GEI Consultants

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Quarterly Operations, Maintenance & Monitoring Report
Third Quarter (Q3) 2008

Bay Shore/Brightwaters Former MGP Site

Town of Islip
Suffolk County, New York
NYSDEC Consent Index No. D1-0001-98-11

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1. Introduction

This report presents the third quarter 2008 (Q3 2008) 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 (the Site). 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 signed by KeySpan Corporation (KeySpan) (currently know as National Grid) and the New York State Department of Environmental Conservation (NYSDEC).

In 2003, the Site was divided into four operable units to more effectively manage investigation and remediation activities (**Figure 1**). The OM&M results of all four operable units have been combined in this report in order to present an overall picture of trends relating to effectiveness of the dense non-aqueous phase liquids (DNAPL) recovery, groundwater treatment systems operating at the Site, and remedial activities on groundwater quality in the upper glacial aquifer. The locations of the DNAPL recovery and groundwater treatment systems are presented on **Figure 1** and descriptions are presented in the applicable sections for each operable unit.

OM&M activities include maintenance and monitoring of the DNAPL recovery and groundwater treatment systems, quarterly groundwater monitoring, and monitoring of soil vapor and ambient air. The OM&M results for each operable unit are presented in the following sections of the report: Section 2 - Operable Unit 1 (OU-1); Section 3 - Operable Unit 2 (OU-2); Section 4 - Operable Unit 3 (OU-3); and Section 6 - Operable Unit 4 (OU-4). The soil vapor and ambient air results contain data for OU-2 and OU-3 and are presented in Section 5.

1.1 Background

The former MGP operations began in the late 1880s and continued into the 1970s. Most of the 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 (Dvirka and Bartilucci Consulting Engineers [D&B], 2002) and Final Remedial Investigation Report (D&B, 2003). Several Interim Remedial Measures (IRMs) have been conducted since 1999 in OU-2, OU-3, and OU-4. A brief description of each IRM is presented for each operable unit below.

OU-1 consists of the Bay Shore Site, formerly the main operations area of the MGP, which is currently owned by National Grid. The following remedial actions, IRM and pilot studies have been performed in OU-1:

- DNAPL Recovery IRM: A DNAPL recovery system was installed in the off-Site area south of the Long Island Railroad (LIRR) (GEI, 2006).
- In-Situ Chemical Oxidation (ISCO) Pilot Studies: Three pilot studies were conducted at the Site in 2004 utilizing Activated Persulfate, Modified Fenton's Reagent and Activated Fenton's Reagent (GEI, 2005).
- Surfactant-Enhanced In-Situ Chemical Oxidation (S-ISCO) Pilot Study: A pilot study was conducted in 2006 utilizing a surfactant to solubilize MGP-related impacts and Sodium Persulfate to oxidize those impacts (GEI, 2007a).
- OU-1 Southern Cell Excavation (February 2007 through April 2007). This excavation consisted of the removal of source material to a maximum depth of 25 feet below ground surface (bgs). The excavation was completed in support of the utility relocation in association with the excavation of source material in OU-1 located north of LIRR (GEI, 2004c).
- Subsurface Containment Barrier Installation (April 2007 through April 2008). The installation of Subsurface Containment Barrier commenced in April of 2007 and was completed in April 2008. The barrier was installed as part of the Remedial Action Plan (RAP) for OU-1 (GEI, 2004c).
- Oxygen Injection System: An oxygen injection system was installed along the downgradient edge of OU-1 in February 2008 as an interim remedial measure to treat groundwater at the "gate" portion of the barrier wall until the full scale ozone treatment system is complete.

OU-2 consists of the groundwater plume which extends south to southeast from OU-1. The following IRM has been performed in OU-2:

- Oxygen Injection IRM: A groundwater treatment system utilizing oxygen injection technology was installed in the fourth quarter of 2005 as part of an IRM (GEI, 2006). The treatment system consists of two injection lines located along Montauk Highway and the intersection of Garner and Manatuck Lanes (**Figure 1**). The system injects oxygen into the upper glacial aquifer to increase aerobic biological activity and reduce the concentrations of MGP-related contaminants in groundwater prior to discharge into Lawrence Creek. MGP-related impacts are limited to the upper glacial aquifer. The underlying Magothy aquifer, which is the primary source of public water supply in Nassau and Suffolk Counties, is not impacted from former MGP operations.
- Additional Oxygen Injection Systems: Additional groundwater treatment systems utilizing oxygen injection technology were being installed within the OU-2 groundwater plume during Q3 2008 and are planned to begin operation in early 2009.

OU-3 consists of the Brightwaters Yard, which is currently owned by National Grid, and the groundwater plume that extends south to southeast from the Brightwaters Yard. The following IRMs have been performed in OU-3:

- ISCO IRMs: Three rounds of ISCO by In-Situ Oxidative Technologies, Inc. (ISOTEC) were used to treat the Brightwaters Yard groundwater plume source area in May of 2001, September of 2001, and October of 2004. The treatment involved the injection of a chelated iron complex and stabilized hydrogen peroxide (H^2O^2) within the IRM area (Foster Wheeler Environmental Corporation [FW], 2000).
- Excavation IRM: A source area excavation was effective in removing 1,500 tons of source contaminated soils from May to July of 2004 (Figure 1) (Paulus, Sokolowski and Sartor Engineering, PC [PS&S], 2004).
- Oxygen Injection IRM: A groundwater treatment system utilizing oxygen injection technology was installed in the third quarter 2000 as part of an IRM at the intersection of Union Boulevard and Lanier Lane (**Figure 1**). The treatment system consists of one injection line which injects oxygen into the upper glacial aquifer to increase aerobic biological activity and reduce the concentrations of MGP-related contaminants in groundwater prior to discharge into O-Co-Nee Pond. MGP-related impacts are limited to the upper glacial aquifer. The underlying Magothy aquifer, which is the primary source of public water supply in Nassau and Suffolk Counties, is not impacted from former MGP operations.
- Oxygen Injection IRM: A second groundwater treatment system utilizing oxygen injection technology was installed in fourth quarter 2004 as part of an IRM on the Brightwaters Yard adjacent to the LIRR (**Figure 1**). The treatment system consists of three injection lines which inject oxygen into the upper glacial aquifer to increase aerobic biological activity and reduce the concentrations of MGP-related contaminants in groundwater leaving the Site boundary (PS&S, 2004). MGP-related impacts are limited to the upper glacial aquifer. The underlying Magothy aquifer, which is the primary source of public water supply in Nassau and Suffolk Counties, is not impacted from former MGP operations.

OU-4 consists of a former cesspool, former pond area, and the headwaters of Watchogue Creek (a.k.a., Crum's Brook), located approximately 400 feet east of the Bay Shore Site. The following IRMs have been or will be performed in OU-4:

- Sediments in Watchogue Creek/Crum's Brook were removed and the channel was restored as part of an IRM performed in 2000 (FW, 2002).

- The former cesspool was excavated and shallow impacted soils (vadose zone soils) were removed and treated off-Site as part of an IRM performed in Q4 2005 (**Figure 1**) (GEI, 2004a). The remaining impacted materials below the water table at the former cesspool area will be treated using in-situ treatment technologies. The NYSDEC-approved OU-4 Cesspool Area S-ISCO Work Plan (VeruTEK, 2008) was submitted on February 19, 2008. The final report for the OU-4 cesspool IRM will be submitted at the completion of the ISCO portion of the former cesspool IRM.
- In the former pond area, shallow impacted soils will be removed and treated off-Site as part of an IRM that was approved by the NYSDEC in April 2006 (GEI, 2006a). Impacted soils below the water table will be treated using in-situ methods following the results of the S-ISCO pilot study on OU-1 and/or through excavation.

2. Operable Unit 1 – Bay Shore Site, Bay Shore West Parcel and Adjacent Off-Site Areas

2.1 DNAPL Recovery System and NAPL Monitoring

2.1.1 Program Scope and Purpose

A DNAPL recovery system was installed in recovery well BBRW-02 in January 2006. The DNAPL recovery system consists of a Blackhawk Electric Anchor Piston Pump which recovers DNAPL from BBRW-02 and discharges to a United States Department of Transportation/United Nations (USDOT/UN)-approved 55-gallon steel drum. The DNAPL system is currently operated approximately once every three weeks. Historically, the recovery system was operated once every two weeks. The DNAPL system operation schedule was revised in March 2008 due to decreasing DNAPL recovery observed in the well. Allowing more time between recovery operations allows the DNAPL to settle into a discrete layer which allows for more efficient recovery.

The presence and thickness of light non-aqueous phase liquids (LNAPL) and/or DNAPL is gauged in wells BBRW-02 through BBRW-05, BBMW-05D, and BBMW-22D on a weekly basis. BBMW-20D was damaged in Q1 2008 during construction activities on OU-1 and has not been gauged since. These wells are located on OU-1 south of the LIRR (see **Figure 1**).

2.1.2 Current Site Activity

The following DNAPL recovery and non-aqueous phase liquids (NAPL) monitoring events occurred during Q3 2008.

- **DNAPL Recovery:** The DNAPL recovery system in BBRW-02 was operated on the following dates:
  - July 14, 2008 – DNAPL Recovery, Scheduled Operation 46
  - August 7, 2008 – DNAPL Recovery, Scheduled Operation 47
  - September 8, 2008 – DNAPL Recovery, Scheduled Operation 48

- **NAPL Gauging:** Wells BBRW-02 through BBRW-05, BBMW-05D, and BBMW-22D were gauged for the presence of LNAPL and DNAPL on the following dates:
  - July 3, 14, 18, and 25, 2008
  - August 1, 8, 15, and 22, 2008
  - September 2, 8, 12, 19, and 25, 2008

2.1.3 DNAPL Recovery and NAPL Monitoring Data

The DNAPL recovery system and NAPL monitoring data are provided on the following tables and figure.

- **Table 2-1 Summary of DNAPL Removal for Recovery Well BBRW-02** – provides DNAPL thickness prior to and after pumping events and volume of DNAPL recovered from BBRW-02. Approximately 13 gallons of DNAPL were recovered during Q3 2008. Approximately 257 gallons of DNAPL have been recovered since the initial pumping event.
- **Table 2-2 Summary of Measured DNAPL Thickness** – provides NAPL thickness in existing NAPL gauging wells BBRW-02 through BBRW-05, BBMW-05D, BBMW-20D, and BBMW-22D. The average DNAPL thicknesses measured at these wells remained consistent between Q2 2008 to Q3 2008.
- **Figure 2 DNAPL Recovery Data BBRW-02** – Illustrates historical pre- and post-DNAPL recovery thickness and amount of DNAPL recovered from BBRW-02. The amount of DNAPL recovered from BBRW-02 had consistently decreased from Q2 2006 through Q2 2008, but rebounded in Q3 2008. The rebound observed in Q3 2008 was due to an increase in the initial thickness of DNAPL in the well to approximately 8 feet in August 2008. The initial DNAPL thickness measured in BBRW-02 was below 8 feet from March 2007 through August 2008. The operational schedule of the DNAPL recovery system was changed from operating once every two weeks to approximately once every three weeks in Q2 2008 due to the decreasing recovery. The DNAPL recovery system will continue to be operated approximately once every three weeks. If sustained significant changes in DNAPL recovery rates are observed, the DNAPL recovery system operation schedule will be adjusted accordingly.

2.1.4 Future Plans

- The DNAPL recovery system will continue to be manually operated at a frequency of once every three weeks.
- The pumping interval will continue to be evaluated on a quarterly basis.

- The DNAPL/aqueous solution will be removed and disposed of by a licensed liquid hazardous waste transporter to a treatment, storage and disposal facility (TSDF) capable of receiving the specific waste material. The schedule of removal will be established such that DNAPL storage time on-Site does not exceed 90 days from the start of accumulation in a drum.
- A permanent enclosure to house the pump, well, and control panel will be installed at the completion of the portion of the OU-1 remedy that will take place in this area.

2.2 Oxygen Injection System

2.2.1 Program Scope and Purpose

An oxygen injection system was installed downgradient of the "gate" portion of the barrier wall at the downgradient edge of OU-1 in February 2008. This system is currently being used to treat groundwater at the "gate" portion of the barrier wall until the full scale ozone treatment system is complete. The location of the oxygen injection system is illustrated on **Figure 1**.

2.2.2 Current Site Activity

The following OU-1 oxygen injection system monitoring and system operation activities were performed in Q3 2008.

- **Monthly Groundwater Parameter Monitoring:** On a monthly basis, four monitoring wells downgradient of the oxygen injection line (OZMW-17S, OZMW-17I, OZMW-17I2, OZMW-17D) are monitored for Dissolved Oxygen Content (DO), Oxidation Reduction Potential (ORP), pH, Conductivity, and Temperature. Monthly Groundwater Parameter Monitoring was performed on the following dates:
  - July 16, 21, and 22, 2008
  - August 27, 2008
  - September 25, 29, and 30, 2008
- **System Operation Monitoring:** The groundwater treatment system is monitored on a monthly basis to ensure effective continued operation. During each monitoring event, system parameters relating to system operational and equipment readiness are recorded and adjusted as necessary to optimize system performance. System Operation Monitoring was performed on the following dates:
  - July 28, 2008
  - August 27, 2008

- October 1, 2008

- **Quarterly Groundwater Sampling:** Select monitoring wells upgradient and downgradient of the oxygen injection system located in OU-1 are sampled quarterly for volatile organic compounds (VOCs), and semivolatile organic compounds (SVOCs). Groundwater quality parameters (DO, pH, temperature, conductivity and ORP) are also recorded for each well during the quarterly sampling. Details on the groundwater sampling program are provided in Subsection 2.3 below.

2.2.3 Oxygen Injection System OM&M Data

The OM&M data collected for the OU-1 oxygen injection system is provided in the following table and appendix:

- **Table 2-3 Summary of Groundwater Parameter Data – OU-1 Oxygen Injection System -** provides data gathered at downgradient monitoring well clusters OZMW-16, OZMW-17, and OZMW-18. Although the system has only been operational since March of 2008, increases in DO have been observed at shallow and intermediate depths at all three monitoring well clusters. The data presented on this table indicate that for Q3 2008:

  - DO concentrations ranged between 0 and 24 milligrams per liter (mg/L) in all downgradient monitoring wells and between 4.6 and 24 mg/L in shallow and intermediate zones.
  - ORP values were elevated in several downgradient monitoring wells. ORP values ranged between -109 and 224 millivolts (mV);
  - pH varied between 4.92 and 7.76 Standard Units (SU) in downgradient monitoring wells;
  - Conductivity in downgradient monitoring wells ranged between 0.184 and 2.22 milli-Siemen per centimeter (mS/cm); and
  - Temperature ranged between 13.6 and 23.5 degrees Celsius (deg C), typical for Q3 conditions.

- **Figure 6 OU-1 Oxygen Injection Line Groundwater Data** – provides graphical depiction of DO levels, total benzene, toluene, ethylbenzene and xylenes (BTEX) and total polycyclic aromatic hydrocarbon (PAH) concentrations over time for wells located downgradient of the OU-1 oxygen injection line. Figure 2 provides data for the monitoring well clusters OZMW-16, OZMW-17, and OZMW-18. DO concentrations have remained elevated in several downgradient monitoring wells.

Significant decreases of MGP-related contaminants have been observed downgradient of the OU-1 oxygen injection line at monitoring wells where effects of the oxygen injection system have been noted (OZMW-16S, OZMW-16I, OZMW17S, OZMW-17I, OZMW-18S, OZMW-18I and OZMW-18I2). Further groundwater trend analysis is discussed in Subsection 2.3.4.1.

- **Appendix A OU-1 Oxygen Injection System OM&M Data** – provides data collected during system operation monitoring. The data provided in **Appendix A** indicate that:

    - Approximately 410 lbs of oxygen have been injected during Q3 2008 and a total of 924 lbs of oxygen have been injected since the initial start-up period; and
    - The OU-1 oxygen injection system operated for all 92 days during Q3 2008.

2.2.4 Future Plans

- Continue to conduct monthly system checks, groundwater parameter monitoring, and quarterly contaminants of concern (COC) sampling.
- Continue to conduct weekly system checks.
- Conduct labor intensive maintenance on the system.

2.3 Groundwater Monitoring

2.3.1 Program Scope and Purpose

Groundwater monitoring is conducted within OU-1 to aid in monitoring the groundwater plume (OU-2), and establishing baseline conditions against which the effectiveness of the planned ozone injection system and other remedial activities can be evaluated. There are currently 20 groundwater monitoring wells located in OU-1. In addition, 16 monitoring wells in four well cluster locations (OZMW-16S, I, I2, D; OZMW-17S, I, I2, D; OZMW-18S, I, I2, D and OZMW-22S, I, I2, D) were installed at the downgradient boundary of OU-1 in Q1 2008. The wells were installed to monitor the performance of the ozone injection system which will be installed at the gate of the subsurface containment barrier. The wells are currently being used to monitor the performance of the oxygen injection system installed at this location. The well locations and geographic boundaries of OU-1 are illustrated on **Figure 1**. The wells sampled each quarter are selected based on previous analytical data and discussions with NYSDEC.

2.3.2 Current Site Activity

The following groundwater monitoring activities took place in OU-1 during Q3 2008.

- Depth to groundwater measurements were obtained from August 4 through August 6, 2008 from the following 32 monitoring wells: BBMW-05D, BBMW-05D2, BBMW-13D, BBMW-22S, BBMW-22I, BBMW-22D, BBMW-26S, BBMW-26I, BBMW-27S, BBMW-27I, MW-03S, MW-03D, MW-05S, MW-05D, MW-09S, MW-09I, OZMW-16S, OZMW-16I, OZMW-16I2, OZMW-16D, OZMW-17S, OZMW-17I, OZMW-17I2, OZMW-17D, OZMW-18S, OZMW-18I, OZMW-18I2, OZMW-18D, OZMW-22S, OZMW-22I, OZMW-22I2 and OZMW-22D.
- Groundwater samples were collected on August 29, 2008 and September 2, 3, 4, 25, 29, and 30, 2008 from the following 25 monitoring wells: BBWM-05D, BBMW-20I, BBMW-22S, BBMW-22I, BBMW-22D, BBMW-27S, MW-05S, MW-05D, MW-09S, OZMW-16S, OZMW-16I, OZMW-16I2, OZMW-16D, OZMW-17S, OZMW-17I, OZMW-17I2, OZMW-17D, OZMW-18S, OZMW-18I, OZMW-18I2, OZMW-18D, OZMW-22S, OZMW-22I, OZMW-22I2, and OZMW-22D. Groundwater samples from 9 of the 25 wells were analyzed for benzene, toluene, ethylbenzene and xylene (BTEX) and methyl tert butyl ether (MTBE) by United States Environmental Protection Agency (EPA) Method 8260 and for polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270. Groundwater samples from the remaining 16 wells were analyzed for an expanded list of VOCs (EPA Method 8260) and PAHs (EPA Method 8270).

2.3.3 Groundwater Elevation Data

The depth to groundwater and groundwater elevation data for OU-1 are provided on the following tables and figures.

- **Table 2-4 Water Level Measurements and Calculated Groundwater Elevations** – provides depth to water measurements and calculated groundwater elevation data for OU-1 wells measured in Q3 2008. The elevation data presented on this table is in reference to the NAVD88 datum.
- **Table 2-5 Historic Calculated Groundwater Elevations** – provides historic groundwater elevations for existing OU-1 groundwater monitoring wells. All historic groundwater elevation data presented has been recalculated based on the November 2007 survey data and the NAVD88 datum.
- **Figure 3 – On-Site Shallow Groundwater Contour Map** – provides the Q3 2008 shallow groundwater elevation contours for OU-1 and OU-3.

- **Figure 4 – Shallow Groundwater Contour Map** – provides the Q3 2008 shallow groundwater elevation contours for OU-1, OU-2, OU-3 and OU-4.
- **Figure 5 – Deep Groundwater Contour Map** – provides the Q3 2008 deep groundwater elevation contours for OU-1, OU-2, OU-3 and OU-4.

The groundwater flow direction is towards the south/southeast. The shallow groundwater hydraulic gradient in OU-1 is approximately 0.0025 feet/foot and the deep groundwater hydraulic gradient is approximately 0.0032 feet/foot. The groundwater elevation in OU-1 monitoring wells during the Q3 2008 event were an average of 1.14 feet lower than the Q2 2008 groundwater elevations and an average of 0.44 feet lower than the Q3 2007 groundwater elevations.

2.3.4 Groundwater Analytical Data

The groundwater analytical results for groundwater monitoring wells located in OU-1 and sampled in Q3 2008 are provided on the following tables:

- **Table 2-6 Summary of Historic Total BTEX Groundwater Analytical Results** – provides a summary of historical total BTEX results for existing OU-1 groundwater monitoring wells.
- **Table 2-7 Summary of Historic Total PAH Groundwater Analytical Results** – provides a summary of historical total PAH results for existing OU-1 groundwater monitoring wells.
- **Table 2-8 Summary of BTEX, MTBE and PAH Groundwater Analytical Results** – provides the Q3 2008 groundwater analytical results for monitoring wells located in OU-1 for each of the analyzed compounds detected in Q3 2008.
- **Table 2-9 Summary of Expanded Groundwater Analytical Results –** provides the Q3 2008 groundwater analytical results for monitoring wells located in OU-1 that were analyzed for the expanded list of VOCs for each compound detected in Q3 2008.

2.3.4.1 Groundwater Analytical Data Trend Analysis

The groundwater analytical data were reviewed to identify any trends in data between samples collected during similar seasonal periods in previous years and any long term trends.

Nine of the 25 wells sampled in Q3 2008 were sampled in at least one previous Q3 sampling event. Six of these 10 monitoring wells had sufficient data available (greater than one historic sampling event) to calculate the standard deviation and mean historical Q3 concentrations (exclusive of the Q3 2008 data). The Q3 2008 data were then compared to two standard deviations from the mean. The range of data depicted within two standard deviations from the mean should include at least 75% of all concentrations recorded for the individual well

(Chebyshev's inequality or Chebyshev's theorem). Concentrations that fall outside of this range would represent a significant variation in total BTEX or PAH concentrations.

The results of the statistical analysis for the OU-1 historical Q3 data for total BTEX are shown below. The table below provides the total BTEX concentrations measured in Q3 2008 and the mean and standard deviation calculated for the historical Q3 total BTEX values. The resultant statistical range (the mean concentration plus or minus 2 standard deviations) is also presented.

		Total BTEX Concentration (ug/L)				
				Historical	Statistical Q3 Range	
Well No.	Screen Interval (ft-bgs)	Q3 2008	Historical Q3 Mean	Q3 Standard Deviation	Minimum	Maximum
BBMW-05D	64.0 - 74.0	790	1,586	2,213	-2,840	6,012
BBMW-20I	35.0 - 45.0	6	109	71	-33	251
BBMW-22S	5.0 - 10.0	9,140	16,328	5,517	5,294	27,362
MW-05D	35.5 - 45.5	7	121	121	-169	314
MW-05S	4.0 - 14.0	14,554	18,802	5,911	6,980	30,624
MW-09S	4.0 - 14.0	0	0	0	0	0

All of the OU-1 Q3 2008 total BTEX concentrations fall within two standard deviations of the mean historical Q3 total BTEX concentration.

When the same analysis is performed for the entire OU-1 data set, independent of the quarter the data was collected, all of the Q3 2008 total BTEX concentrations fall within two standard deviations from the historical mean concentration of the entire OU-1 data set with the exception of OZ-16I2, where the Q3 concentration is similar to historical concentrations and near detection levels. These results indicate that no statistically significant changes in the BTEX concentration were detected in Q3 2008 for the majority of wells where sufficient data was available to perform statistic analysis. The entire OU-1 total BTEX historical data set for existing wells is presented in **Table 2-6**.

The results of the statistical analysis for the OU-1 historical Q3 data for total PAHs are shown below. The table below provides the total PAH concentrations measured in Q3 2008 and the mean and standard deviation calculated for the Q3 historical total PAH concentrations. The resultant statistical range (the mean concentration plus or minus 2 standard deviations) is also presented.

		Total PAH Concentration (ug/L)				
				Historical	Statistical Q3 Range	
Well No.	Screen Interval (ft-bgs)	Q3 2008	Historical Q3 Mean	Q3 Standard Deviation	Minimum	Maximum
BBMW-05D	64.0 - 74.0	1,555	2,266	3,148	-4,030	8,562
BBMW-20I	35.0 - 45.0	348	5,570	3,087	-604	11,745
BBMW-22S	5.0 - 10.0	1,876	4,062	513	3,036	5,087
MW-05D	35.5 - 45.5	1,988	2,573	1,963	-1,354	6,499
MW-05S	4.0 - 14.0	1,306	2,999	1,719	-439	6,437
MW-09S	4.0 - 14.0	0	0	0	0	0

The Q3 2008 PAH concentration was within two standard deviations of the historical Q3 mean PAH concentration for five of the six wells where sufficient data was available to perform the statistical analysis. The PAH concentration of the remaining well, BBMW-22S, was greater than two standard deviations below the historical Q3 PAH concentrations indicating a reduction in the Q3 PAH concentration at this location.

When the same analysis is performed on the entire OU-1 data set, independent of the quarter the data was collected, the Q3 2008 total PAH concentrations were within 2 standard deviations of the overall historical mean PAH concentrations for all wells with the exception of BBMW-27S, where the concentration slightly rose from below detection levels to 2 ug/L between Q2 and Q3 2008 (**Table 2-7**). These results indicate that no statistically significant changes in the total PAH concentrations were detected in Q3 2008 for the majority of the wells where sufficient data was available to perform statistic analysis.

Groundwater monitoring wells OZMW-16S, OZMW-16I, OZMW-16I2, OZMW-16D, OZMW-17S, OZMW-17I, OZMW-17I2, OZMW-17D, OZMW-18S, OZMW-18I, OZMW-18I2, and OZMW-18D were installed immediately downgradient of the oxygen injection system located in the gate portion of the wall in OU-1. These wells were first sampled in Q1 2008 prior to operation of the oxygen injection system. These wells were scheduled to be sampled for the second time at the end of Q2 2008. However, these wells were sampled for the second time at the beginning of Q3 2008. A third round of sampling of these wells was completed at the end of Q3 2008. The total BTEX and PAH concentrations in these wells for February/March 2008, July 2008 and September 2008 are summarized in the table below and presented in **Tables 2-6 and 2-7**.

Well No.	Screen Interval (ft-bgs)	Total BTEX (ug/L)			Total PAH (ug/L)		
		Feb/March 2008	July 2008	Sept. 2008	Feb/March 2008	July 2008	Sept. 2008
OZMW-16D	55.0 - 65.0	0	0	0	1	0	0
OZMW-16I	20.0 - 30.0	512	105	136	1,447	39	22
OZMW-16I2	35.0 - 45.0	3	4	8	0	219	0
OZMW-16S	5.0 - 15.0	4,685	0	0	830	2	0
OZMW-17D	53.0 - 63.0	0	0	0	27	0	0
OZMW-17I	20.0 - 30.0	1,316	82	23	5,197	5	0
OZMW-17I2	35.0 - 45.0	0	0	0	7	0	2
OZMW-17S	5.0 - 15.0	1,664	78	52	1,963	1	0
OZMW-18D	55.0 - 65.0	77	31	79	1,684	461	108
OZMW-18I	20.0 - 30.0	3,600	169	25	2,312	625	7
OZMW-18I2	35.0 - 45.0	201	95	75	8,178	7,353	11,417
OZMW-18S	5.0 - 15.0	3,160	54	212	569	15	0

The results of the three rounds of sampling indicate that the total BTEX and PAH concentrations have been reduced in the majority of the wells excluding OZMW-16I2 (slight increase of BTEX and variations in PAHs), OZMW-18D (slight increase of BTEX) and OZMW-18I2 (increase in PAHs). The most significant reductions of BTEX and PAHs were

observed in the shallower wells where the higher initial concentrations of BTEX and PAHs were present (OZMW-16S, OZMW-16I, OZMW17S, OZMW-17I, OZMW-18S, OZMW-18I and OZMW-18I2). The OU-1 oxygen injection system performance data for the two quarters of operation are summarized in **Section 2.2** above and illustrated on **Figure 6**. The results of this analysis for OU-1 indicate that the total BTEX and total PAH concentrations detected in Q3 2008 generally indicate decreasing trends in the groundwater downgradient of the oxygen injection system.

2.3.5 Future Plans

- Continue annual and quarterly groundwater monitoring at selected wells.

2.4 Institutional Controls/Engineering Controls (IC/EC)

There has been no activity this quarter.

3. Operable Unit 2 – Bay Shore Groundwater Plume

3.1 Oxygen Injection System

3.1.1 Program Scope and Purpose

An oxygen injection groundwater treatment system, comprised of two injection lines located along Montauk Highway and at the intersection of Manatuck and Garner Lanes, was installed in November of 2005 to mitigate dissolved-phase groundwater contaminant concentrations in the OU-2 plume migrating to Lawrence Creek (**Figure 1**). The oxygen injection system injects oxygen into the upper glacial aquifer to increase dissolved oxygen concentrations in groundwater and enhance biological breakdown of dissolved constituents in the groundwater plume in OU-2 prior to and during the remedial activities for OU-1.

3.1.2 Current Site Activity

The following OU-2 oxygen injection system monitoring and system operation activities were performed in Q3 2008.

- **Monthly Groundwater Parameter Monitoring:** On a monthly basis, seven monitoring wells downgradient of the oxygen injection lines (OU2MW-06, OU2MW-07, BBMW-25S, BBMW-25I, OU2MW-01S, OU2MW-01I, and OU2MW-01I2) are monitored for DO, ORP, pH, conductivity, and temperature. Monthly Groundwater Parameter Monitoring was performed on the following dates:

  - July 23, 24, and 26, 2008
  - August, 19, 20, 21, 25, and 26, 2008
  - September 23, 24, and 25, 2008

- **System Operation Monitoring:** The groundwater treatment system is monitored on a monthly basis to ensure effective continued operation. During each monitoring event, system parameters relating to system operational and equipment readiness are recorded and adjusted as necessary to optimize system performance. System Operation Monitoring was performed on the following dates:

  - July 24, 2008
  - August 26, 2008
  - September 30, 2008

- **Quarterly Groundwater Sampling:** Select monitoring wells upgradient and downgradient of the oxygen injection system located in OU-2 are sampled quarterly for VOCs and SVOCs. Groundwater quality parameters (DO, pH, temperature, conductivity and ORP) are also recorded for each well during the quarterly sampling. Details on the groundwater sampling program are provided in Subsection 3.2 below.

3.1.3 Oxygen Injection System OM&M Data

The OU-2 Oxygen Injection System OM&M data are provided on the following tables, figures and appendix.

- **Table 3-1 Summary of Groundwater Parameter Data – Montauk Highway Oxygen Injection Line** – provides the historical conductivity, DO, ORP, pH and temperature data for monitoring wells downgradient of the Montauk Highway oxygen injection line. The data presented on this table indicate that for Q3 2008:

  - DO concentrations remained elevated in downgradient monitoring wells. DO concentrations ranged between 0 and 34 mg/L;
  - ORP remained elevated in select downgradient monitoring wells. ORP ranged between -153 and 231 mV;
  - pH remained consistent. pH varied between 5.22 and 6.58 SU in downgradient monitoring wells;
  - Conductivity in downgradient monitoring wells remained consistent and has ranged between 0.039 and 0.99 mS/cm; and
  - Temperature ranged between 15.3 and 22.2 deg C, typical for Q3 conditions.

- **Table 3-2 Summary Groundwater Parameter Data – Manatuck Lane Oxygen Injection Line** – provides the historic conductivity, DO, ORP, pH and temperature data for monitoring wells downgradient of the Manatuck Lane oxygen injection line. The data presented in this table indicate that for Q3 2008:

  - DO concentrations remained elevated in downgradient monitoring wells. DO concentrations ranged between 5.9 and 34 mg/L;
  - ORP remained elevated in select downgradient monitoring wells. ORP ranged between 110 and 232 mV;
  - pH remained consistent. pH varied between 5.40 and 6.28 SU in downgradient monitoring wells;
  - Conductivity in downgradient monitoring wells remained consistent. Conductivity ranged between 0.120 and 0.733 mS/cm; and

- Temperature ranged between 14.7 and 24.4 deg C, typical for Q3 conditions.

- **Figure 7 Montauk Highway Oxygen Injection Line Groundwater Data** – provides graphical depiction of DO levels, total BTEX and total PAH concentrations over time for monitoring wells located downgradient of the Montauk Highway oxygen injection line. **Figure 7** provides data for the monitoring well clusters BBMW-25, OU2MW-01, OU2MW-02, OU2MW-03, OU2MW-04 and OU2MW-08. DO concentrations have remained elevated in several downgradient monitoring wells. Significant decreases of MGP-related contaminants have been observed in monitoring wells located downgradient of the Montauk Highway injection line at wells where effects of the oxygen injection system have been noted (BBMW-25S, BBMW-25I, OU2MW-01S, OU2MW-01I, OU2MW-01I2, OU2MW-02S, OU2MW-02I, OU2MW-03I and OU2MW-04I). Further groundwater trend analysis is discussed in Subsection 3.2.4.1.

- **Figure 8 Manatuck Lane Oxygen Injection Line Groundwater Data** – provides graphical depiction of DO levels, total BTEX and total PAH concentations over time for monitoring wells located downgradient of the Manatuck Lane oxygen injection line. Significant decreases of MGP-related contaminants have been observed in monitoring wells located downgradient of the Manatuck Lane injection line at wells where effects of the oxygen system have been noted (OU2MW-06, OU2MW-07, GMP-02 and GMP-04). Further groundwater trend analysis is discussed in Subsection 3.2.4.1.

- **Appendix B OU-2 Oxygen Injection System OM&M Data** – provides data collected during system operation monitoring. The data provided in **Appendix B** indicate that:

  - Approximately 878 lbs of oxygen have been injected during Q3 2008 and a total of 8,045 lbs of oxygen have been injected since the initial start-up period; and
  - The OU-2 oxygen injection system operated for all 92 days during Q3 2008.

3.1.4 Future Plans

- Continue monthly system checks, groundwater monitoring, and quarterly COC sampling.
- Continue sampling of permanent soil vapor points.
- Continue weekly system checks.
- Conduct labor intensive maintenance on the system.

3.2 Groundwater Monitoring

3.2.1 Program Scope and Purpose

Groundwater monitoring is conducted within OU-2 to aid in monitoring the groundwater plume, the effectiveness of remedial activities, the effectiveness of the oxygen injection systems, and to aid in remedy planning. There were 135 groundwater monitoring wells located within and adjacent to the OU-2 plume during the Q3 2008 sampling event. The well locations and geographic boundaries of OU-2 are illustrated on **Figure 1**. The majority of OU-2 monitoring wells are sampled quarterly with the exception of groundwater monitoring wells BBMW-01S, I, and D and BBMW-23S, I, D and D2, which have been sampled on a monthly basis since Q2 2007. BBMW-01S, I, and D and BBMW-23S, I, D, and D2 are located approximately 100 to 200 feet downgradient of OU-1 and will continue to be monitored on a monthly basis to measure the influence of the OU-1 excavations and barrier wall installation on the OU-2 groundwater plume. The number of wells sampled each quarter is determined based on previous analytical data and discussions with NYSDEC.

3.2.2 Current Site Activity

The following groundwater monitoring activities took place in OU-2 during Q3 2008.

- Depth to groundwater measurements were obtained on August 4 through 6, 2008 from 93 monitoring wells located within, sidegradient and downgradient of OU-2.
- Surface water elevations were obtained on August 5, 2008 from surface water gauges located within Lawrence Lake (BBSW-07) and Lawrence Creek (OU2SW-01 and BBSW-06).
- Groundwater samples were collected from 135 monitoring wells located within OU-2 on August 2, 8, 11 through 13, 18 through 21 and 25 through 29, 2008 and September 2 through 5, 9 through 11, 15 through 19, 22 and 23, 2008. Monitoring wells BBMW-01S, I, and D and BBMW-23S, I, D and D2 were sampled monthly during Q3 2008 on July 15, 2008, August 21, 2008, and September 30-October 1, 2008. The groundwater samples from all of the 149 wells were analyzed for expanded VOCs (EPA Method 8260) and PAHs (EPA Method 8270).

3.2.3 Groundwater Elevation Data

The depth to groundwater, groundwater elevation and surface water elevation data for OU-2 are provided on the following tables and figures.

- **Table 3-3 Water Level Measurements and Calculated Groundwater Elevations** – provides depth to water measurements and calculated groundwater and

surface water elevation data for OU-2 wells and surface water bodies measured in Q3 2008.

- **Table 3-4 Historic Calculated Groundwater Elevations** – provides historic groundwater elevations for existing OU-2 groundwater monitoring wells.
- **Figure 4 – Shallow Groundwater Contour Map** – provides the Q3 2008 shallow groundwater elevation contours for OU-1, OU-2, OU-3 and OU-4.
- **Figure 5 – Deep Groundwater Contour Map** – provides the Q3 2008 deep groundwater elevation contours for OU-1, OU-2, OU-3 and OU-4.

The groundwater flow direction in OU-2 is toward the south/southeast. The shallow groundwater hydraulic gradient ranges from approximately 0.0032 feet/foot in the upgradient portion of the plume to approximately 0.0045 feet/foot in the downgradient portion of the plume. The deep groundwater hydraulic gradient ranges from approximately 0.003 feet/foot to 0.0045 feet/foot. The groundwater elevations in OU-2 monitoring wells during the Q3 2008 event were an average of 0.55 feet lower than the Q2 2008 groundwater elevations and an average of 0.18 feet lower than the Q3 2007 groundwater elevations.

3.2.4 Groundwater Analytical Data

The OU-2 groundwater analytical data are presented on the following tables.

- **Table 3-5 Summary of Historic Total BTEX Groundwater Analytical Results - Upgradient of Montauk Highway Oxygen Injection Line** – presents a summary of historical total BTEX results for existing OU-2 groundwater monitoring wells upgradient of the Montauk Highway Oxygen Injection Line.
- **Table 3-6 Summary of Historic Total PAH Groundwater Analytical Results - Upgradient of the Montauk Highway Oxygen Injection Line** – presents a summary of historical total PAH results for existing OU-2 groundwater monitoring wells upgradient of the Montauk Highway Oxygen Injection Line.
- **Table 3-7 Summary of Historic Total BTEX Groundwater Analytical Results - Downgradient of Montauk Highway Oxygen Injection Line** – presents a summary of historical total BTEX results for existing OU-2 groundwater monitoring wells downgradient of the Montauk Highway Oxygen Injection Line.
- **Table 3-8 Summary of Historic Total PAH Groundwater Analytical Results - Downgradient of the Montauk Highway Oxygen Injection Line** – presents a summary of historical total PAH results for existing OU-2 groundwater monitoring wells downgradient of the Montauk Highway Oxygen Injection Line.
- **Table 3-9 Summary of Historic Total BTEX Groundwater Analytical Results - Downgradient of Manatuck Lane Oxygen Injection Line** – presents a summary of

historical total BTEX results for existing OU-2 groundwater monitoring wells downgradient of the Manatuck Lane Oxygen Injection Line.

- **Table 3-10 Summary of Historic Total PAH Groundwater Analytical Results-Downgradient of the Manatuck Lane Oxygen Injection Line** – presents a summary of historical total PAH results for existing OU-2 groundwater monitoring wells downgradient of the Manatuck Lane Oxygen Injection Line.
- **Table 3-11 Summary of Expanded Groundwater Analytical Results** – provides the Q3 2008 groundwater analytical results for monitoring wells located in OU-2 for each compound detected during the Q3 2008 sampling event.

3.2.4.1 Groundwater Analytical Data Trend Analysis

The groundwater analytical data were reviewed to identify any trends in data between samples collected during similar seasonal periods in previous years and any long term trends. In addition, analysis of the data has been separated between the areas upgradient and downgradient of the Garner Lane oxygen injection system. The discussion of groundwater downgradient of the oxygen injection system is further divided by the first injection line at Montauk Highway and the second oxygen injection line at Manatuck Lane (**Figure 1**).

A comparison of previous Q3 data to the Q3 2008 data is presented below for the areas upgradient and downgradient of the oxygen injection system. Where sufficient data were available, the standard deviation was calculated for historical Q3 concentrations (exclusive of the Q3 2008 data). The Q3 2008 data were then compared to two standard deviations from the mean. The range of data depicted within two standard deviations from the mean should include 75% of all concentrations recorded for the individual well (Chebyshev's inequality or Chebyshev's theorem). Concentrations that fall outside of this range would represent a significant variation in total BTEX or PAH concentrations. For the seven monitoring wells sampled monthly during Q3 2008, the largest concentration was used to calculate trend statistics.

Upgradient of the Montauk Highway Oxygen Injection Line

Seventy (70) wells were sampled upgradient of the Montauk Highway oxygen injection line in OU-2 during Q3 2008. Of these 70 wells, 20 wells had sufficient historical Q3 data to perform the statistical analysis described above.

The results of this statistical analysis for total BTEX is provided on the table below and includes a summary of the Q3 2008 BTEX concentration, the historical Q3 standard deviation, historical Q3 mean (exclusive of Q3 2008 data) and the resultant statistical range (the mean concentration plus or minus 2 standard deviations) for each well.

Well No.	Screen Interval (ft-bgs)	Total BTEX Concentration (ug/L)				
		Q3 2008	Historical Q3 Mean	Historical Q3 Standard Deviation	Statistical Q3 Range	
					Minimum	Maximum
BBMW-01D*	68.5 - 78.5	75	512	456	-401	1,424
BBMW-01I*	32.0 - 42.0	57	247	160	-73	567
BBMW-01S*	5.0 - 15.0	1,251	2,787	2,644	-2,500	8,075
BBMW-15I	35.0 - 45.0	0	0	0	0	0
BBMW-15I2	23.0 - 28.0	0	0	0	0	0
BBMW-15S	5.0 - 15.0	0	0	0	0	0
BBMW-23D*	49.5 - 59.5	12	374	498	-622	1,370
BBMW-23D2*	63.0 - 73.0	0	31	46	-60	123
BBMW-23I*	33.0 - 43.0	0	4	8	-13	21
BBMW-23S*	5.0 - 15.0	18,758	19,661	12,921	-6181	45,503
BBMW-24D	59.5 - 69.5	7	424	388	-352	1,200
BBMW-24I	32.0 - 42.0	0	909	1,033	-1158	2,975
BBMW-24S	4.0 - 14.0	117	0	0	0	0
GM-03D	53.18 - 68.18	0	44	88	-131	219
GM-03I	30.03 - 45.03	257	84	95	-106	273
GM-03S	6.78 - 21.78	23	80	77	-74	235
OU2MW-08D	65.0 - 70.0	16	0	0	0	0
OU2MW-08I	35.0 - 40.0	62	339	151	38	640
OU2MW-08I2	50.0 - 55.0	248	274	274	-273	821
OU2MW-08S	20.0 - 25.0	692	1,385	978	-570	3,341

Notes: * indicates maximum monthly value presented
Shaded values indicate value outside of calculated statistical range

The Q3 2008 total BTEX concentrations at monitoring well BBMW-24S and OU2MW-08D were greater than two standard deviations above the historical Q3 mean value indicating a slight increase in concentration at these locations. The Q3 2008 BTEX concentrations in the remaining wells fell within two standard deviations from their historical Q3 means.

When the same analysis was performed on the entire OU-2 data set upgradient of the Montauk Highway oxygen injection line, independent of the quarter the data was collected, the Q3 2008 total BTEX concentrations in all of the wells fell within two standard deviations from their historical mean concentration with the exception of BBMW-24S and OU2MW-08D (**Table 3-5**). The total BTEX concentration measured in BBMW-24S and OU2MW-08D (117 ug/L and 16 ug/L, respectively) were greater than two standard deviations higher than the overall historical mean. BTEX was not present above detection limits at BBMW-08D prior to the Q3 2008 sampling event.

Both the BBMW-01 and BBMW-23 well clusters have been sampled on a monthly basis since May 2007. These wells were selected for monthly sampling to more closely monitor the groundwater impacts immediately downgradient of the OU-1 barrier wall installation and OU-1 excavation activities. The BTEX concentrations in these wells for each of the Q2 2007, Q3 2007, Q4 2007, Q1 2008 Q2 2008 and Q3 2008 sampling events are presented in the following table.

Well ID:		BBMW-01D	BBMW-01I	BBMW-01S	BBMW-23D	BBMW-23D2	BBMW-23I	BBMW-23S
Screen Depth:		68.5 - 78.5	32.0 – 42.0	5.0 - 15.0	49.5 - 59.5	63.0 - 73.0	33.0 - 43.0	5.0 - 15.0
Sample Date		Total BTEX Concentration (ug/L)						
May	Q2	416	57	3,640	85	0	0	14,854
June	2007	555	156	2,985	96	0	0	18,185
July	Q3	270	252	4,344	677	0	0	13,434
Aug.	2007	163	289	7,420	998	0	19	5,853
Sept.		386	375	1,763	1,324	0	3	19,818
Oct.	Q4	5	274	1,887	660	0	0	13,621
Nov.	2007	1	127	5,590	621	0	4	14,940
Dec.		9	177	2,430	459	0	10	8,501
Jan.	Q1	22	262	2,720	493	0	0	7,726
Feb	2008	28	218	4,210	89	0	0	10,553
March		43	67	2,865	31	0	0	26,389
April	Q2	35	30	3,022	23	0	0	22,830
May	2008	32	36	1,922	17	3	3	10,736
June		81	64	1,984	10	0	0	14,251
July	Q3	75	34	1,025	12	0	0	18,389
August	2008	32	39	1,251	8	0	0	17,680
Sept.		20	57	775	6	0	0	18,758

Review of the above data indicates a decrease in BTEX concentrations in BBMW-01D starting in October 2007 and continuing through September 2008. A decrease in BTEX concentrations was also observed in BBMW-01I and BBMW-23D starting in March 2008 and continuing through September 2008. The BTEX concentration observed in BBMW-01S in Q3 2008 represents the lowest concentration recorded in the well since monthly sampling began. The Q3 2008 BTEX concentrations in the remaining wells (BBMW-23I and BBMW-23D2) have remained below detection limits since May 2008. The BTEX concentrations in BBMW-23S have fluctuated and are similar to those of previous monthly sampling events.

