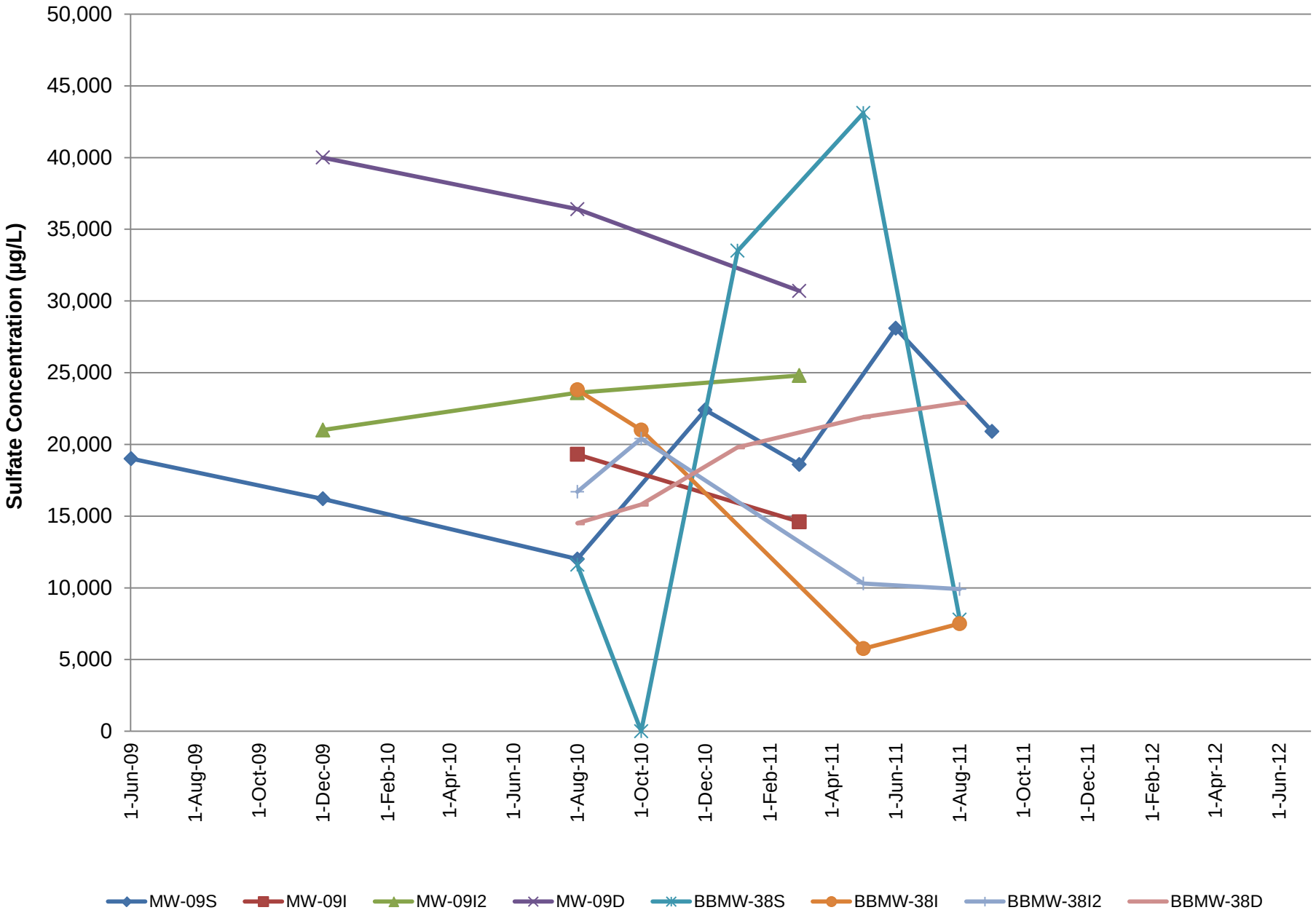
Values shown in micrograms per liter (µg/L) or parts per billion (ppb)

NYS AWQS - New York State Ambient Water Quality Standards and Guidance Values for GA groundwater