The results of the statistical analysis for total PAHs are provided below. The following table presents a summary of the Q3 2008 total PAH concentration, the historical Q3 standard deviation, historical Q3 mean (exclusive of Q3 2008 data) and the resultant statistical range (the mean concentration plus or minus 2 standard deviations) for each well.

Well No.	Screen Interval (ft-bgs)	Total PAH Concentration (ug/L)				
		Q3 2008	Historical Q3 Mean	Historical Q3 Standard Deviation	Statistical Q3 Range	
					Minimum	Maximum
BBMW-01D*	68.5 - 78.5	274	1,904	1,638	-1,372	5,180
BBMW-01I*	32.0 - 42.0	8,764	6,317	3,697	-1,077	13,711
BBMW-01S*	5.0 - 15.0	1,991	1,657	1,193	-729	4,044
BBMW-15I	35.0 - 45.0	0	10	17	-25	45
BBMW-15I2	23.0 - 28.0	0	1	2	-2	4
BBMW-15S	5.0 - 15.0	0	0	0	0	0
BBMW-23D*	49.5 - 59.5	5	2,562	2,035	-1,508	6,633
BBMW-23D2*	63.0 - 73.0	0	39	39	-39	118
BBMW-23I*	33.0 - 43.0	23	443	1,134	-1,825	2,710
BBMW-23S*	5.0 - 15.0	1,838	1,631	729	174	3,088
BBMW-24D	59.5 - 69.5	2	2,883	3,129	-3,375	9,142
BBMW-24I	32.0 - 42.0	0	5,334	2,496	342	10,325
BBMW-24S	4.0 - 14.0	120	0	0	0	0
GM-03D	53.18 - 68.18	0	133	295	-457	723
GM-03I	30.03 - 45.03	13	282	266	-249	813
GM-03S	6.78 - 21.78	47	128	112	-97	353
OU2MW-08D	65.0 - 70.0	9	0	0	0	0
OU2MW-08I	35.0 - 40.0	7,738	2,193	3,160	-4,126	8,512
OU2MW-08I2	50.0 - 55.0	3,037	991	2,066	-3,141	5,123
OU2MW-08S	20.0 - 25.0	7,369	5,068	7,916	-10,763	20,899

Notes: * indicates maximum monthly value presented.
Shaded values indicate value outside of calculated statistical range

The Q3 2008 total PAH concentrations fell within two standard deviations from their historical Q3 means for all wells, excluding BBMW-24S, BBMW-24I and OU2MW-08D, where sufficient data was available to perform the statistical analysis. The PAH concentrations in wells BBMW-24S and OU2MW-08D are greater than two standard deviations above their historical Q3 means, representing an increase in Q3 PAH concentrations at these locations. The PAH concentration in the remaining well, BBMW-24I, was greater than two standard deviations below the historical Q3 PAH concentrations indicating a reduction in the Q3 PAH concentration at this location.

When the same analysis was performed on the entire OU-2 data set upgradient of the Montauk Highway oxygen injection line, independent of the quarter the data was collected, the total PAH concentrations at all of the monitoring wells were within two standard deviations of the overall historical mean with the exception of OU2MW-08I. The PAH concentration in OU2MW-08I for Q3 2008 was 7,738 ug/L (**Table 3-6**), which is within the statistical Q3 range but greater than the overall historical statistical range. As stated above, both the BBMW-01 and BBMW-23 well clusters have been sampled on a monthly basis since May 2007. The total PAH concentrations in these wells for each of the Q2 2007, Q3 2007, Q4 2007, Q1 2008, Q2 2008 and Q3 2008 sampling events are presented in the following table.

Well ID:		BBMW-01D	BBMW-01I	BBMW-01S	BBMW-23D	BBMW-23D2	BBMW-23I	BBMW-23S
Screen Depth:		68.5 - 78.5	32.0 - 42.0	5.0 - 15.0	49.5 - 59.5	63.0 - 73.0	33.0 - 43.0	5.0 - 15.0
Sample Date		Total PAH Concentration (ug/L)						
May	Q2	695	7,721	3,189	6,619	0	1,355	2,318
June	2007	2,090	6,848	4,347	5,216	0	2,207	2,519
July	Q3	862	8,949	3,972	4,927	0	2,559	1,785
Aug.	2007	300	2,789	2.787	5,443	1	197	1,746
Sept.		1,248	5,384	2,618	5,835	0	31	1,427
Oct.	Q4	0	4,536	1,162	5,620	0	0	2,703
Nov.	2007	5	4,942	2,047	3,130	0	20	1,870
Dec.		0	8,071	3,929	3,641	0	31	2,381
Jan.	Q1	33	7,517	176	3,118	0	16	198
Feb	2008	50	10,403	30	957	0	0	1,895
March		55	6,752	1,432	310	2	1	2,569
April	Q2	62	4,021	1,619	188	50	14	2,169
May	2008	0	3,802	689	5	14	0	1,307
June		183	6,532	1,640	81	0	0	1,596
July	Q3	274	4,257	1,991	95	0	2	1,789
August	2008	0	4,803	10	0	0	0	1,838
Sept.		0	8,764	0	3	0	23	1,534

Review of the above data indicates that the PAH concentrations measured in BBMW-01D, BBMW-01S, BBMW-23D and BBMW-23I have reduced significantly beginning in the Q4 2007, Q3 2008, Q1 2008 and the Q3 2007 sampling events, respectively.

The reductions and fluctuations in BTEX and PAH concentrations detected in OU-2 upgradient of the oxygen injection system are likely caused by remediation activities occurring in OU-1 including, barrier wall construction activities, source area excavations and oxygen injection system operation. The barrier wall construction was completed in April 2008. Additional oxygen injection systems are currently being installed within the OU-2 groundwater plume and are planned to begin operation in Q1 2009.

Downgradient of Montauk Highway Oxygen Injection Line

The following 48 wells are located downgradient of the Montauk Highway oxygen injection line and upgradient of the Manatuck Lane injection line:

- BBMW-03S, I, and D;
- BBMW-07S, I and D;
- BBMW-25S, I, and D;
- OU2MW-01WT, S, I, I2, and D;
- OU2MW-02S, I, I2, and D;
- OU2MW-03S, I, I2, and D;
- OU2MW-04WT, S, I, I2, and D;
- OU2MW-05,
- OU2MW-09;
- OU2MW-11S, I, I2, and D;

- OU2MW-14S, I, and I2;
- OU2MW-15S, I, I2, and D;
- OU2MW-16S, I, I2, and D;
- GM-05S, I, and D; and
- GMP-01.

As presented in Subsection 3.1.3 above, significant decreases of MGP-related contaminants have been observed in monitoring wells located downgradient of the Montauk Highway injection line at wells where effects of the oxygen injection system have been noted. Plots of groundwater parameters and total BTEX and total PAH concentrations over time are presented in **Figure 7** for wells located downgradient of the Montauk Highway injection line. The pre- and post-oxygen injection BTEX and PAH concentrations are presented in **Tables 3-7 and 3-8**, respectively.

The pre-treatment and post-treatment statistical trends were evaluated by calculating the standard deviation and mean BTEX and PAH concentrations for historical groundwater samples prior to initiation of oxygen injection system (prior to January 2006). The post-oxygen injection system data were then compared to two standard deviations from the mean pre-oxygen injection system data. This analysis was performed for the BBMW-25, GM-05 and GMP-01 well clusters as these are the only well locations within the OU-2 plume downgradient of the Montauk Highway injection line with sufficient pre-oxygen injection system data available. Well cluster BBMW-25 is located immediately downgradient of the Montauk Highway injection line. Well clusters GM-05 and GMP-01 are located approximately 1,000 feet downgradient of the Montauk Highway injection line, just upgradient of the Manatuck Lane injection line. Only one sampling event (August 2005) was conducted prior to start-up of the oxygen injection system (January 2006) at the OU2MW-01, 03, 04, 05 and 09 well clusters. Well clusters OU2MW-11, 14, 15 and 16 were installed and first sampled in Q3 2007.

The tables below present the post-oxygen injection system concentrations and the pre-oxygen injection mean concentration and standard deviation for BTEX and PAHs for each well.

Well No.	Total BTEX Concentrations (ug/L)												
	Post-Oxygen Injection Sampling Date											Pre-Oxygen Injection Mean	Pre-Oxygen Injection Standard Deviation
	2006 March	2006 June	2006 Jul/ Aug	2006 Nov/ Dec	2007 Mar/ Apr	2007 May- July	2007 Jul/ Sept	2007 Nov/ Dec	2008 Feb	2008 June	2008 Aug/ Sept		
BBMW-25S	0	0	0	0	0	0	0	0	2	0	0	5	17
BBMW-25I	264	0	79	344	0	148	252	41	158	169	101	1,106	515
BBMW-25D	11	21	78	76	0	0	16	6	2	6	8	51	32
GM-05D	0	--	--	--	0	0	0	0	4	0	0	0	0
GM-05I	0	--	--	--	0	0	13	0	0	0	0	0	1
GM-05S	140	21	0	12	0	0	0	14	185	55	16	117	138
GMP-01	0	--	--	--	0	0	0	135	182	94	170	883	820

Well No.	Total PAH Concentrations (ug/L)												
	Post-Oxygen Injection Sampling Date											Pre-Oxygen Injection Mean	Pre-Oxygen Injection Standard Deviation
	2006 March	2006 June	2006 Jul/ Aug	2006 Nov/ Dec	2007 Mar/ Apr	2007 May- July	2007 Jul/ Sept	2007 Nov/ Dec	2008 Feb	2008 June	2008 Aug/ Sept		
BBMW-25S	0	0	0	0	0	0	10	1	0	0	0	4	8
BBMW-25I	1,560	0	37	488	11	78	457	2	181	48	86	5,965	2,043
BBMW-25D	308	125	160	384	0	0	3	0	0	0	59	526	559
GM-05D	0	--	--	--	0	0	0	0	0	0	0	4	11
GM-05I	0	--	--	--	0	0	7	0	0	0	0	7	16
GM-05S	34	0	0	0	0	0	0	13	25	30	7	518	646
GMP-01	9,385	9,261	5,555	3,936	4,019	5,506	159	4,428	3,967	2,020	778	2,433	2,928

All of the Q3 2008 total BTEX and total PAH concentrations are below the pre-oxygen injection system mean total BTEX and mean total PAH concentrations. All of the 2006, 2007 and 2008 post-oxygen injection total BTEX concentrations for wells BBMW-25S, BBMW-25I and GMP-01 were below the mean total BTEX pre-oxygen injection concentrations. The BTEX concentration in GM-05I and GM-05D were below detection limits for all post-oxygen injection sampling events with the exception of Q3 (July/September) 2007 and Q1 2008 (February), respectively.

All of the post-oxygen injection PAH concentrations for wells BBMW-25S, I, D, and GM-05S, I, D were at or below the mean pre-oxygen injection system PAH concentration with the exception of the PAH concentration (10 ug/L) detected in BBWM-25S in Q3 2007. The concentrations in well GMP-01 have been trending downward beginning in Q1 2008 and have been below the pre-oxygen injection mean for the last two sampling events.

The above data indicate that there have been significant decreases of MGP-related contaminants in groundwater monitoring wells located downgradient of the Montauk Highway oxygen injection line.

Downgradient of Manatuck Lane Oxygen Injection Line

The following 17 wells are located downgradient of the Manatuck Lane oxygen injection line:

- GMP-02;
- GMP-04;
- OU2IW-01S;
- OU2MW-06 and 06S;
- OU2MW-07 and 07S;
- OU2MW-10S, I, and D;
- OU2MW-12S, I, I2 and D; and
- OU2MW-13S, I, and D.

As presented in Subsection 3.1.3 above, significant decreases of MGP-related contaminants have been observed in monitoring wells located downgradient of the Manatuck Lane injection line at wells where effects of the oxygen injection system have been noted. Plots of groundwater parameters and total BTEX and total PAH concentrations over time are presented in **Figure 8** for wells located downgradient of the Manatuck Lane injection line. The pre- and post-oxygen injection BTEX and PAH concentrations are presented in **Tables 3-9 and 3-10**, respectively.

The pre-treatment and post-treatment statistical trends were analyzed by calculating the standard deviation and mean BTEX and PAH concentrations for historical groundwater samples prior to initiation of oxygen injection system (prior to January 2006). The post-oxygen injection system data were then compared to two standard deviations from the mean pre-oxygen injection system data. This analysis was performed for wells GMP-02 and GMP-04 as these are the only well locations downgradient of the Manatuck Lane injection line with sufficient pre-treatment data available. Only one sampling event (August 2005) was conducted prior to start-up of the oxygen injection system (January 2006) at wells OU2MW-06 and OU2MW-07. Wells OU2IW-01S, OU2MW-06S, OU2MW-07S, OU2MW-10S, I, and D, OU2MW-11S, I, I2 and D, OU2MW-12S, I, I2 and D, and OU2MW-13S, I, and D were first sampled in Q3 2007.

The tables below present the post-oxygen injection system concentrations and the pre-oxygen injection mean concentrations, and standard deviations for BTEX and PAHs.

Well No.	Total BTEX Concentrations (ug/L)												
	Post-Oxygen Injection Sampling Date											Pre-Oxygen Injection Mean	Pre-Oxygen Injection Standard Deviation
	2006 March	2006 June	2006 Jul/ Aug	2006 Nov/ Dec	2007 Mar/ Apr	2007 May-July	2007 July/ Sept	2007 Nov/ Dec	2008 Feb	2008 May/ June	2008 Aug		
GMP-02	151	11	12	0	0	0	0	0	3	4	0	997	708
GMP-04	242	83	242	280	652	24	295	264	15	0	0	320	430

Well No.	Total PAH Concentrations (ug/L)												
	Post-Oxygen Injection Sampling Date											Pre-Oxygen Injection Mean	Pre-Oxygen Injection Standard Deviation
	2006 March	2006 June	2006 Jul/ Aug	2006 Nov/ Dec	2007 Mar/ Apr	2007 May-July	2007 July/ Sept	2007 Nov/ Dec	2008 Feb	2008 May/ June	2008 Aug		
GMP-02	0	0	10	11	0	0	0	0	0	0	0	4,559	2,179
GMP-04	41	22	573	232	1,380	39	1,523	1,467	1	0	0	489	515

GMP-02 is located immediately downgradient of the Manatuck Lane oxygen injection line. Both BTEX and PAH concentrations have been reduced significantly since the implementation of oxygen injection at this location. The post-oxygen injection BTEX concentration has been below the mean pre-oxygen injection system concentration for each of the 11 post-oxygen injection sampling rounds. The post-oxygen injection PAH concentration at GMP-02 has been greater than two standard deviations below the pre-oxygen injection PAH mean concentration for each of the 11 post-oxygen injection sampling rounds and has not been present above detection limits for nine of these 11 rounds.

GMP-04 is located approximately 100 feet downgradient of the Manatuck Lane oxygen injection line. The post-oxygen injection BTEX concentration has been lower than the mean pre-oxygen injection BTEX concentration for 10 of the 11 post-oxygen injection sampling rounds at GMP-04 and was not present above detection limits in Q3 2008. The post-oxygen injection PAH concentration at GMP-04 has been lower than the mean pre-oxygen injection PAH concentration for seven of the 11 post-oxygen injection sampling rounds and was not present above detection limits in Q3 2008.

The pre-oxygen injection BTEX concentrations were 1,085 ug/L and 59 ug/L at OU2MW-06 and OU2MW-07, respectively (located downgradient and between GMP-02 and GMP-04. The Q3 2008 BTEX concentration was below detection limits in OU2MW-06 and 3 ug/L in OU2MW-07. BTEX has not been present above detection limits at seven of the 11 post-oxygen injection sampling rounds at OU2MW-06 and four of the 11 post-oxygen injection sampling rounds at OU2MW-07.

The pre-oxygen injection PAH concentrations were 9,241 ug/L and 66 ug/L in OU2MW-06 and OU2MW-07, respectively. PAHs have not been present above detection limits in eight of

the 11 post-oxygen injection sampling rounds at OU2MW-06 and nine of the 11 post-oxygen injection sampling rounds at OU2MW-07.

The above data indicate that there have been significant decreases of MGP-related contaminants in the majority of groundwater monitoring wells located downgradient of the Manatuck Lane oxygen injection line.

3.2.5 Future Plans

- Continue annual and quarterly groundwater monitoring at selected wells.

4. Operable Unit 3 – Brightwaters Yard & Groundwater Plume

4.1 Oxygen Injection Systems

4.1.1 Program Scope and Purpose

Two oxygen injection groundwater treatment systems have been installed at the Site to mitigate dissolved-phase groundwater impacts migrating from the OU-3 Brightwaters Yard to O-Co-Nee Pond. The first system was installed in Q3 2000, as part of an IRM at the intersection of Union Boulevard and Lanier Lane. This treatment system consists of one injection line intended to reduce the concentrations of MGP-related contaminants in groundwater prior to discharge to O-Co-Nee Pond. A second oxygen injection groundwater treatment system was installed in Q4 2004, as part of an IRM on the Brightwaters Yard. This treatment system consists of three injection lines intended to reduce the concentrations of MGP-related contaminants in groundwater leaving the Site boundary.

4.1.2 Current Site Activity

The following OU-3 oxygen injection system monitoring and system operation activities were performed in Q3 2008.

- **Monthly Groundwater Parameter Monitoring:** On a monthly basis, 10 groundwater monitoring wells downgradient of the oxygen injection systems (MW-65, MW-75, MW-82, PDMW-01, IO-10, MW-34S, MW034I, MW-34D, MW-46WR, and MW-70/70S) are monitored for DO, ORP, pH, conductivity, and temperature. Monthly Groundwater Parameter Monitoring was completed at these wells on the following dates:

    - July 30 and 31, 2008
    - August 1, 21, 22, 25, 26, and 27, 2008
    - September 22, 23, 24, and 25, 2008
    - October 1, 2008

- **System Operation Monitoring:** The groundwater treatment systems are monitored on a monthly basis to ensure effective continued operation. During each monitoring event, system parameters relating to system operational and equipment readiness are recorded and adjusted as necessary to optimize system performance. System Operation Monitoring was completed for the Brightwaters Yard System and the Union Boulevard System on the following dates:

- July 9, 25, 28, 2008
- October 3, 2008

- **Quarterly Groundwater Sampling:** Select monitoring wells upgradient and downgradient of the oxygen injection system located in OU-3 are sampled quarterly for VOCs and SVOCs. Groundwater quality parameters (DO, pH, temperature, conductivity and ORP) are also recorded for each well during the quarterly sampling. Details on the groundwater sampling program are provided in Subsection 4.2 below.

4.1.3 Oxygen Injection System OM&M Data

The OU-3 Oxygen Injection System OM&M data are provided on the following tables, figures and appendix.

- **Table 4-1 Summary Groundwater Parameter Data – Union Boulevard Oxygen Injection System** – provides the historical conductivity, DO, ORP, pH and temperature data for wells downgradient of the Union Boulevard oxygen injection system. The data provided on this table indicate that for Q3 2008:

  - DO concentrations remained elevated in downgradient monitoring wells IO-10, MW-46/WR, and MW-70/70S. DO concentrations ranged between 4 and 34 mg/L at these locations;
  - ORP remained elevated in downgradient monitoring wells IO-10, MW-46/WR, and MW-70/70S. ORP ranged between -69 and 170 mV at these locations;
  - pH ranged between 5.66 and 6.31 SU in downgradient monitoring wells;
  - Conductivity in downgradient monitoring wells remained consistent. Conductivity ranged between 0.207 and 0.754 mS/cm; and
  - Temperature ranged between 16.6 and 24.3 deg C, typical for Q3 conditions.

- **Table 4-2 Summary Groundwater Parameter Data – Brightwaters Yard Oxygen Injection System** – provides the historical conductivity, DO, ORP, pH and temperature data for wells downgradient of the Brightwaters Yard oxygen injection system. The data provided on this table indicate that for Q3 2008:

  - DO concentrations remained elevated in downgradient monitoring wells MW-65, MW-82, and MW-83. DO concentrations ranged between 15 and 35 mg/L at these locations. DO concentrations at PDMW-01 dropped to 0.4 mg/L in September due to the oxygen injection system going offline from a mechanical failure. The Brightwaters Yard oxygen injection system went offline on July 25, 2008 due to a motor fault. The motor was replaced and the system was brought back online on October 3, 2008.

- ORP remained elevated in downgradient monitoring wells MW-65, MW-83, and PDMW-01 despite the mechanical failure. ORP ranged between 4 and 188 mV at these locations;
- pH remained consistent, pH ranged between 5.16 and 6.20 SU in downgradient monitoring wells;
- Conductivity in downgradient monitoring wells remained consistent. Conductivity ranged between 0.108 and 0.999 mS/cm; and
- Temperature ranged between 15.0 and 24.7 deg C, typical for Q3 conditions.

- **Table 4-3 Summary of Heterotrophic Plate Count Results** – provides a summary of heterotrophic plate count (HPC) results for select wells located downgradient of the OU-3 oxygen injection systems. HPC results varied between 380 and 5,200 colony forming units per milliliter (cfu/ml).

- **Appendix C OU-3 Oxygen Injection System OM&M Data** – provides data collected during system operation monitoring. **Table C-1** provides the Union Boulevard oxygen injection system operational data and **Table C-2** provides the Brightwaters Yard oxygen injection system operational data.

  The results provided in **Table C-1** for the Union Boulevard system indicate:

  - Approximately 333 lbs of oxygen were injected during Q3 2008.
  - A total of 3,685 lbs of oxygen have been injected since the initial start-up period.
  - The system operated for 81 out of 92 days during Q3 2008. The system was shut down for 11 days in September while the enclosure was soundproofed to minimize noise exposure to the community.

  The results provided in **Table C-2** for the Brightwaters Yard system indicate:

  - Approximately 129 lbs of oxygen were injected during Q3 2008.
  - A total of 5,945 lbs of oxygen have been injected since the initial start-up period.
  - The system operated for 24 out of 92 days during Q3 2008. The system was taken out of operation on July 25, 2008 due to a motor fault. The motor was replaced and the system was brought online on October 3, 2008.

- **Figure 9 Union Boulevard Oxygen Injection System Groundwater Data** – provides graphical depiction of DO measurements, total BTEX and total PAH concentrations over time for monitoring wells located downgradient of the Union Boulevard oxygen injection system. Decreases in total BTEX and total PAH concentrations are evident historically in monitoring wells (MW-46WR, IO-10, and MW-34I) in the vicinity of the Union

Boulevard injection system. Further groundwater trend analysis is discussed in Subsection 4.2.4.1.

- **Figure 10 Brightwaters Yard Oxygen Injection System Groundwater Data** – provides graphical depiction of DO measurements, total BTEX and total PAH concentrations over time for monitoring wells located downgradient of the Brightwaters Yard oxygen injection system. Potential impacts on the Long Island Railroad (LIRR) property make it difficult to evaluate the effectiveness of the Brightwaters Yard oxygen injection system. However, decreases in total BTEX concentrations are apparent at monitoring wells (MW-75 and MW-82) since Q2 2005. Further groundwater trend analysis is discussed in Subsection 4.2.4.1.

4.1.4 Future Plans

- Continue monthly system checks, groundwater monitoring and quarterly COC sampling.
- Continue weekly system checks.
- Conduct labor intensive maintenance on the systems.

4.2 Groundwater Monitoring

4.2.1 Program Scope and Purpose

Groundwater monitoring is conducted within OU-3 to monitor the groundwater plume, to evaluate the effectiveness of remedial activities and the effectiveness of the oxygen injection systems, and to aid in remedy planning. There are currently 68 monitoring wells located in OU-3. The well locations and geographic boundaries of OU-3 are illustrated on **Figure 1**. The number of wells sampled each quarter is determined based on previous analytical data and discussions with NYSDEC.

4.2.2 Current Site Activity

The following groundwater monitoring activities took place in OU-3 during Q3 2008.

- Depth to groundwater measurements were obtained on August 4 and 5, 2008 from 53 monitoring wells located within and sidegradient of OU-3.
- The surface water elevation was obtained August 5, 2008 from a surface water gauge located within the headwaters of O-Co-Nee Pond (BBSW-13).
- Groundwater samples were collected from 49 monitoring wells located within OU-3 on August 7, 8, 12 through 15, 18, 19, 21, 22, and 29, 2008; and September 2, 4, and 5, 2008. Twenty-five (25) of the groundwater samples were analyzed for BTEX and MTBE

via EPA method 8260 and PAHs via EPA Method 8270, and 24 of the groundwater samples were analyzed for an expanded list of VOCs (EPA Method 8260) and PAHs (EPA Method 8270).

4.2.3 Groundwater Elevation Data

The depth to groundwater, groundwater elevation and surface water elevation data for OU-3 are provided on the following tables and figures.

- **Table 4-4 Water Level Measurements and Calculated Groundwater Elevations** – provides depth to water measurements and calculated groundwater and surface water elevation data for OU-3 wells measured in Q3 2008.
- **Table 4-5 Historic Calculated Groundwater Elevations** – provides historic groundwater elevations for OU-3 for existing groundwater wells.
- **Figure 4** – **Shallow Groundwater Contour Map** – provides the Q3 2008 shallow groundwater elevation contours for OU-1, OU-2, OU-3 and OU-4.
- **Figure 5** – **Deep Groundwater Contour Map -** provides the Q3 2008 deep groundwater elevation contours for OU-1, OU-2, OU-3 and OU-4.

The groundwater flow direction is toward the south/southeast. The shallow groundwater hydraulic gradient in OU-3 ranged from approximately 0.0031 feet/foot to 0.0036 feet/foot. The deep groundwater hydraulic gradient ranged from approximately 0.003 to 0.0036 feet/foot. The groundwater elevation in OU-3 monitoring wells during the Q3 2008 event were an average of 1.14 feet lower than the Q2 2008 groundwater elevations and an average of 0.53 feet lower than the Q3 2007 groundwater elevations.

4.2.4 Groundwater Analytical Data

The OU-3 groundwater analytical data are presented in the following tables.

- **Table 4-6 Summary of Historic Total BTEX Groundwater Analytical Results -** presents a summary of historical total BTEX results for existing OU-3 groundwater monitoring wells.
- **Table 4-7 Summary of Historic Total PAH Groundwater Analytical Results** – presents a summary of historical total PAH results for existing OU-3 groundwater monitoring wells.
- **Table 4-8 Summary of BTEX, MTBE and PAH Groundwater Analytical Results** – provides the Q3 2008 groundwater analytical results for monitoring wells located in OU-3 for each compound detected during the Q3 2008 sampling event.

- **Table 4-9 Summary of Expanded Groundwater Analytical Results** – provides the Q3 2008 groundwater analytical results for monitoring wells located in OU-3 for each compound detected during the Q3 2008 sampling event.

4.2.4.1 Groundwater Analytical Data Trend Analysis

The groundwater analytical data were reviewed to identify any trends in data between samples collected during similar seasonal periods in previous years and any long term trends. In addition, analysis of the data has been separated into three areas: (1) the Brightwaters East Parcel (Former Underground Storage Tank [UST] Area) including on-site areas upgradient and downgradient of the Former UST Area; (2) areas downgradient of the Brightwaters Yard oxygen injection system including on-site wells and the area between the Site and Union Boulevard; and (3) the area downgradient of the Union Boulevard oxygen injection system between Union Boulevard and O-Co-Nee Pond.

A comparison of the previous Q3 data to the Q3 2008 data is presented below for each of the three areas. Where sufficient data were available, the standard deviation was calculated for historical Q3 concentrations (exclusive of the Q3 2008 data). The Q3 2008 data was then compared to two standard deviations from the mean. The range of data depicted within two standard deviations from the mean should include 75% of all concentrations recorded for the individual well (Chebyshev's inequality or Chebyshev's theorem). Concentrations that fall outside of this range would represent a significant variation in total BTEX or PAH concentrations.

Brightwaters East Parcel (Former UST Area)

The results of the statistical analysis for total BTEX and total PAHs for all groundwater samples collected from monitoring wells located on the Brightwaters East Parcel (Former UST Area) are provided below. The following tables present a summary of the Q3 2008 total BTEX and total PAH concentrations, the historical Q3 standard deviation (exclusive of Q3 2008 data), historical Q3 mean (exclusive of Q3 2008 data) and the resultant statistical range (the mean concentration plus or minus 2 standard deviations).

Well No.	Screen Interval (ft-bgs)	Q3 2008	Historical Q3 Mean	Historical Q3 Standard Deviation	Statistical Q3 Range	
					Minimum	Maximum
		Total BTEX Concentration (ug/L)				
BBMW-09S	5.0 - 15.0	0	1	1	-2	3
MW-01S	4.0 -14.0	0	0	0	0	0
MW-03	4.94 - 14.94	9	37	32	-27	100
MW-04	5.1 - 15.1	0	5	11	-18	28
		Total PAH Concentration (ug/L)				
BBMW-09S	5.0 - 15.0	0	17	40	-64	97
MW-01S	4.0 -14.0	0	0	0	0	0
MW-03	4.94 - 14.94	0	51	20	11	91
MW-04	5.1 - 15.1	0	38	60	-81	158

In Q3 2008, BTEX was detected at only one location in the Brightwaters East Parcel (Former UST Area) at monitoring well MW-03. The total BTEX concentration detected at MW-03 was lower than the historical Q3 mean concentrations, and was within two standard deviations of the historical Q3 mean concentrations.

PAHs were not present above detection limits at any of the monitoring wells sampled during Q3 2008 in the Brightwaters East Parcel (Former UST Area) with the exception of BW-UST-29 (3 ug/L).

All of the Q3 2008 total BTEX and total PAH concentrations, with the exception of the PAH concentration in BW-UST-29 of 3 ug/L, are within two standard deviations from their historical mean concentration when the same analysis is performed on the entire data set, independent of the quarter the data was collected (**Tables 4-6 and 4-7**). PAHs were not present above detection limits at BW-UST-29 prior to the Q3 2008 sampling event.

Downgradient of the Brightwaters Yard Oxygen Injection System

The oxygen injection system on the Brightwaters Yard site consists of three injection lines installed parallel to the LIRR property. As discussed in Subsection 4.1.3, the oxygen injection system has begun to affect groundwater concentrations downgradient of the injection lines. However, the impacted material observed beneath the LIRR property may be contributing to groundwater impacts downgradient of the treatment system making evaluation of the system effectiveness difficult. The groundwater analytical trends, as they relate to observed groundwater quality parameters and system effectiveness, are discussed in Subsection 4.1.3. A statistical analysis of overall groundwater quality trends downgradient of the treatment system is provided below.

The effectiveness of the Brightwaters Yard oxygen injection system was evaluated by calculating the total BTEX and total PAH pre-oxygen injection mean concentrations and standard deviations using all available data prior to January 2005. The total BTEX and total PAH post-oxygen injection system data were then compared to the mean pre-oxygen injection system concentrations for wells located downgradient of the Brightwaters Yard system and upgradient of the Union Boulevard system.

The 2006, 2007 and 2008 post-oxygen injection system total BTEX concentrations and the calculated mean pre-oxygen injection system total BTEX concentrations and standard deviations are presented in the table below for wells located downgradient of the Brightwaters Yard oxygen injection system and upgradient of the Union Boulevard oxygen injection system.

Well No.	Total BTEX Concentrations (ug/L)												
	Post-Oxygen Injection Sampling Date											Pre-Oxygen Injection	
	2006	2006	2006	2006	2007	2007	2007	2007	2008	2008	2008		
	March	June	Jul/ Aug	Nov/ Dec	Mar/ Apr	May- July	July/ Sept	Nov/ Dec	Feb	May/ June	Aug/ Sept	Mean	Standard Deviation
MW-02I/I-R	0	--	--	--	0	0	0	0	0	0	3	20,556	68,771
MW-02S/S-R	945	51	0	68	346	625	1,695	248	27	1	16	129,590	61,095
MW-16I	0	--	--	--	0	103	0	59	84	17	0	12	18
MW-16SR	42,100	15,000	17,900	18,600	12,250	6,050	15,870	20,770	36,270	11,710	5,840	34,865	31,027
MW-45W	14,600	2,214	1,720	5,770	3,200	43,400	1,236	0	3,600	5,690	242	7,058	13,367
MW-46W/W-R	17,110	7,270	2,750	2,330	1,256	3,810	915	0	8,130	1,664	3,471	25,777	11,707
MW-64	19	0	0	0	0	0	0	0	0	0	0	3,867	17,351
MW-65	0	0	0	0	0	0	0	0	4	0	0	190	839
MW-73	8,460	14,520	36,200	15,070	18,700	22,500	15,300	14,000	12,800	5,970	9,800	33,838	27,348
MW-75	5,389	1,540	3,600	491	580	355	9,420	2,254	268	1,802	76,790	33,748	51,636
MW-76	27	0	0	0	0	0	4	7	2	0	1	735	1,494
MW-78	5,900	4,710	18,100	4,080	2,320	3,050	2,480	2,270	54	167	461	13,982	11,831
MW-79	3,740	3,320	1,220	7,690	13,900	2,840	2,030	542	3,160	32	3,110	58,278	41,064
MW-80	44,000	38,700	6,170	41,100	148,000	26,100	41,000	106,000	3,220	18,700	52,300	57,915	45,992
MW-81	5,000	9,510	3,499	16,900	65,800	16,100	36,300	61,800	8,690	1,080	18,840	25,657	20,766
MW-82	44,200	30,000	43,400	21,800	7,144	14,460	4,338	17,989	1,164	2,254	6,942	37,813	67,309
MW-83	101	0	5,042	161	41	2,320	6,761	39	36	0	687	389	557
PDMW-01	0	0	0	0	0	0	0	70,920	0	0	0	8,127	11,618
PDMW-02	19,500	85,100	67,500	98,000	62,700	79,700	68,020	84,400	70,570	65,260	51,400	83,073	19,831
SV-02	1,600	32	27,400	42	0	0	26,000	0	0	0	0	13,940	32,522
SV-03	570	257	831	116	65	207	185	341	105	477	60	8,383	10,475

Shaded indicates BTEX value outside of calculated statistical range.

The total BTEX concentrations for each of the 2006, 2007 and 2008 post-oxygen injection system quarterly sampling events were below the mean pre-oxygen injection system total BTEX concentrations in wells MW-2I/IR, MW02S/SR, MW-46W/WR, MW-64, MW-65, MW-76, MW-79 and SV-03. The Q3 2008 total BTEX concentrations were below the mean pre-oxygen injection concentrations in all wells except MW-75 and MW-83.

The 2006, 2007 and 2008 post-oxygen injection system total PAH concentrations and the calculated mean pre-oxygen injection system total PAH concentrations and standard deviations are presented in the table below for wells located downgradient of the Brightwaters Yard oxygen injection system and upgradient of the Union Boulevard oxygen injection system.

Well No.	Total PAH Concentrations (ug/L)												
	Post-Oxygen Injection Sampling Date											Pre-Oxygen Injection Mean	Pre-Oxygen Injection Standard Deviation
	2006 March	2006 June	2006 Jul/ Aug	2006 Nov/ Dec	2007 Mar/ Apr	2007 May- July	2007 July- Sept	2007 Nov/ Dec	2008 Feb	2008 May/ June	2008 Aug/ Sept		
MW-02I/I-R	0	--	--	--	0	0	0	0	0	0	0	555	1,865
MW-02S/S-R	0	0	0	0	0	0	0	0	0	0	0	4,258	5,705
MW-16I	0	--	--	--	0	44	0	0	0	0	0	2	5
MW-16SR	2,183	1,870	1,056	676	842	232	280	579	922	355	552	4,032	7,820
MW-45W	895	74	40	233	--	0	10	9	0	0	0	221	425
MW-46W/W-R	544	50	233	192	37	71	47	74	102	24	0	823	1,175
MW-64	0	0	0	0	0	0	0	0	0	0	0	77	319
MW-65	0	0	0	0	0	0	0	0	0	0	0	50	118
MW-73	575	669	1,100	545	497	345	495	1,189	444	105	1	967	517
MW-75	100	56	55	0	0	0	180	47	0	0	1,024	681	1,021
MW-76	14	0	0	0	0	0	0	0	0	0	0	70	56
MW-78	445	493	616	0	0	46	40	31	0	0	1	511	409
MW-79	281	103	41	0	140	0	0	0	90	1	6	1,477	1,693
MW-80	1,200	694	258	1,480	831	601	884	1,173	277	509	790	1,260	773
MW-81	487	274	2,700	807	1,068	448	1,130	1,508	480	0	50	1,136	791
MW-82	1,140	837	1,137	150	234	286	127	306	0	1	0	826	1,039
MW-83	0	0	230	0	0	0	0	2	0	0	1	76	67
PDMW-01	0	0	0	0	0	0	0	1,464	0	0	2	1,787	3,809
PDMW-02	2,013	2,420	2,119	3,022	2,716	2,520	1,241	1,976	3,025	2,226	1,934	2,453	1,241
SV-02	0	0	35	0	0	0	133	0	0	3	0	137	169
SV-03	96	57	0	0	17	0	31	72	17	0	0	250	163

The total PAH concentrations for each of the four 2006, 2007 and 2008 post-oxygen injection system quarterly sampling events were below the mean pre-oxygen injection system total PAH concentrations in wells MW-2I/IR, MW02S/SR, MW-16SR, MW-46W/WR, MW-64, MW-65, MW-76, MW-79, PDMW-01, SV-02 and SV-03. The Q3 2008 total PAH concentrations were below the mean pre-oxygen injection PAH concentrations in all of the wells located downgradient of the Brightwaters Yard oxygen injection system and upgradient of the Union Boulevard oxygen injection system with the exception of MW-75.

As presented in Subsection 4.1.3 above, decreases of MGP-related contaminants have been observed in monitoring wells located downgradient of the Brightwaters Yard oxygen injection system at wells where effects of the oxygen injection system have been noted. Plots of groundwater parameters and total BTEX and total PAH concentrations over time are presented in **Figure 10** for wells located downgradient of the Brightwaters Yard injection systems.

Downgradient of Union Boulevard Oxygen Injection System

The oxygen injection system located along Union Boulevard consists of one injection line installed on the downgradient side of Union Boulevard (**Figure 1**). The oxygen injection system has affected groundwater concentrations downgradient of the injection lines, but past system component failures have reduced the overall system efficiency. New OM&M procedures have increased system efficiency over the last six quarters (since Q1 2007). The groundwater analytical trends, as they relate to observed groundwater quality parameters and system effectiveness, are discussed in Subsection 4.1.3 and presented on **Figure 9**. A statistical analysis of overall groundwater quality trends downgradient of the Union Boulevard oxygen injection system is provided below.

Where sufficient data were available, the standard deviation was calculated for historical Q3 groundwater sample concentrations (exclusive of the Q3 2008 data). The Q3 2008 data were then compared to two standard deviations from the mean for both the previous Q3 events and the entire OU-3 data set of the area from Union Boulevard to O-Co-Nee Pond.

The following tables present a summary of the Q3 2008 total BTEX and total PAH concentrations, the historical Q3 standard deviation (exclusive of Q3 2008 data), historical Q3 mean (exclusive of Q3 2008 data) and the resultant statistical range (the mean concentration plus or minus 2 standard deviations).

Well No.	Screen Interval (ft-bgs)	Q3 2008	Historical Q3 Mean	Historical Q3 Standard Deviation	Statistical Q3 Range	
					Minimum	Maximum
		Total BTEX Concentration (ug/L)				
BBMW-29	2.0 - 9.0	0	0	0	0	0
IO-10	6.0 - 16.0	0	928	1,800	-2,673	4,528
MW-11W	2.0 - 10.0	35	1,082	2,402	-3,721	5,886
MW-30W/W-R	2.0 - 10.0	1	57	58	-58	172
MW-32W/W-R	2.0 - 10.0	0	17,962	31,951	-45,220	81,145
MW-34D	27.5 - 28.5	0	3,251	7,239	-11,227	17,729
MW-34I	18.5 - 19.5	0	6,401	12,799	-19,197	32,000
MW-34S	2.0 - 10.0	5,638	14,790	14,646	-14,502	44,082
MW-70/70S	2.0 - 12.0	10,910	17,414	24,102	-30,790	65,617
MWBS-02D	24.5 - 25.5	0	16	31	-47	78
MWBS-02I	14.5 - 15.5	17	4	8	-11	19
MWBS-02S	5.0 - 15.0	0	6	314	-621	633

The Q3 2008 BTEX concentrations were below the historic Q3 mean BTEX concentrations for all wells located downgradient of the Union Boulevard oxygen injection system with the exception of MWBS-02I. The Q3 2008 BTEX concentration was within two standard deviations of the historical Q3 mean concentration at MWBS-02I indicating no significant increase in BTEX concentrations.

Well No.	Screen Interval (ft-bgs)	Q3 2008	Historical Q3 Mean	Historical Q3 Standard Deviation	Statistical Q3 Range	
					Minimum	Maximum
		Total PAH Concentration (ug/L)				
BBMW-29	2.0 - 9.0	5	0	0	0	0
IO-10	6.0 - 16.0	0	88	175	-263	438
MW-11W	2.0 - 10.0	0	92	176	-260	444
MW-30W/W-R	2.0 - 10.0	0	2	4	-5	10
MW-32W/W-R	2.0 - 10.0	12	129	144	-158	416
MW-34D	27.5 - 28.5	0	22	42	-62	105
MW-34I	18.5 - 19.5	0	26	51	-77	129
MW-34S	2.0 - 10.0	51	295	451	-606	1,196
MW-70/70S	2.0 - 12.0	96	297	597	-897	1,492
MWBS-02D	24.5 - 25.5	0	0	0	-1	1
MWBS-02I	14.5 - 15.5	0	18	40	-62	98
MWBS-02S	5.0 - 15.0	0	27	39	-52	106
Shaded value indicates value outside of calculated statistical range						

The Q3 2008 PAH concentrations were below the historic Q3 mean PAH concentrations for all wells located downgradient of the Union Boulevard oxygen injection system with the exception of BBMW-29, for which it was present near detection levels. PAHs were not present above detection limits at BBMW-29 prior to the Q3 2008 sampling event.

When the same analysis was performed on the entire data set, independent of the quarter the data was collected, the Q3 2008 total BTEX and total PAH concentrations fell within two standard deviations of the historical mean concentration for all of the wells located downgradient of the Union Boulevard oxygen injection system (**Tables 4-6 and 4-7**).

The above analysis indicates that reductions in BTEX and PAH concentrations have been observed in wells affected by the oxygen injection systems. The BTEX and PAH concentrations have remained consistent in the majority of the remaining wells. The variations in BTEX and PAH concentrations may be attributed to the remaining source material located downgradient of the Brightwaters Yard oxygen injection system on the Brightwaters Yard property and within the LIRR right-of-way.

The concentrations of PAHs at MWBS-02I and MWBS-02D, in the vicinity of O-Co-Nee Pond have been below detection limits for six consecutive quarters. PAHs were detected in Q1 2007 at a concentration of 10 ug/L in MWBS-02I and 22 ug/L in MWBS-02D. PAHs have been below detection limits at MWBS-02S for 12 out of the last 13 quarters. PAHs were detected in MWBS-02S at a concentration of 7 ug/L in Q2 2008.

BTEX has been below detection limits at MWBS-02I for 16 consecutive quarters prior to Q3 2008. BTEX was detected in MWBS-02I at a concentration of 17 ug/L in Q3 2008. BTEX has been non-detect at MWBS-02S for 12 of the last 13 consecutive quarters. BTEX was detected in MWBS-02S at a concentration of 8 ug/L in Q4 2007. BTEX was not present above detection

limits in MWBS-02D in Q3 2008 and for four consecutive quarters prior to Q1 2008. Total BTEX at a concentration of 17 ug/L was detected in MWBS-02D in Q1 2008. These wells will continue to be monitored on a quarterly basis.

4.2.5 Future Plans

- Continue annual and quarterly groundwater monitoring at selected wells.
- Continue monthly performance monitoring at selected wells located downgradient of the Brightwaters Yard in proximity to the oxygen injection systems.
- Excavate source material under LIRR tracks.

4.3 Institutional Controls/Engineering Controls (IC/EC)

- There has been no activity this quarter.

5. Soil Vapor and Ambient Air Sampling

5.1 Program Scope and Purpose

National Grid has conducted quarterly and monthly soil vapor and ambient air sampling events to evaluate the potential contribution of COCs from the OU-2 dissolved phase groundwater plume to soil vapor. All sampling events were completed between May 2005 and September 2008. The first five sampling events (Q2 2005 through Q3 2006) were conducted using temporary soil vapor drive points in accordance with the NYSDEC-approved *Soil Gas Sampling Work Plan for the OU-2 Treatment Area*, dated May 15, 2005. Based on the soil vapor and equipment blank analytical results presented in the Q3 2006 OM&M report, all future sampling events were conducted using permanent soil vapor points in accordance with the NYSDEC-approved *Permanent Soil Vapor Point Installation Final Work Plan, Operable Unit No. 2 (OU-2) and Operable Unit No. 3 (OU-3), Bay Shore/Brightwaters Former Manufactured Gas Plant Site,* dated January 31, 2007 (GEI, 2007b).

5.2 Current Site Activity

The following soil vapor and ambient air sampling activities were conducted as part of the Q3 2008 OM&M.

- Forty-two samples were collected from 27 soil vapor locations and four ambient air locations were sampled in Q3 2008. Sampling events were conducted on:
    - August 13, 2008 (Seven soil vapor samples)
    - September 16-19, 2008 (One ambient air sample, 12 soil vapor samples)
    - September 22-24, 2008 (Three ambient air samples, 22 soil vapor samples)
    - September 30, 2008 (One soil vapor sample)

- The soil vapor and ambient air sample locations represent 11 distinct areas, as described below.

Soil Vapor/Ambient Air Sample Areas	Soil Vapor/Ambient Sample IDs
Upgradient of Operable Unit No. 1	OU1SG06, OU1SG07, OU1SG08
Upgradient of OU-1 Oxygen Injection System	OZSG04, OZSG05
Downgradient of OU-1 Oxygen Injection System	OZSG01, OZSG02, OZSG03[1]
Upgradient of Montauk Highway along Union Boulevard, North Clinton Avenue, Cooper Lane, and South Union Street	OU2SG12, OU2SG14, OU2SG15, OU2SG16, OU2SG17, OU2SG18, OU2SG22, OU2SG23, Ambient Air OU2AA04
Upgradient of the Montauk Highway Oxygen Injection Line	OU2SG24, OU2SG25, OU2SG26, OU2SG29, OU2SG30, OU2SG06
Directly Downgradient of the Montauk Highway Oxygen Injection Line	OU2SG05, OU2SG10, OU2SG01, OU2SG02 Ambient Air OU2AA01 and OU2AA02
Downgradient of the Montauk Highway Oxygen Injection Line and Upgradient of the Manatuck Lane Oxygen Injection Line	OU2SG03, OU2SG04, OU2SG07 Ambient Air OU2AA03
Downgradient of the Manatuck Lane Oxygen Injection Line	OU2SG08, OU2SG09 Ambient Air OU2AA03
Sidegradient of the Manatuck Lane Oxygen Injection Line along Garner Lane	OU2SG13[2]
Downgradient of the Brightwaters Yard Oxygen Injection System and Upgradient of the Union Boulevard Oxygen Injection System	OU3SG01
Background Location on Lawrence Lane, West of Lawrence Lake and Outside the Influence of the OU-2 and OU-3 groundwater plumes	OU2SG11

Notes:

1. OZSG03 was destroyed during the installation of the barrier wall on OU-1 and was replaced at the completion of construction activities.
2. OU2-SG13 was damaged during Q2 2007 and was replaced prior to the Q3 2007 sampling event.

5.3 Soil Vapor and Ambient Air Sampling Data

The Q3 2008 soil vapor and ambient air data are provided on the following tables and appendix.

- **Table 5-1 Summary of Soil Vapor Results for OU-1, OU-2 and OU-3** – presents the historical soil vapor data from the 27 permanent soil vapor points and the soil vapor data from the 42 samples collected during Q3 2008.
- **Table 5-2 Ambient Air Analytical Data** – presents the historic and Q3 2008 ambient air data.
- **Appendix D Soil Vapor Analytical Results** – contains historic graphs of the soil vapor concentrations of analytes detected at any soil vapor point, as well as BTEX and naphthalene historic plots. The periods when the oxygen injection system was not in operation are highlighted on each graph.

Soil vapor concentrations have varied widely between 2005 and 2008 at all locations monitored. The variations in concentrations have occurred both before the oxygen injection system was installed and after the system was in operation. These fluctuations occurred in the areas downgradient of the oxygen injection lines, upgradient of the injection lines, and west of Lawrence Lake outside of the influence of the groundwater plume. During Q3 2008, the concentrations detected at each soil vapor point were generally consistent with previous sampling events with two exceptions. In Q2 2008, the concentrations of n-Octane were elevated in several samples including those upgradient of the former MGP site. The Q3 2008 concentrations of n-Octane were still slightly elevated when compared to historic concentrations in four soil vapor points. In addition, the concentration of toluene in Q3 was elevated in one soil vapor point (OU2SG-22) when compared to the Q1 and Q2 2008 concentrations. This is the first time that this soil vapor point has been sampled during a Q3 event.

Low concentrations of VOCs were detected in ambient air before and after start-up of the oxygen injection system. Ambient air concentrations have not varied significantly from quarter to quarter. Frequent detections (compounds detected in more than 30% of samples collected) have been limited to low concentrations of 26 VOCs: benzene, ethylbenzene, toluene, xylenes, acetaldehyde, acetone, acrolein, butane, 2-butanone, carbon tetrachloride, chloromethane, n-decane, dichlorodifluoromethane, n-dodecane, ethanol, n-heptane, n-hexane, nonane, n-octane, pentane, 2-propanol, 1,1,2-trichloro-1,2,2-trifluoroethane, trichlorofluoromethane, 1,2,3-trimethylbenzene, 2,2,4-trimethylpentane (TMP), and n-undecane. Benzene was detected in all four ambient air samples in Q3 2008 at concentrations ranging between 0.26 micrograms per cubic meter (ug/m^3) at OU2AA03 (located mid plume), and 0.57 ug/m^3 at OU2AA01 (located adjacent to the Montauk Highway injection line). All detections were below the NYSDOH 95^{th} percentile of typical background values for outdoor air in the four ambient air samples (OU2AA01, OU2AA02, OU2AA03, and OU2AA04).

5.3.1 Soil Vapor Fate and Transport

The fate and transport of soil vapor in the subsurface is dependent on various chemical and environmental conditions that directly affect the concentrations detected (United States Environmental Protection Agency, 1997). These include the vapor pressure and the Henry's law constant of the individual COCs present, the temperature and barometric pressure at the surface, and the moisture content and porosity of the vadose zone soils. A description of each of these chemical and environmental conditions and their effects on soil vapor fate and transport have been presented in previous OM&M reports and are summarized below.

- The higher the vapor pressure of a COC, the more readily it evaporates into the vapor phase.
- COCs with a greater tendency to exist in the vapor phase have a Henry's law constant greater than 1, and compounds with a greater tendency to exist in the dissolved phase have a Henry's law constant less than 1.
- Generally, the higher the pressure, the more COCs would tend to remain in the dissolved phase and the lower the pressure, the more COCs would tend to release to the vapor phase.
- The soil moisture decreases permeability because moisture trapped in the pore space of the soil matrix inhibits or blocks vapor flow.

In addition, several other soil factors can influence the distribution of COCs in the soil vapor. Preferential pathways such as sub-surface utilities, tree roots, and backfilled areas can allow vapor migration away from a source area. Conversely, impervious zones or layers such as clay/peat/organic soil layers, foundations, buried structures, or perched groundwater can trap or inhibit the flow of soil vapors.

During the 2007 hydrologic study completed in OU-2, the sharp increases in groundwater elevations noted during the two rainfall events provide an approximate guideline for the effects of other rainfall events. Based on the timeframe and the magnitude of the rainfall events observed, significant precipitation events within the one-week preceding a soil vapor-sampling event were identified below. As discussed above, these are events that could significantly affect the concentrations of COCs detected in soil vapor at the site.

Sample Date	Recent Precipitation Date	Magnitude of Precipitation (in/day)	Description of Significant Precipitation Events
5/5/05	4/30/05	1.12	April 2005 was a wetter than average month 4.87 in. recorded (normal 4.13 in.)
8/30/05	--	--	A four-month drought occurred in the summer of 2005
6/14/06	6/7/06	1.27	June 2006 was a wetter than average month 5.34 in. recorded (normal 3.71 in.)
9/7/06	8/25/06 8/27/06	1.58 2.19	August 2006 was a wetter than average month 5.58 in. recorded (normal 4.48 in.)
2/22/07	2/14/07	1.05	Winter Snow Storm
5/24/07	--	--	April 2007 was a wetter than average month 6.72 in. recorded (normal 4.13 in.)
7/25/07	7/18/07 7/22/07	3.34 0.92	Both events occurred during Week 2 of the Hydrologic Study
12/18-19/07	12/13/07 12/16/07	0.82 0.85	December 2007 was a wetter than average month 4.64 in. recorded (normal 4.13 in.)
2/6-7/08	2/6/08 2/7/08	0.07 0.14	February 2008 was a wetter than average month 6.21 in. recorded (normal 3.33 in.)
2/19/08	2/18/08	0.48	
3/17/08	3/15/08	0.25	March 2008 was a wetter than average month 5.89 in. recorded (normal 4.76 in.)
3/21/08	3/19/08 3/20/08	0.91 0.30	
3/26-27/08	--	--	
6/13/08	--	--	June 2008 was a dryer than average month 3.17 in. recorded (normal 3.71 in.)
6/18-20/08	8/16/08 8/18/08 8/20/08	0.16 0.15 0.12	
6/23-25/08	8/21/08 8/23/08	0.27 0.05	
8/13/08	8/11/08	0.42	August 2008 was a dryer than average month 3.2 in. recorded (normal 4.48 in.)
9/16-19/08	9/9/08 9/12/08	0.50 0.59	September 2008 was a wetter than average month 7.46 in. recorded (normal 3.39 in.)
9/22-24/08	--	--	
9/30/08	9/26/08 9/27/08 9/28/08 9/29/08	2.39 0.50 0.20 0.11	

5.4 Future Plans

- Continue quarterly soil vapor and ambient air sampling.

6. Operable Unit 4 – Watchogue Creek/Crum's Brook

6.1 Groundwater Monitoring

Program Scope and Purpose: Groundwater monitoring is conducted within OU-4 to aid in monitoring groundwater contamination, to evaluate the effectiveness of remedial activities and to aid in remedy planning. There were 43 monitoring wells located in OU-4 during the Q3 2008 sampling event. The well locations and geographic boundaries of OU-4 are illustrated on **Figure 1**. The number of wells sampled each quarter is determined based on previous analytical data and discussions with NYSDEC.

6.1.1 Current Site Activity

The following groundwater monitoring activities took place in OU-4 during Q3 2008.

- Depth to groundwater measurements were obtained on August 5, 2008 from 37 monitoring wells located within OU-4.
- The surface water elevation was obtained on August 6, 2008 from a surface water gauge located in Watchogue Creek/Crum's Brook at Union Boulevard.
- Groundwater samples were collected from 37 monitoring wells located within OU-4 on September 15, 16, 17, 19, 22 through 25 and 29, 2008. The groundwater samples were analyzed for an expanded list of VOCs (EPA Method 8260) and PAHs (EPA Method 8270).

6.1.2 Groundwater Elevation Data

The depth to groundwater, groundwater elevation and surface water elevation data for OU-4 are provided on the following tables and figures.

- **Table 6-1 Water Level Measurements and Calculated Groundwater Elevations** – provides depth to water measurements and calculated groundwater and surface water elevation data for OU-4 wells measured in Q3 2008.
- **Table 6-2 Historic Calculated Groundwater Elevations** – provides historic groundwater elevations for OU-4 for existing groundwater wells.
- **Figure 4** – **Shallow Groundwater Contour Map** – provides the Q3 2008 shallow groundwater elevation contours for OU-1, OU-2, OU-3 and OU-4.
- **Figure 5** – **Deep Groundwater Contour Map** – provides the Q3 2008 deep groundwater elevation contours for OU-1, OU-2, OU-3 and OU-4.

The groundwater flow direction is towards the southeast. The shallow groundwater hydraulic gradient at OU-4 is approximately 0.003 feet/foot. The deep groundwater hydraulic gradient is approximately 0.0021 feet/foot. The groundwater elevations in OU-4 monitoring wells during the Q3 2008 event were an average of 1.04 feet lower than the Q2 2008 groundwater elevations and an average of 0.33 feet lower than the Q3 2007.

6.1.3 Groundwater Analytical Data

The OU-4 groundwater analytical data are presented on the following tables.

- **Table 6-3 Summary of Historic Total BTEX Groundwater Analytical Results** – presents a summary of historical total BTEX results for existing OU-4 groundwater monitoring wells.
- **Table 6-4 Summary of Historic Total PAH Groundwater Analytical Results** – presents a summary of historical total PAH results for existing OU-4 groundwater monitoring wells.
- **Table 6-5 Summary of Expanded Groundwater Analytical Results** – provides the Q3 2008 groundwater analytical results for monitoring wells located in OU-4 for each compound detected during the Q3 2008 sampling event.

6.1.4 Groundwater Analytical Data Trend Analysis

The groundwater analytical data were reviewed to identify any trends in data between samples collected during similar seasonal periods in previous years and any long term trends. Where sufficient data were available, the standard deviation was calculated for historical groundwater sample concentrations (exclusive of the Q3 2008 data). The Q3 2008 data was then compared to two standard deviations from the mean for both the previous Q3 events and the entire OU-4 data set.

The following tables present a summary of the Q3 2008 total BTEX and total PAH concentrations, the historical Q3 standard deviations (exclusive of Q3 2008 data), historical Q3 mean concentrations (exclusive of Q3 2008 data) and the resultant statistical range (the mean concentration plus or minus 2 standard deviations).

Well No.	Screen Interval (ft-bgs)	Q3 2008	Historical Q3 Mean	Historical Q3 Standard Deviation	Statistical Q3 Range	
					Minimum	Maximum
		Total BTEX Concentration (ug/L)				
WCMW-01D	64.0 - 72.0	0	0	0	0	0
WCMW-01I	35.0 - 45.0	0	0	0	0	0
WCMW-01S	2.0 - 12.0	12	11	8	-5	28
WCMW-02D	62.0 - 72.0	0	0	0	0	0
WCMW-02I	34.5 - 44.5	0	0	0	0	0
WCMW-02S	3.0 - 13.0	2	1	2	-3	5
WCMW-03I	19.4 - 24.4	0	0	0	0	0
WCMW-03I2	28.55 - 33.55	0	0	0	0	0
WCMW-03S	4.83 - 9.83	25	17	12	-7	41
WCMW-04I	19.0 - 24.0	0	0	0	0	0
WCMW-04I2	29.85 - 34.85	0	0	0	0	0
WCMW-04S	1.5 - 11.5	24	20	12	-4	44
WCMW-05I	19.61 - 24.61	0	0	0	0	0
WCMW-05I2	29.46 - 34.46	0	0	0	0	0
WCMW-05S	1.4 - 11.4	0	0	0	0	0
WCMW-06I	19.55 - 24.55	0	0	0	0	0
WCMW-06I2	69.83 - 34.83	0	0	0	0	0
WCMW-06S	2.0 - 12.0	0	0	0	0	0
WCMW-08I	19.2 - 24.2	0	0	0	0	0
WCMW-08I2	26.9 - 31.9	0	0	0	0	0
WCMW-08S	4.2 - 9.2	0	0	0	0	0
WCMW-10D	40.0 - 50.0	0	1	1	-1	2
WCMW-10S	15.0 - 20.0	0	0	0	0	0

Well No.	Screen Interval (ft-bgs)	Q3 2008	Historical Q3 Mean	Historical Q3 Standard Deviation	Statistical Q3 Range	
					Minimum	Maximum
		Total PAH Concentration (ug/L)				
WCMW-01D	64.0 - 72.0	0	0	0	0	0
WCMW-01I	35.0 - 45.0	2	0	0	0	0
WCMW-01S	2.0 - 12.0	353	237	87	64	410
WCMW-02D	62.0 - 72.0	1	0	0	0	0
WCMW-02I	34.5 - 44.5	1	0	0	0	0
WCMW-02S	3.0 - 13.0	51	53	21	12	94
WCMW-03I	19.4 - 24.4	290	885	579	-274	2,043
WCMW-03I2	28.55 - 33.55	25	181	172	-162	525
WCMW-03S	4.83 - 9.83	102	477	196	85	868
WCMW-04I	19.0 - 24.0	96	110	28	55	166
WCMW-04I2	29.85 - 34.85	0	6	10	-14	25
WCMW-04S	1.5 - 11.5	337	230	35	161	300
WCMW-05I	19.61 - 24.61	121	234	17	201	267
WCMW-05I2	29.46 - 34.46	39	2	4	-6	10
WCMW-05S	1.4 - 11.4	4	11	2	-2	4
WCMW-06I	19.55 - 24.55	0	17	30	-43	11
WCMW-06I2	69.83 - 34.83	0	0	0	0	0
WCMW-06S	2.0 - 12.0	0	0	1	-1	0
WCMW-08I	19.2 - 24.2	0	0	0	0	0
WCMW-08I2	26.9 - 31.9	0	0	0	0	0
WCMW-08S	4.2 - 9.2	0	0	0	0	0
WCMW-10D	40.0 - 50.0	0	0	0	0	0
WCMW-10S	15.0 - 20.0	0	11	15	-19	40
Shaded value indicates value outside of calculated statistical range						

All of the Q3 2008 total BTEX concentrations in OU-4 were within two standard deviations of the Q3 historical mean concentrations indicating no significant variation in concentrations.

The Q3 2008 total BTEX concentrations also fell within two standard deviations from their historical mean concentrations when the same analysis was performed on the entire OU-4 data set, independent of the quarter the data was collected (**Table 6-3**).

The majority of the Q3 2008 total PAH concentrations in OU-4 were within two standard deviations of the Q3 historical mean concentrations indicating no significant variation in concentrations. The exceptions included WCMW-01I, WCMW-02I, WCMW-02D, WCMW-04S, WCMW-05I and WCMW-05I2. PAHs were not present above detection limits at WCMW-01I, WCMW-02I, and WCMW-02D prior to the Q3 2008 sampling event and were near detection levels in Q3 2008. The PAH concentration observed in WCMW-05I in Q3 2008 was below two standard deviations of the Q3 historical mean concentration indicating a significant decrease at this location, and the PAH concentration in WCMW-05I2 (39 ug/L) was greater than two standard deviations above the historical Q3 mean concentration indicating an increase at this location.

Excluding wells WCMW-02D and WCMW-05I, the remaining Q3 2008 total PAH concentrations were within two standard deviations from their historical mean concentrations when the same analysis was performed on the entire OU-4 data set, independent of the quarter the data was collected. The PAH concentration (1 ug/l) observed in WCMW-02D represents the first detection in the historical monitoring period and the Q3 concentration in WCMW-05I (121 ug/L) was below two standard deviations of the historical mean concentration again indicating a significant decrease at this location (**Table 6-4**).

6.1.5 Future Plans

- Continue annual and quarterly groundwater monitoring at selected wells.

6.2 Institutional Controls/Engineering Controls (IC/EC)

- There has been no activity this quarter.

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Tables (electronic only)

Tables also available at www.bayshoreworksmgp.com

Table 2-1
Summary of DNAPL Removal From Recovery Well BBRW-02
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Date	DNAPL Thickness (feet)		DNAPL Removed	Event Description
	Initial	Final	(Gallons)	
9/14/2006	5.0	-	-	Initial Gauging Event
1/27/2006	-	-	-	Blackhawk Pump Installed
2/7/2006	8.3	4.4	5.73	Initial Pump Test Start
2/16/2006	6.5	-	-	Initial Pump Test Gauging Event
3/9/2006	8.1	3.3	7.05	Confirmation Test 1
3/31/2006	8.5	3.4	7.49	Confirmation Test 2
4/10/2006	8.5	-	-	Pump not achieving flow. Test Suspended
4/19/2006	8.5	-	-	Pump not achieving flow.. Test Suspended
5/18/2006	8.5	-	-	Manufacturer Maintenance Visit. Test Suspended
6/1/2006	8.5	-	-	Pump not achieving flow. Test Suspended
6/14/2006	8.5	3.3	7.64	Pump Motor Replaced - Confirmation Test 3
6/21/2006	8.6	2.0	9.69	Confirmation Test 4
7/12/2006	8.4	2.3	8.96	Demonstration for NYSDEC & SCDHS
7/27/2006	8.6	3.3	7.78	Scheduled Operation 1
8/8/2006	7.4	4.0	4.99	Scheduled Operation 2
8/24/2006	8.4	3.3	7.49	Scheduled Operation 3
9/6/2006	8.3	3.3	7.34	Scheduled Operation 4
10/2/2006	8.4	3.8	6.76	Scheduled Operation 5
10/16/2006	8.1	4.1	5.87	Scheduled Operation 6
10/27/2006	8.7	3.2	8.08	Scheduled Operation 7
11/3/2006	6.4	3.4	4.41	Scheduled Operation 8
11/17/2006	8.7	3.3	7.93	Scheduled Operation 9
12/1/2006	8.5	5.2	4.85	Scheduled Operation 10
12/14/2006	7.9	4.5	4.99	Scheduled Operation 11
12/29/2006	8.4	3.2	7.64	Scheduled Operation 12
1/11/2007	8.2	5.3	4.26	Scheduled Operation 13
1/25/2007	7.0	4.5	3.67	Scheduled Operation 14
2/12/2007	7.2	3.7	5.14	Scheduled Operation 15
2/26/2007	7.3	4.2	4.55	Scheduled Operation 16
3/12/2007	8.4	4.5	5.73	Scheduled Operation 17
3/30/2007	8.0	3.5	6.61	Scheduled Operation 18
4/13/2007	6.7	4.0	3.97	Scheduled Operation 19
4/26/2007	7.6	4.5	4.55	Scheduled Operation 20
5/9/2007	7.6	5.5	3.08	Scheduled Operation 21
5/25/2007	7.8	5.6	3.23	Scheduled Operation 22
6/5/2007	6.6	4.2	3.52	Scheduled Operation 23
6/22/2007	6.0	4.1	2.79	Scheduled Operation 24
7/9/2007	6.8	4.3	3.67	Scheduled Operation 25
7/24/2007	6.8	4.6	3.23	Scheduled Operation 26
8/10/2007	7.8	4.8	4.41	Scheduled Operation 27
8/24/2007	7.0	5.0	2.94	Scheduled Operation 28
9/13/2007	7.0	4.4	3.82	Scheduled Operation 29
9/27/2007	7.0	5.0	2.94	Scheduled Operation 30
10/11/2007	7.0	5.5	2.20	Scheduled Operation 31
10/26/2007	7.5	4.0	5.14	Scheduled Operation 32
11/8/2007	7.0	5.3	2.50	Scheduled Operation 33
11/27/2007	7.4	5.1	3.38	Scheduled Operation 34
12/14/2007	7.6	6.0	2.35	Scheduled Operation 35
1/2/2008	7.0	5.0	2.94	Scheduled Operation 36
1/18/2008	7.5	5.0	3.67	Scheduled Operation 37
2/1/2008	7.3	5.7	2.35	Scheduled Operation 38
2/15/2008	7.6	4.6	4.41	Scheduled Operation 39
2/29/2008	7.2	5.6	2.35	Scheduled Operation 40
3/28/2008	6.8	4.5	3.38	Scheduled Operation 41
4/18/2008	6.8	5.4	2.06	Scheduled Operation 42
5/9/2008	7.1	4.4	3.97	Scheduled Operation 43
6/5/2008	6.0	4.0	2.94	Scheduled Operation 44
6/22/2008	6.9	4.7	3.23	Scheduled Operation 45
7/14/2008	5.1	3.1	2.94	Scheduled Operation 46
8/7/2008	8.1	5.1	4.41	Scheduled Operation 47
9/8/2008	8.0	3.8	6.24	Scheduled Operation 48
Total			257.24	

Notes:

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

Table 2-2
Summary of Measured DNAPL Thickness
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Gauging Date Well I.D.:	3/1/2007	3/9/2007	3/16/2007	3/23/2007	3/30/2007	4/6/2007	4/13/2007	4/20/2007	4/26/2007	5/4/2007	5/10/2007	5/18/2007	5/25/2007	5/31/2007	6/8/2007
NAPL Thickness (ft)															
RW - 01															
DTW:	9.2'	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DNAPL:	3'	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RW - 02															
DTW:	NM	NM	NM	Cover	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	4.5'
LNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DNAPL:	5.5'	5.5'	5.5'	5.7'	8'	6.2'	6.7'	5.2'	4.7'	6.7'	5.6'	6.1'	7.8'	6.1'	NM
RW - 03															
DTW:	8.4'	6.5'	NM	6.3'	6.6'	6.5'	6.0'	5.9'	6.3'	NO ACCESS	6.3'	6.3'	6.6'	6.7'	6.4'
LNAPL:	NM	NM	NM	NM	NM	NM	NO*	NO*	NO*		NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NM	NM	NM	NO*	NO*	NO*		NO*	NO*	NO*	NO*	NO*
RW - 04															
DTW:	9.8'	9.6'	9.6'	9.3'	9.6'	9.2'	9.1'	8.9'	9.5'	9.5'	9.6'	9.5'	9.8'	10.0'	9.6'
LNAPL:	NO*	NO*	NO*	NM	NO*	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NM	NM	NM	NO*	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
RW - 05															
DTW:	7.9'	7.7'	7.6'	7.6'	7.7'	7.3'	7.1'	6.9'	7.6'	7.5'	7.9'	7.8'	7.9'	8.3'	8.0'
LNAPL:	NM	NO*	NO*	NM	NM	NM	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NM	NM	NM	NM	NM	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
BBMW - 05D															
DTW:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW - 20D															
DTW:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW - 22D															
DTW:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Notes:
NO* = Not Observed
NM = Not Measured

Table 2-2
Summary of Measured DNAPL Thickness
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Gauging Date Well I.D.:	6/15/2007	6/22/2007	6/29/2007	7/3/2007	7/13/2007	7/20/2007	8/3/2007	8/10/2007	8/17/2007	8/23/2007	8/31/2007	9/7/2007	9/14/2007	9/21/2007	9/28/2007
	NAPL Thickness (ft)														
RW - 01															
DTW:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RW - 02															
DTW:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DNAPL:	5.5'	6.4'	4.7'	6.8'	5.0'	6.8'	6.5'	6.5'	6.5'	6.8'	6.5'	6.4'	7.0'	7.8'	7.0'
RW - 03															
DTW:	6.7'	6.8'	6.7'	7.0'	NO ACCESS	NO ACCESS	7.2'	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	7.3'	7.4'
LNAPL:	NO*	NO*	NO*	NO*			NO*							NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*			NO*							NO*	NO*
RW - 04															
DTW:	9.9'	10.1'	10.0'	10.3'	10.5'	10.0'	10.1'	9.9'	10.1'	9.9'	10.2'	10.5'	10.4'	10.6'	10.65'
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	0.1'	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
RW - 05															
DTW:	8.30'	8.5'	8.4'	8.7'	8.9'	8.4'	8.5'	8.3'	8.6'	8.3'	8.5'	8.9'	11.6'	9.0'	6.1'
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
BBMW - 05D															
DTW:	NM	NM	NM	NM	NO ACCESS	11.2'	11.2'	11.1'	11.3'	11.1'	11.4'	11.6'	11.7'	11.8'	11.9'
LNAPL:	NM	NM	NM	NM		<0.1'	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NM	NM	NM	NM		NO*	<0.1'	<0.1'	<0.1'	<0.1	<0.1'	NO*	NO*	NO*	NO*
BBMW - 20D															
DTW:	NM	NM	NM	NM	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	10.1'	NO ACCESS	NO ACCESS	NO ACCESS
LNAPL:	NM	NM	NM	NM								NO*			
DNAPL:	NM	NM	NM	NM								NO*			
BBMW - 22D															
DTW:	NM	NM	NM	NM	10.2'	10.0'	10.0'	9.9'	10.1'	9.9'	10.2'	10.4'	NO*	NO*	NO*
LNAPL:	NM	NM	NM	NM	NO*	NO*	NO*	NO*	NO*	NO*	NM	NO*	NO*	NO*	NO*
DNAPL:	NM	NM	NM	NM	5.5'	5.3'	5'	3'	5.5'	5.5'	6'	3'	5.0'	5.2'	6.0'

Notes:
NO* = Not Observed
NM = Not Measured

Table 2-2
Summary of Measured DNAPL Thickness
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Gauging Date Well I.D.:	10/5/2007	10/11/2007	10/26/2007	10/31/2007	11/7/2007	11/8/2007	11/16/2007	12/7/2007	12/14/2007	12/21/2007	12/28/2007	1/7/2008	1/11/2008	1/17/2008	1/25/2008
	NAPL Thickness (ft)														
RW - 01															
DTW:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RW - 02															
DTW:	NO*	NM	NM	NM	NM	NM	NM	NO*	NO*	NM	NM	NM	NM	NM	NM
LNAPL:	NO*	NM	NM	NM	NM	NM	NM	NO*	NO*	NM	NM	NM	NM	NM	NM
DNAPL:	6.4'	7.2'	7.0'	6.6'	NM	7.0'	7.2'	6.5'	7.6'	6.5'	7.5'	5.6'	5.0'	6.8'	6.6'
RW - 03															
DTW:	7.1'	7.6'	7.4'	7.4'	NO ACCESS	NM	7.5'	7.2'	7.0'	9.8'	7.5'	6.9'	6.9'	6.7'	6.7'
LNAPL:	NO*	NO*	NO*	NO*		NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*		NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
RW - 04															
DTW:	10.8'	10.5'	10.7	10.7'	10.6'	NM	10.8'	10.6'	NM	10.1'	10.8'	10.2'	9.9'	10.0	9.9'
LNAPL:	NO*	NO*	NO*	NO*	NM	NM	NO*	NO*	NM	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NM	NM	NO*	NO*	NM	NO*	NO*	NO*	NO*	NO*	NO*
RW - 05															
DTW:	9.3'	9.3'	9.2'	9.15'	9.1'	NM	9.1'	9.0'	8.9'	8.9'	9.0'	8.6'	8.4'	8.4'	8.4'
LNAPL:	NO*	NO*	NO*	NO*	NM	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NM	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
BBMW - 05D															
DTW:	11.8'	11.8'	11.9	11.8'	11.9'	NM	12.0'	11.7'	11.4'	11.3'	12.0'	11.4'	11.2	11.2'	11.1'
LNAPL:	NO*	NO*	NO*	NO*	NM	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NM	NM	<0.1'	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
BBMW - 20D															
DTW:															
LNAPL:	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	Well Damaged	Well Damaged	Well Damaged	Well Damaged
DNAPL:															
BBMW - 22D															
DTW:	NO*	NM	NM	NM	NM	NO*	NM	NO*	10.2	10.0'	NO*	NO*	9.9'	NO*	NO*
LNAPL:	NO*	NM	NM	NM	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	5.0'	6.1'	6.0'	5.8'	NM	5.9'	6.5'	4.2'	6.6'	6.7'	6.5'	5.1'	5.0'	5.8'	5.0'

Notes:
NO* = Not Observed
NM = Not Measured

Table 2-2
Summary of Measured DNAPL Thickness
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Gauging Date Well I.D.:	2/1/2008	2/8/2008	2/15/2008	2/22/2008	2/29/2008	3/7/2008	3/17/2008	3/21/2008	3/28/2008	4/3/2008	4/11/2008	4/18/2008	4/24/2008	5/2/2008	5/9/2008
	NAPL Thickness (ft)														
RW - 01															
DTW:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RW - 02															
DTW:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NO*	8.6'	NO*	NO*	NO*	NO*
LNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	7.3'	6.3'	6.1'	6.2'	7.2'	5.3'	6.0'	7.5'	5.0'	5.0'	6.0'	6.8'	5.3'	6.6'	7.1'
RW - 03															
DTW:	6.98'	6.5'	6.8'	NM	6.3'	6.3'	6.0'	5.7	6.1'	6.3'	6.24'	6.3'	6.7'		6.4'
LNAPL:	NO*	NO*	NO*	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO ACCESS	NO*
DNAPL:	NO*	NO*	NO*	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*		NO*
RW - 04															
DTW:	10.1'	9.8'	9.1'	9.4'	9.6'	9.6'	9.3'	6.0'	9.4'	9.6'	9.5'	9.6'	10.0'	9.4'	9.7'
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
RW - 05															
DTW:	8.6'	8.2'	7.4'	7.9'	9.0'	8.0'	9.0'	7.5'	7.8'	8.0'	7.9'	8.1'	8.4'	8.0'	8.9'
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
BBMW - 05D															
DTW:	11.3'	10.9'	10.2'	10.6'	10.7'	10.8'	10.3'	10.2'	10.6'	10.8'	10.7'	11.87'	10.3'	10.8'	11.0'
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*	coating (<1/8')	0.1'	0.01'	0.1'	NO*	Trace	NO*	NO*	NO*	NO*
BBMW - 20D															
DTW:															
LNAPL:	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged
DNAPL:															
BBMW - 22D															
DTW:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	9.3'	NO*	NO*	9.3'	9.4'
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	5.8'	5.8'	5.3'	5.7'	5.4'	5.4'	5.6'	4.9'	5.8'	7.3'	5.0'	4.7'	5.1'	4.8'	4.1'

Notes:
NO* = Not Observed
NM = Not Measured

Table 2-2
Summary of Measured DNAPL Thickness
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Gauging Date Well I.D.:	5/16/2008	5/23/2008	5/30/2008	6/5/2008	6/13/2008	6/20/2008	6/27/2008	7/3/2008	7/14/2008	7/18/2008	7/25/2008	8/1/2008	8/8/2008	8/15/2008	8/22/2008
	NAPL Thickness (ft)														
RW - 01															
DTW:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
RW - 02															
DTW:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NM	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NM	NM	NM	NM	NM	NM	NM	NM
DNAPL:	5.5'	6.4'	6.6'	6.0'	5.5'	6.8'	5.3'	4.10'	5.10'	4.4'	4.2'	6.5'	5.7'	5.8'	6.3'
RW - 03															
DTW:	6.4'	6.3'		6.25'	6.6'	6.6'	6.6'	6.92'	7.12'	7.24'	7.11'	7.04'	6.98'	7.15'	7.21'
LNAPL:	NO*	NO*	NO ACCESS	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	0.1'		NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
RW - 04															
DTW:	9.7'	9.9'	9.7'	9.58'	9.8'	9.9'	9.9'	10.28'	10.38'	10.52'	10.37'	10.32'	10.26'	10.44'	10.49'
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
RW - 05															
DTW:	8.1'	8.1'	8.1'	8.0'	5.2'	8.4'	8.2'	8.78'	8.76'	8.98'	8.71'	8.80'	8.70'	8.89'	8.98'
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
BBMW - 05D															
DTW:	10.9'	10.9'	10.8'	10.7'	11.0'	11.2'	10.9'	11.56'	11.50'	11.73'	11.45'	11.55'	11.54'	11.75'	11.69'
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	0.1'	0.1'	0.1'	NO*	NO*	NO*	0.01'	0.01'	Trace	0.01'	NO*	Trace
BBMW - 20D															
DTW:															
LNAPL:	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged
DNAPL:															
BBMW - 22D															
DTW:	9.7'	NO*	NO*	NO*	NO*	NO*	NO*	NM	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NM	NM	NM	NM	NM	NM	NM	NM
DNAPL:	4.1'	5.6'	5.1'	4.0'	4.7'	5.6'	4.2'	4.8'	4.6'	4.9'	5.8'	4.5'	5.1'	4.9'	4.1'

Notes:
NO* = Not Observed
NM = Not Measured

Table 2-2
Summary of Measured DNAPL Thickness
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Gauging Date Well I.D.:	9/2/2008	9/8/2008	9/12/2008	9/19/2008	9/25/2008
	NAPL Thickness (ft)				
RW - 01					
DTW:	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM
DNAPL:	NM	NM	NM	NM	NM
RW - 02					
DTW:	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM
DNAPL:	6.5'	8.0'	6.0'	6.50'	5.6'
RW - 03					
DTW:	7.47'	6.89'	6.92'	6.94'	7.21'
LNAPL:	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	>0.01'
RW - 04					
DTW:	10.76'	10.17'	10.20'	10.36'	10.51'
LNAPL:	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*
RW - 05					
DTW:	9.26'	8.63'	8.69'	8.86'	9.01'
LNAPL:	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*
BBMW - 05D					
DTW:	11.96'	11.36'	11.39'	11.57'	11.69'
LNAPL:	NO*	NO*	NO*	NO*	NO*
DNAPL:	Trace	NO*	NO*	NO*	NO*
BBMW - 20D					
DTW:	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged
LNAPL:					
DNAPL:					
BBMW - 22D					
DTW:	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM
DNAPL:	6.0'	5.0'	5.10'	5.30'	5.9'

Notes:
NO* = Not Observed
NM = Not Measured

Table 2-3
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Bay Shore /Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Monitoring Well	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
Conductivity (mS/cm)								
OZMW-16D	--	1.890	--	--	--	2.220	--	2.010
OZMW-16I	--	--	--	--	--	0.725	--	0.938
OZMW-16I2	0.296	--	--	--	--	0.509	--	0.812
OZMW-16S	0.440	--	--	--	--	0.822	--	0.968
OZMW-17D	--	0.994	1.210	0.878	0.826	1.460	0.810	0.588
OZMW-17I	0.689	--	0.504	0.618	0.628	0.999	0.493	0.370
OZMW-17I2	0.237	--	0.147	0.180	0.174	0.345	0.184	0.192
OZMW-17S	0.587	--	0.742	0.720	0.693	0.999	0.532	0.560
OZMW-18D	--	1.760	--	--	--	1.580	--	1.790
OZMW-18I	0.496	--	--	--	--	0.595	--	0.531
OZMW-18I2	0.482	--	--	--	--	0.790	--	0.949
OZMW-18S	0.405	--	--	--	--	0.826	--	0.678
OZMW-22D	--	--	--	--	--	0.193	--	0.201
OZMW-22I	--	--	--	--	--	0.447	--	0.562
OZMW-22I2	--	--	--	--	--	0.494	--	0.670
OZMW-22S	--	--	--	--	--	1.050	--	1.530
Dissolved Oxygen (mg/L)								
OZMW-16D	--	0.0	--	--	--	0.0	--	0.0
OZMW-16I	--	--	--	--	--	20.0	--	20.0
OZMW-16I2	0.0	--	--	--	--	1.4	--	0.0
OZMW-16S	0.0		--	--	--	20.0	--	20.0
OZMW-17D	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OZMW-17I	0.0	--	6.0	35.0	21.0	20.0	19.0	24.0
OZMW-17I2	0.0	--	0.0	5.0	5.0	7.4	7.0	5.0
OZMW-17S	0.0	--	14.0	22.0	21.0	20.0	19.0	8.0
OZMW-18D	--	0.0	--	--	--	0.0	--	0.0
OZMW-18I	0.0	--	--	--	--	0.0	--	4.6
OZMW-18I2	0.0	--	--	--	--	0.0	--	8.8
OZMW-18S	0.0	--	--	--	--	17.4	--	20.0
OZMW-22D	--	--	--	--	--	0.0	--	0.0
OZMW-22I	--	--	--	--	--	0.0	--	0.0
OZMW-22I2	--	--	--	--	--	0.0	--	0.0
OZMW-22S	--	--	--	--	--	0.0	--	0.0
Oxidation Reduction Potential (mV)								
OZMW-16D	--	-48	--	--	--	73	--	43
OZMW-16I	--	--	--	--	--	224	--	113
OZMW-16I2	86	--	--	--	--	189	--	109
OZMW-16S	-108	--	--	--	--	138	--	76
OZMW-17D	--	13	36	17	-34	26	21	35
OZMW-17I	-144	--	35	89	77	58	62	16
OZMW-17I2	110	--	106	127	122	179	144	114
OZMW-17S	-137	--	144	58	76	42	49	-34
OZMW-18D	--	-93	--	--	--	-109	--	-114
OZMW-18I	-168	--	--	--	--	-61	--	-46
OZMW-18I2	-54	--	--	--	--	-52	--	-25
OZMW-18S	-112	--	--	--	--	-40	--	0
OZMW-22D	--	--	--	--	--	110	--	67
OZMW-22I	--	--	--	--	--	185	--	70
OZMW-22I2	--	--	--	--	--	183	--	92
OZMW-22S	--	--	--	--	--	-137	--	-154

Table 2-3
Summary of Groundwater Parameter Data
OU-1 Oxygen Injection System
Bay Shore /Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Monitoring Well	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
pH								
OZMW-16D	--	5.65	--	--	--	5.04	--	4.99
OZMW-16I	--	--	--	--	--	5.54	--	5.86
OZMW-16I2	5.25	--	--	--	--	5.08	--	5.37
OZMW-16S	6.23	--	--	--	--	6.35	--	6.14
OZMW-17D	--	5.31	5.73	5.44	5.36	5.28	5.35	5.28
OZMW-17I	6.69	--	6.97	6.71	6.67	6.75	6.73	6.68
OZMW-17I2	6.09	--	6.65	6.06	6.03	5.96	5.92	6.19
OZMW-17S	6.42	--	6.60	6.59	6.54	6.61	6.58	6.48
OZMW-18D	--	5.83	--	--	--	6.14	--	5.71
OZMW-18I	6.55	--	--	--	--	6.37	--	5.84
OZMW-18I2	6.35	--	--	--	--	6.46	--	7.76
OZMW-18S	6.34	--	--	--	--	6.25	--	5.78
OZMW-22D	--	--	--	--	--	5.22	--	4.92
OZMW-22I	--	--	--	--	--	6.05	--	5.55
OZMW-22I2	--	--	--	--	--	6.10	--	5.57
OZMW-22S	--	--	--	--	--	6.53	--	6.01
Temperature (degrees Celcius)								
OZMW-16D	--	12.6	--	--	--	13.6	--	15.6
OZMW-16I	--	--	--	--	--	15.7	--	16.2
OZMW-16I2	12.7	--	--	--	--	15.5	--	16.1
OZMW-16S	11.0	--	--	--	--	18.4	--	18.9
OZMW-17D	--	11.9	14.1	15.7	17.0	15.6	16.9	15.7
OZMW-17I	13.0	--	13.7	15.7	16.3	17.5	17.2	16.4
OZMW-17I2	12.9	--	13.7	15.5	17.3	15.4	17.3	15.3
OZMW-17S	10.9	--	12.6	14.6	18.1	19.0	19.8	19.4
OZMW-18D	--	11.7	--	--	--	14.7	--	17.1
OZMW-18I	11.9	--	--	--	--	16.6	--	17.6
OZMW-18I2	12.5	--	--	--	--	15.7	--	23.5
OZMW-18S	9.4	--	--	--	--	18.0	--	20.6
OZMW-22D	--	--	--	--	--	14.2	--	16.9
OZMW-22I	--	--	--	--	--	14.6	--	17.4
OZMW-22I2	--	--	--	--	--	14.1	--	16.8
OZMW-22S	--	--	--	--	--	17.7	--	17.4

Notes:
-- Not Recorded
mS/cm - milli-siemens per centimeter
mg/L - milligrams/Liter
mV - milli-volt

Table 2-4
Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Well ID	Date of Measurement	Time of Measurement	Well Casing Diameter (inches)	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-05D	8/4/2008	11:12	2.00	25.37	11.36	14.01	
BBMW-05D2	8/4/2008	11:13	2.00	24.27	10.26	14.01	
BBMW-13D	8/4/2008	8:59	2.00	23.90	9.81	14.09	
BBMW-20D	NM	NM	1.00	18.69	NM	NC	Obstruction
BBMW-20I	NM	NM	1.00	18.63	NM	NC	Obstruction
BBMW-20S	NM	NM	1.00	18.66	NM	NC	Obstruction
BBMW-22D	8/4/2008	11:16	2.00	23.67	9.99	13.68	
BBMW-22I	8/4/2008	11:15	2.00	23.61	9.81	13.80	
BBMW-22S	8/4/2008	11:15	2.00	23.65	9.85	13.80	
BBMW-26I	8/6/2008	10:13	1.00	25.02	9.83	15.19	
BBMW-26S	8/6/2008	10:12	1.00	24.96	9.77	15.19	
BBMW-27I	8/6/2008	10:22	1.00	25.37	10.13	15.24	
BBMW-27S	8/6/2008	10:21	1.00	25.03	9.82	15.21	
MW-03D	8/4/2008	8:58	4.00	22.48	8.43	14.05	
MW-03S	8/4/2008	8:58	4.00	22.59	8.54	14.05	
MW-05D	8/4/2008	11:10	2.00	24.37	10.37	14.00	
MW-05S	8/4/2008	11:09	2.00	24.05	10.06	13.99	
MW-09I	8/5/2008	10:18	2.00	24.71	9.27	15.44	
MW-09S	8/5/2008	10:16	4.00	25.17	9.72	15.45	
OZMW-16S	8/5/2008	NM	2.00	19.88	6.82	13.06	
OZMW-16I	8/5/2008	NM	2.00	19.9	6.83	13.07	
OZMW-16I2	8/5/2008	NM	2.00	19.72	6.61	13.11	
OZMW-16D	8/5/2008	NM	2.00	20.1	7.05	13.05	
OZMW-17S	8/5/2008	NM	2.00	19.83	6.73	13.10	
OZMW-17I	8/5/2008	NM	2.00	19.91	6.84	13.07	
OZMW-17I2	8/5/2008	NM	2.00	19.86	6.81	13.05	
OZMW-17D	8/5/2008	NM	2.00	19.88	6.86	13.02	
OZMW-18S	8/5/2008	NM	2.00	19.56	6.84	12.72	
OZMW-18I	8/5/2008	NM	2.00	19.98	6.60	13.38	
OZMW-18I2	8/5/2008	NM	2.00	19.97	6.48	13.49	
OZMW-18D	8/5/2008	NM	2.00	19.53	6.55	12.98	
OZMW-22S	8/5/2008	NM	2.00	19.43	5.99	13.44	
OZMW-22I	8/5/2008	NM	2.00	19.67	6.19	13.48	
OZMW-22I2	8/5/2008	NM	2.00	19.66	6.20	13.46	
OZMW-22D	8/5/2008	NM	2.00	19.48	6.06	13.42	

Notes:
1 - Well Elevations obtained from 2007 Survey or latter and reference NVGD88 datum
MSL - Mean Sea Level
NM - Not Measured
NC - Not Calculated