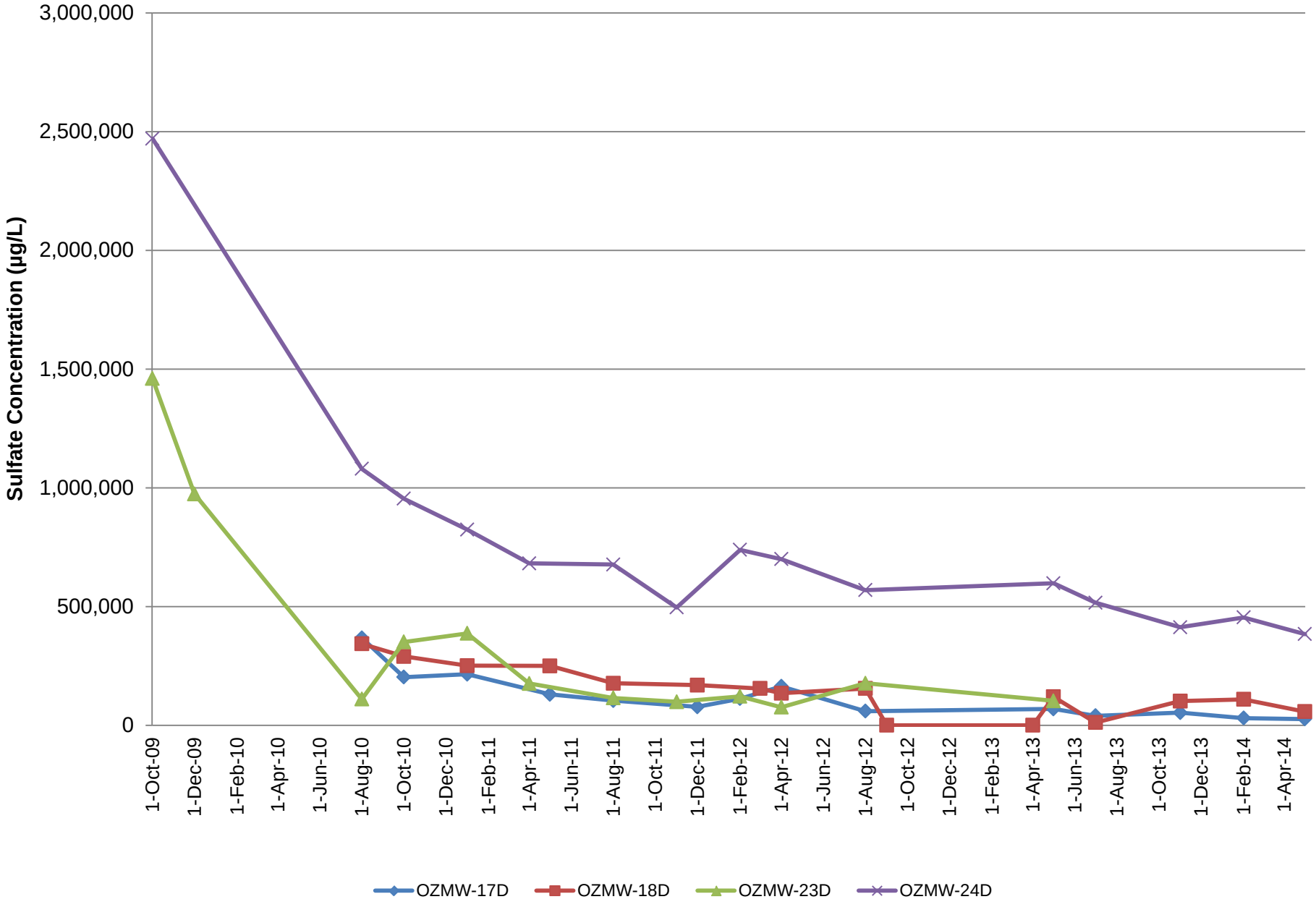
Shading and bolding indicates that the detected result value exceeds the New York State Ambient Water Quality Standards and Guidance Values for GA groundwater for sulfate (250,000 µg/L)