Table 2-5
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Well Identification	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)								
		October-92	November-99	March-02	June-02	August-02	November-02	March-03	July-03	September-03
BBMW-05D	64.0 - 74.0	NM	13.67	13.42	13.51	12.15	14.25	14.72	14.55	13.70
BBMW-05D2	126.5 - 136.5	NM	NM	14.00	13.82	12.30	14.72	15.54	15.07	14.51
BBMW-13D	62.0 -72.0	NM	14.05	13.75	14.55	12.48	14.64	15.12	15.15	14.09
BBMW-20S	4.0 - 14.0	NM	NM	NM	12.59	11.28	13.21	13.72	13.56	12.71
BBMW-20I	35.0 - 45.0	NM	NM	NM	12.52	11.22	13.14	13.64	13.48	12.64
BBMW-20D	62.0 - 72.0	NM	NM	NM	12.62	11.32	13.25	13.76	13.62	12.93
BBMW-22S	5.0 - 10.0	NM	NM	13.26	13.34	12.01	13.99	14.52	14.35	13.51
BBMW-22I	30.0 - 40.0	NM	NM	13.26	13.34	12.02	14.01	14.52	14.36	13.42
BBMW-22D	64.0 - 74.0	NM	NM	13.26	13.34	12.01	14.01	14.55	14.37	13.61
BBMW-26S	6.0 - 16.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-26I	30.0 - 40.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-27S	5.0 - 15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-27I	30.0 - 40.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-03S	3.0 -13.0	13.81	14.02	13.72	14.51	12.45	14.60	15.10	15.11	14.07
MW-03D	35.0 - 45.0	13.77	14.01	13.72	14.48	12.44	14.59	15.09	15.08	14.06
MW-05S	4.0 - 14.0	17.61	13.75	13.45	13.50	12.16	14.19	14.72	14.55	13.69
MW-05D	35.5 - 45.5	18.51	14.71	14.41	14.51	13.16	15.21	15.73	15.52	14.70
MW-09S	4.0 - 14.0	15.24	15.34	NM	15.08	13.55	15.67	16.50	16.55	15.54
MW-09I	30.0 - 40.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-16S	5.0 - 15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-16I	20.0 - 30.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-16I2	35.0 - 45.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-16D	55.0 - 65.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-17S	5.0 - 15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-17I	20.0 - 30.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-17I2	35.0 - 45.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-17D	53.0 - 63.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-18S	5.0 - 15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-18I	20.0 - 30.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-18I2	35.0 - 45.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-18D	55.0 - 65.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-22S	5.0 - 15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-22I	20.0 - 30.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-22I2	35.0 - 45.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-22D	55.0 - 65.0	NM	NM	NM	NM	NM	NM	NM	NM	NM

Table 2-5
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Well Identification	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)								
		January-04	April-04	August-04	October-04	February-05	May-05	August-05	November-05	February-06
BBMW-05D	64.0 - 74.0	14.15	15.83	13.54	13.99	14.66	14.55	13.32	15.08	14.95
BBMW-05D2	126.5 - 136.5	15.10	16.23	14.38	15.10	15.66	15.62	13.64	16.27	16.22
BBMW-13D	62.0 -72.0	14.52	16.29	13.91	14.37	15.04	14.86	13.71	15.45	15.33
BBMW-20S	4.0 - 14.0	13.13	14.59	12.56	13.00	13.66	13.54	12.35	14.08	13.93
BBMW-20I	35.0 - 45.0	13.04	14.51	12.50	12.92	12.68	13.46	12.63	14.34	14.20
BBMW-20D	62.0 - 72.0	13.33	14.80	12.76	13.20	13.83	NM	13.00	14.70	14.55
BBMW-22S	5.0 - 10.0	13.92	15.54	13.34	13.79	14.44	14.34	13.13	14.93	14.75
BBMW-22I	30.0 - 40.0	13.94	15.52	13.33	13.78	14.43	14.33	13.12	14.88	14.74
BBMW-22D	64.0 - 74.0	13.98	15.52	13.37	13.83	14.42	14.36	13.16	14.96	14.76
BBMW-26S	6.0 - 16.0	NM	NM	NM	NM	16.11	16.09	14.74	16.60	16.49
BBMW-26I	30.0 - 40.0	NM	NM	NM	NM	16.12	16.10	14.79	16.62	16.50
BBMW-27S	5.0 - 15.0	NM	NM	NM	NM	16.10	16.08	14.73	16.59	16.47
BBMW-27I	30.0 - 40.0	NM	NM	NM	NM	16.14	16.11	14.78	16.62	16.50
MW-03S	3.0 -13.0	14.49	16.23	13.87	14.33	15.01	14.88	13.64	15.42	15.30
MW-03D	35.0 - 45.0	14.49	16.22	13.87	14.33	15.00	14.89	13.65	15.41	15.27
MW-05S	4.0 - 14.0	14.15	15.83	13.54	13.99	14.66	14.54	13.32	14.06	14.96
MW-05D	35.5 - 45.5	15.15	15.81	13.55	14.00	14.66	14.55	13.32	15.08	14.95
MW-09S	4.0 - 14.0	15.88	17.44	15.26	15.74	16.41	16.40	15.03	16.89	16.79
MW-09I	30.0 - 40.0	NM	NM	NM	NM	16.37	16.37	15.02	16.85	16.77
OZMW-16S	5.0 - 15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-16I	20.0 - 30.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-16I2	35.0 - 45.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-16D	55.0 - 65.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-17S	5.0 - 15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-17I	20.0 - 30.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-17I2	35.0 - 45.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-17D	53.0 - 63.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-18S	5.0 - 15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-18I	20.0 - 30.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-18I2	35.0 - 45.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-18D	55.0 - 65.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-22S	5.0 - 15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-22I	20.0 - 30.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-22I2	35.0 - 45.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
OZMW-22D	55.0 - 65.0	NM	NM	NM	NM	NM	NM	NM	NM	NM

Table 2-5
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Well Identification	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)						
		May-06	July/Aug-06	November-06	January-07	May-07	July/Aug-07	Oct/Nov-07
BBMW-05D	64.0 - 74.0	14.46	14.19	14.63	14.51	14.91	14.23	13.41
BBMW-05D2	126.5 - 136.5	15.38	14.51	15.61	15.81	16.19	14.44	14.18
BBMW-13D	62.0 -72.0	14.83	14.54	14.99	14.93	15.32	14.55	13.66
BBMW-20S	4.0 - 14.0	13.45	13.17	13.64	13.55	NM	NM	NC
BBMW-20I	35.0 - 45.0	13.73	13.42	13.90	13.79	NM	NM	NC
BBMW-20D	62.0 - 72.0	14.10	13.78	14.28	14.20	NM	NM	NC
BBMW-22S	5.0 - 10.0	14.26	13.97	14.43	14.34	14.73	14.08	13.26
BBMW-22I	30.0 - 40.0	14.26	13.97	14.43	14.34	14.72	14.08	13.27
BBMW-22D	64.0 - 74.0	14.27	13.98	14.49	14.41	14.46	13.70	12.89
BBMW-26S	6.0 - 16.0	15.98	15.72	16.11	16.07	16.46	15.67	14.74
BBMW-26I	30.0 - 40.0	15.98	15.72	16.10	16.08	16.46	15.63	14.76
BBMW-27S	5.0 - 15.0	15.98	NM	16.04	16.02	16.42	15.67	14.76
BBMW-27I	30.0 - 40.0	16.00	NM	16.07	16.05	16.44	15.70	14.80
MW-03S	3.0 -13.0	14.80	14.51	14.98	14.88	15.29	14.52	13.64
MW-03D	35.0 - 45.0	14.80	14.50	14.94	14.89	15.28	14.51	13.62
MW-05S	4.0 - 14.0	14.46	14.17	14.63	14.53	14.93	14.23	13.40
MW-05D	35.5 - 45.5	14.45	14.18	14.65	14.56	14.95	14.24	13.42
MW-09S	4.0 - 14.0	16.29	NM	16.34	16.33	16.75	15.96	14.99
MW-09I	30.0 - 40.0	16.28	NM	16.34	16.32	16.72	15.94	15.02
OZMW-16S	5.0 - 15.0	NM	NM	NM	NM	NM	NM	NM
OZMW-16I	20.0 - 30.0	NM	NM	NM	NM	NM	NM	NM
OZMW-16I2	35.0 - 45.0	NM	NM	NM	NM	NM	NM	NM
OZMW-16D	55.0 - 65.0	NM	NM	NM	NM	NM	NM	NM
OZMW-17S	5.0 - 15.0	NM	NM	NM	NM	NM	NM	NM
OZMW-17I	20.0 - 30.0	NM	NM	NM	NM	NM	NM	NM
OZMW-17I2	35.0 - 45.0	NM	NM	NM	NM	NM	NM	NM
OZMW-17D	53.0 - 63.0	NM	NM	NM	NM	NM	NM	NM
OZMW-18S	5.0 - 15.0	NM	NM	NM	NM	NM	NM	NM
OZMW-18I	20.0 - 30.0	NM	NM	NM	NM	NM	NM	NM
OZMW-18I2	35.0 - 45.0	NM	NM	NM	NM	NM	NM	NM
OZMW-18D	55.0 - 65.0	NM	NM	NM	NM	NM	NM	NM
OZMW-22S	5.0 - 15.0	NM	NM	NM	NM	NM	NM	NM
OZMW-22I	20.0 - 30.0	NM	NM	NM	NM	NM	NM	NM
OZMW-22I2	35.0 - 45.0	NM	NM	NM	NM	NM	NM	NM
OZMW-22D	55.0 - 65.0	NM	NM	NM	NM	NM	NM	NM

Table 2-5
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Well Identification	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)					
		January-08	April-08	August-08	Minimum	Average	Maximum
BBMW-05D	64.0 - 74.0	14.27	15.01	14.01	12.15	14.21	15.83
BBMW-05D2	126.5 - 136.5	15.07	15.81	14.01	12.30	14.97	16.27
BBMW-13D	62.0 -72.0	14.63	15.25	14.09	12.48	14.60	16.29
BBMW-20S	4.0 - 14.0	NC	NC	NC	11.28	13.25	14.59
BBMW-20I	35.0 - 45.0	13.91	NC	NC	11.22	13.28	14.51
BBMW-20D	62.0 - 72.0	NC	NC	NC	11.32	13.56	14.80
BBMW-22S	5.0 - 10.0	13.86	14.63	13.80	12.01	14.02	15.54
BBMW-22I	30.0 - 40.0	14.11	14.82	13.80	12.02	14.03	15.52
BBMW-22D	64.0 - 74.0	14.10	14.82	13.68	12.01	14.01	15.52
BBMW-26S	6.0 - 16.0	15.63	16.38	15.19	14.74	15.87	16.60
BBMW-26I	30.0 - 40.0	15.64	16.37	15.19	14.76	15.87	16.62
BBMW-27S	5.0 - 15.0	15.66	16.38	15.21	14.73	15.87	16.59
BBMW-27I	30.0 - 40.0	15.65	16.33	15.24	14.78	15.89	16.62
MW-03S	3.0 -13.0	14.60	15.21	14.05	12.45	14.54	16.23
MW-03D	35.0 - 45.0	14.60	15.21	14.05	12.44	14.53	16.22
MW-05S	4.0 - 14.0	14.24	15.01	13.99	12.16	14.30	17.61
MW-05D	35.5 - 45.5	14.26	14.98	14.00	13.16	14.69	18.51
MW-09S	4.0 - 14.0	15.85	16.63	15.45	13.55	15.92	17.44
MW-09I	30.0 - 40.0	15.90	16.64	15.44	15.02	16.14	16.85
OZMW-16S	5.0 - 15.0	NM	NM	13.06	13.06	13.06	13.06
OZMW-16I	20.0 - 30.0	NM	NM	13.07	13.07	13.07	13.07
OZMW-16I2	35.0 - 45.0	NM	NM	13.11	13.11	13.11	13.11
OZMW-16D	55.0 - 65.0	NM	NM	13.05	13.05	13.05	13.05
OZMW-17S	5.0 - 15.0	NM	NM	13.1	13.10	13.10	13.10
OZMW-17I	20.0 - 30.0	NM	NM	13.07	13.07	13.07	13.07
OZMW-17I2	35.0 - 45.0	NM	NM	13.05	13.05	13.05	13.05
OZMW-17D	53.0 - 63.0	NM	NM	13.02	13.02	13.02	13.02
OZMW-18S	5.0 - 15.0	NM	NM	12.72	12.72	12.72	12.72
OZMW-18I	20.0 - 30.0	NM	NM	13.38	13.38	13.38	13.38
OZMW-18I2	35.0 - 45.0	NM	NM	13.49	13.49	13.49	13.49
OZMW-18D	55.0 - 65.0	NM	NM	12.98	12.98	12.98	12.98
OZMW-22S	5.0 - 15.0	NM	NM	13.44	13.44	13.44	13.44
OZMW-22I	20.0 - 30.0	NM	NM	13.48	13.48	13.48	13.48
OZMW-22I2	35.0 - 45.0	NM	NM	13.46	13.46	13.46	13.46
OZMW-22D	55.0 - 65.0	NM	NM	13.42	13.42	13.42	13.42

Notes:
NM - Not Measured
bgs - below ground surface
Well Elevations obtained from 2007 Survey or latter and reference NVGD88 datum

Table 2-6
Summary of Historic Total BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Well No.	Screen Interval	Total BTEX Concentrations (ug/l)																
		Sampling Date																
		1992	1999		2002			2003			2004				2005			
	(feet)	Sept	Sept	Oct/Nov	Apr/May	June/July	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
BBMW-05D	64.0 - 74.0	--	--	1,523	943	--	0	600	--	--	1,890	--	--	--	680	--	--	--
BBMW-05D2	126.5 - 136.5	--	--	--	16	0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	--	--	0	0	--	--	--	--	--	0	--	--	--	0	--	--	--
BBMW-20D	62.0 - 72.0	--	--	--	3,505	--	9,639	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35.0 - 45.0	--	--	--	40	--	193	170	--	--	110	--	132	--	--	--	--	104
BBMW-20S	4.0 - 14.0	--	--	--	15,140	--	6,190	11,700	--	--	10,876	--	10,120	--	--	--	--	5,655
BBMW-22D	64.0 - 74.0	--	--	--	8,600	--	5,028	6,297	--	--	2,370	--	--	--	1,650	--	--	--
BBMW-22I	30.0 - 40.0	--	--	--	36	--	25	22	--	28	13	--	--	--	16	--	--	--
BBMW-22S	5.0 - 10.0	--	--	--	13,610	--	25,800	6,030	20,000	25,200	12,960	13,800	21,300	14,500	11,670	16,900	9,200	--
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--
MW-03D	35.0 - 45.0	0	0	0	0	--	--	--	--	--	0	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	361	15	19	26	--	--	--	45	20	0	0	33	35	--	180	34	0
MW-05D	35.5 - 45.5	253	15	39	3	--	0	17	--	--	0	--	--	--	0	--	--	--
MW-05S	4.0 - 14.0	17,180	27,000	20,430	24,320	--	34,290	46,300	--	--	21,660	--	--	--	24,395	--	--	--
MW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09S	4.0 - 14.0	0	--	29	--	0	0	0	--	--	0	--	--	0	--	--	--	--
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2-6
Summary of Historic Total BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Well No.	Screen Interval	Total BTEX Concentrations (ug/l)															
		Sampling Date															
		2006				2007				2008							
	(feet)	March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-July	July-Sep	Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
BBMW-05D	64.0 - 74.0	890	1,267	3,150	553	1,597	613	21	399	717	727	790	0	3,150	973	0	3,150
BBMW-05D2	126.5 - 136.5	0	--	--	--	--	--	--	--	0	--	--	0	16	4	0	16
BBMW-13D	62.0 - 72.0	0	--	--	--	0	0	0	0	0	--	--	0	0	0	0	0
BBMW-20D	62.0 - 72.0	--	--	--	--	1,540	1,800	1359	--	--	--	--	1,359	9,639	3,569	1,359	9,639
BBMW-20I	35.0 - 45.0	--	--	165	125	105	12	29	13	8	5	6	5	193	87	5	193
BBMW-20S	4.0 - 14.0	--	--	19,133	12,900	173	4,144	2677	--	--	--	--	173	19,133	8,973	173	19,133
BBMW-22D	64.0 - 74.0	1,020	--	--	--	1,558	1,580	2807	3126	2356	3126	4810	1,020	8,600	3,293	1,020	8,600
BBMW-22I	30.0 - 40.0	16	--	--	--	0	43	37	32	31	32	38	0	43	25	0	43
BBMW-22S	5.0 - 10.0	12,370	10,300	--	--	10,850	10,420	14810	7150	5816	7340	9140	5,816	25,800	13,501	5,816	25,800
BBMW-26I	30.0 - 40.0	0	--	--	--	0	0	0	--	0	--	--	0	0	0	0	0
BBMW-26S	6.0 - 16.0	0	--	--	--	0	0	0	0	0	--	--	0	0	0	0	0
BBMW-27I	30.0 - 40.0	0	--	--	--	0	0	0	--	0	--	--	0	0	0	0	0
BBMW-27S	5.0 - 15.0	0	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
MW-03D	35.0 - 45.0	0	--	--	--	0	0	0	0	0	--	--	0	0	0	0	0
MW-03S	3.0 - 13.0	132	31	250	10	0	111	116	18	30	5	--	0	361	64	0	361
MW-05D	35.5 - 45.5	--	0	0	0	0	18	22	0	0	0	7	0	253	22	0	253
MW-05S	4.0 - 14.0	--	17,327	18,100	24,600	48,430	15,905	12929	18130	15095	8060	14554	8,060	48,430	23,185	8,060	48,430
MW-09I	30.0 - 40.0	0	--	--	--	0	0	2	--	4	--	--	0	4	1	0	4
MW-09S	4.0 - 14.0	0	--	--	--	0	0	0	0	0	0	0	0	29	2	0	29
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	512	105	136	105	512	309	105	512
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	3	4	8	3	4	4	3	8
OZMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	4685	0	0	0	4,685	2,343	0	4,685
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	1316	82	23	82	1,316	699	23	1,316
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	1664	78	52	78	1,664	871	52	1,664
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	77	31	79	31	77	54	31	79
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	3600	169	25	169	3,600	1,885	25	3,600
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	201	95	75	95	201	148	75	201
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	3160	54	212	54	3,160	1,607	54	3,160
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OZMW-22I	20.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OZMW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	7077	7480	7381	7,077	7,480	7,279	7,077	7,480

NOTES:

BTEX - benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs)
-- = Not Analyzed/Applicable
ug/l - Micrograms per liter
Historic Minimum, Maximum and Mean calculations do not include data from the current quarter.
Peristaltic pump results are shown on this table.
Peristaltic pump results are shown on this table.

Table 2-7
Summary of Historic Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Well No.	Screen Interval	Total PAH Concentrations (ug/l)																
		Sampling Date																
		1992	1999		2002			2003			2004				2005			
	(feet)	Sept	Sept	Oct/Nov	Apr/May	June/July	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
BBMW-05D	64.0 - 74.0	--	--	3,249	4,181	--	2,247	1,800	--	--	3,187	--	--	--	3,109	--	--	--
BBMW-05D2	126.5 - 136.5	--	--	--	147	0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-13D	62.0 - 72.0	--	--	0	40	--	--	--	--	--	0	--	--	--	0	--	--	--
BBMW-20D	62.0 - 72.0	--	--	--	14,594	--	7,300	--	--	--	--	--	--	--	--	--	--	--
BBMW-20I	35.0 - 45.0	--	--	--	7,134	--	7,900	7,400	--	--	6,939	--	6,956	--	--	--	--	8,636
BBMW-20S	4.0 - 14.0	--	--	--	2,248	--	3,080	15,000	--	--	3,408	--	1,758	--	--	--	--	2,483
BBMW-22D	64.0 - 74.0	--	--	--	11,436	--	8,808	5,300	--	--	145,100	--	--	--	4,418	--	--	--
BBMW-22I	30.0 - 40.0	--	--	--	8,810	--	8,000	3,500	--	--	7,240	--	--	--	5,865	--	--	--
BBMW-22S	5.0 - 10.0	--	--	--	3,954	--	3,700	2,500	3,608	--	2,400	2,042	4,460	4,780	2,640	143	4,549	--
BBMW-26I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-26S	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-27I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--
BBMW-27S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	--	--
MW-03D	35.0 - 45.0	0	0	0	0	--	--	--	--	--	184	--	--	--	--	--	--	--
MW-03S	3.0 - 13.0	620	17	1,425	104	--	--	--	120	20	0	28	25	0	--	0	21	0
MW-05D	35.5 - 45.5	4,292	3,959	4,944	2,501	--	4,560	2,600	--	--	3,214	--	--	--	2,842	--	--	--
MW-05S	4.0 - 14.0	5,514	2,360	2,964	2,682	--	2,100	1,600	--	--	2,783	--	--	--	2,144	--	--	--
MW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-09S	4.0 - 14.0	0	--	0	--	0	74	0	--	--	0	--	--	0	--	--	--	--
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I	20.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OZMW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 2-7
Summary of Historic Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 1 (OU-1)

Well No.	Screen Interval (feet)	Total PAH Concentrations (ug/l)															
		Sampling Date															
		2006				2007				2008			Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-July	July-Sep					
BBMW-05D	64.0 - 74.0	2,924	352	4,492	2,386	2,371	1,233	40	930	981	1203	1555	40	4,492	2,168	40	4,492
BBMW-05D2	126.5 - 136.5	0	--	--	--	--	--	--	--	0	--	--	0	147	37	0	147
BBMW-13D	62.0 - 72.0	0	--	--	--	0	0	0	0	0	--	--	0	40	4	0	40
BBMW-20D	62.0 - 72.0	--	--	--	--	2,289	4,688	5,460	--	--	--	--	2,289	14,594	6,866	2,289	14,594
BBMW-20I	35.0 - 45.0	--	--	7,722	5,749	7,160	2,189	2,033	452	75	48	348	48	8,636	5,028	48	8,636
BBMW-20S	4.0 - 14.0	--	--	1,365	2,179	1,819	1,343	860	--	--	--	--	860	15,000	3,231	860	15,000
BBMW-22D	64.0 - 74.0	6,168	--	--	--	2,725	3,310	5,374	8516	4257	4894	6242	2,725	145,100	17,526	2,725	145,100
BBMW-22I	30.0 - 40.0	7,028	--	--	--	4,696	4,283	4,879	5212	5536	4290	4506	3,500	8,810	5,778	3,500	8,810
BBMW-22S	5.0 - 10.0	4,131	2,214	--	--	1,634	2,931	3,629	3189	24	25	1876	24	4,780	2,766	24	4,780
BBMW-26I	30.0 - 40.0	0	--	--	--	0	0	1	--	0	--	--	0	1	0	0	1
BBMW-26S	6.0 - 16.0	0	--	--	--	0	0	0	24	0	--	--	0	24	3	0	24
BBMW-27I	30.0 - 40.0	0	--	--	--	0	0	0	--	0	--	--	0	0	0	0	0
BBMW-27S	5.0 - 15.0	0	--	--	--	0	0	0	0	0	0	2	0	0	0	0	2
MW-03D	35.0 - 45.0	0	--	--	--	0	0	0	2	0	--	--	0	184	17	0	184
MW-03S	3.0 - 13.0	25	11	0	0	0	0	9	0	0	0	--	0	1,425	105	0	1,425
MW-05D	35.5 - 45.5	2,456	435	1,984	3,122	1,113	142	55	741	2644	390	1988	55	4,944	2,333	55	4,944
MW-05S	4.0 - 14.0	2,220	1,647	2,493	1,652	1,647	1,294	1,630	1431	1699	144	1306	144	5,514	2,111	144	5,514
MW-09I	30.0 - 40.0	0	--	--	--	0	0	0	--	0	--	--	0	0	0	0	0
MW-09S	4.0 - 14.0	0	--	--	--	0	0	0	0	0	0	0	0	74	5	0	74
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	1	0	0	0	1	1	0	1
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	1447	39	22	39	1,447	743	22	1,447
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	0	219	0	0	219	110	0	219
OZMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	830	2	0	2	830	416	0	830
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	27	0	0	0	27	14	0	27
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	5197	5	0	5	5,197	2,601	0	5,197
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	7	0	2	0	7	4	0	7
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	1963	1	0	1	1,963	982	0	1,963
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	1684	461	108	461	1,684	1,073	108	1,684
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	2312	625	7	625	2,312	1,469	7	2,312
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	8178	7353	11417	7,353	8,178	7,766	7,353	11,417
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	569	15	0	15	569	292	0	569
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OZMW-22I	20.0 - 30.0	--	--	--	--	--	--	--	--	0	0	1	0	0	0	0	1
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OZMW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	2191	2555	1359	2,191	2,555	2,373	1,359	2,555

NOTES:

PAH - polycylic aromatic hydrocarbon
-- = Not Analyzed/Applicable
ug/l - Micrograms per liter
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.
Peristaltic pump results are shown on this table.

Table 2-8
Summary of BTEX, MTBE and PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operable Unit No. 1 (OU-1)

Operable Unit:		OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1	OU1
Well ID:		BBMW-05D	BBMW-20I	BBMW-22D	BBMW-22I	BBMW-22S	BBMW-27S	MW-05D	MW-05S	MW-09S
Screened Interval (feet):	NYS	64-74	35-45	64-74	30-40	5-10	5-15	35.5-45.5	4-14	4-14
Date Sampled:	AWQS	9/2/2008	8/29/2008	9/3/2008	9/3/2008	9/3/2008	9/4/2008	9/2/2008	9/2/2008	9/4/2008
BTEX (ug/l)										
Benzene	1	**14**	10 U	**10**	**2 J**	**570**	10 U	10 U	**84**	10 U
Toluene	5	**240**	10 U	**1500**	10 U	**170**	10 U	10 U	**770**	10 U
Ethylbenzene	5	**76**	10 U	**400**	**11**	**3400**	10 U	**2 J**	**5800**	10 U
Xylene, total	5	**460**	**6 J**	**2900**	**25**	**5000**	10 U	**5 J**	**7900**	10 U
Total BTEX	NE	**790**	**6**	**4810**	**38**	**9140**	ND	**7**	**14554**	ND
Other VOCs (ug/l)										
Methyl tert-butyl ether	10*	**2 J**	**8 J**	10 U	**5 J**	10 U	10 U	**8 J**	10 U	10 U
Non-carcinogenic PAHs (ug/l)										
Acenaphthene	20	**6**	**6**	**13**	**150 J**	**61**	10 U	**28**	**49**	10 U
Acenaphthylene	NE	**58**	**58**	**190 J**	**15**	**82 J**	10 U	**420**	**56**	10 U
Anthracene	50*	**11**	**2 J**	**14**	**7**	**8**	10 U	**12**	**10**	10 U
Fluoranthene	50*	**4 J**	10 U	**7**	**2 J**	**3 J**	10 U	**3 J**	**3 J**	10 U
Fluorene	50*	**25**	**14**	**40**	**40**	**43**	10 U	**67**	**38**	10 U
Methylnaphthalene, 2-	NE	**190**	**76**	**710**	**950**	**430**	10 U	**810**	**330**	10 U
Naphthalene	10*	**1200**	**180**	**5200**	**3300**	**1200**	**2 J**	**590**	**770**	10 U
Phenanthrene	50*	**57**	**12**	**55**	**40**	**45**	10 U	**54**	**47**	10 U
Pyrene	50*	**4 J**	10 U	**8**	**2 J**	**4 J**	10 U	**4 J**	**3 J**	10 U
Total Noncarcinogenic PAHs	NE	**1555**	**348**	**6237**	**4506**	**1876**	**2**	**1988**	**1306**	ND
Carcinogenic PAHs (ug/l)										
Benz[a]anthracene	0.002*	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
Benzo[a]pyrene	ND	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002*	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	**5**	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)										
Total PAHs	NE	**1555**	**348**	**6242**	**4506**	**1876**	**2**	**1988**	**1306**	ND

NOTES:

BTEX - benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs)
VOCs - volatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
ug/l - micrograms per liter or parts per billion (ppb)
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
NE - not established
ND - not detected; total concentration is listed as ND because no compounds were detected in the group
Bolding indicates the compound was detected
Shading indicates an exceedance of established NYS AWQS
U - indicates not detected at or above the reporting limit shown
J - estimated value

Table 2-9
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operable Unit No. 1 (OU-1)

Operable Unit: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU1 OZMW-16D 55-65 9/25/08	OU1 OZMW-16I 20-30 9/25/08	OU1 OZMW-16I2 35-45 9/25/08	OU1 OZMW-16S 5-15 9/25/08	OU1 OZMW-17D 53-63 9/30/08	OU1 OZMW-17I 20-30 9/30/08	OU1 OZMW-17I2 35-45 9/30/08	OU1 OZMW-17S 5-15 9/30/08
BTEX (ug/l)									
Benzene	1	10 U	10 U	10 U	10 U	10 U	**6**	10 U	**4 J**
Toluene	5	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	10 U	**17**	10 U	10 U	10 U	**5 J**	10 U	**16**
Xylene, m,p-	5	10 U	**53**	**3 J**	10 U	10 U	**6 J**	10 U	**12**
Xylene, o-	5	10 U	**63**	**5**	10 U	10 U	**6**	10 U	**20**
Total BTEX	NE	ND	**136**	**8**	ND	ND	**23**	ND	**52**
Other VOCs (ug/l)									
Acetone	50	10 UJ	**3 J**	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U
Butanone, 2-	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isopropyl benzene	5	10 U	10 U	**4 J**	10 U	10 U	10 U	10 U	**3 J**
Methyl tert-butyl ether	10	10 UJ	10 UJ	**2 J**	10 UJ	10 U	10 UJ	**5 J**	10 UJ
Naphthalene	10	10 U	**820 J**	**720 J**	**11**	10 U	**850 J**	**4 J**	**280**
Propylbenzene, n-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	5	10 U	**13**	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrahydrofuran	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	5	10 U	**57**	**4 J**	10 U	10 U	**18**	10 U	**28**
Trimethylbenzene, 1,2,4-	5	10 U	**49**	**10**	10 U	10 U	**33**	10 U	**28**
Trimethylpentane, 2,2,4-	NE	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U
Non-carcinogenic PAHs (ug/l)									
Acenaphthene	20	10 U	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	**13**	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U
Phenanthrene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Noncarcinogenic PAHs	NE	ND	**22**	ND	ND	ND	ND	**2**	ND
Carcinogenic PAHs (ug/l)									
Chrysene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)									
Total PAHs	NE	ND	**22**	ND	ND	ND	ND	**2**	ND

Table 2-9
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operable Unit No. 1 (OU-1)

Operable Unit: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU1 OZMW-18D 55-65 9/29/08	OU1 OZMW-18I 20-30 9/29/08	OU1 OZMW-18I2 35-45 9/29/08	OU1 OZMW-18S 5-15 9/29/08	OU1 OZMW-22D 55-65 9/30/08	OU1 OZMW-22I 20-30 9/30/08	OU1 OZMW-22I2 35-45 9/30/08	OU1 OZMW-22S 5-15 9/30/08
BTEX (ug/l)									
Benzene	1	**3 J**	10 U	**2 J**	**1 J**	10 U	10 U	10 U	**21**
Toluene	5	**18**	10 U	10 U	**7**	10 U	10 U	10 U	**160**
Ethylbenzene	5	**7**	**7**	**4 J**	**94**	10 U	10 U	10 U	**4800**
Xylene, m,p-	5	**34**	**11**	**39**	**57**	10 U	10 U	10 U	**1200**
Xylene, o-	5	**17**	**7**	**12**	**53**	10 U	10 U	10 U	**1200**
Total BTEX	NE	**79**	**25**	**57**	**212**	ND	ND	ND	**7381**
Other VOCs (ug/l)									
Acetone	50	10 U	**3 J**	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U
Butanone, 2-	50	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	**4 J**	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isopropyl benzene	5	**3 J**	**8**	10 U	**3 J**	10 U	10 U	10 U	**490 J**
Methyl tert-butyl ether	10	**4 J**	10 UJ	**2 J**	10 UJ	10 U	10 U	**4 J**	10 UJ
Naphthalene	10	**1900**	**2900**	**16000**	**89**	10 U	10 U	10 U	**2900**
Propylbenzene, n-	5	**5 J**	**6**	**38**	10 U	10 U	10 U	10 U	**140**
Styrene	5	**22**	10 U	**18**	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	**1 J**	**10**	10 U	10 U	10 U	10 U	10 U
Tetrahydrofuran	50	10 U	10 U	10 U	**12**	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	5	**36**	**150**	**740 J**	**30**	10 U	10 U	10 U	**880 J**
Trimethylbenzene, 1,2,4-	5	**73**	**270 J**	**1100**	**24**	10 U	10 U	10 U	**1300**
Trimethylpentane, 2,2,4-	NE	10 U	10 U	10 U	10 U	10 UJ	10 UJ	**6 J**	10 U
Non-carcinogenic PAHs (ug/l)									
Acenaphthene	20	10 U	**7**	**60**	10 U	10 U	10 U	10 U	**21**
Acenaphthylene	NE	10 U	10 U	**310 J**	10 U	10 U	10 U	10 U	**4 J**
Anthracene	50	10 U	10 U	**11**	10 U	10 U	10 U	10 U	**3 J**
Fluoranthene	50	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	**1 J**
Fluorene	50	10 U	10 U	**65**	10 U	10 U	10 U	10 U	**11**
Methylnaphthalene, 2-	NE	10 U	10 U	**1100**	10 U	10 U	10 U	10 U	**110 J**
Naphthalene	10	10 U	10 U	**9800**	10 U	10 U	**1 J**	10 U	**1200**
Phenanthrene	50	10 U	10 U	**65**	10 U	10 U	10 U	10 U	**7**
Pyrene	50	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	**2 J**
Total Noncarcinogenic PAHs	NE	10 U	**7**	**11417**	ND	ND	**1**	ND	**1359**
Carcinogenic PAHs (ug/l)									
Chrysene	0.002	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)									
Total PAHs	NE	ND	**7**	**11417**	ND	ND	**1**	ND	**1359**

Table 2-9
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operable Unit No. 1 (OU-1)

NOTES:

BTEX - benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs)
VOCs - volatile organic compounds
SVOCs - semivolatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
ug/l - micrograms per liter or parts per billion (ppb)
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
NA - not analyzed
NE - not established
ND - not detected; total concentration is listed as ND because no compounds were detected in the group
Bolding indicates the compound was detected
Shading indicates an exceedance of established NYS AWQS
U - indicates not detected at or above the reporting limit shown
J - estimated value
UJ - not detected at or above the reporting limit and the reporting limit is estimated

Table 3-1
Summary of Groundwater Parameter Data
Montauk Highway Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Monitoring Well	Apr-04	Aug-04	Dec-04	Mar-05	Jun-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Feb-06	Mar-06	Apr-06
Conductivity (mS/cm)													
BBMW-25D	0.048	0.047	0.058	0.076	--	0.058	--	--	--	--	--	0.053	--
BBMW-25I	0.482	0.577	0.483	0.544	--	0.279	--	--	--	1.010	0.647	0.458	0.386
BBMW-25S	--	0.465	0.288	0.638	--	0.650	--	--	--	0.467	0.354	0.348	0.300
OU2MW-01D	--	--	--	--	--	--	--	--	--	--	--	0.520	--
OU2MW-01I	--	--	--	--	--	0.456	--	--	0.470	--	0.701	0.506	0.450
OU2MW-01I2	--	--	--	--	--	--	--	--	0.187	--	0.287	0.186	0.174
OU2MW-01S	--	--	--	--	--	0.548	--	--	0.609	--	--	0.608	0.482
OU2MW-01WT	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	--	--	--	--	--	0.037	--	--	--	--	0.049	--	--
OU2MW-02I	--	--	--	--	--	0.178	--	--	--	--	0.263	--	--
OU2MW-02I2	--	--	--	--	--	0.122	--	--	--	--	0.100	--	--
OU2MW-02S	--	--	--	--	--	0.405	--	--	--	--	0.565	0.885	--
OU2MW-03D	--	--	--	--	--	--	0.036	--	--	--	--	0.055	--
OU2MW-03I	--	--	--	--	--	--	--	--	--	--	--	0.345	--
OU2MW-03I2	--	--	--	--	--	--	0.073	--	--	--	--	0.094	--
OU2MW-03S	--	--	--	--	--	--	0.452	--	--	--	--	0.636	--
OU2MW-04D	--	--	--	--	--	--	0.066	--	--	--	--	0.062	--
OU2MW-04I	--	--	--	--	--	--	0.416	--	--	--	--	0.656	--
OU2MW-04I2	--	--	--	--	--	--	0.213	--	--	--	--	0.312	--
OU2MW-04S	--	--	--	--	--	--	0.554	--	--	--	--	0.733	--
OU2MW-04WT	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	--	--	--	--	--	--	--	0.036	--	--	0.049	--	--
OU2MW-08I	--	--	--	--	--	--	--	0.364	--	--	0.381	--	--
OU2MW-08I2	--	--	--	--	--	--	--	0.409	--	--	0.539	--	--
OU2MW-08S	--	--	--	--	--	--	--	0.549	--	--	0.646	--	--
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (mg/L)													
BBMW-25D	0.0	0.0	0.0	0.4	--	0.3	--	--	--	--	--	0.0	--
BBMW-25I	0.0	0.0	0.0	0.3	--	0.8	--	--	20.0	0.0	7.3	13.0	12.0
BBMW-25S	--	0.0	1.1	1.8	--	3.0	--	--	--	9.9	20.0	26.5	39.0
OU2MW-02D	--	--	--	--	--	0.9	--	--	--	--	0.0	--	--
OU2MW-01D	--	--	--	--	--	--	--	--	--	--	--	0.0	--
OU2MW-01I	--	--	--	--	--	2.4	--	--	0.4	--	20.0	29.0	35.0
OU2MW-01I2	--	--	--	--	--	--	--	--	0.4	--	0.0	0.0	0.0
OU2MW-01S	--	--	--	--	--	3.0	--	--	0.4	--	--	0.0	0.0
OU2MW-01WT	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02I	--	--	--	--	--	0.4	--	--	--	--	0.0	--	--
OU2MW-02I2	--	--	--	--	--	0.5	--	--	--	--	0.0	--	--
OU2MW-02S	--	--	--	--	--	1.8	--	--	--	--	0.0	0.0	--
OU2MW-03D	--	--	--	--	--	--	0.0	--	--	--	--	0.0	--
OU2MW-03I	--	--	--	--	--	--	--	--	--	--	--	0.0	--
OU2MW-03I2	--	--	--	--	--	--	0.0	--	--	--	--	0.0	--
OU2MW-03S	--	--	--	--	--	--	0.0	--	--	--	--	0.0	--
OU2MW-04D	--	--	--	--	--	--	0.3	--	--	--	--	0.0	--
OU2MW-04I	--	--	--	--	--	--	4.7	--	--	--	--	0.0	--
OU2MW-04I2	--	--	--	--	--	--	2.0	--	--	--	--	0.0	--
OU2MW-04S	--	--	--	--	--	--	5.3	--	--	--	--	0.0	--
OU2MW-04WT	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--
OU2MW-08I	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--
OU2MW-08I2	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--
OU2MW-08S	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potent													
BBMW-25D	92	67	72	76	--	7	--	--	--	--	--	59	--
BBMW-25I	-80	-94	-80	-95	--	217	--	--	--	-88	-52	-38.3	-32.4
BBMW-25S	--	93	118	115	--	-92	--	--	--	151	148	202	166.9
OU2MW-01D	--	--	--	--	--	--	--	--	--	--	--	66	--
OU2MW-01I	--	--	--	--	--	15	--	--	-477	--	123	193	148
OU2MW-01I2	--	--	--	--	--	--	--	--	-480	--	-54	-37.2	-38.6
OU2MW-01S	--	--	--	--	--	-116	--	--	-462	--	--	-101.2	-99.9
OU2MW-01WT	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	--	--	--	--	--	69	--	--	--	--	26	--	--
OU2MW-02I	--	--	--	--	--	101	--	--	--	--	51	--	--
OU2MW-02I2	--	--	--	--	--	-6	--	--	--	--	-33	--	--
OU2MW-02S	--	--	--	--	--	-183	--	--	--	--	-155	-115	--
OU2MW-03D	--	--	--	--	--	--	-19	--	--	--	--	43	--
OU2MW-03I	--	--	--	--	--	--	--	--	--	--	--	105	--
OU2MW-03I2	--	--	--	--	--	--	-61	--	--	--	--	-23	--
OU2MW-03S	--	--	--	--	--	--	-158	--	--	--	--	-148	--
OU2MW-04D	--	--	--	--	--	--	-104	--	--	--	--	-52	--
OU2MW-04I	--	--	--	--	--	--	-120	--	--	--	--	-99	--
OU2MW-04I2	--	--	--	--	--	--	-23	--	--	--	--	-56	--
OU2MW-04S	--	--	--	--	--	--	-157	--	--	--	--	-157	--
OU2MW-04WT	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	--	--	--	--	--	--	--	60	--	--	-206	--	--
OU2MW-08I	--	--	--	--	--	--	--	-44	--	--	-44	--	--
OU2MW-08I2	--	--	--	--	--	--	--	-102	--	--	-125	--	--
OU2MW-08S	--	--	--	--	--	--	--	-142	--	--	-129	--	--
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3-1
Summary of Groundwater Parameter Data
Montauk Highway Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Monitoring Well	Apr-04	Aug-04	Dec-04	Mar-05	Jun-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Feb-06	Mar-06	Apr-06
pH (std. units)													
BBMW-25D	5.89	5.35	5.71	5.52	--	5.92	--	--	--	--	--	5.75	--
BBMW-25I	6.77	6.56	6.55	6.32	--	6.18	--	--	--	6.44	6.49	6.56	6.58
BBMW-25S	--	6.27	6.23	5.99	--	6.51	--	--	--	6.09	6.28	6.34	6.40
OU2MW-01D	--	--	--	--	--	--	--	--	--	--	--	5.56	--
OU2MW-01I	--	--	--	--	--	6.14	--	--	7.12	--	6.22	6.25	6.28
OU2MW-01I2	--	--	--	--	--	--	--	--	7.05	--	6.46	6.50	6.53
OU2MW-01S	--	--	--	--	--	6.61	--	--	7.09	--	--	6.49	6.57
OU2MW-01WT	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	--	--	--	--	--	5.74	--	--	--	--	5.69	--	--
OU2MW-02I	--	--	--	--	--	6.12	--	--	--	--	6.23	--	--
OU2MW-02I2	--	--	--	--	--	6.14	--	--	--	--	6.33	--	--
OU2MW-02S	--	--	--	--	--	6.88	--	--	--	--	6.97	6.62	--
OU2MW-03D	--	--	--	--	--	--	5.83	--	--	--	--	5.91	--
OU2MW-03I	--	--	--	--	--	--	--	--	--	--	--	5.84	--
OU2MW-03I2	--	--	--	--	--	--	6.43	--	--	--	--	6.32	--
OU2MW-03S	--	--	--	--	--	--	6.85	--	--	--	--	6.94	--
OU2MW-04D	--	--	--	--	--	--	7.06	--	--	--	--	6.28	--
OU2MW-04I	--	--	--	--	--	--	6.66	--	--	--	--	6.52	--
OU2MW-04I2	--	--	--	--	--	--	6.25	--	--	--	--	6.24	--
OU2MW-04S	--	--	--	--	--	--	6.83	--	--	--	--	6.88	--
OU2MW-04WT	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	--	--	--	--	--	--	--	5.75	--	--	5.87	--	--
OU2MW-08I	--	--	--	--	--	--	--	6.68	--	--	6.40	--	--
OU2MW-08I2	--	--	--	--	--	--	--	6.89	--	--	6.68	--	--
OU2MW-08S	--	--	--	--	--	--	--	7.18	--	--	6.90	--	--
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	--
Teperature (deg C)													
BBMW-25D	13.2	15.6	13.1	11.4	--	16.7	--	--	--	--	--	12.4	--
BBMW-25I	14.4	15.6	13.9	13.1	--	21.7	--	--	--	13.5	14.0	15.0	13.1
BBMW-25S	--	19.1	13.8	10.5	--	18.2	--	--	--	13.3	11.2	12.1	12.2
OU2MW-01D	--	--	--	--	--	--	--	--	--	--	--	11.9	--
OU2MW-01I	--	--	--	--	--	18.4	--	--	13.4	--	12.0	14.2	12.8
OU2MW-01I2	--	--	--	--	--	--	--	--	12.8	--	12.5	13.1	12.4
OU2MW-01S	--	--	--	--	--	18.4	--	--	15.0	--	--	14.2	12.6
OU2MW-01WT	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	--	--	--	--	--	17.2	--	--	--	--	11.6	--	--
OU2MW-02I	--	--	--	--	--	18.0	--	--	--	--	12.4	--	--
OU2MW-02I2	--	--	--	--	--	16.0	--	--	--	--	11.7	--	--
OU2MW-02S	--	--	--	--	--	16.7	--	--	--	--	11.8	13.5	--
OU2MW-03D	--	--	--	--	--	--	15.0	--	--	--	--	10.8	--
OU2MW-03I	--	--	--	--	--	--	--	--	--	--	--	13.1	--
OU2MW-03I2	--	--	--	--	--	--	15.7	--	--	--	--	11.9	--
OU2MW-03S	--	--	--	--	--	--	16.5	--	--	--	--	12.6	--
OU2MW-04D	--	--	--	--	--	--	14.7	--	--	--	--	11.0	--
OU2MW-04I	--	--	--	--	--	--	16.0	--	--	--	--	12.2	--
OU2MW-04I2	--	--	--	--	--	--	15.2	--	--	--	--	11.3	--
OU2MW-04S	--	--	--	--	--	--	15.5	--	--	--	--	12.1	--
OU2MW-04WT	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	--	--	--	--	--	--	--	16.2	--	--	12.5	--	--
OU2MW-08I	--	--	--	--	--	--	--	16.8	--	--	13.3	--	--
OU2MW-08I2	--	--	--	--	--	--	--	17.0	--	--	13.1	--	--
OU2MW-08S	--	--	--	--	--	--	--	17.6	--	--	14.7	--	--
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3-1
Summary of Groundwater Parameter Data
Montauk Highway Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Monitoring Well	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07
Conductivity (mS/cm)																		
BBMW-25D	--	0.056	--	--	0.084	--	0.100	0.047	--	--	0.034	0.048	0.055	0.063	0.073	0.049	0.062	0.057
BBMW-25I	0.387	0.238	0.444	0.604	0.472	0.535	0.626	0.411	0.629	0.586	--	0.474	0.427	0.472	0.417	--	0.441	0.450
BBMW-25S	0.236	0.232	0.310	0.314	0.303	0.336	0.376	--	0.452	0.359	0.363	--	0.353	0.349	0.277	0.348	0.351	0.440
OU2MW-01D	--	0.000	--	--	0.035	--	0.041	--	--	--	0.032	0.040	0.034	0.069	0.042	0.038	0.041	0.036
OU2MW-01I	0.494	0.546	0.590	0.631	0.500	0.510	0.517	0.340	0.558	0.728	0.507	0.456	0.448	0.666	0.605	0.561	0.636	0.593
OU2MW-01I2	0.196	0.209	0.205	0.166	0.063	0.133	0.161	0.097	0.173	0.161	0.067	0.149	0.168	0.188	0.114	0.093	0.062	0.063
OU2MW-01S	0.465	0.506	0.539	0.579	0.483	0.643	0.768	0.529	0.819	0.737	--	0.720	0.658	0.787	0.594	--	0.510	0.492
OU2MW-01WT	--	--	--	--	--	--	--	--	--	--	--	--	--	0.710	0.648	--	--	0.513
OU2MW-02D	--	0.036	--	--	0.036	--	--	--	--	--	0.050	--	0.042	--	--	--	0.038	--
OU2MW-02I	--	0.199	--	--	0.201	--	0.230	--	--	--	0.271	--	0.301	--	--	--	0.186	--
OU2MW-02I2	--	0.067	--	--	0.064	--	0.068	--	--	--	0.087	--	0.093	--	--	--	0.072	--
OU2MW-02S	--	0.514	--	--	0.406	--	0.444	--	--	--	0.432	--	0.654	--	--	--	0.390	--
OU2MW-03D	--	0.036	--	--	0.034	--	0.047	--	--	--	0.051	--	0.065	--	--	--	0.039	--
OU2MW-03I	--	0.226	--	--	0.200	--	0.545	--	--	--	0.460	--	0.536	--	--	--	0.289	--
OU2MW-03I2	--	0.071	--	--	0.060	--	0.071	--	--	--	0.108	--	0.081	--	--	--	0.054	--
OU2MW-03S	--	0.475	--	--	0.557	--	0.047	--	--	--	0.609	--	0.440	--	--	--	0.434	--
OU2MW-04D	--	0.047	--	--	0.045	--	0.056	--	--	--	0.063	--	0.040	--	--	--	0.048	--
OU2MW-04I	--	0.429	--	--	0.497	--	0.614	--	--	--	0.437	--	0.462	--	--	--	0.359	--
OU2MW-04I2	--	0.230	--	--	0.195	--	0.198	--	--	--	0.183	--	0.100	--	--	--	0.063	--
OU2MW-04S	--	0.639	--	--	0.535	--	0.680	--	--	--	0.675	--	0.759	--	--	--	0.547	--
OU2MW-04WT	--	--	--	--	--	--	--	--	--	--	--	--	--	0.222	--	--	0.240	--
OU2MW-08D	--	--	--	0.035	--	--	0.061	--	--	--	0.054	--	--	0.038	0.037	0.047	--	--
OU2MW-08I	--	--	--	0.293	--	--	0.433	--	--	--	0.404	--	--	0.373	0.185	0.254	--	--
OU2MW-08I2	--	--	--	0.397	--	--	0.775	--	--	--	0.761	--	--	0.461	0.552	0.519	--	--
OU2MW-08S	--	--	--	0.564	--	--	0.904	--	--	--	0.778	--	--	0.516	0.999	0.617	--	--
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	--	0.681	1.380	--	0.542	--
Dissolved Oxygen (mg/L)																		
BBMW-25D	--	6.5	--	--	20.0	--	27.0	17.0	--	--	16.0	19.0	32.0	29.0	20.0	22.0	30.0	41.0
BBMW-25I	25.0	27.0	19.0	20.0	25.0	26.0	14.0	7.0	10.0	20.0	--	26.0	25.0	28.0	20.0	--	17.7	8.0
BBMW-25S	33.0	24.0	17.0	27.0	32.0	33.0	37.0	--	36.0	35.0	28.0	--	26.0	28.0	20.0	34.0	34.0	15.0
OU2MW-02D	--	1.6	--	--	0.0	--	--	--	--	--	0.0	--	0.0	--	--	--	0.0	--
OU2MW-01D	--	0.0	--	--	0.0	--	0.0	--	--	--	4.0	1.0	0.0	0.0	0.0	0.3	0.0	2.0
OU2MW-01I	37.0	35.0	37.0	37.0	31.0	32.0	39.0	28.0	44.0	47.0	41.0	38.0	35.0	26.0	20.0	32.0	45.0	46.0
OU2MW-01I2	0.3	3.0	8.0	6.0	15.0	22.0	28.0	33.0	23.0	8.0	3.0	1.0	0.0	7.0	1.3	17.0	17.0	7.4
OU2MW-01S	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	0.0	0.0	7.0	1.1	--	0.0	0.0
OU2MW-01WT	--	--	--	--	--	--	--	--	--	--	--	--	--	15.7	16.2	--	--	11.0
OU2MW-02I	--	1.6	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	--	--	0.0	--
OU2MW-02I2	--	1.5	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	--	--	0.0	--
OU2MW-02S	--	1.1	--	--	0.0	--	0.0	--	--	--	20.0	--	0.0	--	--	--	0.1	--
OU2MW-03D	--	1.7	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	--	--	0.0	--
OU2MW-03I	--	1.7	--	--	0.0	--	0.0	--	--	--	4.1	--	17.8	--	--	--	20.0	--
OU2MW-03I2	--	1.9	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	--	--	0.0	--
OU2MW-03S	--	1.8	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	--	--	0.0	--
OU2MW-04D	--	2.0	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	--	--	0.0	--
OU2MW-04I	--	2.1	--	--	0.0	--	0.0	--	--	--	16.4	--	10.1	--	--	--	0.0	--
OU2MW-04I2	--	1.9	--	--	0.1	--	0.0	--	--	--	0.0	--	0.0	--	--	--	0.0	--
OU2MW-04S	--	1.8	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	--	--	0.0	--
OU2MW-04WT	--	--	--	--	--	--	--	--	--	--	--	--	--	7.3	--	--	0.0	--
OU2MW-08D	--	--	--	0.0	--	--	0.0	--	--	--	0.0	--	--	2.7	0.0	0.0	--	--
OU2MW-08I	--	--	--	0.0	--	--	0.0	--	--	--	0.0	--	--	2.6	0.0	0.0	--	--
OU2MW-08I2	--	--	--	0.0	--	--	0.0	--	--	--	0.0	--	--	2.7	1.3	0.0	--	--
OU2MW-08S	--	--	--	0.0	--	--	0.0	--	--	--	0.0	--	--	3.0	0.2	0.0	--	--
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	0.0	--
Oxidation Reduction Potent																		
BBMW-25D	--	90	--	--	99	--	172	197	--	--	198	295	278	441	201	265	242	239
BBMW-25I	17.6	163	41	10	52.8	49	20	-2	53	69	--	26	40	208	41	--	59	86
BBMW-25S	216	180	248	137	112.6	146	185	--	260	128	630	--	215	410	201	184	263	172
OU2MW-01D	--	104	--	--	62	--	69	--	--	--	402	120	-25	50	38	-37	101	112
OU2MW-01I	207	139	298	163	157	149	188	191	223	197	476	237	101	187	207	203	165	209
OU2MW-01I2	-25.9	-45	93	27	148	53	102	85	140	158	144	137	136	226	82	120	200	124
OU2MW-01S	-78	-104	-52	-117	-71	-67	-61	-70	-54	-89	--	-96	-64	-44	-28	--	-45	-64
OU2MW-01WT	--	--	--	--	--	--	--	--	--	--	--	--	--	226	97	--	--	112
OU2MW-02D	--	105	--	--	85	--	--	--	--	--	65	--	98	--	--	--	102	--
OU2MW-02I	--	69	--	--	118.2	--	40	--	--	--	52	--	59	--	--	--	32	--
OU2MW-02I2	--	-15	--	--	-25	--	-3	--	--	--	-25	--	1	--	--	--	-15	--
OU2MW-02S	--	-176	--	--	-145	--	-131	--	--	--	57	--	-84	--	--	--	-40	--
OU2MW-03D	--	29	--	--	43	--	9	--	--	--	60	--	90	--	--	--	44	--
OU2MW-03I	--	111	--	--	107	--	131	--	--	--	174	--	218	--	--	--	199	--
OU2MW-03I2	--	-56	--	--	-27	--	-44	--	--	--	-10	--	-124	--	--	--	-16	--
OU2MW-03S	--	-168	--	--	-154	--	47	--	--	--	-129	--	-187	--	--	--	-138	--
OU2MW-04D	--	-29	--	--	-15	--	-7	--	--	--	2	--	-102	--	--	--	-23	--
OU2MW-04I	--	-120	--	--	-93	--	-88	--	--	--	110	--	69	--	--	--	55	--
OU2MW-04I2	--	-49	--	--	-31.5	--	-17	--	--	--	2	--	-80	--	--	--	-35	--
OU2MW-04S	--	-165	--	--	-149	--	-138	--	--	--	-119	--	-144	--	--	--	-132	--
OU2MW-04WT	--	--	--	--	--	--	--	--	--	--	--	--	--	141	--	--	83	--
OU2MW-08D	--	--	--	-21	--	--	35	--	--	--	74	--	--	85	56	29	--	--
OU2MW-08I	--	--	--	-55	--	--	-32	--	--	--	3	--	--	-48	7	-47	--	--
OU2MW-08I2	--	--	--	-132	--	--	-117	--	--	--	-69	--	--	-113	-114	-125	--	--
OU2MW-08S	--	--	--	-143	--	--	-128	--	--	--	-94	--	--	-153	-137	-140	--	--
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	--	-3	144	--	97	--

Table 3-1
Summary of Groundwater Parameter Data
Montauk Highway Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Monitoring Well	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07
pH (std. units)																		
BBMW-25D	--	5.71	--	--	5.78	--	5.60	6.06	--	--	4.91	4.68	5.58	5.41	6.34	5.01	5.56	5.15
BBMW-25I	6.51	6.44	6.10	6.49	6.44	6.29	6.47	5.90	6.20	6.12	--	6.21	6.38	6.22	6.15	--	6.69	6.05
BBMW-25S	6.50	6.21	5.02	6.41	6.55	6.39	6.11	--	6.24	6.11	6.20	--	6.39	6.23	6.34	6.06	6.82	6.21
OU2MW-01D	--	4.95	--	--	5.53	--	5.56	--	--	--	6.05	4.81	5.33	6.15	5.43	5.69	5.57	5.43
OU2MW-01I	6.26	6.04	5.02	6.20	6.18	6.10	5.96	6.49	5.84	5.90	6.48	5.97	6.15	6.01	5.97	5.73	6.17	5.35
OU2MW-01I2	6.52	6.20	5.66	6.33	6.17	5.91	6.08	6.55	5.79	6.03	5.86	5.91	5.49	5.97	6.12	6.02	6.25	5.73
OU2MW-01S	6.50	6.34	6.81	6.57	6.48	6.36	6.65	7.01	6.34	6.25	--	6.34	6.18	6.25	6.33	--	6.75	7.00
OU2MW-01WT	--	--	--	--	--	--	--	--	--	--	--	--	--	6.51	6.32	--	--	6.45
OU2MW-02D	--	4.97	--	--	5.27	--	--	--	--	--	5.40	--	5.64	--	--	--	5.64	--
OU2MW-02I	--	6.22	--	--	6.26	--	6.61	--	--	--	5.48	--	6.06	--	--	--	6.61	--
OU2MW-02I2	--	5.83	--	--	6.11	--	6.43	--	--	--	6.20	--	5.99	--	--	--	6.46	--
OU2MW-02S	--	6.81	--	--	6.72	--	7.15	--	--	--	6.26	--	6.49	--	--	--	6.63	--
OU2MW-03D	--	5.75	--	--	5.97	--	6.43	--	--	--	5.92	--	5.24	--	--	--	6.31	--
OU2MW-03I	--	5.62	--	--	5.81	--	5.99	--	--	--	6.02	--	5.84	--	--	--	5.98	--
OU2MW-03I2	--	6.35	--	--	6.33	--	6.67	--	--	--	6.23	--	6.29	--	--	--	6.68	--
OU2MW-03S	--	6.79	--	--	6.74	--	6.14	--	--	--	6.72	--	6.98	--	--	--	7.42	--
OU2MW-04D	--	6.41	--	--	6.06	--	6.73	--	--	--	6.20	--	6.26	--	--	--	6.72	--
OU2MW-04I	--	6.59	--	--	6.21	--	6.73	--	--	--	5.48	--	5.78	--	--	--	6.17	--
OU2MW-04I2	--	6.40	--	--	6.56	--	6.64	--	--	--	6.25	--	6.39	--	--	--	6.29	--
OU2MW-04S	--	6.91	--	--	6.48	--	7.10	--	--	--	6.78	--	6.93	--	--	--	6.59	--
OU2MW-04WT	--	--	--	--	--	--	--	--	--	--	--	--	--	6.15	--	--	6.70	--
OU2MW-08D	--	--	--	5.98	--	--	6.21	--	--	--	5.63	--	--	5.44	5.70	5.67	--	--
OU2MW-08I	--	--	--	6.40	--	--	6.80	--	--	--	6.14	--	--	6.37	6.28	6.30	--	--
OU2MW-08I2	--	--	--	6.60	--	--	7.00	--	--	--	6.30	--	--	6.61	6.34	6.56	--	--
OU2MW-08S	--	--	--	6.78	--	--	7.23	--	--	--	6.64	--	--	6.75	6.81	6.74	--	--
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	--	6.31	6.49	--	6.52	--
Teperature (deg C)																		
BBMW-25D	--	19.1	--	--	16.8	--	15.8	13.0	--	--	11.4	14.1	14.8	16.0	19.5	20.2	14.5	18.1
BBMW-25I	15.9	21.0	22.2	17.0	17.2	14.5	16.8	13.7	12.1	13.4	--	15.0	17.0	15.2	18.0	--	18.7	18.4
BBMW-25S	16.4	20.6	24.0	20.8	20.0	16.2	17.4	--	12.1	10.7	17.5	--	17.6	17.1	19.5	22.7	20.8	21.5
OU2MW-01D	--	16.3	--	--	18.3	--	16.0	--	--	--	14.9	15.6	14.9	17.9	16.8	18.5	19.4	14.3
OU2MW-01I	15.8	16.8	22.1	19.1	17.6	14.0	16.1	11.2	8.5	9.8	15.3	19.9	16.3	19.1	19.3	21.6	21.2	14.6
OU2MW-01I2	15.6	16.9	20.2	20.9	17.9	11.2	15.7	12.1	7.5	12.4	15.0	15.0	16.0	15.0	19.6	23.0	18.9	14.5
OU2MW-01S	15.9	18.1	23.7	21.0	18.2	16.6	17.0	12.0	8.5	11.4	--	17.8	15.4	15.5	17.6	--	24.9	15.3
OU2MW-01WT	--	--	--	--	--	--	--	--	--	--	--	--	--	17.1	21.3	--	--	16.7
OU2MW-02D	--	14.4	--	--	19.9	--	--	--	--	--	11.2	--	12.3	--	--	--	16.6	--
OU2MW-02I	--	16.1	--	--	16.6	--	14.0	--	--	--	11.1	--	13.6	--	--	--	19.8	--
OU2MW-02I2	--	15.2	--	--	17.9	--	15.1	--	--	--	13.0	--	12.4	--	--	--	18.8	--
OU2MW-02S	--	16.3	--	--	17.8	--	17.2	--	--	--	11.5	--	13.2	--	--	--	21.1	--
OU2MW-03D	--	14.0	--	--	14.0	--	13.6	--	--	--	11.6	--	12.3	--	--	--	16.5	--
OU2MW-03I	--	14.4	--	--	14.5	--	14.0	--	--	--	13.1	--	13.0	--	--	--	17.0	--
OU2MW-03I2	--	14.8	--	--	14.2	--	13.8	--	--	--	12.3	--	12.9	--	--	--	16.5	--
OU2MW-03S	--	15.0	--	--	15.2	--	13.5	--	--	--	13.4	--	13.0	--	--	--	17.5	--
OU2MW-04D	--	15.5	--	--	14.1	--	13.6	--	--	--	11.9	--	12.6	--	--	--	18.3	--
OU2MW-04I	--	16.0	--	--	14.6	--	13.9	--	--	--	12.9	--	12.5	--	--	--	17.9	--
OU2MW-04I2	--	15.1	--	--	15.9	--	13.9	--	--	--	10.7	--	13.0	--	--	--	16.2	--
OU2MW-04S	--	15.5	--	--	15.1	--	14.6	--	--	--	11.2	--	11.8	--	--	--	18.5	--
OU2MW-04WT	--	--	--	--	--	--	--	--	--	--	--	--	--	14.3	--	--	20.5	--
OU2MW-08D	--	--	--	17.1	--	--	14.5	--	--	--	11.0	--	--	16.9	16.3	15.9	--	--
OU2MW-08I	--	--	--	17.1	--	--	15.3	--	--	--	12.1	--	--	18.2	15.9	16.6	--	--
OU2MW-08I2	--	--	--	16.1	--	--	14.8	--	--	--	12.1	--	--	17.4	16.4	16.1	--	--
OU2MW-08S	--	--	--	18.1	--	--	16.9	--	--	--	12.5	--	--	17.4	17.4	17.1	--	--
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	--	20.3	20.3	--	20.9	--

Table 3-1
Summary of Groundwater Parameter Data
Montauk Highway Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Monitoring Well	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Aug-08	Jul-08	Aug-08	Sep-08
Conductivity (mS/cm)												
BBMW-25D	0.052	0.049	0.063	0.047	0.085	0.072	0.070	0.073	--	0.117	0.111	0.133
BBMW-25I	0.433	0.558	0.580	0.504	0.726	0.537	0.491	0.550	--	0.844	0.815	0.902
BBMW-25S	0.209	0.316	0.267	0.276	0.342	0.203	0.215	0.301	--	0.466	0.408	0.451
OU2MW-01D	0.034	0.044	0.816	0.036	0.055	0.042	0.060	0.056	--	0.073	0.078	0.082
OU2MW-01I	0.475	0.523	0.489	0.404	0.906	0.422	0.387	0.488	--	0.853	0.882	0.953
OU2MW-01I2	0.070	0.102	0.342	0.080	0.105	1.070	1.040	0.620	--	0.098	0.043	0.043
OU2MW-01S	0.460	0.582	0.919	0.531	0.900	0.071	0.057	0.072	--	0.795	0.319	0.830
OU2MW-01WT	0.393	0.459	0.598	0.653	--	0.491	0.541	0.544	--	0.859	0.999	0.900
OU2MW-02D	0.035	--	--	0.039	--	--	0.046	--	--	--	--	0.078
OU2MW-02I	0.237	--	--	0.230	--	--	0.201	--	--	--	--	0.460
OU2MW-02I2	0.071	--	--	0.080	--	--	0.064	--	--	--	--	0.152
OU2MW-02S	0.448	--	--	0.453	--	--	0.467	--	--	--	--	0.913
OU2MW-03D	0.036	--	--	0.040	--	--	0.040	--	--	--	--	0.085
OU2MW-03I	0.260	--	--	0.300	--	--	0.324	--	--	--	--	0.609
OU2MW-03I2	0.061	--	--	0.049	--	--	0.052	--	--	--	--	0.100
OU2MW-03S	0.455	--	--	0.618	--	--	0.625	--	--	--	--	0.900
OU2MW-04D	0.048	--	--	0.053	--	--	0.048	--	--	--	--	0.093
OU2MW-04I	0.324	--	--	0.441	--	--	0.196	--	--	--	--	0.472
OU2MW-04I2	0.044	--	--	0.048	--	--	0.063	--	--	--	--	0.096
OU2MW-04S	0.569	--	--	0.650	--	--	0.635	--	--	--	--	0.960
OU2MW-04WT	--	--	--	0.141	--	--	0.139	--	--	--	--	0.433
OU2MW-08D	0.035	--	--	0.037	--	--	--	0.044	--	--	0.039	--
OU2MW-08I	0.303	--	--	0.436	--	--	--	0.576	--	--	0.479	--
OU2MW-08I2	0.562	--	--	0.501	--	--	--	0.641	--	--	0.634	--
OU2MW-08S	0.470	--	--	0.446	--	--	--	0.490	--	--	0.459	--
OU2MW-08WT	--	--	--	0.423	--	--	--	--	0.466	--	0.466	--
Dissolved Oxygen (mg/L)												
BBMW-25D	43.0	43.0	48.0	23.0	18.0	25.0	19.0	25.0	--	29.0	27.0	27.0
BBMW-25I	19.0	26.0	6.0	12.0	9.0	0.0	4.0	3.0	--	20.0	15.0	20.0
BBMW-25S	31.0	31.0	28.0	22.0	32.0	31.0	23.0	24.0	--	31.0	27.0	26.0
OU2MW-02D	0.0	--	--	0.0	--	--	0.0	--	--	0.0	0.0	0.0
OU2MW-01D	4.0	4.0	2.0	1.0	2.0	0.0	3.0	2.0	--	34.0	33.0	32.0
OU2MW-01I	31.0	48.0	42.0	31.0	11.0	42.0	28.0	18.0	--	26.0	24.0	14.0
OU2MW-01I2	5.0	5.0	5.0	9.0	5.0	7.0	24.0	21.0	--	2.0	4.1	4.9
OU2MW-01S	4.8	4.0	2.0	0.0	0.0	3.0	5.0	4.0	--	25.0	19.0	18.6
OU2MW-01WT	10.0	20.0	19.0	10.0	--	22.0	5.0	21.0	--	--	--	0.0
OU2MW-02I	2.1	--	--	1.0	--	--	0.0	--	--	--	--	0.0
OU2MW-02I2	0.0	--	--	0.0	--	--	0.0	--	--	--	--	0.0
OU2MW-02S	10.5	--	--	3.7	--	--	0.0	--	--	--	--	4.5
OU2MW-03D	0.0	--	--	0.0	--	--	0.0	--	--	--	--	0.0
OU2MW-03I	13.6	--	--	20.0	--	--	20.0	--	--	--	--	4.1
OU2MW-03I2	0.0	--	--	0.0	--	--	0.0	--	--	--	--	17.3
OU2MW-03S	0.0	--	--	0.0	--	--	0.0	--	--	--	--	0.0
OU2MW-04D	0.0	--	--	0.0	--	--	0.0	--	--	--	--	0.0
OU2MW-04I	4.7	--	--	0.0	--	--	0.3	--	--	--	--	0.0
OU2MW-04I2	0.0	--	--	0.0	--	--	0.0	--	--	--	--	0.0
OU2MW-04S	0.0	--	--	0.0	--	--	0.1	--	--	--	--	0.0
OU2MW-04WT	--	--	--	4.6	--	--	6.7	--	--	--	--	2.6
OU2MW-08D	0.0	--	--	0.0	--	--	--	0.4	--	--	0.0	--
OU2MW-08I	0.0	--	--	0.0	--	--	--	0.3	--	--	0.0	--
OU2MW-08I2	0.0	--	--	0.0	--	--	--	0.4	--	--	0.0	--
OU2MW-08S	0.0	--	--	--	--	--	--	0.4	--	--	0.0	--
OU2MW-08WT	--	--	--	8.0	--	--	--	--	1.3	--	1.3	--
Oxidation Reduction Potent												
BBMW-25D	288	231	253	218	220	235	238	158	--	231	115	177
BBMW-25I	107	64	55	11	-6	-30	-41	-60	--	6	-17	25
BBMW-25S	193	171	195	149	229	207	172	150	--	193	118	129
OU2MW-01D	133	26	55	97	109	95	162	110	--	105	55	86
OU2MW-01I	184	156	190	172	222	177	177	171	--	225	157	139
OU2MW-01I2	174	87	144	155	175	115	176	157	--	197	203	116
OU2MW-01S	-15	-77	-51	-34	-23	7	-3	-35	--	-11	-15	-18
OU2MW-01WT	135	130	171	162	--	216	150	72	--	176	121	41
OU2MW-02D	112	--	--	78	--	--	99	--	--	--	--	74
OU2MW-02I	73	--	--	22	--	--	-17	--	--	--	--	-40
OU2MW-02I2	18	--	--	-11	--	--	3	--	--	--	--	-17
OU2MW-02S	65	--	--	75	--	--	-61	--	--	--	--	-38
OU2MW-03D	78	--	--	41	--	--	35	--	--	--	--	48
OU2MW-03I	177	--	--	203	--	--	193	--	--	--	--	170
OU2MW-03I2	16	--	--	13	--	--	11	--	--	--	--	45
OU2MW-03S	-130	--	--	0.134	--	--	-126	--	--	--	--	-153
OU2MW-04D	22	--	--	-37	--	--	-43	--	--	--	--	-31
OU2MW-04I	48	--	--	22	--	--	-4	--	--	--	--	9
OU2MW-04I2	10	--	--	130	--	--	-13	--	--	--	--	-44
OU2MW-04S	-94	--	--	-133	--	--	-130	--	--	--	--	-153
OU2MW-04WT	--	--	--	177	--	--	163	--	--	--	--	117
OU2MW-08D	91	--	--	57	--	--	--	94	--	--	25	--
OU2MW-08I	-28	--	--	-39	--	--	--	-26	--	--	-36	--
OU2MW-08I2	-94	--	--	-114	--	--	--	-116	--	--	-106	--
OU2MW-08S	-131	--	--	--	--	--	--	-136	--	--	-116	--
OU2MW-08WT	--	--	--	150	--	--	--	--	139	--	139	--

Table 3-1
Summary of Groundwater Parameter Data
Montauk Highway Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Monitoring Well	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Aug-08	Jul-08	Aug-08	Sep-08
pH (std. units)												
BBMW-25D	5.27	4.98	4.85	5.13	5.31	5.16	4.74	4.99	--	5.37	5.37	5.45
BBMW-25I	6.22	6.29	6.40	5.87	5.98	6.51	6.34	6.09	--	6.25	6.08	6.12
BBMW-25S	6.19	6.36	5.58	5.89	5.79	6.10	6.16	5.83	--	6.17	6.15	6.14
OU2MW-01D	5.32	5.81	6.85	5.33	5.31	5.75	5.39	5.22	--	5.36	5.22	5.60
OU2MW-01I	6.00	6.01	5.64	5.73	5.41	6.11	5.94	5.63	--	5.93	5.79	5.97
OU2MW-01I2	5.83	6.06	6.59	5.80	5.65	6.20	5.96	5.37	--	5.85	5.77	6.01
OU2MW-01S	6.42	6.76	7.13	5.87	5.59	6.23	5.73	5.83	--	6.01	5.93	5.91
OU2MW-01WT	6.67	6.31	6.17	6.08	--	6.56	6.14	6.09	--	6.40	6.28	6.41
OU2MW-02D	5.34	--	--	5.50	--	--	5.07	--	--	--	--	5.33
OU2MW-02I	6.16	--	--	5.98	--	--	5.74	--	--	--	--	6.19
OU2MW-02I2	6.16	--	--	6.01	--	--	6.30	--	--	--	--	5.98
OU2MW-02S	6.29	--	--	6.40	--	--	6.32	--	--	--	--	6.12
OU2MW-03D	5.72	--	--	5.67	--	--	5.87	--	--	--	--	5.30
OU2MW-03I	5.52	--	--	5.38	--	--	5.41	--	--	--	--	5.40
OU2MW-03I2	6.01	--	--	5.83	--	--	5.89	--	--	--	--	5.45
OU2MW-03S	7.00	--	--	6.23	--	--	6.45	--	--	--	--	6.58
OU2MW-04D	6.16	--	--	6.31	--	--	6.37	--	--	--	--	5.98
OU2MW-04I	6.04	--	--	5.75	--	--	6.06	--	--	--	--	5.90
OU2MW-04I2	6.54	--	--	6.01	--	--	6.34	--	--	--	--	6.00
OU2MW-04S	6.96	--	--	6.36	--	--	6.44	--	--	--	--	6.45
OU2MW-04WT	--	--	--	5.84	--	--	5.84	--	--	--	--	5.93
OU2MW-08D	5.51	--	--	5.60	--	--	--	5.18	--	--	5.52	--
OU2MW-08I	6.72	--	--	5.99	--	--	--	5.96	--	--	6.05	--
OU2MW-08I2	7.30	--	--	6.23	--	--	--	6.33	--	--	6.38	--
OU2MW-08S	7.70	--	--	--	--	--	--	6.44	--	--	6.45	--
OU2MW-08WT	--	--	--	6.30	--	--	--	--	6.30	--	6.30	--
Teperature (deg C)												
BBMW-25D	11.2	10.1	8.8	7.9	11.6	15.7	15.1	18.6	--	16.4	19.5	18.0
BBMW-25I	13.1	11.5	11.3	11.4	12.3	16.7	19.9	18.9	--	17.6	19.4	18.1
BBMW-25S	14.9	11.6	8.5	9.3	9.9	15.7	16.8	19.8	--	20.1	20.3	20.9
OU2MW-01D	13.7	11.8	7.9	11.9	12.2	16.9	17.1	20.7	--	20.8	20.0	19.8
OU2MW-01I	12.2	10.4	9.5	12.4	11.6	18.6	15.8	19.0	--	19.9	20.1	21.6
OU2MW-01I2	13.6	12.3	7.6	11.4	12.0	16.6	15.3	21.3	--	21.7	15.3	17.6
OU2MW-01S	12.3	10.3	9.8	12.3	13.0	15.4	15.9	20.2	--	20.9	16.3	21.6
OU2MW-01WT	14.3	10.6	8.0	7.3	--	12.0	17.2	19.9	--	21.8	21.0	22.2
OU2MW-02D	10.7	--	--	9.3	--	--	11.7	--	--	--	--	15.5
OU2MW-02I	11.4	--	--	8.5	--	--	13.6	--	--	--	--	19.6
OU2MW-02I2	11.6	--	--	9.7	--	--	12.2	--	--	--	--	15.9
OU2MW-02S	11.2	--	--	7.6	--	--	13.5	--	--	--	--	21.2
OU2MW-03D	13.0	--	--	11.1	--	--	12.7	--	--	--	--	15.7
OU2MW-03I	13.8	--	--	12.4	--	--	13.7	--	--	--	--	16.1
OU2MW-03I2	13.3	--	--	11.6	--	--	12.9	--	--	--	--	15.8
OU2MW-03S	15.0	--	--	12.7	--	--	13.0	--	--	--	--	17.3
OU2MW-04D	9.2	--	--	9.1	--	--	14.8	--	--	--	--	19.4
OU2MW-04I	11.5	--	--	11.7	--	--	15.2	--	--	--	--	18.9
OU2MW-04I2	11.7	--	--	9.1	--	--	14.2	--	--	--	--	20.1
OU2MW-04S	10.5	--	--	13.9	--	--	14.2	--	--	--	--	19.0
OU2MW-04WT	--	--	--	4.6	--	--	13.9	--	--	--	--	21.1
OU2MW-08D	13.8	--	--	11.8	--	--	--	14.3	--	--	16.1	--
OU2MW-08I	14.2	--	--	13.2	--	--	--	14.6	--	--	16.1	--
OU2MW-08I2	13.9	--	--	12.5	--	--	--	14.7	--	--	16.1	--
OU2MW-08S	16.0	--	--	--	--	--	--	15.0	--	--	16.6	--
OU2MW-08WT	--	--	--	10.5	--	--	--	--	20.9	--	20.9	--

Notes:
- Not Measured
mS/cm - milli-siemens per centimeter
mg/L - milligrams/Liter
mV - milli-volt

Table 3-2
Summary of Groundwater Parameter Data
Manatuck Lane Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Monitoring Well	Apr-04	Aug-04	Dec-04	Mar-05	Jun-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
Conductivity (mS/cm)																					
GMP-01	--	0.472	0.369	0.413	0.663	0.458	--	--	--	0.785	--	0.603	--	--	0.427	--	0.442	--	--	--	0.866
GMP-02	0.479	0.391	0.440	0.493	0.612	0.441	--	--	--	0.895	--	0.613	--	--	0.500	--	0.467	--	--	--	0.640
GMP-04	0.442	0.676	0.409	0.325	0.529	0.342	--	--	--	0.650	--	0.605	--	--	0.550	--	0.433	--	--	--	0.742
OU2MW-06	--	--	--	--	--	--	--	--	0.214	--	0.152	0.178	0.188	0.159	0.095	0.086	0.133	0.118	0.064	0.259	0.171
OU2MW-06S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	--	--	--	--	--	--	--	--	--	--	0.413	--	--	--	0.249	0.356	0.274	0.279	0.307	0.549	0.289
OU2MW-07S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (mg/L)																					
GMP-01	--	0.0	0.0	0.3	0.0	0.0	--	--	--	0.0	--	0.0	--	--	1.0	--	0.0	--	--	--	1.2
GMP-02	0.0	0.0	0.0	0.3	0.0	0.0	--	--	--	0.0	--	11.3	--	--	20.0	--	20.0	--	--	--	15.0
GMP-04	0.0	0.0	0.0	0.3	0.0	0.0	--	--	--	0.0	--	0.0	--	--	1.2	--	0.0	--	--	--	1.2
OU2MW-06	--	--	--	--	--	--	--	--	0.0	--	0.0	0.0	0.1	25.0	26.0	41.0	19.0	30.0	49.0	51.0	35.0
OU2MW-06S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	--	--	--	--	--	--	--	--	--	--	7.0	--	--	--	40.0	6.0	31.0	36.0	43.0	40.0	35.0
OU2MW-07S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential (ORP)																					
GMP-01	--	-155	-138	-149	-159	-163	--	--	--	-156	--	-164	--	--	-160	--	-174	--	--	--	-168
GMP-02	-127	-106	-93	-124	-108	-91	--	--	--	-108	--	82	--	--	109	--	107	--	--	--	114
GMP-04	-119	-123	-118	-126	-141	-142	--	--	--	-139	--	-144	--	--	-132	--	-93	--	--	--	-59
OU2MW-06	--	--	--	--	--	--	--	--	-344	--	-104	-105	19	218	269	318	191	167	171	150	239
OU2MW-06S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	--	--	--	--	--	--	--	--	--	--	7	--	--	--	203	204	140	138	150	101	230
OU2MW-07S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
pH (std. units)																					
GMP-01	--	6.84	6.80	6.74	6.85	6.89	--	--	--	6.75	--	6.81	--	--	7.10	--	6.93	--	--	--	7.28
GMP-02	6.79	6.53	6.63	6.55	6.63	6.61	--	--	--	6.55	--	6.08	--	--	6.20	--	6.28	--	--	--	6.63
GMP-04	6.91	6.74	6.66	6.69	6.83	6.77	--	--	--	6.75	--	6.75	--	--	6.75	--	6.45	--	--	--	6.82
OU2MW-06	--	--	--	--	--	--	--	--	7.68	--	6.87	6.73	6.28	5.36	5.04	4.69	5.61	5.98	6.05	6.11	6.47
OU2MW-06S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	--	--	--	--	--	--	--	--	--	--	6.33	--	--	--	5.68	5.61	6.10	6.39	6.21	6.56	6.35
OU2MW-07S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature (deg C)																					
GMP-01	--	16.7	12.6	11.9	14.3	16.3	--	--	--	13.5	--	12.1	--	--	14.1	--	15.6	--	--	--	14.3
GMP-02	12.3	15.8	12.1	10.0	13.9	15.3	--	--	--	13.3	--	12.4	--	--	13.6	--	14.9	--	--	--	13.1
GMP-04	11.9	16.1	13.2	11.1	13.4	16.4	--	--	--	15.2	--	11.9	--	--	13.3	--	16.5	--	--	--	15.5
OU2MW-06	--	--	--	--	--	--	--	--	14.7	--	12.0	11.9	10.7	13.9	14.5	16.8	14.7	15.4	14.4	13.7	11.7
OU2MW-06S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	--	--	--	--	--	--	--	--	--	--	12.3	--	--	--	14.8	17.0	15.7	16.7	15.7	15.4	13.4
OU2MW-07S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3-2
Summary of Groundwater Parameter Data
Manatuck Lane Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Monitoring Well	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
Conductivity (mS/cm)																				
GMP-01	--	--	--	0.631	0.562	--	--	0.263	--	--	0.607	--	0.660	--	--	--	--	--	0.900	--
GMP-02	--	--	--	0.598	0.771	--	--	0.586	--	--	0.756	--	0.511	--	--	--	--	--	0.412	--
GMP-04	--	--	--	--	0.524	--	--	0.450	--	--	0.500	--	0.489	--	--	--	--	--	0.733	--
OU2MW-06	0.429	0.437	0.329	0.327	0.284	--	0.225	0.314	0.098	0.315	0.308	0.274	0.313	0.440	0.302	0.419	0.340	0.544	0.502	0.120
OU2MW-06S	--	--	--	--	--	0.294	--	0.169	0.138	0.216	0.166	0.222	0.196	--	0.420	0.628	0.604	0.391	0.450	0.157
OU2MW-07	0.511	0.491	0.319	0.437	0.531	--	0.334	0.365	0.339	0.339	0.467	0.421	0.358	0.420	0.274	0.294	0.287	0.597	0.614	0.293
OU2MW-07S	--	--	--	--	--	0.167	--	0.126	0.116	0.112	0.166	0.253	0.139	--	0.407	0.442	0.424	0.329	0.306	0.128
Dissolved Oxygen (mg/L)																				
GMP-01	--	--	--	0.0	1.1	--	--	0.0	--	--	0.0	--	2.8	--	--	--	--	--	0.0	--
GMP-02	--	--	--	20.0	20.0	--	--	20.0	--	--	20.0	--	20.0	--	--	--	--	--	20.0	--
GMP-04	--	--	--	--	0.8	--	--	0.0	--	--	0.0	--	5.4	--	--	--	--	--	19.0	--
OU2MW-06	29.0	20.0	28.0	35.0	30.0	--	23.0	23.0	23.0	30.0	32.0	40.0	25.0	16.0	14.0	7.0	7.0	22.0	30.0	23.0
OU2MW-06S	--	--	--	--	--	15.7	--	4.0	8.0	15.0	16.0	16.0	8.0	--	27.0	27.0	19.0	5.9	9.0	10.0
OU2MW-07	31.0	34.0	40.0	36.0	37.0	--	12.0	36.0	29.0	34.0	32.0	28.0	25.0	22.0	13.0	8.0	13.0	32.0	29.0	34.0
OU2MW-07S	--	--	--	--	--	20.0	--	10.9	17.0	14.0	13.0	8.0	8.0	--	38.0	35.0	29.0	18.0	14.0	15.0
Oxidation Reduction Potential																				
GMP-01	--	--	--	-249	-168	--	--	-165	--	--	-129	--	-159	--	--	--	--	--	-231	--
GMP-02	--	--	--	8	164	--	--	130	--	--	346	--	138	--	--	--	--	--	176	--
GMP-04	--	--	--	--	-37	--	--	-31	--	--	-59	--	-1	--	--	--	--	--	141	--
OU2MW-06	52	-171	180	232	229	--	198	53	216	350	166	230	220	215	206	150	120	210	147	146
OU2MW-06S	--	--	--	--	--	349	--	186	196	358	133	208	159	--	221	180	144	177	110	120
OU2MW-07	57	-154	228	185	198	--	180	62	201	222	212	204	210	229	219	211	169	232	179	150
OU2MW-07S	--	--	--	--	--	399	--	169	175	206	210	192	190	--	225	189	164	231	170	158
pH (std. units)																				
GMP-01	--	--	--	6.71	6.94	--	--	7.81	--	--	6.96	--	7.27	--	--	--	--	--	6.60	--
GMP-02	--	--	--	6.05	6.30	--	--	6.08	--	--	5.73	--	6.41	--	--	--	--	--	5.72	--
GMP-04	--	--	--	--	6.44	--	--	7.05	--	--	6.55	--	5.96	--	--	--	--	--	5.93	--
OU2MW-06	5.56	5.68	6.29	5.95	6.03	--	5.74	6.25	5.57	5.08	5.47	6.16	5.59	5.79	6.48	6.50	6.04	5.95	5.88	5.85
OU2MW-06S	--	--	--	--	--	6.47	--	6.83	5.92	5.32	5.62	6.47	6.03	--	6.16	5.85	5.88	6.21	6.28	6.01
OU2MW-07	6.10	6.03	6.52	5.95	6.19	--	5.83	6.62	5.56	5.87	6.01	6.43	5.74	5.84	6.10	5.88	5.54	5.80	5.67	5.87
OU2MW-07S	--	--	--	--	--	5.88	--	5.84	5.46	5.77	5.76	6.47	5.65	--	6.27	5.85	5.75	5.75	5.40	5.74
Temperature (deg C)																				
GMP-01	--	--	--	12.2	13.0	--	--	18.6	--	--	10.1	--	11.5	--	--	--	--	--	18.8	--
GMP-02	--	--	--	11.9	11.8	--	--	17.4	--	--	12.7	--	10.3	--	--	--	--	--	17.1	--
GMP-04	--	--	--	--	11.8	--	--	19.5	--	--	14.8	--	11.6	--	--	--	--	--	18.5	--
OU2MW-06	12.2	7.5	11.8	18.6	18.0	--	18.3	16.5	17.3	11.8	9.2	8.1	9.3	13.5	10.3	13.3	21.9	16.5	19.8	18.8
OU2MW-06S	--	--	--	--	--	18.8	--	20.9	18.9	11.5	7.0	4.8	6.1	--	11.9	12.3	18.9	21.6	24.4	19.2
OU2MW-07	12.8	10.3	11.9	14.0	12.2	--	16.7	18.2	17.2	14.7	11.5	11.3	10.4	11.5	11.1	13.2	21.0	14.7	19.5	17.4
OU2MW-07S	--	--	--	--	--	16.6	--	22.0	19.3	15.0	9.7	7.9	6.7	--	13.0	14.0	19.1	18.5	22.7	20.2

Notes:
- Not Measured
mS/cm - milli-siemens per centimeter
mg/L - milligrams/Liter
mV - milli-volt

Table 3-3
Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Date of Measurement	Time of Measurement	Well Casing Diameter (inches)	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-01S	8/4/2008	11:41	2.00	19.65	7.43	12.22	
BBMW-01I	8/4/2008	11:42	2.00	19.23	7.02	12.21	
BBMW-01D	8/4/2008	11:45	2.00	19.20	6.96	12.24	
BBMW-02S	8/4/2008	14:17	2.00	16.83	5.60	11.23	
BBMW-02I	8/4/2008	14:17	2.00	16.96	5.72	11.24	
BBMW-02D	8/4/2008	14:18	2.00	17.13	5.92	11.21	
BBMW-03S	8/5/2008	17:35	2.00	11.33	3.90	7.43	
BBMW-03I	8/5/2008	17:36	2.00	11.19	3.76	7.43	
BBMW-03D	8/5/2008	17:37	2.00	11.24	3.81	7.43	
BBMW-04D	8/4/2008	11:21	2.00	19.75	9.03	10.72	
BBMW-07S	8/4/2008	17:43	2.00	12.80	7.37	5.43	
BBMW-07I	8/4/2008	17:44	2.00	12.60	7.17	5.43	
BBMW-07D	8/4/2008	17:45	2.00	12.58	7.13	5.45	
BBMW-15S	8/4/2008	14:03	2.00	15.92	5.99	9.93	
BBMW-15I	8/4/2008	14:05	2.00	15.82	5.92	9.90	
BBMW-15I2	8/4/2008	14:04	2.00	15.79	5.89	9.90	
BBMW-15D	8/4/2008	14:05	2.00	15.63	5.74	9.89	
BBMW-16S	8/5/2008	15:49	2.00	19.04	9.75	9.29	
BBMW-16I	8/5/2008	15:50	2.00	19.43	10.12	9.31	
BBMW-16D	8/5/2008	15:51	2.00	18.97	9.61	9.36	
BBMW-23S	8/4/2008	11:31	1.00	19.13	6.51	12.62	
BBMW-23I	8/4/2008	11:33	1.00	19.20	6.58	12.62	
BBMW-23D	8/4/2008	11:32	1.00	19.17	6.52	12.65	
BBMW-23D2	8/4/2008	11:34	2.00	18.61	5.99	12.62	
BBMW-24S	8/4/2008	11:57	1.00	18.14	7.77	10.37	
BBMW-24I	8/4/2008	11:58	1.00	18.01	7.65	10.36	
BBMW-24D	8/4/2008	12:02	1.00	17.76	7.41	10.35	
BBMW-25S	NM	NM	1.00	12.80	NM	NC	Access Issues
BBMW-25I	NM	NM	1.00	12.79	NM	NC	
BBMW-25D	NM	NM	1.00	12.70	NM	NC	
GM-03S	8/4/2008	13:36	1.25	15.70	6.55	9.15	
GM-03I	8/4/2008	13:37	1.25	15.61	6.48	9.13	
GM-03D	8/4/2008	13:38	1.25	15.78	6.62	9.16	
GM-05S	8/5/2008	12:02	1.25	5.73	2.85	2.88	
GM-05I	8/5/2008	12:01	1.25	5.92	2.90	3.02	
GM-05D	8/5/2008	12:07	1.25	7.87	0.81	NC	Artesian Conditions
GM-06S	8/5/2008	15:16	1.25	9.52	6.17	3.35	
GM-06I	8/5/2008	15:17	1.25	9.56	6.20	3.36	
GM-06D	8/5/2008	15:18	1.25	9.66	6.29	3.37	
GM-07S	8/5/2008	15:39	1.25	10.61	8.04	2.57	
GM-07I	8/5/2008	15:40	1.25	10.53	7.97	2.56	
GM-07D	8/5/2008	15:40	1.25	10.75	8.18	2.57	
GM-08S	8/5/2008	11:29	1.25	3.90	2.91	0.99	
GM-08I	8/5/2008	11:29	1.25	4.05	3.05	1.00	
GM-08D	8/5/2008	11:30	1.25	3.91	2.91	1.00	
GM-09S	8/5/2008	15:23	1.25	3.22	2.30	0.92	
GM-09I	8/5/2008	15:24	1.25	3.41	2.49	0.92	
GM-09D	8/5/2008	16:00	1.25	3.09	2.16	0.93	
GM-10AD	8/5/2008	15:34	2.00	8.07	6.32	1.75	
GMP-01	8/5/2008	11:03	0.75	6.58	3.31	3.27	
GMP-02	8/5/2008	11:12	0.75	6.28	3.70	2.58	
GMP-04	8/5/2008	14:12	0.75	3.74	2.09	1.65	
MW-16AS	8/4/2008	14:11	2.00	16.16	5.94	10.22	
OU2-IW01S	8/5/2008	11:09	2.00	5.95	3.18	2.77	
OU2MW-01WT	NM	NM	1.00	12.86	NM	NC	Access Issues
OU2MW-01S	NM	NM	2.00	12.41	NM	NC	Access Issues
OU2MW-01I	NM	NM	2.00	12.47	NM	NC	Access Issues
OU2MW-01I2	NM	NM	2.00	12.28	NM	NC	Access Issues
OU2MW-01D	NM	NM	2.00	12.35	NM	NC	Access Issues
OU2MW-02S	NM	NM	2.00	11.58	NM	NC	Access Issues
OU2MW-02I	NM	NM	2.00	11.59	NM	NC	Access Issues