-- not analyzed

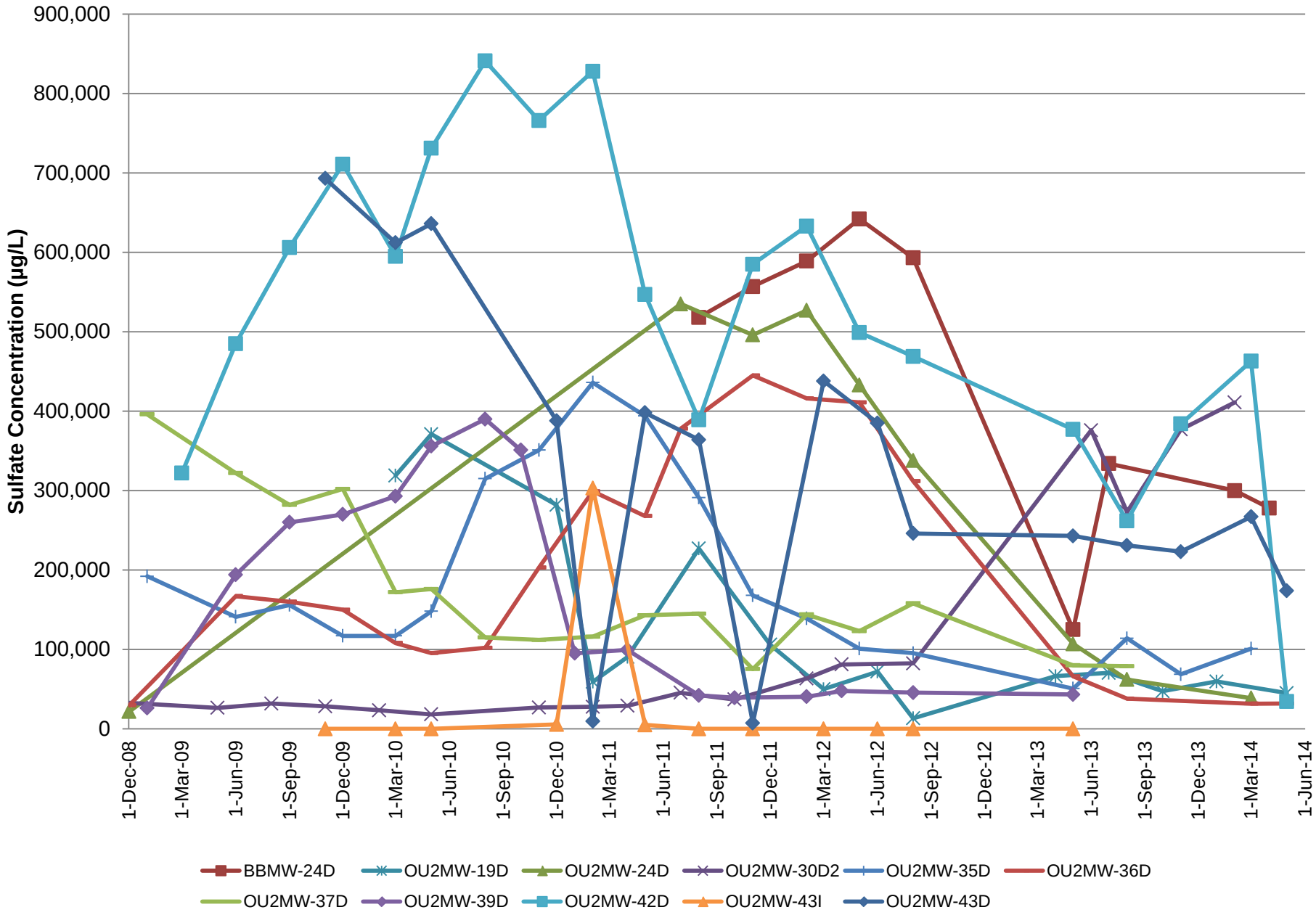
Appendix H - Graph H-1 - Background Sulfate Concentrations
OU-1 Wells Upgradient of In-Situ Remedial Action