Table 3-3
Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well ID	Date of Measurement	Time of Measurement	Well Casing Diameter (inches)	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OU2MW-02I2	NM	NM	2.00	11.74	NM	NC	Access Issues
OU2MW-02D	NM	NM	2.00	11.53	NM	NC	Access Issues
OU2MW-03S	NM	NM	2.00	11.23	NM	NC	Access Issues
OU2MW-03I	NM	NM	2.00	11.15	NM	NC	Access Issues
OU2MW-03I2	NM	NM	2.00	11.15	NM	NC	Access Issues
OU2MW-03D	NM	NM	2.00	11.14	NM	NC	Access Issues
OU2MW-04WT	8/5/2008	17:22	1.00	10.34	4.22	6.12	
OU2MW-04S	8/5/2008	17:23	2.00	10.18	4.06	6.12	
OU2MW-04I	8/5/2008	17:24	2.00	10.10	3.91	6.19	
OU2MW-04I2	8/5/2008	17:28	2.00	10.05	3.92	6.13	
OU2MW-04D	8/5/2008	17:25	2.00	10.08	3.94	6.14	
OU2MW-05	8/5/2008	15:09	2.00	6.32	2.40	3.92	
OU2MW-06	8/5/2008	14:08	2.00	4.44	2.12	2.32	
OU2MW-06S	8/5/2008	14:07	2.00	4.83	2.48	2.35	
OU2MW-07	8/5/2008	14:03	2.00	5.34	3.17	2.17	
OU2MW-07S	8/5/2008	14:02	2.00	5.47	3.25	2.22	
OU2MW-08WT	8/4/2008	13:48	2.00	14.93	6.89	8.04	
OU2MW-08S	8/4/2008	13:48	2.00	14.77	6.73	8.04	
OU2MW-08I	8/4/2008	13:50	2.00	14.70	6.68	8.02	
OU2MW-08I2	8/4/2008	13:50	2.00	14.78	6.72	8.06	
OU2MW-08D	8/4/2008	13:51	2.00	14.87	6.12	8.75	
OU2MW-09	8/5/2008	17:34	2.00	11.26	3.79	7.47	
OU2MW-10S	8/5/2008	11:18	2.00	5.31	2.93	2.38	
OU2MW-10I	8/5/2008	11:19	2.00	5.42	3.07	2.35	
OU2MW-10D	8/5/2008	11:19	2.00	5.43	3.10	2.33	
OU2MW-11S	8/5/2008	15:00	2.00	6.69	3.11	3.58	
OU2MW-11I	8/5/2008	15:01	2.00	6.72	3.15	3.57	
OU2MW-11I2	8/5/2008	15:01	2.00	6.53	2.98	3.55	
OU2MW-11D	8/5/2008	15:02	2.00	6.65	3.11	3.54	
OU2MW-12S	8/5/2008	14:50	2.00	5.70	2.69	3.01	
OU2MW-12I	8/5/2008	14:50	2.00	5.73	2.68	3.05	
OU2MW-12I2	8/5/2008	14:43	2.00	5.81	2.78	3.03	
OU2MW-12D	8/5/2008	14:44	2.00	5.59	2.57	3.02	
OU2MW-13S	8/5/2008	14:33	2.00	4.78	2.49	2.29	
OU2MW-13I	8/5/2008	14:34	2.00	4.81	2.51	2.30	
OU2MW-13D	8/5/2008	14:35	2.00	4.94	2.65	2.29	
OU2MW-14S	8/6/2008	6:29	1.00	14.58	6.80	7.78	
OU2MW-14I	8/6/2008	NM	1.00	14.75	6.71	8.04	
OU2MW-14I2	8/6/2008	NM	1.00	14.77	6.72	8.05	
OU2MW-15S	8/5/2008	11:38	2.00	4.80	2.43	2.37	
OU2MW-15I	8/5/2008	11:39	2.00	5.09	2.72	2.37	
OU2MW-15I2	8/5/2008	11:43	2.00	5.13	2.76	2.37	
OU2MW-15D	8/5/2008	11:44	2.00	5.21	2.84	2.37	
OU2MW-16S	8/5/2008	11:51	2.00	5.44	2.89	2.55	
OU2MW-16I	8/5/2008	11:52	2.00	5.31	2.83	2.48	
OU2MW-16I2	8/5/2008	11:53	2.00	5.31	2.82	2.49	
OU2MW-16D	8/5/2008	11:53	2.00	5.61	3.13	2.48	
OU2SW-01*	8/5/2008	14:14	NA	2.65	1.83	0.82	Boat Basin
BBSW-06*	8/5/2008	14:15	NA	2.08	1.23	0.85	Boat Basin
BBSW-07*	8/5/2008	14:25	NA	6.83	1.87	4.96	Weir

Notes:

1 - Well Elevations obtained from 2007 Survey or latter and reference NVGD88 datum

NS - 2007 Survey Data Not Available

MSL - Mean Sea Level

* - Surface Water Gauging Stations

Table 3-4
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well Identification	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)														
		Dec-78	Oct-92	Nov-99	Mar-02	Jun-02	Aug-02	Nov-02	Mar-03	Jul-03	Sep-03	Jan-04	Apr-04	Aug-04	Oct-04	Feb-05
BBMW-01S	5.0 - 15.0	NM	NM	12.33	NM	12.49	NM	12.70	13.34	13.09	12.38	12.67	14.11	12.10	12.51	13.16
BBMW-01I	32.0 - 42.0	NM	NM	12.29	NM	12.47	NM	12.69	13.32	13.07	12.35	12.65	14.09	12.08	12.49	13.14
BBMW-01D	68.5 - 78.5	NM	NM	12.33	NM	12.47	NM	12.75	14.40	13.12	12.37	12.68	14.14	12.11	12.51	13.16
BBMW-02S	5.0 - 15.0	NM	NM	11.45	11.29	11.34	NM	11.85	12.35	12.08	11.42	NM	13.10	11.16	11.52	NM
BBMW-02I	30.0 - 40.0	NM	NM	11.42	11.26	11.32	NM	11.83	12.33	12.07	11.41	NM	13.08	11.15	11.50	NM
BBMW-02D	73.0 - 83.0	NM	NM	11.40	11.24	11.30	NM	11.81	NM	12.05	11.38	NM	13.08	11.12	11.48	NM
BBMW-03S	3.0 - 13.0	NM	NM	7.61	7.51	7.54	NM	8.05	8.23	8.25	7.46	7.74	9.01	7.42	7.72	8.25
BBMW-03I	30.0 - 40.0	NM	NM	7.60	7.52	7.53	NM	8.03	8.24	8.24	7.48	7.73	8.97	7.41	7.72	8.24
BBMW-03D	52.0 - 62.0	NM	NM	7.62	7.52	7.58	NM	8.08	8.27	8.26	7.45	7.77	8.99	7.44	7.75	8.26
BBMW-04D	63.0 - 73.0	NM	NM	13.55	13.28	13.98	12.03	14.10	14.57	14.40	13.54	13.96	15.48	13.38	13.84	14.51
BBMW-07S	5.0 - 15.0	NM	NM	5.29	5.16	5.58	NM	5.90	6.05	5.92	5.45	NM	6.83	5.27	5.71	5.98
BBMW-07I	30.0 - 40.0	NM	NM	5.28	5.13	5.60	NM	5.92	6.06	5.91	5.44	NM	6.83	5.26	5.72	5.98
BBMW-07D	55.0 - 65.0	NM	NM	5.29	5.14	5.59	NM	5.92	NM	5.91	5.47	NM	6.82	5.27	5.73	5.98
BBMW-15S	5.0 - 15.0	NM	NM	10.21	10.06	10.10	NM	10.57	10.93	10.71	10.15	10.46	11.72	9.86	10.18	10.84
BBMW-15I	35.0 - 45.0	NM	NM	10.06	10.02	10.07	NM	10.49	10.91	10.69	10.09	10.45	11.71	9.84	10.16	10.81
BBMW-15I2	23.0 - 28.0	NM	NM	10.14	9.89	9.93	NM	10.37	10.84	10.63	10.10	10.39	11.66	9.81	10.16	10.80
BBMW-15D	70.0 -80.0	NM	NM	10.16	10.01	10.06	NM	10.49	10.87	10.67	10.10	10.40	11.76	9.82	10.15	10.80
BBMW-16S	5.0 - 15.0	NM	NM	9.40	NM	NM	NM	12.82	NM	10.07	9.53	9.67	10.79	9.28	9.73	10.15
BBMW-16I	35.0 - 45.0	NM	NM	9.43	NM	NM	NM	9.85	10.28	10.10	9.56	9.70	10.82	9.32	9.76	10.15
BBMW-16D	68.0 - 78.0	NM	NM	9.42	NM	NM	NM	9.88	10.32	10.12	9.58	9.73	10.86	9.31	9.75	10.18
BBMW-23S	5.0 - 15.0	NM	NM	NM	NM	12.58	NM	13.16	13.78	13.51	12.80	13.09	14.55	12.51	12.93	NM
BBMW-23I	33.0 - 43.0	NM	NM	NM	NM	12.62	NM	13.15	13.78	13.50	12.79	13.08	14.55	12.50	12.93	NM
BBMW-23D	49.5 - 59.5	NM	NM	NM	NM	12.54	NM	13.16	13.78	13.52	12.80	13.10	14.55	12.53	12.94	NM
BBMW-23D2	63.0 - 73.0	NM	NM	NM	NM	12.80	NM	13.19	13.81	13.46	12.82	13.10	14.57	12.52	12.96	NM
BBMW-24S	4.0 - 14.0	NM	NM	NM	NM	10.36	NM	10.83	11.36	11.17	10.49	10.74	12.15	10.23	10.61	11.20
BBMW-24I	32.0 - 42.0	NM	NM	NM	NM	10.35	NM	10.83	11.36	11.15	10.48	10.74	12.15	10.22	10.60	11.20
BBMW-24D	59.5 - 69.5	NM	NM	NM	NM	10.36	NM	10.82	11.36	11.15	10.49	10.75	12.16	10.24	10.61	11.19
BBMW-25S	4.0 - 14.0	NM	NM	NM	NM	7.33	NM	7.85	8.22	8.03	7.32	7.60	8.98	7.23	7.62	8.13
BBMW-25I	25.0 - 35.0	NM	NM	NM	NM	7.36	NM	7.87	8.25	8.04	7.35	7.63	8.99	7.25	7.64	8.16
BBMW-25D	62.0 - 72.0	NM	NM	NM	NM	7.35	NM	NM	8.22	7.98	7.28	7.56	8.92	7.18	7.55	8.08
GM-03S	6.78 - 21.78	8.95	9.13	9.34	NM	9.53	NM	9.68	10.00	10.02	9.39	9.59	10.83	9.14	9.53	NM
GM-03I	30.03 - 45.03	8.88	8.95	9.18	NM	9.35	NM	9.51	9.84	9.83	9.22	9.42	10.67	8.97	9.36	NM
GM-03D	53.18 - 68.18	9.07	9.16	9.27	NM	9.45	NM	9.63	9.93	9.94	9.32	9.53	10.77	9.07	9.46	NM
GM-05S	5.1 - 20.1	2.12	2.48	2.49	2.52	3.21	NM	3.35	2.80	3.21	2.62	2.49	3.74	2.68	3.36	3.31
GM-05D	60.95 - 75.95	7.35	9.04	7.87	NM	7.03	NM	7.42	7.51	7.50	6.83	7.18	NM	8.97	7.58	7.72
GM-10AD	unknown	NM	NM	NM	1.12	1.86	NM	1.92	1.62	1.82	1.76	1.08	2.43	1.51	2.20	1.92
GMP-01	25.0 - 30.0	NM	NM	NM	2.97	3.65	NM	3.78	3.26	3.66	3.07	3.04	4.18	3.15	3.78	3.73
GMP-02	18.0 - 23.0	NM	NM	NM	2.25	2.95	NM	3.05	2.44	2.91	2.36	2.24	3.37	2.40	3.15	3.04
GMP-04	15.5 - 20.5	NM	NM	NM	0.96	1.46	NM	1.18	0.47	1.40	1.01	1.11	1.17	0.93	2.11	1.72
MW-16AS	3.0 - 13.0	NM	NM	10.45	10.30	10.36	NM	10.82	11.21	10.99	10.44	NM	12.00	10.10	10.44	11.10

Table 3-4
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well Identification	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)														Minimum	Average	Maximum
		May-05	Aug-05	Nov-05	Feb-06	May-06	July/Aug-06	Nov-06	Jan-07	May-07	July/Aug-07	Oct/Nov-07	Jan-08	Apr/May-08	Aug-08			
BBMW-01S	5.0 - 15.0	13.03	11.91	13.41	13.36	12.95	12.64	14.10	13.03	13.36	12.63	11.91	12.78	13.27	12.22	11.91	12.86	14.11
BBMW-01I	32.0 - 42.0	13.01	11.89	13.49	13.34	12.94	12.63	13.09	13.01	13.34	12.62	11.90	12.77	13.25	12.21	11.89	12.81	14.09
BBMW-01D	68.5 - 78.5	13.07	11.92	13.50	13.36	12.96	12.64	13.10	13.02	13.38	12.64	11.91	12.79	13.29	12.24	11.91	12.87	14.40
BBMW-02S	5.0 - 15.0	12.06	10.99	12.45	12.36	12.00	11.62	12.12	12.07	12.35	11.56	11.00	11.85	12.23	11.23	10.99	11.81	13.10
BBMW-02I	30.0 - 40.0	12.03	10.96	12.43	12.32	11.95	11.59	12.08	12.02	12.35	11.55	11.00	11.85	12.24	11.24	10.96	11.79	13.08
BBMW-02D	73.0 - 83.0	12.01	10.93	12.41	12.31	11.95	11.58	12.06	12.02	12.33	11.54	10.98	11.84	12.22	11.21	10.93	11.75	13.08
BBMW-03S	3.0 - 13.0	8.09	7.36	8.43	8.29	8.00	7.65	8.19	8.02	8.27	7.71	7.36	7.92	8.21	7.43	7.36	7.91	9.01
BBMW-03I	30.0 - 40.0	8.09	7.75	8.82	8.29	8.00	7.64	7.99	8.01	8.28	7.71	7.37	7.89	8.22	7.43	7.37	7.93	8.97
BBMW-03D	52.0 - 62.0	8.12	7.35	8.44	8.31	8.03	NM	8.14	8.05	8.32	7.74	7.38	7.92	8.23	7.43	7.35	7.94	8.99
BBMW-04D	63.0 - 73.0	14.39	13.18	14.96	14.67	14.31	14.01	14.48	14.39	NM	NM	13.28	14.20	14.78	10.72	10.72	13.92	15.48
BBMW-07S	5.0 - 15.0	5.80	5.12	6.29	NM	5.75	5.52	5.89	5.63	NM	NM	4.18	5.63	5.97	5.43	4.18	5.65	6.83
BBMW-07I	30.0 - 40.0	5.83	5.13	6.29	NM	5.76	5.53	5.91	5.63	NM	NM	5.16	5.57	5.96	5.43	5.13	5.70	6.83
BBMW-07D	55.0 - 65.0	5.82	5.11	6.29	NM	5.77	5.51	5.94	5.64	NM	NM	5.15	5.62	5.98	5.45	5.11	5.69	6.82
BBMW-15S	5.0 - 15.0	10.69	9.71	11.09	10.98	10.66	10.23	10.75	10.71	11.01	10.26	9.81	10.57	10.91	9.93	9.71	10.50	11.72
BBMW-15I	35.0 - 45.0	10.67	9.66	11.03	10.91	10.61	10.18	10.73	10.66	10.98	10.27	9.78	10.54	10.85	9.90	9.66	10.46	11.71
BBMW-15I2	23.0 - 28.0	10.60	9.66	11.05	10.93	10.62	10.21	10.73	10.67	10.98	10.19	9.77	10.60	10.87	9.90	9.66	10.44	11.66
BBMW-15D	70.0 -80.0	10.63	9.66	11.04	10.92	10.62	10.19	10.71	10.67	10.96	10.22	9.77	10.54	10.86	9.89	9.66	10.46	11.76
BBMW-16S	5.0 - 15.0	10.05	9.04	10.45	10.30	10.00	14.62	10.10	10.02	10.28	9.56	9.14	9.80	10.14	9.29	9.04	10.18	14.62
BBMW-16I	35.0 - 45.0	10.08	9.05	10.47	10.33	10.02	9.63	10.14	10.06	10.32	9.58	9.16	9.77	10.18	9.31	9.05	9.88	10.82
BBMW-16D	68.0 - 78.0	10.06	9.03	10.46	10.32	10.01	9.62	10.12	10.06	10.32	9.56	9.15	9.82	10.23	9.36	9.03	9.89	10.86
BBMW-23S	5.0 - 15.0	13.46	12.32	14.00	13.78	13.37	13.06	13.52	13.48	13.76	10.35	12.31	13.19	13.67	12.62	10.35	13.12	14.55
BBMW-23I	33.0 - 43.0	13.46	12.31	13.92	13.79	13.38	13.07	13.51	13.47	13.76	10.48	12.31	13.19	13.68	12.62	10.48	13.12	14.55
BBMW-23D	49.5 - 59.5	13.47	12.32	13.95	13.79	13.39	13.08	13.53	13.49	13.81	10.29	12.28	13.19	13.71	12.65	10.29	13.12	14.55
BBMW-23D2	63.0 - 73.0	13.47	12.32	13.93	13.78	13.38	13.07	13.52	13.48	13.76	10.31	12.31	13.16	13.68	12.62	10.31	13.13	14.57
BBMW-24S	4.0 - 14.0	11.09	10.04	11.53	11.39	11.02	10.67	11.09	11.06	11.41	9.41	10.12	10.86	11.32	10.37	9.41	10.86	12.15
BBMW-24I	32.0 - 42.0	11.09	10.02	11.51	11.37	10.99	10.66	11.07	11.04	11.43	9.44	10.11	10.82	11.30	10.36	9.44	10.85	12.15
BBMW-24D	59.5 - 69.5	11.09	10.03	11.52	11.38	11.03	10.67	11.10	11.07	11.43	9.44	10.13	10.88	11.31	10.35	9.44	10.86	12.16
BBMW-25S	4.0 - 14.0	8.01	7.64	8.99	8.84	8.49	NM	8.55	8.53	8.84	NM	7.78	8.37	8.77	NC	7.23	8.15	8.99
BBMW-25I	25.0 - 35.0	8.02	7.66	8.99	8.84	8.49	NM	8.55	8.55	8.86	NM	NC	NC	NC	NC	7.25	8.14	8.99
BBMW-25D	62.0 - 72.0	7.97	NM	8.99	NM	8.49	NM	8.55	8.52	8.83	NM	7.76	8.46	8.75	NC	7.18	8.14	8.99
GM-03S	6.78 - 21.78	9.96	8.94	10.42	10.26	9.90	9.53	9.97	9.92	10.18	9.44	8.97	9.64	10.08	9.15	8.94	9.67	10.83
GM-03I	30.03 - 45.03	9.80	8.76	10.24	10.09	9.73	9.36	9.80	9.75	10.17	9.43	8.98	9.64	10.06	9.13	8.76	9.54	10.67
GM-03D	53.18 - 68.18	9.95	8.86	10.34	10.19	9.83	9.47	9.90	9.86	10.19	9.46	8.97	9.67	10.08	9.16	8.86	9.64	10.77
GM-05S	5.1 - 20.1	2.91	2.65	3.34	3.01	3.00	2.85	3.06	2.82	3.08	2.94	2.59	2.98	3.20	2.88	2.12	2.92	3.74
GM-05D	60.95 - 75.95	7.50	6.56	7.87	7.81	8.23	8.72	7.61	7.59	7.76	6.96	6.83	7.54	NC	NC	6.56	7.62	9.04
GM-10AD	unknown	1.41	1.57	2.08	1.67	1.72	1.74	NM	1.43	1.76	1.80	1.50	1.70	1.83	1.75	1.08	1.72	2.43
GMP-01	25.0 - 30.0	3.35	3.08	3.77	3.47	3.44	3.28	3.47	3.33	3.50	3.33	3.00	3.43	3.66	3.27	2.97	3.43	4.18
GMP-02	18.0 - 23.0	2.58	2.41	3.03	2.69	2.70	2.57	2.73	2.59	2.74	2.55	2.30	2.72	2.89	2.58	2.24	2.69	3.37
GMP-04	15.5 - 20.5	1.02	1.37	1.73	1.19	1.23	1.42	1.09	1.51	1.06	1.63	1.41	1.28	1.00	1.65	0.47	1.28	2.11
MW-16AS	3.0 - 13.0	10.96	9.93	11.34	11.23	10.92	10.48	11.02	10.98	11.27	10.47	10.11	10.92	11.16	10.22	9.93	10.77	12.00

Table 3-4
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well Identification	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)												Minimum	Average	Maximum
		Nov-05	Feb-06	May-06	July/Aug-06	Nov-06	Jan-07	May-07	July/Aug-07	Oct/Nov-07	Jan-08	Apr/May-08	Aug-08			
OU2-IW01S	3.0 - 8.0	NM	NM	NM	NM	NM	NM	NM	NM	2.50	2.91	2.97	2.77	2.50	2.79	2.97
OU2MW-01WT	3.0 - 8.0	NM	NM	NM	NM	NM	NM	NM	NM	7.74	8.29	8.70	NC	7.74	8.24	8.70
OU2MW-01S	20.0 - 25.0	8.79	8.62	8.30	NM	8.37	8.30	8.58	NM	7.56	8.12	8.51	NC	7.56	8.35	8.79
OU2MW-01I	35.0 - 40.0	8.82	8.65	8.28	NM	9.96	8.32	8.61	NM	7.56	8.17	8.52	NC	7.56	8.54	9.96
OU2MW-01I2	50.0 - 55.0	8.78	8.62	8.30	NM	8.36	8.40	8.59	NM	7.55	8.14	8.47	NC	7.55	8.36	8.78
OU2MW-01D	65.0 - 70.0	10.24	10.16	9.79	NM	8.23	9.89	10.06	NM	8.95	9.58	9.98	NC	8.23	9.65	10.24
OU2MW-02S	20.0 - 25.0	8.68	8.66	8.21	NM	8.31	8.31	8.51	NM	7.50	8.07	8.43	NC	7.50	8.30	8.68
OU2MW-02I	35.0 - 40.0	8.68	8.52	8.22	NM	8.26	8.23	8.51	NM	7.52	8.10	8.42	NC	7.52	8.27	8.68
OU2MW-02I2	50.0 - 55.0	8.67	8.51	8.21	NM	8.25	8.22	8.51	NM	7.10	8.08	8.41	NC	7.10	8.22	8.67
OU2MW-02D	65.0 - 70.0	8.87	8.74	8.41	NM	8.47	8.42	8.68	NM	7.71	8.28	8.62	NC	7.71	8.47	8.87
OU2MW-03S	20.0 - 25.0	7.23	7.01	6.73	NM	6.80	6.69	7.01	NM	6.12	6.62	7.01	NC	6.12	6.80	7.23
OU2MW-03I	35.0 - 40.0	7.25	7.03	6.75	NM	6.84	6.71	7.03	NM	6.14	6.64	7.02	NC	6.14	6.82	7.25
OU2MW-03I2	50.0 - 55.0	7.23	7.01	6.74	NM	6.79	6.69	7.02	NM	6.12	6.62	7.01	NC	6.12	6.80	7.23
OU2MW-03D	65.0 - 70.0	8.99	8.95	8.63	NM	6.75	8.85	8.95	NM	7.91	8.28	8.84	NC	6.75	8.46	8.99
OU2MW-04WT	3.0 - 8.0	NM	NM	NM	NM	NM	NM	NM	NM	5.91	6.41	6.53	6.12	5.91	6.24	6.53
OU2MW-04S	20.0 - 25.0	6.97	6.73	6.49	6.19	6.60	6.41	6.75	6.25	5.93	6.40	6.71	6.12	5.93	6.46	6.97
OU2MW-04I	35.0 - 40.0	6.97	6.73	6.49	6.19	6.61	6.45	6.76	6.28	5.94	6.42	6.73	6.19	5.94	6.48	6.97
OU2MW-04I2	50.0 - 55.0	6.96	6.72	6.49	NM	6.57	6.43	6.74	6.26	5.90	6.39	6.73	6.13	5.90	6.48	6.96
OU2MW-04D	65.0 - 70.0	6.99	6.75	6.51	NM	6.60	6.47	6.77	6.28	6.06	6.41	6.74	6.14	6.06	6.52	6.99
OU2MW-05	25.0 - 35.0	4.44	4.16	4.09	3.93	4.16	3.97	4.21	3.97	3.54	4.01	4.29	3.92	3.54	4.06	4.44
OU2MW-06	25.0 - 35.0	2.57	2.17	2.21	2.17	2.17	2.21	2.17	2.22	2.03	2.16	2.16	2.32	2.03	2.21	2.57
OU2MW-06S	3.0 - 8.0	NM	NM	NM	NM	NM	NM	NM	NM	2.05	2.16	2.22	2.35	2.05	2.20	2.35
OU2MW-07	15.0 - 25.0	2.37	1.98	2.00	2.03	1.90	2.08	1.89	2.02	1.93	2.02	1.89	2.17	1.89	2.02	2.37
OU2MW-07S	3.0 - 8.0	NM	NM	NM	NM	NM	NM	NM	NM	1.96	2.04	1.94	2.22	1.94	2.04	2.22
OU2MW-08WT	3.0 - 8.0	NM	NM	NM	NM	NM	NM	NM	NM	7.87	8.51	8.87	8.04	7.87	8.32	8.87
OU2MW-08S	20.0 - 25.0	9.07	8.92	8.61	8.26	8.66	8.66	8.96	8.28	7.85	8.52	8.86	8.04	7.85	8.56	9.07
OU2MW-08I	35.0 - 40.0	9.08	8.92	8.62	8.27	8.67	8.66	8.97	8.29	7.87	8.56	8.86	8.02	7.87	8.57	9.08
OU2MW-08I2	50.0 - 55.0	9.12	8.95	8.66	8.30	8.71	8.70	8.99	8.32	7.89	8.52	9.58	8.06	7.89	8.65	9.58
OU2MW-08D	65.0 - 70.0	9.89	9.79	9.45	9.01	9.55	9.52	9.83	9.06	8.69	9.34	9.72	8.75	8.69	9.38	9.89
OU2MW-09S	20.0 - 30.0	8.42	8.28	7.99	NM	8.04	8.02	8.27	7.71	7.37	7.93	8.20	7.47	7.37	7.97	8.42
OU2MW-10S	3.0 - 7.0	NM	NM	NM	NM	NM	NM	NM	NM	2.00	2.42	2.60	2.38	2.00	2.35	2.60
OU2MW-10I	20.0 - 25.0	NM	NM	NM	NM	NM	NM	NM	NM	2.01	2.42	2.61	2.35	2.01	2.35	2.61
OU2MW-10D	35.0 - 40.0	NM	NM	NM	NM	NM	NM	NM	NM	1.99	2.38	2.60	2.33	1.99	2.33	2.60
OU2MW-11S	3.0 - 8.0	NM	NM	NM	NM	NM	NM	NM	NM	3.29	3.65	3.92	3.58	3.29	3.61	3.92
OU2MW-11I2	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	3.24	3.68	3.86	3.55	3.24	3.58	3.86
OU2MW-15I	20.0 - 25.0	NM	NM	NM	NM	NM	NM	NM	NM	2.05	2.43	2.63	2.37	2.05	2.37	2.63
OU2MW-15I2	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	2.06	2.41	2.65	2.37	2.06	2.37	2.65
OU2MW-15D	40.0 - 45.0	NM	NM	NM	NM	NM	NM	NM	NM	2.06	2.46	2.66	2.37	2.06	2.39	2.66
OU2MW-16S	3.0 - 8.0	NM	NM	NM	NM	NM	NM	NM	NM	2.14	2.59	2.83	2.55	2.14	2.53	2.83
OU2MW-16I	15.0 - 20.0	NM	NM	NM	NM	NM	NM	NM	NM	2.12	2.56	2.75	2.48	2.12	2.48	2.75
OU2MW-16I2	25.0 - 30.0	NM	NM	NM	NM	NM	NM	NM	NM	2.13	2.51	2.77	2.49	2.13	2.48	2.77
OU2MW-16D	35.0 - 40.0	NM	NM	NM	NM	NM	NM	NM	NM	2.14	2.56	2.75	2.48	2.14	2.48	2.75

Notes:
NM - Not Measured
bgs- below ground surface
Well Elevations obtained from 2007 Survey and reference NVGD88 datum
NC - Not Calculated
* Surface Water Gauging Station

Table 3-5
Summary of Historic Total BTEX Groundwater Analytical Results
Upgradient of Montauk Highway Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval	Total BTEX Concentrations (ug/l)																
		Sampling Date																
		1992	1999	2002				2003			2004				2005			
	(feet)	Sept	Oct/Nov	Jan/Feb	Apr/May	June/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
BBMW-01D*	68.5 - 78.5	--	214	--	542	--	--	--	1,294	1,193	293	265	304	94	191	585	112	32
BBMW-01I*	32.0 - 42.0	--	3	--	222	--	230	710	460	350	190	170	170	93	220	230	120	120
BBMW-01S*	5.0 - 15.0	--	710	--	219	--	3,440	2,000	2,500	2,661	3,510	1,988	1,576	2,520	1,930	1,085	1,080	1,090
BBMW-02D	73.0 - 83.0	--	21	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30.0 - 40.0	--	7	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02S	5.0 - 15.0	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-15D	70.0 - 80.0	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-15I	35.0 - 45.0	--	473	--	2	--	0	0	--	--	0	--	--	--	0	--	--	--
BBMW-15I2	23.0 - 28.0	--	47	--	0	--	0	0	--	--	0	--	--	--	0	--	--	--
BBMW-15S	5.0 - 15.0	--	0	--	0	--	0	0	--	--	0	--	--	--	0	0	--	--
BBMW-16D	68.0 - 78.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16I	35.0 - 45.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16S	5.0 - 15.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23D*	49.5 - 59.5	--	--	--	--	10	17	15	53	45	0	12	136	71	234	446	210	--
BBMW-23D2*	63.0 - 73.0	--	--	--	--	28	--	0	97	80	0	--	0	--	0	--	--	--
BBMW-23I*	33.0 - 43.0	--	--	--	--	0	--	0	0	0	0	0	0	0	--	0	0	--
BBMW-23S*	5.0 - 15.0	--	--	--	--	32,850	43,650	22,100	34,485	20,162	20,573	21,133	20,954	6,284	6,047	29,430	3,300	1,725
BBMW-24D	59.5 - 69.5	--	--	--	1,102	--	--	1,005	837	1,389	1,420	590	194	183	666	799	658	--
BBMW-24I	32.0 - 42.0	--	--	--	264	--	533	612	774	833	96	82	2,408	2,068	477	1,290	175	--
BBMW-24S	4.0 - 14.0	--	--	--	14	--	0	0	0	0	0	0	0	0	0	0	0	--
GM-03D	53.18 - 68.18	175	0	0	0	--	--	0	--	--	0	--	0	--	0	--	0	--
GM-03I	30.03 - 45.03	7	26	7	135	--	--	0	--	--	879	--	--	--	0	--	137	--
GM-03S	6.78 - 21.78	41	70	4	36	--	--	32	--	--	229	--	--	128	40	--	103	133
MW-16AS	3.0 - 13.0	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	181	--
OU2MW-08I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	112	--
OU2MW-08S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,210	--
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3-5
Summary of Historic Total BTEX Groundwater Analytical Results
Upgradient of Montauk Highway Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval (feet)	Total BTEX Concentrations (ug/l)																
		Sampling Date																
		1992	1999	2002				2003			2004				2005			
		Sept	Oct/Nov	Jan/Feb	Apr/May	June/Jul	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
OU2MW-20D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3-5
Summary of Historic Total BTEX Groundwater Analytical Results
Upgradient of Montauk Highway Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval (feet)	Total BTEX Concentrations (ug/l)															
		Sampling Date															
		2006				2007				2008			Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		March	June	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep					
BBMW-01D*	68.5 - 78.5	24	216	462	109	32	555	386	9	43	81	75	9	1,294	320	9	1,294
BBMW-01I*	32.0 - 42.0	43	94	110	110	77	156	375	274	262	64	57	3	710	202	3	710
BBMW-01S*	5.0 - 15.0	273	59	1,361	2,329	949	3,640	7,420	5,590	4,210	3,022	1,251	59	7,420	2,298	59	7,420
BBMW-02D	73.0 - 83.0	--	--	--	--	0	0	0	0	0	0	0	0	21	3	0	21
BBMW-02I	30.0 - 40.0	--	--	--	--	0	0	0	0	0	0	0	0	7	1	0	7
BBMW-02S	5.0 - 15.0	--	--	--	--	0	0	0	0	0	4	0	0	4	1	0	4
BBMW-15D	70.0 - 80.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-15I	35.0 - 45.0	--	--	0	--	0	0	0	0	0	0	0	0	473	37	0	473
BBMW-15I2	23.0 - 28.0	--	--	0	--	0	0	0	0	0	0	0	0	47	4	0	47
BBMW-15S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-16D	68.0 - 78.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-16I	35.0 - 45.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-16S	5.0 - 15.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-23D*	49.5 - 59.5	729	467	509	579	519	96	1,324	660	493	23	12	0	1,324	302	0	1,324
BBMW-23D2*	63.0 - 73.0	0	--	--	--	0	0	0	0	0	3	0	0	97	15	0	97
BBMW-23I*	33.0 - 43.0	0	0	0	0	0	0	19	10	0	3	0	0	19	2	0	19
BBMW-23S*	5.0 - 15.0	7,450	4,070	6,558	120	12,332	18,185	19,818	14,940	26,389	22,830	18,758	120	43,650	17,191	120	43,650
BBMW-24D	59.5 - 69.5	--	367	--	647	662	0	7	4	176	215	7	0	1,420	575	0	1,420
BBMW-24I	32.0 - 42.0	--	519	--	183	116	115	277	9	0	0	0	0	2,408	542	0	2,408
BBMW-24S	4.0 - 14.0	0	0	0	0	0	0	0	0	0	0	117	0	14	1	0	117
GM-03D	53.18 - 68.18	--	--	--	--	0	0	0	0	0	0	0	0	175	12	0	175
GM-03I	30.03 - 45.03	196	0	0	0	0	78	190	129	245	161	257	0	879	122	0	879
GM-03S	6.78 - 21.78	19	126	177	69	116	0	0	0	0	0	23	0	229	66	0	229
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-08D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	16	0	0	0	0	16
OU2MW-08I	35.0 - 40.0	527	196	355	201	167	521	481	196	88	245	62	88	527	287	62	527
OU2MW-08I2	50.0 - 55.0	172	272	590	582	249	101	120	545	369	317	248	101	590	312	101	590
OU2MW-08S	20.0 - 25.0	617	1,456	1,641	829	378	226	305	332	1,088	858	692	226	2,210	904	226	2,210
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	0	0	0	--	0	0	0	0	0	0
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	90	0	90	90	90	0	90
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	5,500	5,447	5,500	5,500	5,500	5,447	5,500
OU2MW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-19D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	543	--	--	--	543	543
OU2MW-19I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	1,616	4,617	1,616	1,616	1,616	1,616	4,617
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	130	133	130	130	130	130	133

Table 3-5
Summary of Historic Total BTEX Groundwater Analytical Results
Upgradient of Montauk Highway Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval (feet)	Total BTEX Concentrations (ug/l)															
		Sampling Date															
		2006				2007				2008			Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		March	June	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep					
OU2MW-20D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	616	354	616	616	616	354	616
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	1	0	1	1	1	0	1
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	0	1	0	0	0	0	1
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	780	1,041	780	780	780	780	1,041
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	46	83	46	46	46	46	83
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	76	167	76	76	76	76	167
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	40	253	40	40	40	40	253
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	5	0	0	0	0	5
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	--	400	--	--	--	400	400
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	211	--	--	--	211	211
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	1,290	--	--	--	1,290	1,290
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	1,316	--	--	--	1,316	1,316
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	301	--	--	--	301	301
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	282	--	--	--	282	282
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	312	--	--	--	312	312
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	533	--	--	--	533	533
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	91	--	--	--	91	91
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	52	--	--	--	52	52
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	512	--	--	--	512	512
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	57	--	--	--	57	57
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	2,073	--	--	--	2,073	2,073
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	1,493	--	--	--	1,493	1,493
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	192	--	--	--	192	192
OU2MW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	1,500	--	--	--	1,500	1,500
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0

NOTES:

BTEX - benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs)
-- = Not Analyzed/Applicable
ug/l - Micrograms per liter
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.
Peristaltic pump results are shown on this table.
*The BBMW-01 and BBMW-23 clusters are sampled on a monthly basis. This table reports the highest concentration detected from the three sampling events this quarter.

Table 3-6
Summary of Historic Total PAH Groundwater Analytical Results
Upgradient of Montauk Highway Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval (feet)	Total PAH Concentrations (ug/l)																	
		Sampling Date																	
		1992	1999		2002				2003			2004				2005			
		Sept	Sept	Oct/Nov	Jan/Feb	Apr/May	June/July	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
BBMW-01D*	68.5 - 78.5	--	--	1,605	--	4,566	--	--	--	4,911	4,543	1,460	1,800	1,359	429	821	2,832	50	251
BBMW-01I*	32.0 - 42.0	--	--	66	--	9,720	--	10,616	5,600	6,398	8,514	7,772	7,709	4,679	9,754	9,659	7,734	10,674	8,276
BBMW-01S*	5.0 - 15.0	--	--	2,055	--	3,420	--	2,823	600	1,102	1,730	2,077	1,394	869	1,565	2,067	1,333	1,034	2,425
BBMW-02D	73.0 - 83.0	--	--	2	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02I	30.0 - 40.0	--	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-02S	5.0 - 15.0	--	--	2	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-15D	70.0 - 80.0	--	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-15I	35.0 - 45.0	--	--	30	--	0	--	0	0	--	--	0	--	--	--	0	--	--	--
BBMW-15I2	23.0 - 28.0	--	--	3	--	0	--	0	0	--	--	0	--	--	--	0	--	--	--
BBMW-15S	5.0 - 15.0	--	--	0	--	0	--	0	0	--	--	0	--	--	--	0	0	--	--
BBMW-16D	68.0 - 78.0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16I	35.0 - 45.0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-16S	5.0 - 15.0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-23D*	49.5 - 59.5	--	--	--	--	--	741	802	910	1,203	1,562	468	400	1,081	931	1,493	1,665	2,161	--
BBMW-23D2*	63.0 - 73.0	--	--	--	--	--	36	--	0	120	0	0	--	0	--	0	--	--	--
BBMW-23I*	33.0 - 43.0	--	--	--	--	--	0	--	178	0	61	0	0	0	0	--	13	33	--
BBMW-23S*	5.0 - 15.0	--	--	--	--	--	2,397	2,681	1,400	2,319	2,383	1,288	1,733	2,220	599	921	1,830	994	890
BBMW-24D	59.5 - 69.5	--	--	--	--	7,412	--	--	6,000	5,800	8,110	3,194	1,070	360	392	3,232	5,652	5,372	--
BBMW-24I	32.0 - 42.0	--	--	--	--	6,632	--	11,246	6,000	6,400	4,815	4,782	5,284	7,679	8,053	6,062	4,694	5,392	--
BBMW-24S	4.0 - 14.0	--	--	--	--	11	--	0	0	0	908	0	120	0	0	0	10	0	--
GM-03D	53.18 - 68.18	661	1,238	0	1	1	--	--	31	--	--	0	--	0	--	0	--	0	--
GM-03I	30.03 - 45.03	350	0	21	12	273	--	--	149	--	--	898	--	--	--	67	--	429	--
GM-03S	6.78 - 21.78	196	6	6	4	37	--	--	510	--	--	100	--	--	182	12	--	183	110
MW-16AS	3.0 - 13.0	--	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-08D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-08I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,453	--
OU2MW-08I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,364	--
OU2MW-08S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,204	--
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3-6
Summary of Historic Total PAH Groundwater Analytical Results
Upgradient of Montauk Highway Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval (feet)	Total PAH Concentrations (ug/l)																	
		Sampling Date																	
		1992	1999		2002				2003			2004				2005			
		Sept	Sept	Oct/Nov	Jan/Feb	Apr/May	June/July	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
OU2MW-20D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3-6
Summary of Historic Total PAH Groundwater Analytical Results
Upgradient of Montauk Highway Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval (feet)	Total PAH Concentrations (ug/l)															
		Sampling Date															
		2006				2007				2008			Historic	Historic	Historic	Current	Current
		March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Minimum	Maximum	Average	Minimum	Maximum
BBMW-01D*	68.5 - 78.5	349	863	2,250	425	195	2,090	1,248	50	55	183	274	50	4,911	1,470	50	4,911
BBMW-01I*	32.0 - 42.0	3,679	6,746	7,141	10,165	5,812	7,721	8,946	8,071	10,403	6,532	8,764	66	10,674	7,599	66	10,674
BBMW-01S*	5.0 - 15.0	1,043	0	956	2,158	659	4,347	3,927	3,929	1,432	1,640	1,991	0	4,347	1,858	0	4,347
BBMW-02D	73.0 - 83.0	--	--	--	--	0	0	0	0	0	0	0	0	2	0	0	2
BBMW-02I	30.0 - 40.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-02S	5.0 - 15.0	--	--	--	--	0	0	0	1	0	0	0	0	2	0	0	2
BBMW-15D	70.0 - 80.0	--	--	--	--	0	0	0	2	0	0	0	0	2	0	0	2
BBMW-15I	35.0 - 45.0	--	--	0	--	0	0	0	0	0	0	0	0	30	2	0	30
BBMW-15I2	23.0 - 28.0	--	--	0	--	0	0	0	0	0	0	0	0	3	0	0	3
BBMW-15S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-16D	68.0 - 78.0	--	--	--	--	0	0	0	0	0	23	0	0	23	3	0	23
BBMW-16I	35.0 - 45.0	--	--	--	--	0	0	0	0	2	0	0	0	2	0	0	2
BBMW-16S	5.0 - 15.0	--	--	--	--	0	0	0	2	0	0	0	0	2	0	0	2
BBMW-23D*	49.5 - 59.5	2,459	2,391	2,994	2,353	2,591	6,619	5,835	5,620	3,118	188	95	188	6,619	2,163	95	6,619
BBMW-23D2*	63.0 - 73.0	0	--	--	--	0	0	1	0	2	50	0	0	120	15	0	120
BBMW-23I*	33.0 - 43.0	146	88	65	59	199	2,207	2,559	31	16	14	23	0	2,559	283	0	2,559
BBMW-23S*	5.0 - 15.0	1,410	959	759	2,521	1,741	2,519	1,785	2,703	2,569	2,169	1,838	599	2,703	1,773	599	2,703
BBMW-24D	59.5 - 69.5	--	3,037	--	4,055	3,852	0	1	0	0	160	2	0	8,110	3,037	0	8,110
BBMW-24I	32.0 - 42.0	--	5,772	--	2,115	184	434	1,863	103	85	87	0	85	11,246	4,384	0	11,246
BBMW-24S	4.0 - 14.0	0	0	0	0	0	0	0	0	0	0	120	0	908	48	0	908
GM-03D	53.18 - 68.18	--	--	--	--	0	0	4	0	48	0	0	0	1,238	124	0	1,238
GM-03I	30.03 - 45.03	1,330	0	0	0	0	275	611	44	2	106	13	0	1,330	240	0	1,330
GM-03S	6.78 - 21.78	0	250	245	72	235	21	8	8	0	0	47	0	510	104	0	510
MW-16AS	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
OU2MW-08D	65.0 - 70.0	0	0	0	0	0	97	0	3,892	0	0	9	0	3,892	363	0	3,892
OU2MW-08I	35.0 - 40.0	4,983	4,020	2,328	3,013	507	2,299	799	2,954	2,264	4,895	7,738	507	4,983	2,865	507	7,738
OU2MW-08I2	50.0 - 55.0	1,666	2,664	1,347	1,961	1,454	1,468	262	3,501	1,646	2,120	3,037	262	3,501	1,768	262	3,501
OU2MW-08S	20.0 - 25.0	9,968	7,000	4,974	8,445	5,763	8,831	8,025	13,563	6,542	6,504	7,369	2,204	13,563	7,438	2,204	13,563
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	7	0	0	--	0	0	7	2	0	7
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	25	2	25	25	25	2	25
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	1	0	0	0	0	1
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	0	2	0	0	0	0	2
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	2,957	3,489	2,957	2,957	2,957	2,957	3,489
OU2MW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-19D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	801	--	--	--	801	801
OU2MW-19I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	1,043	1,459	1,043	1,043	1,043	1,043	1,459
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	6,212	7,648	6,212	6,212	6,212	6,212	7,648

Table 3-6
Summary of Historic Total PAH Groundwater Analytical Results
Upgradient of Montauk Highway Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval (feet)	Total PAH Concentrations (ug/l)															
		Sampling Date															
		2006				2007				2008			Historic	Historic	Historic	Current	Current
		March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Minimum	Maximum	Average	Minimum	Maximum
OU2MW-20D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	--	2	--	--	--	2	2
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	101	91	101	101	101	91	101
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	4	0	4	4	4	0	4
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	5,417	4,165	5,417	5,417	5,417	4,165	5,417
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	3,922	3,985	3,922	3,922	3,922	3,922	3,985
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	623	149	623	623	623	149	623
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	102	154	102	102	102	102	154
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	54	965	54	54	54	54	965
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	--	0	5	0	0	0	0	5
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	--	283	--	--	--	283	283
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	12	--	--	--	12	12
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	2,656	--	--	--	2,656	2,656
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	863	--	--	--	863	863
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	3,642	--	--	--	3,642	3,642
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	1,087	--	--	--	1,087	1,087
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	--	2,638	--	--	--	2,638	2,638
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	5,560	--	--	--	5,560	5,560
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	6,605	--	--	--	6,605	6,605
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	93	--	--	--	93	93
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	2	--	--	--	2	2
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	212	--	--	--	212	212
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	1
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	29	--	--	--	29	29
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	4,029	--	--	--	4,029	4,029
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	5,230	--	--	--	5,230	5,230
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	165	--	--	--	165	165
OU2MW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	2,370	--	--	--	2,370	2,370
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	--	--	--	0	0

NOTES:

PAH - polycyclic aromatic hydrocarbon
-- = Not Analyzed/Applicable
ug/l - Micrograms per liter
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.
Peristaltic pump results are shown on this table.
*The BBMW-01 and BBMW-23 clusters are sampled on a monthly basis. This table reports the highest concentration detected from the three sampling events this quarter.

Table 3-7
Summary of Historic Total BTEX Groundwater Analytical Results
Downgradient of Montauk Highway Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval (feet)	Total BTEX Concentrations (ug/l)																
		Sampling Date																
		1992	1999	2000	2002			2003			2004				2005			
		Sept	Oct/Nov	Nov/Dec	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
BBMW-03D	52.0 - 62.0	--	3	--	3	0	--	--	--	--	--	--	--	0	--	--	0	--
BBMW-03I	30.0 - 40.0	--	2	--	1	0	--	--	--	--	--	--	865	0	--	--	0	--
BBMW-03S	3.0 - 13.0	--	0	--	2	0	--	--	--	--	--	--	0	0	--	--	0	--
BBMW-07D	55.0 - 65.0	--	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07I	30.0 - 40.0	--	0	--	--	0	0	--	--	--	--	--	--	0	--	--	--	--
BBMW-07S	5.0 - 15.0	--	2	--	--	5	0	0	--	241	160	11	0	20	0	--	--	0
BBMW-25D	62.0 - 72.0	--	--	--	--	45	--	59	75	44	29	20	0	110	78	--	47	--
BBMW-25I	25.0 - 35.0	--	--	--	--	1,034	533	1,330	980	1,707	1,304	936	0	1,007	1,995	--	1,082	1,360
BBMW-25S	4.0 - 14.0	--	--	--	--	58	0	0	0	0	0	--	0	0	0	--	0	0
GM-05D	60.95 - 75.95	0	0	0	0	0	--	--	--	--	--	--	0	--	--	--	--	--
GM-05I	35.05 - 48.05	0	2	0	0	0	0	0	--	0	--	--	0	0	--	--	--	--
GM-05S	5.1 - 20.1	0	283	124	27	106	307	87	367	0	0	0	157	0	134	0	40	57
GMP-01	25.0 - 30.0	--	--	1,090	1,056	433	348	250	824	454	692	455	587	200	2,130	3,200	1,280	250
OU2MW-01D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-01I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	77	--
OU2MW-01I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25	--
OU2MW-01S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,243	--
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-02I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	477	--
OU2MW-02I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	--
OU2MW-02S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100	--
OU2MW-03D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-03I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-03I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-03S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	151	--
OU2MW-04D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-04I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	267	--
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	41	--
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,130	--
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,120	--
OU2MW-09	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I*	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3-7
Summary of Historic Total BTEX Groundwater Analytical Results
Downgradient of Montauk Highway Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval (feet)	Total BTEX Concentrations (ug/l)															
		Sampling Date															
		2006				2007				2008			Historic	Historic	Historic	Current	Current
		March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Minimum	Maximum	Average	Minimum	Maximum
BBMW-03D	52.0 - 62.0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3
BBMW-03I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0	865	54	0	865
BBMW-03S	3.0 - 13.0	0	0	0	0	393	0	0	0	0	0	0	0	393	25	0	393
BBMW-07D	55.0 - 65.0	--	--	--	--	25	0	--	0	0	0	0	0	25	4	0	25
BBMW-07I	30.0 - 40.0	--	--	--	--	--	0	--	0	0	0	0	0	0	0	0	0
BBMW-07S	5.0 - 15.0	0	0	37	0	0	0	0	0	0	0	0	0	241	23	0	241
BBMW-25D	62.0 - 72.0	11	21	78	76	0	0	16	6	2	6	8	0	110	36	0	110
BBMW-25I	25.0 - 35.0	264	0	79	344	0	148	252	41	158	169	101	0	1,995	669	0	1,995
BBMW-25S	4.0 - 14.0	0	0	0	0	0	0	0	0	2	0	0	0	58	3	0	58
GM-05D	60.95 - 75.95	0	--	--	--	0	0	0	0	4	0	0	0	4	0	0	4
GM-05I	35.05 - 48.05	0	--	--	--	0	0	13	0	0	0	0	0	13	1	0	13
GM-05S	5.1 - 20.1	140	21	0	12	0	0	0	14	185	55	16	0	367	78	0	367
GMP-01	25.0 - 30.0	562	577	1,156	4,726	185	154	49	135	182	94	170	49	4,726	843	49	4,726
OU2MW-01D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-01I	35.0 - 40.0	767	170	170	424	885	32	408	85	8	1	13	1	885	275	1	885
OU2MW-01I2	50.0 - 55.0	195	126	52	51	51	15	0	0	0	0	0	0	195	47	0	195
OU2MW-01S	20.0 - 25.0	348	176	988	288	876	37	182	104	42	6	15	6	1,243	390	6	1,243
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-02D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-02I	35.0 - 40.0	370	415	493	459	645	260	410	229	377	412	281	229	645	413	229	645
OU2MW-02I2	50.0 - 55.0	0	0	0	0	0	0	0	1	11	0	2	0	11	2	0	11
OU2MW-02S	20.0 - 25.0	181	111	282	573	27	268	137	1	29	52	20	1	573	160	1	573
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-03I	35.0 - 40.0	0	0	0	182	0	0	0	0	0	0	85	0	182	17	0	182
OU2MW-03I2	50.0 - 55.0	0	0	0	0	11	14	0	0	0	0	0	0	14	2	0	14
OU2MW-03S	20.0 - 25.0	530	234	225	206	0	1,103	223	9	45	94	42	0	1,103	256	0	1,103
OU2MW-04D	65.0 - 70.0	0	0	0	0	0	0	0	3	2	1	0	0	3	1	0	3
OU2MW-04I	35.0 - 40.0	885	296	23	0	134	233	252	158	174	25	67	0	885	222	0	885
OU2MW-04I2	50.0 - 55.0	32	0	0	0	0	0	0	0	0	0	0	0	41	7	0	41
OU2MW-04S	20.0 - 25.0	844	740	1,176	386	421	913	253	600	791	200	200	200	3,130	859	200	3,130
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-05	25.0 - 35.0	224	254	1,039	3,159	280	188	110	110	221	158	181	110	3,159	624	110	3,159
OU2MW-09	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	--	--	7	0	0	249	0	7	2	0	249
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	--	--	112	245	263	41	112	263	207	41	263
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	--	--	2,412	67	33	0	33	2,412	837	0	2,412
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0
OU2MW-14I*	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	0	0	0	0	6	0	0	0	0	6
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	32	1	40	8	0	1	40	20	0	40
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	599	367	0	0	0	0	599	242	0	599
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	0	0	144	0	0	0	144	36	0	144
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	1	0	0	0	0	0	1	0	0	1
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	9	53	6	2	0	2	53	18	0	53
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0

NOTES:

BTEX - benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs)
-- = Not Analyzed/Applicable
ug/l - Micrograms per liter
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.
Peristaltic pump results are shown on this table.
*The OU2MW-14I cluster was sampled twice this quarter. This table reports the highest concentration detected from the three sampling events this quarter.

Table 3-8
Summary of Historic Total PAH Groundwater Analytical Results
Downgradient of Montauk Highway Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Monitoring and Maintenance Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval	Total PAH Concentrations (ug/l)																	
		Sampling Date																	
		1992	1999		2000	2002			2003			2004				2005			
	(feet)	Sept	Sept	Oct/Nov	Nov/Dec	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
BBMW-03D	52.0 - 62.0	--	--	0	--	0	0	--	--	--	--	--	--	--	186	--	--	0	--
BBMW-03I	30.0 - 40.0	--	--	0	--	2	0	--	--	--	--	--	--	0	0	--	--	0	--
BBMW-03S	3.0 - 13.0	--	--	0	--	0	0	--	--	--	--	--	--	0	0	--	--	0	--
BBMW-07D	55.0 - 65.0	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-07I	30.0 - 40.0	--	--	0	--	--	0	0	--	--	--	--	--	--	0	--	--	--	--
BBMW-07S	5.0 - 15.0	--	--	2	--	--	6	0	710	--	62	24	0	0	0	0	--	--	0
BBMW-25D	62.0 - 72.0	--	--	--	--	--	1,553	--	280	1,550	298	135	144	101	588	223	--	390	--
BBMW-25I	25.0 - 35.0	--	--	--	--	--	7,436	10,185	4,900	4,700	--	4,860	7,761	7,840	3,902	4,937	--	3,621	5,472
BBMW-25S	4.0 - 14.0	--	--	--	--	--	22	0	0	0	--	0	--	0	14	0	--	0	0
GM-05D	60.95 - 75.95	0	0	0	0	0	0	--	--	--	--	--	--	28	--	--	--	--	--
GM-05I	35.05 - 48.05	0	4	14	0	0	0	0	0	--	--	--	--	51	0	--	--	--	--
GM-05S	5.1 - 20.1	649	2,453	1,181	505	88	1,286	237	858	230	--	0	0	635	0	312	0	366	0
GMP-01	25.0 - 30.0	--	--	--	1,590	2,270	1,336	230	880	270	1,001	421	1,281	266	6,514	2,595	1,241	6,419	10,183
OU2MW-01D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-01I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,507	--
OU2MW-01I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	58	--
OU2MW-01S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6,927	--
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15	--
OU2MW-02I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,541	--
OU2MW-02I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22	--
OU2MW-02S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	162	--
OU2MW-03D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-03I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	67	--
OU2MW-03I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-03S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	401	--
OU2MW-04D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-04I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5,444	--
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	375	--
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,034	--
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4,711	--
OU2MW-09	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I*	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3-8
Summary of Historic Total PAH Groundwater Analytical Results
Downgradient of Montauk Highway Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Monitoring and Maintenance Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval	Total PAH Concentrations (ug/l)															
		Sampling Date															
		2006				2007				2008			Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
	(feet)	March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep					
BBMW-03D	52.0 - 62.0	0	0	0	0	0	0	0	0	7	0	0	0	186	13	0	186
BBMW-03I	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
BBMW-03S	3.0 - 13.0	0	0	0	0	283	0	0	0	0	0	1	0	283	18	0	283
BBMW-07D	55.0 - 65.0	--	--	--	--	873	0	--	0	2	0	0	0	873	125	0	873
BBMW-07I	30.0 - 40.0	--	--	--	--	--	0	--	0	0	0	0	0	0	0	0	0
BBMW-07S	5.0 - 15.0	0	0	0	0	0	0	3	0	0	0	0	0	710	38	0	710
BBMW-25D	62.0 - 72.0	308	125	160	384	0	0	3	1	0	0	59	0	1,553	312	0	1,553
BBMW-25I	25.0 - 35.0	1,560	0	37	488	11	78	457	2	181	48	86	0	10,185	3,261	0	10,185
BBMW-25S	4.0 - 14.0	0	0	0	0	0	0	10	0	0	0	0	0	22	2	0	22
GM-05D	60.95 - 75.95	0	--	--	--	0	0	0	0	0	0	0	0	28	2	0	28
GM-05I	35.05 - 48.05	0	--	--	--	0	0	7	0	0	0	0	0	51	4	0	51
GM-05S	5.1 - 20.1	34	0	0	0	0	0	0	13	25	30	7	0	2,453	330	0	2,453
GMP-01	25.0 - 30.0	9,385	9,261	5,555	3,936	4,019	5,506	159	4,428	3,967	2,020	778	159	10,183	3,389	159	10,183
OU2MW-01D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-01I	35.0 - 40.0	8,222	3,717	879	495	120	12	90	2,222	15	0	25	0	8,222	1,934	0	8,222
OU2MW-01I2	50.0 - 55.0	1,249	0	0	100	0	478	7	4	0	0	0	0	1,249	172	0	1,249
OU2MW-01S	20.0 - 25.0	464	457	1,230	104	321	47	2,023	2,659	48	0	0	0	6,927	1,298	0	6,927
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-02D	65.0 - 70.0	0	0	0	0	0	0	17	0	0	0	0	0	17	3	0	17
OU2MW-02I	35.0 - 40.0	3,413	3,609	5,251	3,012	1,943	3,581	1,835	2,947	3,129	43	2,821	43	5,251	2,846	43	5,251
OU2MW-02I2	50.0 - 55.0	11	0	0	0	0	12	0	11	30	1	12	0	30	8	0	30
OU2MW-02S	20.0 - 25.0	311	209	164	424	0	148	155	27	57	96	46	0	424	159	0	424
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	0	6	3	0	0	0	6	1	0	6
OU2MW-03I	35.0 - 40.0	0	0	0	49	0	0	0	0	0	7	0	0	67	11	0	67
OU2MW-03I2	50.0 - 55.0	36	16	0	0	0	130	4	3	0	0	0	0	130	17	0	130
OU2MW-03S	20.0 - 25.0	339	353	181	379	0	313	201	49	87	61	79	0	401	215	0	401
OU2MW-04D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-04I	35.0 - 40.0	6,438	3,795	1,107	0	0	318	3,260	547	4,051	0	36	0	6,438	2,269	0	6,438
OU2MW-04I2	50.0 - 55.0	115	101	57	78	0	10	16	2	0	23	0	0	375	71	0	375
OU2MW-04S	20.0 - 25.0	12,611	7,351	10,538	2,774	6,802	8,427	3,794	4,145	2,666	2,936	3,901	2,666	12,611	6,007	2,666	12,611
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-05	25.0 - 35.0	8,049	5,125	4,314	4,149	1,980	2,193	247	3412	491	516	50	247	8,049	3,199	50	8,049
OU2MW-09	30.0 - 40.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	8	7	5	0	0	1,030	0	8	4	0	1,030
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	1,077	112	3,627	865	1,977	275	112	3,627	1,532	112	3,627
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	426	2,412	52	0	0	0	0	2,412	578	0	2,412
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	0	0	0	2	0	0	0	2	0	0	2
OU2MW-14I*	20.0 - 25.0	--	--	--	--	--	--	--	--	2	0	0	0	2	1	0	2
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
OU2MW-14S	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	86	8	34	0	0	0	86	32	0	86
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	320	76	0	0	0	0	320	99	0	320
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	0	0	78	0	0	0	78	20	0	78
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	5	0	0	0	0	0	5	1	0	5
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	12	16	1	0	0	0	16	7	0	16
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0

NOTES:

PAH - polycyclic aromatic hydrocarbon

-- = Not Analyzed/Applicable

ug/l - Micrograms per liter

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.

Peristaltic pump results are shown on this table.

*The OU2MW-14I cluster was sampled twice this quarter. This table reports the highest concentration detected from the three sampling events this quarter.

Table 3-9
Summary of Historic Total BTEX Groundwater Analytical Results
Downgradient of Manatuck Lane Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval	Total BTEX Concentrations (ug/l)														
		Sampling Date														
		2000	2002			2003			2004				2005			
	(feet)	Nov/Dec	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
GMP-02	18.0 - 23.0	1,387	321	197	2,268	710	2,275	1,194	1,735	913	660	24	1,318	1,090	550	311
GMP-04	15.5 - 20.5	60	67	44	82	0	11	12	331	385	345	1,483	263	214	366	1,132
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	1,085	--
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	35	--
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3-9
Summary of Historic Total BTEX Groundwater Analytical Results
Downgradient of Manatuck Lane Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval (feet)	Total BTEX Concentrations (ug/l)															
		Sampling Date															
		2006				2007				2008			Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep					
GMP-02	18.0 - 23.0	151	11	12	0	0	0	0	0	3	4	0	0	2,275	605	0	2,275
GMP-04	15.5 - 20.5	242	83	242	280	652	24	295	264	15	0	0	0	1,483	276	0	1,483
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-06	15.0 - 25.0	11	0	0	0	53	0	0	0	11	3	0	0	1,085	106	0	1,085
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-07	15.0 - 25.0	59	39	0	35	0	0	0	1	15	3	3	0	59	17	0	59
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	0	0	1	0	0	0	1	0	0	1
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	0	0	0	198	39	0	198	50	0	198
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	0	278	906	14	10	0	906	300	0	906
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	--	13	21	17	11	0	11	21	16	0	21
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	--	143	77	70	81	78	70	143	93	70	143
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	--	2	7	23	2	0	2	23	9	0	23
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	27	5	0	10	10	0	27	11	0	27
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	9	0	7	4	1	0	9	5	0	9
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0

NOTES:

BTEX - benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs)
-- = Not Analyzed / Applicable
ug/l - Micrograms per liter
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.
Peristaltic pump results are shown on this table.

Table 3-10
Summary of Historic Total PAH Groundwater Analytical Results
Downgradient of Manatuck Lane Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval	Total PAH Concentrations (ug/l)														
		Sampling Date														
		2000	2002			2003			2004				2005			
	(feet)	Nov/Dec	Jan/Feb	Apr/May	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
GMP-02	18.0 - 23.0	2,764	4,216	3,447	6,788	3,300	4,000	7,010	3,772	6,967	5,213	5,460	3,008	3,459	8,837	151
GMP-04	15.5 - 20.5	290	1,135	287	113	0	430	44	459	206	235	1,372	601	77	369	1,720
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-06	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	9,241	--
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-07	15.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	66	--
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 3-10
Summary of Historic Total PAH Groundwater Analytical Results
Downgradient of Manatuck Lane Oxygen Injection Line
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Well No.	Screen Interval	Total PAH Concentrations (ug/l)															
		Sampling Date															
		2006				2007				2008			Historic	Historic	Historic	Current	Current
	(feet)	March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Minimum	Maximum	Average	Minimum	Maximum
GMP-02	18.0 - 23.0	0	0	10	11	0	0	0	0	0	0	0	0	8,837	2,737	0	8,837
GMP-04	15.5 - 20.5	41	22	573	232	1,380	39	1,523	1,467	1	0	0	0	1,720	505	0	1,720
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	0	0	48	0	0	0	48	12	0	48
OU2MW-06	15.0 - 25.0	19	0	0	0	0	0	0	3	6	0	0	0	9,241	843	0	9,241
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	10	0	0	0	6	0	10	3	0	10
OU2MW-07	15.0 - 25.0	69	0	0	0	0	0	0	37	0	0	0	0	69	16	0	69
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	0	7	0	0	0	0	7	2	0	7
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	0	0	0	413	32	0	413	103	0	413
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	0	297	201	1	0	0	297	125	0	297
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	0	0	0	5	0	0	5	1	0	5
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	--	79	39	44	35	0	35	79	49	0	79
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	--	888	97	268	137	147	97	888	348	97	888
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	--	3	7	30	5	0	3	30	11	0	30
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	15	2	1	4	2	1	15	6	1	15
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	12	10	1	7	1	1	12	8	1	12
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0

NOTES:

PAH - polycyclic aromatic hydrocarbon

-- = Not Analyzed/Applicable

ug/l - Micrograms per liter

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. Peristaltic pump results are shown on this table.

Table 3-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Operable Unit:		OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:		BBMW-01D	BBMW-01D	BBMW-01D	BBMW-01I	BBMW-01I	BBMW-01I	BBMW-01S	BBMW-01S	BBMW-01S	BBMW-02D	BBMW-02I	BBMW-02S	BBMW-03D	BBMW-03I	BBMW-03S
Sample Interval (feet):	NYS	68.5-78.5	68.5-78.5	68.5-78.5	32-42	32-42	32-42	5-15	5-15	5-15	73-83	30-40	5-15	52-62	30-40	3-13
Sample Date:	AWQS	7/15/2008	8/21/2008	9/30/2008	7/15/2008	8/21/2008	9/30/2008	7/15/2008	8/21/2008	10/1/2008	8/8/2008	8/8/2008	8/8/2008	9/3/2008	9/4/2008	9/5/2008
BTEX (ug/l)																
Benzene	1	**2 J**	**2 J**	**2 J**	10 U	10 U	10 U	**140**	**120**	**29**	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	**16**	**9**	**7**	**1 J**	10 U	**2 J**	**520 J**	**280**	**200**	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	**2 J**	10 U	10 U	10 U	10 U	10 U	**35**	**21**	**8**	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, m,p-	5	**34**	**12**	**6 J**	**26**	**31**	**44**	**330**	**120**	**38**	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, o-	5	**21 J**	**9**	**5 J**	**7 J**	**8**	**11**	500 U	**710**	**500**	10 U	10 U	10 U	10 U	10 U	10 U
Total BTEX	NE	**75**	**32**	**20**	**34**	**39**	**57**	**1025**	**1251**	**775**	ND	ND	ND	ND	ND	ND
Other VOCs (ug/l)																
Acetone	50	10 U	10 U	10 UJ	12 U	10 U	**7 J**	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Butanone, 2-	50	10 UJ	10 U	10 U	**7 J**	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	**2 J**	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	**7**	**11**	**9**	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	**4 J**	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Isopropyl benzene	5	10 U	10 U	10 U	**7**	**6**	**9**	**110**	**99**	**61**	10 U	10 UJ	**3 J**	10 U	10 U	10 U
Methyl tert-butyl ether	10	**1 J**	10 U	10 U	**11 J**	**4 J**	**9 J**	10 UJ	10 U	10 U	**20**	**2 J**	10 U	10 U	**140**	10 U
Naphthalene	10	**610**	**230 J**	**210**	**15000**	**5500 J**	**12000**	**1600**	**2500 J**	**1900**	10 U	10 U	10 U	10 U	10 U	10 U
Propylbenzene, n-	5	10 U	10 U	10 U	**29**	**25**	**33**	**42**	**33**	**21**	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Styrene	5	**6**	10 U	10 U	**9**	**8**	**10**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	**7**	**6**	**6**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrahydrofuran	50	10 U	10 U	10 U	**19**	10 U	10 U	10 U	**5**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	5	**13**	**4 J**	10 U	**170**	**170**	**280**	500 U	**480**	**360**	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	**39**	**12**	**9**	**3800**	**400 J**	**670**	500 U	**750**	**620**	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Non-carcinogenic PAHs (ug/l)																
Acenaphthene	20	10 U	10 U	10 U	**20**	**24**	**21**	**120 J**	**8**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	**10**	10 U	10 U	**340 J**	**340 J**	**420 J**	**41**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	**9**	**8**	**8**	**7**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U	**2 J**	**3 J**	**3 J**	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	**51**	**61**	**55**	**35**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	**24**	10 U	10 U	**790**	**720**	**1000**	**350**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	**240**	10 U	10 U	**3000**	**3600**	**7200**	**1400**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Phenanthrene	50	10 U	10 U	10 U	**42**	**44**	**53**	**37**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	**3 J**	**3 J**	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Noncarcinogenic PAHs	NE	**274**	ND	ND	**4257**	**4803**	**8764**	**1991**	10	ND	ND	ND	ND	ND	ND	**1**
Carcinogenic PAHs (ug/l)																
Chrysene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)																
Total PAHs	NE	**274**	ND	ND	**4257**	**4803**	**8764**	**1991**	**10**	ND	ND	ND	ND	ND	ND	**1**

Table 3-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Operable Unit:	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:	BBMW-07D	BBMW-07I	BBMW-07S	BBMW-15D	BBMW-15I	BBMW-15I2	BBMW-15S	BBMW-16D	BBMW-16I	BBMW-16S	BBMW-23D	BBMW-23D	BBMW-23D	BBMW-23D2	BBMW-23D2	BBMW-23D2
Sample Interval (feet):	55.-65	30-40	5-15	70-80	23-28	35-45	5-15	68-78	35-45	5-15	49.5-59.5	49.5-59.5	49.5-59.5	63-73	63-73	63-73
Sample Date:	9/10/2008	9/10/2008	9/10/2008	8/11/2008	8/11/2008	8/11/2008	8/11/2008	8/29/2008	8/29/2008	8/29/2008	7/15/2008	8/21/2008	10/1/2008	7/15/2008	8/21/2008	10/1/2008
BTEX (ug/l)																
Benzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**1 J**	10 U	10 U	10 U	10 U
Ethylbenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, m,p-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**7**	**5**	**4 J**	10 U	10 U	10 U
Xylene, o-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	**2 J**	**2 J**	10 U	10 U	10 U
Total BTEX	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**12**	**8**	**6**	ND	ND	ND
Other VOCs (ug/l)																
Acetone	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ
Butanone, 2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U
Dichlorobenzene, 1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U
Dichloroethane, 1,1-	10 U	10 U	10 U	**2.0 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
Dichloroethene, 1,1-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U
Isopropyl benzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	10 U	10 U	10 U	**85**	**2 J**	10 U	10 U	10 U	10 U	**5**	**9 J**	**4 J**	**3 J**	10 UJ	10 U	10 UJ
Naphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**100**	**73 J**	**71**	10 U	10 UJ	**3 J**
Propylbenzene, n-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	**2 J**	**2 J**	10 U	10 U	10 U
Tetrachloroethene	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	10 U	10 U
Tetrahydrofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	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	10 U	10 U
Trimethylbenzene, 1,2,4-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**5 J**	**3 J**	**3 J**	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	10 UJ	10 UJ	10 UJ	**6 J**	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U
Non-carcinogenic PAHs (ug/l)																
Acenaphthene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**8**	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	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
Fluoranthene	10 U	10 U	10 U	10 U	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	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	10 U	10 U	10 U
Methylnaphthalene, 2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**17**	10 U	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**52**	10 U	**3 J**	10 U	10 U	10 U
Phenanthrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**10**	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U
Total Noncarcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**95**	ND	**3**	ND	ND	ND
Carcinogenic PAHs (ug/l)																
Chrysene	10 U	10 U	10 U	10 U	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 Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)																
Total PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**95**	ND	**3**	ND	ND	ND

Table 3-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Operable Unit:	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:	BBMW-23I	BBMW-23I	BBMW-23I	BBMW-23S	BBMW-23S	BBMW-23S	BBMW-24D	BBMW-24I	BBMW-24S	BBMW-25D	BBMW-25I	BBMW-25S	GM-03D	GM-03I	GM-03S	GM-05D
Sample Interval (feet):	33-43	33-43	33-43	5-15	5-15	5-15	59.5-69.5	32-42	4-14	62-72	25-35	4-14	53.18-68.18	30.03-45.03	6.78-21.78	60.95-75.95
Sample Date:	7/15/2008	8/21/2008	10/1/2008	7/15/2008	8/21/2008	10/1/2008	8/2/2008	8/27/2008	8/27/2008	9/10/2008	9/11/2008	9/11/2008	8/11/2008	8/11/2008	8/11/2008	8/28/2008
BTEX (ug/l)																
Benzene	10 U	10 U	10 U	**17**	**17**	**19**	10 U	10 U	**49**	10 U	**22**	10 U	10 U	**91**	**16**	10 U
Toluene	10 U	10 U	10 U	**11000**	**10000**	**12000**	10 U	10 U	10 U	10 U	**52**	10 U	10 U	**130**	**2 J**	10 U
Ethylbenzene	10 U	10 U	10 U	**72**	**63**	**39**	**1 J**	10 U	**3 J**	10 U	**2 J**	10 U	10 U	**2 J**	10 U	10 U
Xylene, m,p-	10 U	10 U	10 U	**5800**	**5400**	**5600**	**2 J**	10 U	**11**	**5 J**	**3 J**	10 U	10 U	**5**	**1 J**	10 U
Xylene, o-	10 U	10 U	10 U	**1500**	**2200**	**1100**	**4 J**	10 U	**54**	**3 J**	**22**	10 U	10 U	**29**	**4 J**	10 U
Total BTEX	ND	ND	ND	**18389**	**17680**	**18758**	**7**	ND	**117**	**8**	**101**	ND	ND	**257**	**23**	ND
Other VOCs (ug/l)																
Acetone	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ
Butanone, 2-	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	10 UJ	10 UJ	10 U	**13 J**	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U
Dichloroethane, 1,1-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U
Isopropyl benzene	10 U	10 U	10 U	**370 J**	**330 J**	**460 J**	10 U	10 U	**31**	10 U	**5**	10 U	10 U	**10**	10 U	10 U
Methyl tert-butyl ether	**29 J**	**8**	**4 J**	10 UJ	10 U	10 UJ	10 U	**2 J**	10 U	**26**	**3 J**	10 U	10 U	10 U	10 U	10 U
Naphthalene	**4 J**	**3 J**	**120**	**2100**	**3400 J**	**7100**	**110**	10 U	**160**	**120**	**95**	10 U	10 U	**350**	**72**	10 U
Propylbenzene, n-	10 U	10 U	10 U	**120**	**110**	**79**	10 U	10 U	**3 J**	10 U	**3 J**	10 U	10 U	**3 J**	10 U	10 U
Styrene	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	10 U	10 U
Tetrachloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrahydrofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	10 U	10 U	**3 J**	**370**	**400 J**	**390**	10 U	10 U	**9**	**2 J**	**6 J**	10 U	10 U	**14**	10 U	10 U
Trimethylbenzene, 1,2,4-	10 U	10 U	**8**	**970 J**	**1300**	**1400**	10 U	10 U	**12**	**3 J**	**52**	10 U	10 U	**38**	10 U	10 U
Trimethylpentane, 2,2,4-	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U
Non-carcinogenic PAHs (ug/l)																
Acenaphthene	10 U	10 U	**3 J**	**27**	**28**	**22**	10 U	10 U	**6**	10 U	**3 J**	10 U	10 U	**7**	10 U	10 U
Acenaphthylene	10 U	10 U	**13**	**2 J**	**4 J**	**2 J**	**2 J**	10 U	**4 J**	**3 J**	**23**	10 U	10 U	10 U	**3 J**	10 U
Anthracene	10 U	10 U	10 U	**9**	**11**	**8**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	10 U	10 U	10 U	**3 J**	**4 J**	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	10 U	10 U	**5 J**	**13**	**13**	**10**	10 U	10 U	10 U	10 U	**5 J**	10 U	10 U	**2 J**	10 U	10 U
Methylnaphthalene, 2-	10 U	10 U	10 U	**94 J**	**140 J**	**67**	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	**4 J**	10 U	10 U
Naphthalene	**2 J**	10 U	10 U	**1600**	**1600**	**1400**	10 U	10 U	**110**	**53**	**49**	10 U	10 U	10 U	**44**	10 U
Phenanthrene	10 U	10 U	**2 J**	**38**	**34**	**27**	10 U	10 U	10 U	10 U	**6**	10 U	10 U	10 U	10 U	10 U
Pyrene	10 U	10 U	10 U	**3 J**	**4 J**	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Noncarcinogenic PAHs	**2**	ND	**23**	**1789**	**1838**	**1544**	**2**	ND	**120**	**59**	**86**	ND	ND	**13**	**47**	ND
Carcinogenic PAHs (ug/l)																
Chrysene	10 U	10 U	10 U	10 U	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 Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)																
Total PAHs	**2**	ND	**23**	**1789**	**1838**	**1544**	**2**	ND	**120**	**59**	**86**	ND	ND	**13**	**47**	ND

Table 3-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Operable Unit:	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:	GM-05I	GM-05S	GMP-01	GMP-02	GMP-04	OU2IW-01S	OU2MW- 01D	OU2MW-01I	OU2MW-01I2	OU2MW-01S	OU2MW-01WT	OU2MW-02D	OU2MW-02I	OU2MW-02I2	OU2MW-02S
Sample Interval (feet):	35.05-48.05	5.1-20.1	25-30	18-23	15.5-20.5	3-8	65-70	35-40	50-55	20-25	3-8	65-70	35-40	50-55	20-25
Sample Date:	8/28/2008	8/28/2008	8/18/2008	8/28/2008	8/20/2008	9/2/2008	9/10/2008	9/5/2008	9/10/2008	9/5/2008	9/10/2008	9/9/2008	9/9/2008	9/9/2008	9/9/2008
BTEX (ug/l)															
Benzene	10 U	**13**	**74**	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	10 U	10 U	**11**	**2 J**	**6**
Toluene	10 U	10 U	**39**	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	**6**	10 U	**7**
Ethylbenzene	10 U	10 U	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**41**	10 U	10 U
Xylene, m,p-	10 U	**1 J**	**27**	10 U	10 U	10 U	10 U	**7 J**	10 U	**5 J**	10 U	10 U	**53**	10 U	**2 J**
Xylene, o-	10 U	**2 J**	**26**	10 U	10 U	10 U	10 U	**6**	10 U	**4 J**	10 U	10 U	**170**	10 U	**5**
Total BTEX	ND	**16**	**170**	ND	ND	ND	ND	**13**	ND	**15**	ND	ND	**281**	**2**	**20**
Other VOCs (ug/l)															
Acetone	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U
Butanone, 2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**22**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Dichloroethane, 1,1-	10 U	10 U	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
Dichloroethene, 1,1-	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	10 U
Dichloroethene, cis-1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ
Isopropyl benzene	10 U	10 U	**5**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**44**	10 U	**4 J**
Methyl tert-butyl ether	10 U	10 U	**6**	**3 J**	10 U	10 U	10 U	**4 J**	10 U	**2 J**	10 U	10 U	**12**	**7**	10 U
Naphthalene	10 U	**6**	**1300**	10 U	10 U	10 U	10 U	**5 J**	10 U	**320**	10 U	10 U	**2900**	**4 J**	**16**
Propylbenzene, n-	10 U	10 U	**7**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**13**	10 U	10 U
Styrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	10 U	10 U	**4 J**	10 U	10 U	10 U	10 U	**3 J**	10 U	**1 J**	10 U	10 U	**1 J**	10 U	10 U
Tetrahydrofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	10 U	**2 J**	**47**	10 U	10 U	10 U	10 U	**43**	10 U	**10**	10 U	10 U	**53**	10 U	10 U
Trimethylbenzene, 1,2,4-	10 U	10 U	**140**	10 U	10 U	10 U	10 U	**11**	10 U	**28**	10 U	10 U	**32**	10 U	**3 J**
Trimethylpentane, 2,2,4-	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 Uj
Non-carcinogenic PAHs (ug/l)															
Acenaphthene	10 U	10 U	**7**	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	**24**	**3 J**	**14**
Acenaphthylene	10 U	**5**	**72**	10 U	10 U	10 U	10 U	**12**	10 U	10 U	10 U	10 U	**140 J**	**9**	**16**
Anthracene	10 U	10 U	**5 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	10 U	**2 J**
Fluoranthene	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	10 U	10 U
Fluorene	10 U	10 U	**18**	10 U	10 U	10 U	10 U	**5 J**	10 U	10 U	10 U	10 U	**4 J**	10 U	**4 J**
Methylnaphthalene, 2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	10 U	10 U	**20 J**	10 U	10 U
Naphthalene	10 U	**2 J**	**650**	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	**2600**	10 U	10 U
Phenanthrene	10 U	10 U	**22**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**29**	10 U	**10**
Pyrene	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	10 U	10 U
Total Noncarcinogenic PAHs	ND	**7**	**778**	ND	ND	ND	ND	**25**	ND	ND	ND	ND	**2821**	**12**	**46**
Carcinogenic PAHs (ug/l)															
Chrysene	10 U	10 U	10 U	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 Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)															
Total PAHs	ND	**7**	**778**	ND	ND	ND	ND	**25**	ND	ND	ND	ND	**2821**	**12**	**46**

Table 3-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Operable Unit:	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:	OU2MW-03D	OU2MW-03I	OU2MW-03I2	OU2MW-03S	OU2MW-04D	OU2MW-04I	OU2MW-04I2	OU2MW-04S	OU2MW-04WT	OU2MW-05	OU2MW-06	OU2MW-06S	OU2MW-07	OU2MW-07S	OU2MW-08D
Sample Interval (feet):	65-70	35-40	50-55	20-25	65-70	35-40	50-55	20-25	3-8	25-35	15-25	3-8	15-25	3-8	65-60
Sample Date:	9/4/2008	9/4/2008	9/4/2008	9/4/2008	9/3/2008	9/3/2008	9/3/2008	9/3/2008	9/3/2008	8/29/2008	8/21/2008	8/21/2008	8/20/2008	8/20/2008	8/12/2008
BTEX (ug/l)															
Benzene	10 U	**46**	10 U	**36**	10 U	**34**	10 U	**76 J**	10 U	**86**	10 U	10 U	10 U	10 U	10 U
Toluene	10 U	10 U	10 U	**3 J**	10 U	**8**	10 U	**34**	10 U	**56**	10 U	10 U	10 U	10 U	**3 J**
Ethylbenzene	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	**3 J**	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Xylene, m,p-	10 U	**1 J**	10 U	10 U	10 U	**8 J**	10 U	**54**	10 U	**17**	10 U	10 U	10 U	10 U	**8**
Xylene, o-	10 U	**38**	10 U	**3 J**	10 U	**15**	10 U	**33**	10 U	**20**	10 U	10 U	**3 J**	10 U	**5**
Total BTEX	ND	**85**	ND	**42**	ND	**67**	ND	**200**	ND	**181**	ND	ND	**3**	ND	**16**
Other VOCs (ug/l)															
Acetone	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Butanone, 2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethane, 1,1-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U
Dichloroethene, 1,1-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
Isopropyl benzene	10 U	**4 J**	10 U	10 U	10 U	**9**	10 U	**14**	10 U	**4 J**	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	10 U	**11**	**2 J**	10 U	10 U	**34**	10 U	**14**	10 U	**4 J**	**40**	10 U	**24**	10 U	10 U
Naphthalene	**5**	**2 J**	10 U	**4 J**	10 U	**1100**	10 U	**4900**	10 U	**280**	10 UJ	10 UJ	10 U	10 U	10 U
Propylbenzene, n-	10 U	10 U	10 U	10 U	10 U	**5**	10 U	**27**	10 U	**6**	10 U	10 U	10 U	10 U	10 U
Styrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**10**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	**5 J**	10 U	**2 J**	**1 J**	10 U	**2 J**	10 U	10 U
Tetrahydrofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	10 U	10 U	10 U	10 U	10 U	**28**	10 U	**190**	10 U	**23**	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	10 U	**21**	10 U	**34**	10 U	**17**	10 U	**390 J**	10 U	**63**	10 U	10 U	**2 J**	10 U	10 U
Trimethylpentane, 2,2,4-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Non-carcinogenic PAHs (ug/l)															
Acenaphthene	10 U	10 U	10 U	**16**	10 U	**5**	10 U	**17**	10 U	**4 J**	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	10 U	10 U	10 U	**38**	10 U	**23**	10 U	**180 J**	10 U	**15**	10 U	10 U	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	**5**	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U
Fluoranthene	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	10 U	10 U
Fluorene	10 U	10 U	10 U	**7**	10 U	10 U	10 U	**31**	10 U	**5**	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**440**	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Naphthalene	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	**3200**	10 U	**19**	10 U	**6**	10 U	10 U	**9 J**
Phenanthrene	10 U	10 U	10 U	**14**	10 U	**8**	10 U	**24**	10 U	**4 J**	10 U	10 U	10 U	10 U	10 U
Pyrene	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	10 U	10 U
Total Noncarcinogenic PAHs	ND	ND	ND	**79**	ND	**36**	ND	**3901**	ND	**50**	ND	**6**	ND	ND	**9**
Carcinogenic PAHs (ug/l)															
Chrysene	10 U	10 U	10 U	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 Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)															
Total PAHs	ND	ND	ND	**79**	ND	**36**	ND	**3901**	ND	**50**	ND	**6**	ND	ND	**9**

Table 3-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Operable Unit:	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:	OU2MW-08I	OU2MW-08I2	OU2MW-08S	OU2MW-08WT	OU2MW-09	OU2MW-10D	OU2MW-10I	OU2MW-10S	OU2MW-11D	OU2MW-11I	OU2MW-11I2	OU2MW-11S	OU2MW-12D	OU2MW-12I	OU2MW-12I2
Sample Interval (feet):	35-40	50-55	20-25	3-8	20-30	35-40	20-25	3-7	40-45	20-25	30-35	3-8	40-45	20-25	30-35
Sample Date:	8/12/2008	8/12/2008	8/12/2008	8/12/2008	9/9/2008	8/20/2008	8/20/2008	8/20/2008	8/13/2008	8/13/2008	8/13/2008	8/13/2008	8/18/2008	8/18/2008	8/18/2008
BTEX (ug/l)																
Benzene	**2 J**	**120**	**320 J**	10 U	10 U	**38**	**10**	10 U	10 U	**110**	**2 J**	10 U	10 U	**14**	10 U
Toluene	**3 J**	**39**	**170**	10 U	10 U	10 U	10 U	10 U	10 U	**61**	**5**	10 U	10 U	**11**	10 U
Ethylbenzene	10 U	**7**	**14**	10 U	10 U	10 U	10 U	10 U	10 U	**8**	**5**	10 U	10 U	**16**	10 U
Xylene, m,p-	**42**	**35**	**98**	10 U	10 U	**1 J**	10 U	10 U	10 U	**34**	**11**	10 U	10 U	**14**	10 U
Xylene, o-	**15**	**47**	**90**	10 U	10 U	10 U	10 U	10 U	10 U	**36**	**18**	10 U	10 U	**23**	10 U
Total BTEX	**62**	**248**	**692**	ND	ND	**39**	10	ND	ND	**249**	**41**	ND	ND	**78**	ND
Other VOCs (ug/l)																
Acetone	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Butanone, 2-	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	**2 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Dichlorobenzene, 1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U
Dichloroethane, 1,1-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Isopropyl benzene	**13**	**29**	**26**	10 U	10 U	**3 J**	10 U	10 U	10 U	**6**	**3 J**	10 U	10 U	**3 J**	10 U
Methyl tert-butyl ether	**13**	**57**	10 U	10 U	**18**	10 U	**9**	10 U	10 U	**5**	**44**	10 U	10 U	**82**	**6**
Naphthalene	**7900**	**4300**	**8300**	10 U	**5**	**54**	**6**	10 U	10 U	**2800**	**690**	10 U	**24**	**570**	**17**
Propylbenzene, n-	**26**	**24**	**44**	10 U	10 U	10 U	10 U	10 U	10 U	**10**	**4 J**	10 U	10 U	**2 J**	10 U
Styrene	**8**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**5**	10 U	10 U	**14**	10 U
Tetrachloroethene	**6**	**4 J**	**2 J**	10 U	10 U	10 U	10 U	10 U	10 UJ	**1 J**	**2 J**	10 UJ	10 U	10 U	10 U
Tetrahydrofuran	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	**200**	**110**	**330**	10 U	10 U	10 U	10 U	10 U	10 U	**77**	**18**	10 U	10 U	**24**	10 U
Trimethylbenzene, 1,2,4-	**460 J**	**110**	**490 J**	10 U	10 U	10 U	10 U	10 U	10 U	**180**	**10**	10 U	10 U	**29**	10 U
Trimethylpentane, 2,2,4-	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Non-carcinogenic PAHs (ug/l)																
Acenaphthene	**21**	**23**	**30**	10 U	10 U	**8**	10 U	10 U	10 U	**21**	**3 J**	10 U	10 U	**4 J**	10 U
Acenaphthylene	**400 J**	**260 J**	**310 J**	10 U	10 U	**4 J**	10 U	10 U	10 U	**78**	**31**	10 U	10 U	**24**	10 U
Anthracene	**8**	**3 J**	**11**	10 U	10 U	10 U	10 U	10 U	10 U	**4 J**	**1 J**	10 U	10 U	10 U	10 U
Fluoranthene	**1 J**	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Fluorene	**56**	**4 J**	**54**	10 U	10 U	10 U	10 U	10 U	10 U	**17**	**2 J**	10 U	10 U	**3 J**	10 U
Methylnaphthalene, 2-	**1000 J**	500 UJ	**810 J**	10 U	10 U	10 U	10 U	10 U	10 U	**100**	**4 J**	10 U	10 U	10 U	10 U
Naphthalene	**6200 J**	**2700 J**	**6100 J**	10 U	10 U	**20**	10 U	10 U	10 U	**790**	**230**	10 U	10 U	**89**	10 U
Phenanthrene	**51**	**47**	**48**	10 U	10 U	10 U	10 U	10 U	10 U	**16**	**4 J**	10 U	10 U	**2 J**	10 U
Pyrene	**1 J**	10 U	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U
Total Noncarcinogenic PAHs	**7738**	**3037**	**7369**	ND	ND	**32**	ND	ND	ND	**1030**	**275**	ND	ND	**122**	ND
Carcinogenic PAHs (ug/l)																
Chrysene	10 U	10 U	10 U	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 Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)																
Total PAHs	**7738**	**3037**	**7369**	ND	ND	**32**	ND	ND	ND	**1030**	**275**	ND	ND	**122**	ND