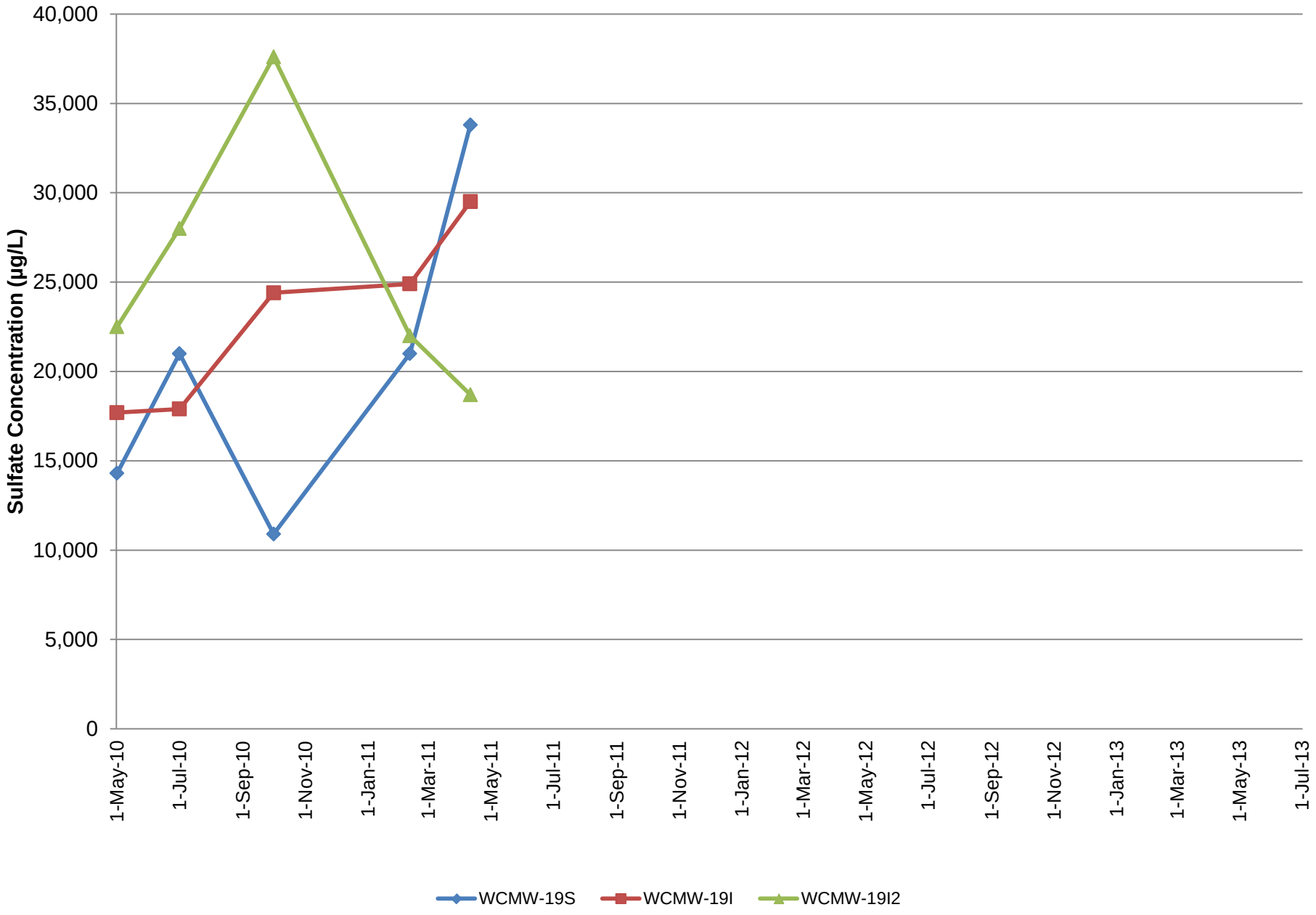
Appendix H - Graph H-2 - Sulfate Concentrations
OU-1 Wells Above AWQS Criteria (250,000 µg/L)



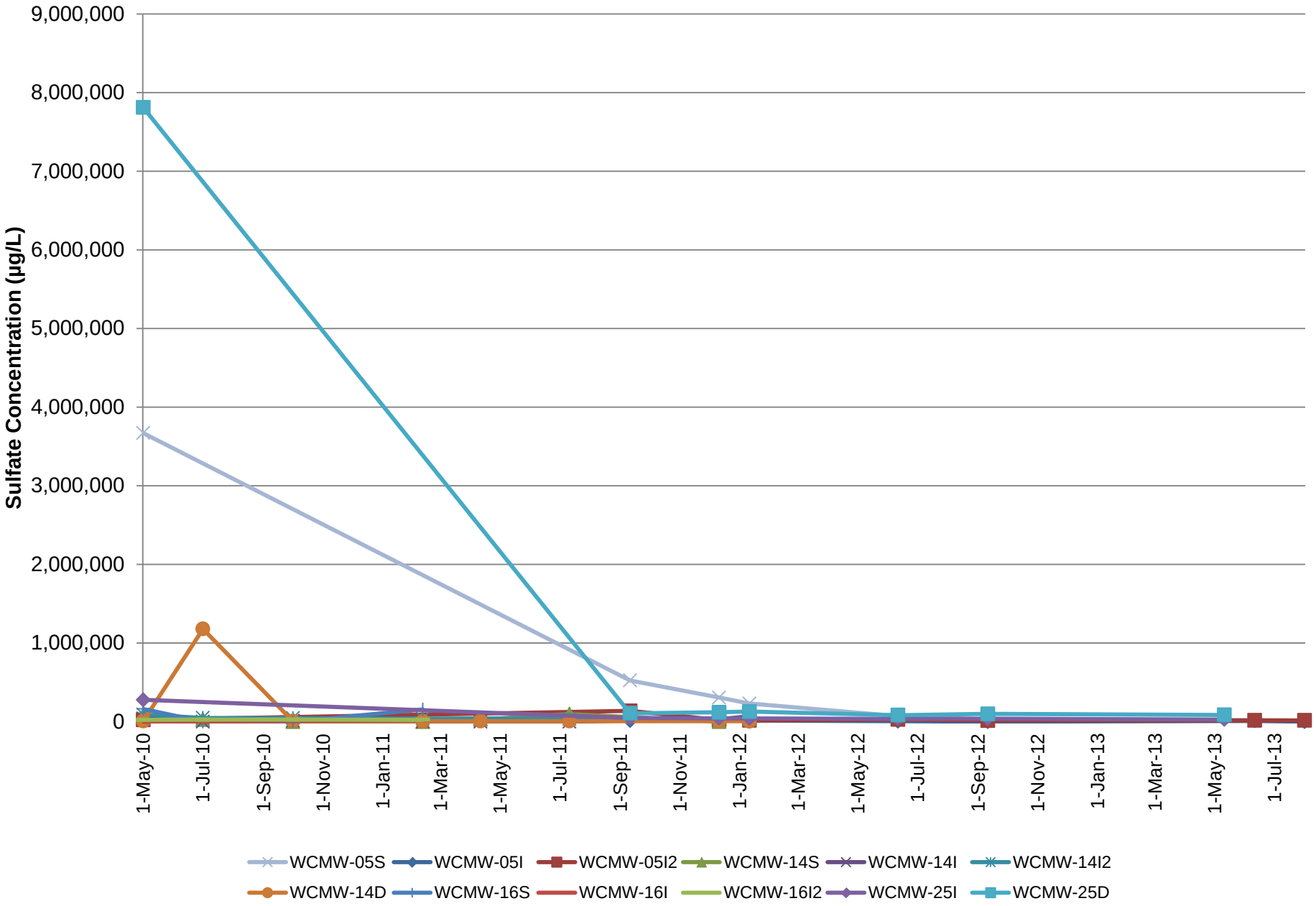
Appendix H - Graph H-3 - Sulfate Concentrations
OU-2 Wells Above AWQS Criteria (250,000 µg/L)



Appendix H - Graph H-4 - Sulfate Concentrations
OU-4 Wells Upgradient of S-ISCO Treatment Area



Appendix H- Graph H-5 - Sulfate Concentrations
OU-4 Wells Within or Immediately Downgradient of S-ISCO Area



Appendix H - Graph H-6 - Sulfate Concentrations
OU-4 Wells Greater than 200-Feet Downgradient of S-ISCO Treatment Area