Table 3-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Operable Unit:	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:	OU2MW-12S	OU2MW-13D	OU2MW-13I	OU2MW-13S	OU2MW-14I	OU2MW-14I2	OU2MW-14S	OU2MW-15D	OU2MW-15I	OU2MW-15I2	OU2MW-15S	OU2MW-16D	OU2MW-16I	OU2MW-16I2	OU2MW-16S	OU2MW-17D
Sample Interval (feet):	3-7	35-40	20-25	3-8	20-25	45-58	3-8	40-45	20-25	30-35	3-8	35-40	15-20	25-30	3-8	60-70
Sample Date:	8/18/2008	8/29/2008	8/29/2008	8/26/2008	8/27/2008	8/27/2008	8/29/2008	8/19/2008	8/19/2008	8/19/2008	8/19/2008	8/20/2008	8/20/2008	8/20/2008	8/20/2008	8/25/2008
BTEX (ug/l)																
Benzene	10 U	**10**	**1 J**	10 U	10 U	10 U	10 U	10 U	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, m,p-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, o-	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	10 U	10 U
Total BTEX	ND	**10**	**1**	ND	ND	ND	ND	ND	**6**	ND	ND	ND	ND	ND	ND	ND
Other VOCs (ug/l)																
Acetone	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Butanone, 2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	**10 J**	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Dichloroethane, 1,1-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Isopropyl benzene	10 U	**8**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	10 U	**51**	10 U	10 U	**3 J**	10 U	10 U	10 U	**15**	10 U	10 U	**3 J**	10 U	**13**	10 U	10 U
Naphthalene	10 U	**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	10 UJ
Propylbenzene, n-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrahydrofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Non-carcinogenic PAHs (ug/l)																
Acenaphthene	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	10 U	10 U
Acenaphthylene	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	10 U	10 U	10 U
Anthracene	10 U	10 U	10 U	10 U	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	10 U	10 U	10 U	10 U	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	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	10 U	10 U	10 U	10 U	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	10 U	10 U	10 U	10 U	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	10 U	10 U	10 U	10 U	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	10 U	10 U	10 U	10 U	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 Noncarcinogenic PAHs	ND	**2**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (ug/l)																
Chrysene	10 U	10 U	10 U	10 U	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 Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)																
Total PAHs	ND	**2**	**1**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Table 3-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Operable Unit:	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:	OU2MW-17I	OU2MW-17I2	OU2MW-17S	OU2MW-18D	OU2MW-18I	OU2MW-18I2	OU2MW-19D	OU2MW-19I	OU2MW-19I2	OU2MW-20D	OU2MW-20I	OU2MW-20I2	OU2MW-20S	OU2MW-21I	OU2MW-21I2
Sample Interval (feet):	13-23	35-45	5-10	60-70	13-23	35-45	60-70	13-23	35-45	60-70	13-23	35-45	4-9	13-23	35-45
Sample Date:	8/25/2008	8/25/2008	8/25/2008	8/25/2008	8/25/2008	8/25/2008	8/25/2008	8/25/2008	8/25/2008	8/26/2008	8/26/2008	8/26/2008	8/26/2008	8/26/2008	8/26/2008
BTEX (ug/l)															
Benzene	10 U	10 U	10 U	10 U	**4000**	10 U	**6 J**	**37**	**2 J**	10 U	**1 J**	10 U	10 U	**260 J**	10 U
Toluene	10 U	10 U	10 U	10 U	**800**	10 U	**77**	**2100**	**20**	10 U	**240**	10 U	10 U	**370 J**	**4 J**
Ethylbenzene	10 U	10 U	10 U	10 U	**67**	10 U	**140**	**280**	**2 J**	10 U	**3 J**	10 U	**1 J**	**21**	10 U
Xylene, m,p-	10 U	10 U	10 U	10 U	**380**	10 U	**160**	**1200**	**83**	10 U	**56**	10 U	10 U	**140**	**60**
Xylene, o-	10 U	10 U	10 U	10 U	**200**	10 U	**160**	**1000**	**26**	10 U	**54**	10 U	10 U	**250 J**	**19**
Total BTEX	ND	ND	ND	ND	**5447**	ND	**543**	**4617**	**133**	ND	**354**	ND	**1**	**1041**	**83**
Other VOCs (ug/l)															
Acetone	10 UJ	10 UJ	10 U	10 U	**310 J**	10 UJ	10 U	10 U	**3 J**	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Butanone, 2-	10 U	10 U	10 U	10 U	**2100**	**12**	10 U	10 U	10 U	10 U	10 U	10 U	**14**	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	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	10 U
Cyclohexane	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	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	10 U	10 U
Dichlorobenzene, 1,3-	10 U	10 U	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
Dichlorobenzene, 1,4-	10 U	10 U	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
Dichlorodifluoromethane	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Dichloroethane, 1,1-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	10 U	10 U	10 UJ	10 UJ	**8 J**	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Isopropyl benzene	10 U	10 U	10 U	10 U	**57**	10 U	**4 J**	**60**	**110**	10 U	**63**	10 U	10 U	**30**	**14**
Methyl tert-butyl ether	10 U	**2 J**	10 U	10 U	10 U	**4 J**	**2 J**	10 U	**4 J**	**1 J**	10 U	**30**	10 U	**2 J**	**16**
Naphthalene	10 UJ	10 UJ	10 UJ	10 UJ	**3800 J**	10 UJ	**3100**	**1800 J**	**11000**	10 U	**140**	10 U	10 U	**4800**	**7200**
Propylbenzene, n-	10 U	10 U	10 U	10 U	**17**	10 U	**9**	10 U	**43**	10 U	**21**	10 U	10 U	**19**	**28**
Styrene	10 U	10 U	10 U	10 U	10 U	10 U	**130**	10 U	**19**	10 U	10 U	10 U	10 U	10 U	**11**
Tetrachloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**7**	10 U	10 U	10 U	10 U	**2 J**	**5**
Tetrahydrofuran	10 U	10 U	10 U	10 U	**2500**	**32**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	10 U	10 U	10 U	10 U	**220**	10 U	**63**	**180**	**360**	10 U	**9**	10 U	10 U	**210**	**270**
Trimethylbenzene, 1,2,4-	10 U	10 U	10 U	10 U	**170**	10 U	**130**	**250**	**470 J**	10 U	**200**	10 U	10 U	**340 J**	**460 J**
Trimethylpentane, 2,2,4-	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Non-carcinogenic PAHs (ug/l)															
Acenaphthene	**2 J**	10 U	10 U	10 U	**100 J**	10 U	**7**	**220**	**20**	10 U	**8**	10 U	10 U	**63**	**21**
Acenaphthylene	10 U	10 U	10 U	10 U	**150 J**	10 U	**93**	**110**	**300 J**	10 U	10 U	10 U	10 U	**190 J**	**250 J**
Anthracene	10 U	10 U	10 U	10 U	**9**	10 U	**3 J**	**12**	**9**	10 U	**3 J**	10 U	10 U	**8**	**10**
Fluoranthene	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U	**4 J**	**2 J**	10 U	**1 J**	10 U	10 U	**2 J**	**2 J**
Fluorene	10 U	10 U	10 U	10 U	**59**	10 U	**20**	**59**	**55**	10 U	**4 J**	10 U	10 U	**47**	**56**
Methylnaphthalene, 2-	10 U	10 U	10 U	10 U	**410**	10 U	**120**	**280**	**910**	10 U	**12**	10 U	10 U	**510 J**	**790**
Naphthalene	10 U	**1 J**	**2 J**	10 U	**2700**	10 U	**540**	**710**	**6300**	**2 J**	**54**	10 U	10 U	**3300**	**2800**
Phenanthrene	10 U	10 U	10 U	10 U	**56**	10 U	**18**	**60**	**50**	10 U	**8**	10 U	10 U	**43**	**54**
Pyrene	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U	**4 J**	**2 J**	10 U	**1 J**	10 U	10 U	**2 J**	**2 J**
Total Noncarcinogenic PAHs	**2**	**1**	**2**	ND	**3489**	ND	**801**	**1459**	**7648**	**2**	**91**	ND	ND	**4165**	**3985**
Carcinogenic PAHs (ug/l)															
Chrysene	10 U	10 U	10 U	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 Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)															
Total PAHs	**2**	**1**	**2**	ND	**3489**	ND	**801**	**1459**	**7648**	**2**	**91**	ND	ND	**4165**	**3985**

Table 3-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Operable Unit:	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:	OU2MW-26D	OU2MW-26I	OU2MW-26I2	OU2MW-26S	OU2MW-28I	OU2MW-28I2	OU2MW-28S	OU2MW-29D	OU2MW-29I	OU2MW-29I2	OU2MW-30D	OU2MW-30D2	OU2MW-30I	OU2MW-30I2	OU2MW-30I3
Sample Interval (feet):	60 - 70	13-23	35-45	6-11	28-33	40-45	5-15	45-50*	18-23	30-35	50-55	60-65	25-30	30-35	45-50
Sample Date:	8/26/2008	8/26/2008	8/26/2008	8/26/2008	9/22/08	9/22/08	9/19/08	9/16/08	9/17/08	9/17/08	9/19/08	9/19/08	9/19/08	9/18/08	9/18/08
BTEX (ug/l)															
Benzene	10 U	**14**	10 U	10 U	**71**	10 U	10 U	**6**	**32**	**13**	10 U	**2 J**	**86**	**180**	10 U
Toluene	**10**	**190**	**1 J**	10 U	**250**	10 U	10 U	**38**	**1100**	**800**	**10**	**14**	**48**	**100**	**4 J**
Ethylbenzene	**7**	**2 J**	10 U	10 U	**4 J**	10 U	10 U	**30**	**7**	**13**	**6**	**47**	**5 J**	**12**	10 U
Xylene, m,p-	**83**	**30**	**3 J**	10 U	**32**	10 U	10 U	**37**	**75**	**200**	**210**	**99**	**110**	**140**	**64**
Xylene, o-	**67**	**17**	**1 J**	10 U	**43**	10 U	10 U	**100**	**76**	**290**	**75**	**120**	**63**	**88**	**23**
Total BTEX	**167**	**253**	**5**	ND	**400**	ND	ND	**211**	**1290**	**1316**	**301**	**282**	**312**	**520**	**91**
Other VOCs (ug/l)															
Acetone	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	**5 J**	**4 J**	10 U	10 U
Butanone, 2-	10 U	10 U	10 U	10 U	10 U	10 U	**2 J**	**1 J**	**3 J**	10 U	10 U	**32**	**1 J**	10 U	10 U
Chlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**43**	10 U	**1 J**	10 U	**10**
Cyclohexane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U
Dichloroethane, 1,1-	10 U	10 U	10 U	10 U	10 U	**3 J**	10 U	**3 J**	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U
Dichloroethene, 1,1-	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U
Hexane, n-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isopropyl benzene	**15**	**26**	10 U	10 U	**92**	10 U	10 U	**34**	**59**	**46**	**21**	**11**	**11**	**16**	**9**
Methyl tert-butyl ether	10 U	**5**	**15**	10 U	10 UJ	**35 J**	10 UJ	**7**	**3 J**	**2 J**	**13 J**	**93 J**	**5 J**	**5 J**	**13 J**
Naphthalene	**1900**	**180**	**1100**	10 U	**450**	**6 J**	10 U	**2900**	**1200**	**4800**	**13000**	**7400**	**9900**	**7400**	**5600**
Propylbenzene, n-	**6**	**4 J**	**7**	10 U	**19**	10 U	10 U	**12**	**18**	**30**	**33**	**10**	**24**	**38**	**22**
Styrene	**53**	10 U	**5**	10 U	10 U	10 U	10 U	**28**	10 U	10 U	**28**	**140**	10 U	10 U	**9**
Tetrachloroethene	10 U	10 U	**3 J**	10 U	10 U	10 U	10 UJ	10 U	10 U	**5 J**	**4 J**	**2 J**	10 U	10 U	**4 J**
Tetrahydrofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ
Trichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	**53**	**11**	**51**	10 U	10 U	10 U	10 U	**45**	**63**	**260**	**360**	**63**	**190**	**160 J**	**170**
Trimethylbenzene, 1,2,4-	**78**	**39**	**83**	10 U	**200**	10 U	10 U	**24**	**260**	**350**	**680 J**	**89**	**710 J**	**720**	**390**
Trimethylpentane, 2,2,4-	10 U	10 U	10 U	10 U	10 U	**12**	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ
Non-carcinogenic PAHs (ug/l)															
Acenaphthene	**21**	**25**	**19**	10 U	**39**	10 U	10 U	**23**	**140**	**140 J**	**18**	**19 J**	**19**	**19**	**14**
Acenaphthylene	**34**	**47**	**210**	10 U	**12**	**12**	10 U	**160 J**	**130**	**190 J**	**240**	**180 J**	**250 J**	**330 J**	**18**
Anthracene	10 U	**4 J**	**9**	10 U	**4 J**	10 U	10 U	**4 J**	**10**	**12**	**6**	**2 J**	**9**	**9**	**5**
Fluoranthene	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	**2 J**	**3 J**	**1 J**	10 U	**3 J**	**3 J**	**1 J**
Fluorene	**11**	**6**	**8**	10 U	**10**	10 U	10 U	**3 J**	**57**	**69**	**46**	**4 J**	**54**	**53**	**39**
Methylnaphthalene, 2-	**8**	10 U	**30**	10 U	10 U	10 U	10 U	**33 J**	**37**	**260**	**530**	**100 J**	**570**	**840**	10 U
Naphthalene	**75**	**47**	**640**	**5**	**190**	10 U	10 U	**2400**	**430**	**2900**	**200**	**2300**	**4600**	**5300**	10 U
Phenanthrene	10 U	**25**	**44**	10 U	**26**	10 U	10 U	**33**	**55**	**65**	**46**	**33**	**52**	**48**	**16**
Pyrene	10 U	10 U	**3 J**	10 U	**2 J**	10 U	10 U	10 U	**2 J**	**3 J**	10 U	10 U	**3 J**	**3 J**	10 U
Total Noncarcinogenic PAHs	**149**	**154**	**965**	**5**	**283**	**12**	ND	**2656**	**863**	**3642**	**1087**	**2638**	**5560**	**6605**	**93**
Carcinogenic PAHs (ug/l)															
Chrysene	10 U	10 U	10 U	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 Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)															
Total PAHs	**149**	**154**	**965**	**5**	**283**	**12**	ND	**2656**	**863**	**3642**	**1087**	**2638**	**5560**	**6605**	**93**

Table 3-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Operable Unit:	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2	OU2
Sample Name:	OU2MW-30S	OU2MW-31I	OU2MW-31I2	OU2MW-32D	OU2MW-32I	OU2MW-32I2	OU2MW-32S	OU2MW-40I	OU2MW-40S	OU2MW-41I	OU2MW-41S	
Sample Interval (feet):	5-15	18-23	30-35	40-45	20-25	30-35	5-15	18-23	5-15	18-23	5-15	
Sample Date:	9/18/08	9/15/08	9/15/08	9/23/08	9/22/08	9/23/08	9/22/08	9/17/08	9/16/08	9/16/08	9/15/08	
BTEX (ug/l)												
Benzene	**44**	**170**	10 U	**29**	**640**	**590**	10 U	**76**	10 U	**660**	10 U	
Toluene	10 U	**280**	10 U	**1 J**	**1100**	**610**	10 U	**77**	10 U	**460**	10 U	
Ethylbenzene	10 U	**4 J**	10 U	10 U	**13**	**9**	10 U	**4 J**	10 U	**30**	10 U	
Xylene, m,p-	**3 J**	**15**	10 U	**5 J**	**110**	**64**	10 U	**13**	10 U	**150**	10 U	
Xylene, o-	**5**	**43**	10 U	**22**	**210 J**	**220 J**	10 U	**22**	10 U	**200 J**	10 U	
Total BTEX	**52**	**512**	ND	**57**	**2073**	**1493**	ND	**192**	ND	**1500**	ND	
Other VOCs (ug/l)												
Acetone	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	
Butanone, 2-	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	**1 J**	10 U	**1 J**	
Chlorobenzene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Chloroform	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Cyclohexane	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dichlorobenzene, 1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dichlorobenzene, 1,3-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dichlorobenzene, 1,4-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dichlorodifluoromethane	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	
Dichloroethane, 1,1-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dichloroethene, 1,1-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Dichloroethene, cis-1,2-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Hexane, n-	10 UJ	10 U	10 U	10 U	10 U	10 U	**49**	10 U	10 U	10 U	10 U	
Isopropyl benzene	**5 J**	**20**	10 U	**8**	**110**	**110**	10 U	**15**	10 U	**35**	10 U	
Methyl tert-butyl ether	10 U	10 U	**2 J**	**2 J**	10 UJ	10 UJ	10 U	**4 J**	10 U	10 U	10 U	
Naphthalene	**110**	**140**	10 U	**550**	**6700**	**11000**	10 U	**140**	10 U	**2500**	10 U	
Propylbenzene, n-	10 U	**6**	10 U	10 U	**32**	**33**	10 U	**5 J**	10 U	**24**	10 U	
Styrene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Tetrachloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Tetrahydrofuran	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	
Trichloroethene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Trimethylbenzene 1,3,5-/P-ethyltoluene	**5 J**	**10**	10 U	**8 J**	**170**	**110**	10 U	**8 J**	10 U	**240**	10 U	
Trimethylbenzene, 1,2,4-	**27**	**75**	10 U	**4 J**	**380 J**	**49**	10 U	**44**	10 U	**340 J**	10 U	
Trimethylpentane, 2,2,4-	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	
Non-carcinogenic PAHs (ug/l)												
Acenaphthene	10 U	**41**	10 U	**4 J**	**130 J**	**130 J**	10 U	**38**	10 U	**130 J**	10 U	
Acenaphthylene	10 U	**52**	10 U	**10**	**10**	**62**	10 U	**51**	10 U	**100 J**	10 U	
Anthracene	10 U	**1 J**	10 U	**1 J**	**4 J**	**8**	10 U	**2 J**	10 U	**7**	10 U	
Fluoranthene	10 U	10 U	10 U	10 U	**1 J**	**3 J**	10 U	10 U	10 U	**2 J**	10 U	
Fluorene	10 U	**17**	10 U	10 U	**38**	**17**	10 U	**14**	10 U	**47**	10 U	
Methylnaphthalene, 2-	10 U	10 U	10 U	10 U	**100 J**	**140 J**	10 U	10 U	10 U	**140 J**	10 U	
Naphthalene	**2 J**	**73**	10 U	**11**	**3700**	**4800**	10 U	**29**	10 U	**1900**	10 U	
Phenanthrene	10 U	**28**	**1 J**	**3 J**	**44**	**66**	10 U	**31**	10 U	**44**	10 U	
Pyrene	10 U	10 U	10 U	10 U	**2 J**	**4 J**	10 U	10 U	10 U	10 U	10 U	
Total Noncarcinogenic PAHs	**2**	**212**	**1**	**29**	**4029**	**5230**	ND	**165**	ND	**2370**	ND	
Carcinogenic PAHs (ug/l)												
Chrysene	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
Total Carcinogenic PAHs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Total PAHs (ug/l)												
Total PAHs	**2**	**212**	**1**	**29**	**4029**	**5230**	ND	**165**	ND	**2370**	ND	

Table 3-11
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

NOTES:

BTEX - benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs)
VOCs - volatile organic compounds
SVOCs - semivolatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
mg/l - milligrams per liter or parts per million (ppm)
ug/l - micrograms per liter or parts per billion (ppb)
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
NE - not established
ND - not detected; total concentration is listed as ND because no compounds were detected in the group
NA - not analyzed
Bolding indicates the compound was detected
Shading indicates an exceedance of established NYS AWQS
U - indicates not detected at or above the reporting limit shown
J - estimated value
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Table 4-1
Summary of Groundwater Parameter Data
Union Boulevard Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Monitoring Well	Jul-02	Aug-02	Sep-02	Oct-02	Dec-02	Jan-03	Feb-03	Mar-03	Apr-03	May-03	Jun-03	Aug-03	Sep-03	Jan-04	Feb-04	Mar-04	May-04	Jun-04	Jul-04	Aug-04	Sep-04	Nov-04
Conductivity (mS/cm)																						
IO-10	0.562	0.689	0.612	0.452	0.345	0.348	0.334	0.401	0.277	0.393	0.278	0.267	0.278	0.437	0.716	0.473	--	0.435	0.413	0.271	0.279	--
MW-34D	0.214	0.277	0.252	0.261	0.318	0.250	0.222	0.301	0.198	0.246	0.284	0.309	0.277	0.231	0.255	0.191	--	0.211	0.213	0.212	0.194	--
MW-34I	0.553	0.640	0.724	0.341	0.483	0.293	0.316	0.508	0.349	0.391	0.305	0.268	0.294	0.558	0.684	0.627	--	0.404	0.300	0.323	0.296	--
MW-34S	0.490	0.624	0.540	0.577	0.586	0.429	0.451	0.538	0.361	0.535	0.492	0.554	0.494	0.500	0.555	0.530	--	0.632	0.446	0.428	0.423	--
MW-46WR	--	--	--	--	0.476	0.372	0.391	0.455	0.616	0.991	0.821	--	0.609	0.721	1.140	1.330	--	1.220	0.709	0.629	0.432	--
MW-70/70S	0.388	0.578	0.556	0.477	0.422	0.310	0.339	0.606	1.250	0.328	0.356	0.443	0.355	0.394	0.481	0.340	--	0.645	0.644	0.630	0.435	--
MW-71/71S	0.520	0.666	0.575	0.524	0.558	0.336	0.325	0.414	0.476	0.535	0.428	0.587	0.641	0.477	0.510	0.463	0.452	0.580	0.519	0.475	0.556	0.408
Dissolved Oxygen (mg/L)																						
IO-10	12.0	0.8	10.0	5.5	16.0	8.0	0.0	2.5	25.0	22.0	19.0	11.0	12.0	7.0	5.0	4.0	--	0.0	0.0	2.0	0.0	--
MW-34D	1.0	1.0	1.6	0.9	1.6	0.4	2.0	0.0	1.2	1.0	1.0	0.8	0.4	0.4	0.0	0.0	--	0.0	0.0	0.0	0.0	--
MW-34I	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	--	0.0	0.0	0.0	0.0	--
MW-34S	0.4	0.0	1.0	0.2	0.0	0.0	2.0	0.0	1.8	0.0	0.8	0.8	0.2	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0	--
MW-46WR	--	--	--	--	14.0	0.0	0.0	0.5	3.0	2.0	1.2	--	0.0	1.2	1.0	1.4	--	0.0	0.0	0.5	0.0	--
MW-70/70S	20.0	3.0	6.0	7.0	18.0	9.0	0.0	1.0	11.0	9.0	19.0	19.0	22.0	26.0	25.0	40.0	--	0.0	0.0	0.0	0.0	--
MW-71/71S	2.8	0.8	1.8	0.0	0.6	0.0	2.0	0.0	0.3	0.0	1.4	0.0	0.2	2.6	5.0	1.8	9.4	7.0	0.0	0.0	0.0	0.0
Oxidation Reduction Potential (mV)																						
IO-10	11	-125	3	-73.5	1	117	-159	-104	-23	-4	3	11	-12	-16	27	21	--	-97	-101	-7	-72	--
MW-34D	55	85	58	28.5	25	-16	45	118	85	22	62	77	114	132	-95	-20	--	16	5	63	107	--
MW-34I	-147	-178	-142	-156	-100	-303	-222	-139	-164	-109	-137	-136	-117	-132	-150	-129	--	-150	-130	-144	-117	--
MW-34S	-150	-171	-24	-118.5	-67	35	85	-75	-71	-61	-115	-106	-42	-95	-140	-112	--	-165	-109	-124	-123	--
MW-46WR	--	--	--	--	-23	-10	-172	-83	-50	-35	-79	--	-80	-71	-105	-69	--	-181	-119	-110	-110	--
MW-70/70S	94	8	2	-8	62	169	-37	-50	46	42	10	19	34	43	12	6	--	-154	-117	-118	-148	--
MW-71/71S	-89	-95	-75	-84	-89	-42	-59	-88	-125	-85	-101	-81	-49	-56	-68	-68	-26	-48	-112	-97	-151	-51
pH (st. units)																						
IO-10	6.17	6.52	6.04	6.46	6.38	6.31	6.43	6.52	7.39	6.29	6.41	6.33	6.45	6.20	6.56	6.49	--	6.20	6.02	6.17	6.41	--
MW-34D	6.17	5.90	6.06	6.07	6.31	6.20	6.39	6.14	6.38	6.01	5.80	6.14	6.29	6.10	6.74	6.72	--	5.70	5.78	6.03	5.69	--
MW-34I	6.30	6.07	6.17	6.62	7.09	6.99	6.31	6.32	6.44	6.57	6.47	6.71	6.80	6.39	6.89	6.86	--	6.50	6.27	6.46	6.48	--
MW-34S	6.03	5.96	6.04	6.12	6.97	6.29	6.23	6.59	8.43	6.29	5.99	6.06	6.03	5.91	6.49	6.66	--	6.44	5.77	5.97	5.62	--
MW-46WR	--	--	--	--	6.47	6.23	6.17	6.30	6.11	5.99	5.80	--	6.02	5.99	6.43	6.50	--	6.08	5.87	6.20	6.09	--
MW-70/70S	5.92	5.91	5.99	5.93	5.72	5.96	6.11	6.44	6.02	5.96	5.71	5.92	6.00	5.88	6.38	6.63	--	6.31	5.82	6.11	5.96	--
MW-71/71S	5.94	6.27	5.92	6.12	7.09	6.13	6.26	6.35	6.17	6.16	5.88	5.99	6.03	5.91	6.44	6.75	6.07	6.16	5.74	5.85	6.07	6.26
Temperature (deg C)																						
IO-10	17.3	18.9	19.8	18.7	15.5	14.1	9.5	10.9	11.4	13.6	15.9	18.0	17.5	10.7	9.8	10.1	--	18.4	19.0	17.7	19.5	--
MW-34D	15.7	15.9	16.3	16.7	14.8	14.9	11.0	13.0	12.8	13.0	14.3	15.2	14.7	13.0	13.4	12.2	--	15.9	16.0	15.8	16.4	--
MW-34I	16.4	16.1	17.5	18.3	16.3	14.4	11.9	11.7	10.7	12.7	14.2	16.2	16.6	12.6	11.9	11.0	--	15.4	16.5	16.9	17.9	--
MW-34S	21.2	21.5	22.0	19.5	12.4	8.9	5.0	5.9	8.3	13.1	16.6	21.5	18.8	7.6	6.8	7.7	--	18.7	20.6	20.0	21.2	--
MW-46WR	--	--	--	--	13.0	10.6	7.3	8.3	10.8	15.8	18.8	--	19.7	7.2	6.5	8.6	--	21.9	24.0	22.8	22.7	--
MW-70/70S	19.0	20.4	21.7	19.2	13.8	11.1	7.1	7.4	8.6	13.2	15.6	20.2	18.2	8.9	7.8	8.1	--	19.4	20.3	20.9	20.7	--
MW-71/71S	17.9	20.6	21.4	19.3	13.0	10.2	4.1	6.5	8.0	12.4	15.9	20.4	18.3	7.8	7.1	7.8	10.4	18.7	19.9	19.8	20.6	15.7

Table 4-1
Summary of Groundwater Parameter Data
Union Boulevard Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Monitoring Well	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	Jan-06	Feb-06	Mar-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06
Conductivity (mS/cm)																						
IO-10	0.390	0.461	0.507	0.369	0.397	0.502	0.338	0.374	0.533	0.528	0.870	0.836	0.444	0.403	0.326	0.390	0.328	0.477	0.469	0.447	0.478	0.674
MW-34D	0.195	0.203	0.210	0.173	0.262	0.336	0.271	0.236	0.211	0.306	0.486	0.320	0.274	0.279	0.261	--	0.171	0.265	0.250	0.247	0.247	0.427
MW-34I	0.336	0.351	0.489	0.376	0.425	0.451	0.341	0.416	0.442	0.556	0.882	0.517	0.479	0.441	0.277	--	0.249	0.448	0.427	0.459	0.457	0.814
MW-34S	0.370	0.403	0.430	0.419	0.751	0.730	0.418	0.394	0.593	0.691	0.919	0.668	1.190	0.731	0.400	0.469	0.454	0.651	0.472	0.549	0.564	0.653
MW-46WR	0.535	1.000	1.565	2.370	2.230	1.420	1.350	0.549	0.940	0.551	1.100	1.000	0.830	0.604	1.200	0.950	1.180	0.638	0.583	0.441	0.629	0.726
MW-70/70S	0.311	0.296	0.516	0.449	0.574	0.600	0.392	0.355	0.415	0.469	0.718	0.501	0.654	0.541	0.353	0.387	0.327	0.504	0.373	0.433	0.493	0.674
MW-71/71S	0.308	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (mg/L)																						
IO-10	0.0	0.1	0.0	0.0	0.0	0.0	16.0	0.0	12.0	38.0	0.0	20.0	5.0	8.0	42.0	20.0	33.0	32.0	28.0	34.0	0.0	35.0
MW-34D	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	0.0	0.0	0.0	0.6	0.0	0.6
MW-34I	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	--	0.0	0.0	0.0	0.0	0.0	0.0
MW-34S	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MW-46WR	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	1.2	2.0	5.0	0.0	4.0
MW-70/70S	27.0	27.0	14.0	7.0	0.0	0.4	3.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	25.0	20.0	35.0	25.0	33.0	34.0	22.0	25.0
MW-71/71S	15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential (mV)																						
IO-10	-110	-96	-118	-117	-84	-92.5	11	-123	24	42	-53	16.3	44	5	51	42	42	129	30	40	-12	74
MW-34D	125	130	82	90	115	178	24	-15	191	-121	137	140	159	180	175	--	202	135	162	171	210	173
MW-34I	-87	-93	-106	-113	-141	-106	-156	-167	-137	-188	-130	-101	-109	-92	-109	--	-177	-81	-120	-121	-37	-93
MW-34S	-61	3	-33	-54	-183	-44	-141	-135	-88	-180	-39	-57	-127	-107	-150	-162	-177	-125	-121	-144	-77	-173
MW-46WR	-83	-67	-82.5	-103	-203	-94	-189	-148	-119	-291	-157	-108	-143	-100	-74	-219	-136	-93	-130	-115	-84	-82
MW-70/70S	68	105	73.5	40	-66	-62	-130	-132	-119	-279	-16	-45	-88	-90	14	-12	42	89	-7	-19	13	15
MW-71/71S	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
pH (st. units)																						
IO-10	6.73	6.49	6.36	6.46	6.30	6.34	6.34	6.37	6.39	6.20	6.14	6.14	6.60	6.49	6.29	6.13	5.69	7.26	6.00	6.44	6.16	6.79
MW-34D	6.32	5.99	5.95	6.24	6.03	6.03	6.07	6.15	6.07	5.74	5.98	5.99	6.40	6.07	5.93	--	5.48	5.84	5.98	6.36	6.09	6.26
MW-34I	6.71	6.46	6.39	6.37	6.35	6.42	6.56	6.40	6.74	6.02	6.24	6.28	6.74	6.46	6.34	--	6.15	6.53	6.21	6.37	6.12	6.40
MW-34S	6.21	6.04	6.06	6.19	5.96	5.84	5.88	5.84	6.05	5.85	6.12	6.03	6.39	6.09	6.00	6.07	5.94	6.37	6.04	6.19	6.16	6.48
MW-46WR	6.26	6.06	6.15	6.32	6.12	6.03	6.01	6.07	6.36	5.77	5.94	6.07	6.36	6.06	5.95	6.11	5.79	7.53	5.96	6.29	6.25	6.18
MW-70/70S	5.95	5.80	5.73	6.21	5.85	5.95	6.17	6.09	6.21	5.68	5.83	5.95	6.19	6.02	5.99	6.18	5.68	7.40	5.92	6.12	6.00	6.18
MW-71/71S	6.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature (deg C)																						
IO-10	11.3	11.0	10.2	11.8	13.1	15.3	17.0	18.1	19.6	17.4	16.6	16.3	12.9	10.9	11.8	13.3	16.5	18.4	18.1	18.7	17.7	16.4
MW-34D	11.8	12.8	12.4	12.9	12.5	14.6	14.8	15.9	16.5	15.4	15.4	15.0	13.8	13.2	13.1	--	15.0	16.0	15.0	15.7	15.3	15.5
MW-34I	11.6	11.6	10.7	11.7	11.5	14.4	14.6	16.1	18.1	16.9	16.7	15.3	13.4	12.1	11.7	--	15.1	16.9	16.4	17.5	16.8	16.5
MW-34S	8.0	6.6	6.8	11.4	12.8	16.8	18.7	21.2	22.1	17.6	15.8	10.4	9.2	8.6	9.5	13.5	18.1	21.1	21.3	21.0	18.3	15.0
MW-46WR	8.6	7.4	7.6	13.7	16.0	20.1	22.6	23.5	24.0	18.9	15.1	11.8	9.8	9.1	10.5	18.4	22.0	24.2	24.3	22.4	19.0	15.7
MW-70/70S	7.8	8.1	7.6	10.4	12.3	17.0	18.5	20.5	21.1	18.4	15.0	11.4	9.5	8.6	9.4	14.1	17.6	20.4	20.2	19.9	17.7	15.6
MW-71/71S	8.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-1
Summary of Groundwater Parameter Data
Union Boulevard Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Monitoring Well	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08
Conductivity (mS/cm)																							
IO-10	0.611	0.578	0.604	0.588	0.390	0.252	0.285	0.335	0.389	0.436	0.330	0.514	0.389	0.515	0.473	0.434	0.412	0.393	0.291	0.600	0.326	0.314	--
MW-34D	0.336	0.358	0.331	0.365	0.288	0.237	0.251	0.216	0.269	0.295	0.222	0.337	0.259	0.276	0.284	0.292	0.293	0.305	0.277	0.509	0.219	--	0.207
MW-34I	0.545	0.580	0.461	0.579	0.364	0.301	0.275	0.248	0.317	0.401	0.343	0.445	0.344	0.360	0.393	0.422	0.391	0.332	0.265	0.440	0.249	--	0.247
MW-34S	0.542	0.614	0.460	0.520	0.381	0.373	0.512	0.484	0.608	0.673	0.367	0.495	0.409	0.588	0.387	0.398	0.387	0.484	0.374	0.754	0.301	--	0.259
MW-46WR	5.810	0.592	0.635	0.695	0.443	0.345	0.474	0.511	0.562	0.561	0.301	0.574	0.484	0.420	0.351	0.324	0.335	0.367	0.337	0.732	0.260	0.309	--
MW-70/70S	0.597	0.570	0.543	0.445	0.424	0.327	0.358	0.395	0.422	0.456	0.320	0.439	0.371	0.392	0.369	0.354	0.366	0.373	0.337	--	0.583	0.239	--
MW-71/71S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dissolved Oxygen (mg/L)																							
IO-10	30.0	34.0	36.0	34.0	35.0	36.0	3.0	26.0	28.0	31.0	29.0	25.0	31.0	36.0	33.0	32.0	33.0	31.0	33.0	34.0	33.0	13.0	--
MW-34D	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.6	0.4	0.4	0.0	0.8	1.0	0.0	0.0	0.0	--	0.0
MW-34I	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.0	0.0	0.0	0.0	--	0.0
MW-34S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	--	0.0
MW-46WR	6.0	12.0	10.0	9.0	13.0	8.0	0.0	1.2	5.0	8.0	8.0	21.0	18.0	24.0	24.0	24.0	17.0	20.0	17.0	20.0	18.0	4.0	--
MW-70/70S	40.0	40.0	33.0	33.0	41.0	42.0	44.0	12.0	28.0	39.0	31.0	33.0	34.0	31.0	29.0	34.0	35.0	24.0	34.0	--	31.0	23.0	--
MW-71/71S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oxidation Reduction Potential (mV)																							
IO-10	64	73	95	-88	-5	22	-35	89	75	80	169	434	95	32	18	126	213	125	140	163	170	126	--
MW-34D	94	-42	-301	-278	-172	38	47	82	94	70	93	218	131	-4	1	220	233	209	-25	109	197	--	119
MW-34I	-126	-79	-336	-267	-334	-130	-130	-50	-126	-108	-65	-15	-171	-71	-41	-31	-3	-66	-142	-74	-38	--	-37
MW-34S	-207	-97	-165	-219	-361	-289	-297	-247	-234	-198	-101	-10	-177	-85	-71	-86	-91	-157	-198	-134	-123	--	-55
MW-46WR	-76	6	-23	-136	-102	-94	-207	-136	-98	-79	43	71	-71	5	5	17	27	-6	-55	-25	-20	-23	--
MW-70/70S	69	55	40	-110	-14	14	-34	18	29	-42	-18	385	-32	2	-10	28	11	-32	-20	--	-69	-33	--
MW-71/71S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
pH (st. units)																							
IO-10	6.51	6.10	6.26	6.22	5.97	6.09	5.43	5.75	5.83	6.12	5.96	5.59	6.30	6.69	6.37	6.32	6.69	6.16	6.51	6.31	5.78	5.89	--
MW-34D	5.90	5.74	5.84	5.67	5.95	5.96	5.97	5.98	5.90	5.86	5.98	5.21	5.98	6.02	5.83	5.76	6.23	5.82	5.90	5.79	5.79	--	5.82
MW-34I	6.03	5.94	6.12	5.87	6.03	6.02	6.18	6.16	6.06	5.87	6.81	5.41	8.19	5.99	6.10	6.11	6.60	7.67	6.16	6.14	5.97	--	5.94
MW-34S	6.26	6.01	6.01	6.04	6.21	6.16	6.04	5.92	5.94	5.88	6.90	5.45	8.15	5.96	5.91	5.85	6.60	8.15	5.96	5.85	5.85	--	5.92
MW-46WR	5.81	5.57	5.72	5.79	5.82	5.93	5.97	6.09	5.85	5.72	6.34	5.27	7.26	5.29	5.79	5.68	6.48	6.58	5.90	5.87	5.71	5.66	--
MW-70/70S	5.71	5.68	5.92	6.22	5.99	6.20	6.05	6.06	5.89	5.95	6.62	5.43	7.18	6.10	6.03	5.97	6.59	7.03	6.28	--	6.24	6.11	--
MW-71/71S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Temperature (deg C)																							
IO-10	15.2	13.6	11.6	10.4	12.9	13.3	16.3	17.5	18.9	18.3	16.9	17.1	13.7	11.1	10.7	10.8	12.4	15.5	17.0	18.7	20.1	20.3	--
MW-34D	14.9	14.1	12.7	12.9	13.3	12.7	14.2	14.7	15.8	16.1	15.7	15.6	13.8	12.6	12.7	13.4	12.9	13.6	15.1	16.0	16.6	--	16.7
MW-34I	15.4	13.6	11.5	11.8	12.2	11.5	14.8	14.8	16.6	17.5	17.2	16.2	14.1	12.0	10.9	12.1	12.1	12.8	15.3	17.2	17.0	--	18.1
MW-34S	13.2	10.5	6.5	6.5	10.2	13.0	17.2	19.2	20.2	20.7	19.0	14.6	10.9	8.7	6.8	7.9	11.6	14.0	17.9	20.7	21.3	--	21.2
MW-46WR	13.3	11.9	7.9	8.1	13.9	16.0	20.4	22.9	23.8	23.0	15.3	15.2	10.5	8.4	8.1	10.1	13.6	16.7	21.8	24.9	24.3	22.8	--
MW-70/70S	13.5	11.5	8.3	6.8	9.7	11.9	16.4	19.2	20.0	19.8	17.9	16.0	11.7	8.5	8.0	8.1	11.1	14.1	16.8	--	20.9	20.8	--
MW-71/71S	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Notes:
mS/cm - milli-siemens per centimeter
mg/L - milligrams/Liter
mV - milli-volt
Not Measured
Not Measured

Table 4-2
Summary of Groundwater Parameter Data
Brightwaters Yard Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Monitoring Well	Apr-04	May-04	Aug-04	Sep-04	Nov-04	Dec-04	Feb-05	Mar-05	May-05	Jun-05	Aug-05	Nov-05	Dec-05	Feb-06	Mar-06	May-06	Jun-06	Jul-06	Aug-06
Conductivity (mS/cm)																			
MW-64	--	0.330	0.268	--	--	0.379	--	0.269	--	0.409	0.370	--	0.590	0.401	--	--	0.273	--	0.266
MW-65	--	--	0.279	--	--	--	0.268	--	--	0.310	0.326	--	0.492	0.520	0.452	0.319	0.218	0.372	0.321
MW-73	0.351	--	0.405	--	0.500	--	0.609	--	0.732	--	0.526	0.851	--	0.827	--	0.469	--	--	0.414
MW-75	--	--	0.289	--	--	--	--	1.100	--	0.314	0.237	--	0.183	--	2.790	0.240	0.116	0.231	0.154
MW-76	--	0.408	0.448	--	0.287	--	0.229	--	--	0.279	0.313	--	0.376	0.355	--	0.208	--	--	0.388
MW-78	--	0.408	0.298	--	0.615	--	0.480	--	--	0.739	0.469	0.928	--	0.717	--	0.431	--	--	0.371
MW-79	--	0.253	0.361	--	0.207	--	0.347	--	--	0.630	0.607	1.080	--	0.592	--	0.406	--	--	0.639
MW-80	--	0.396	0.414	--	--	--	--	0.385	--	0.429	0.318	0.899	--	0.368	--	0.394	--	--	0.463
MW-81	--	0.386	0.423	--	0.245	--	--	0.425	--	0.654	0.491	--	0.941	0.680	--	--	0.345	--	0.380
MW-82	--	0.325	0.287	--	0.375	--	--	0.492	--	0.528	0.492	--	0.598	--	0.580	--	0.255	--	0.315
MW-83	--	0.460	0.522	--	0.297	--	0.343	--	--	0.319	0.239	--	0.476	0.518	--	0.327	--	--	0.332
PDMW-01	--	--	0.544	--	--	--	--	0.177	--	0.268	0.265	0.360	--	--	0.235	0.242	0.225	0.352	0.268
SV-02	--	0.502	0.107	0.107	--	0.114	--	0.363	--	0.491	0.520	--	0.606	--	0.669	--	0.366	--	0.165
SV-03	--	0.418	0.248	--	--	0.328	0.218	--	--	0.318	0.208	--	0.574	0.346	--	0.348	--	--	0.491
Dissolved Oxygen (mg/L)																			
MW-64	--	0.0	0.0	--	--	0.0	--	0.3	--	0.0	2.2	--	0.0	0.0	--	--	0.0	--	0.0
MW-65	--	--	0.0	--	--	--	0.7	--	--	5.9	19.2	--	1.7	20.0	28.0	10.0	13.6	17.0	23.0
MW-73	0.0	--	0.0	--	0.0	--	0.4	--	0.0	--	0.0	0.0	--	0.0	--	0.0	--	--	0.0
MW-75	--	--	0.0	--	--	--	--	0.8	--	0.0	0.7	--	0.0	--	0.0	0.0	0.0	0.0	0.0
MW-76	--	0.0	0.0	--	0.0	--	0.8	--	--	0.0	0.0	--	0.0	0.0	--	0.0	--	--	0.0
MW-78	--	0.0	0.0	--	0.0	--	0.3	--	--	0.0	0.0	0.0	--	0.0	--	0.0	--	--	0.0
MW-79	--	0.0	0.0	--	0.0	--	0.3	--	--	0.0	0.0	0.0	--	0.0	--	0.0	--	--	0.0
MW-80	--	0.0	0.0	--	--	--	--	0.4	--	0.0	0.0	0.0	--	0.0	--	0.0	--	--	0.0
MW-81	--	0.0	0.0	--	0.0	--	--	0.3	--	0.0	1.0	--	2.9	0.0	--	--	4.5	--	1.1
MW-82	--	0.0	0.0	--	0.0	--	--	0.3	--	0.0	2.9	--	0.0	--	0.0	--	3.8	--	0.0
MW-83	--	0.0	0.0	--	0.0	--	0.3	--	--	0.0	5.9	--	0.0	14.1	--	16.0	--	--	8.9
PDMW-01	--	--	0.0	--	--	--	--	20.0	--	20.0	11.9	20.0	--	--	23.0	20.0	26.0	25.0	20.5
SV-02	--	1.3	2.4	0.0	--	5.1	--	6.3	--	0.8	2.2	--	0.0	--	0.0	--	3.2	--	1.6
SV-03	--	0.0	0.0	--	--	0.0	0.5	--	--	0.0	0.0	--	0.0	0.0	--	0.0	--	--	1.3
Oxidation Reduction Potential (mV)																			
MW-64	--	-43	-43	--	--	-113	--	-73	--	-54	-3	--	-4	10	--	--	3	--	38
MW-65	--	--	-34	--	--	--	5	--	--	-65	-4	--	19	70	133	77	129	194	34
MW-73	-72	--	-126	--	-27	--	-23	--	-176	--	-156	-115	--	-154	--	-148	--	--	-272
MW-75	--	--	-37	--	--	--	--	38	--	-132	-152	--	-75	--	-22.5	-118	-85	-50	-60
MW-76	--	-37	-36	--	-7	--	10	--	--	-137	-97	--	-115	-59	--	-103	--	--	-110
MW-78	--	-150	-129	--	-121	--	-106	--	--	-160	-226	-118	--	-158	--	-158	--	--	-242
MW-79	--	-101	-99	--	-56	--	-72	--	--	-175	-174	-84	--	-167	--	-103	--	--	-135
MW-80	--	-103	-98	--	--	--	--	-130	--	-154	-186	-205	--	-268	--	-303	--	--	-215
MW-81	--	-130	-129	--	-93	--	--	-96	--	-181	-142	--	-37	-156	--	--	-155	--	-161
MW-82	--	-95	-109	--	-51	--	--	-85	--	-175	-190	--	-113	--	-102	--	-129	--	-225
MW-83	--	-100	-6	--	-23	--	-159	--	--	-113	-80	--	-95	102	--	37	--	--	-1
PDMW-01	--	--	-39	--	--	--	--	177	--	192	192	181	--	--	188.5	166	180	290	116.5
SV-02	--	150	98	98	--	173	--	185	--	122	84	--	-47	--	69	--	125	--	-60
SV-03	--	-82	-55	--	--	-13	-3	--	--	-173	-138	--	-167	-112	--	-110	--	--	-146

Table 4-2
Summary of Groundwater Parameter Data
Brightwaters Yard Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Monitoring Well	Apr-04	May-04	Aug-04	Sep-04	Nov-04	Dec-04	Feb-05	Mar-05	May-05	Jun-05	Aug-05	Nov-05	Dec-05	Feb-06	Mar-06	May-06	Jun-06	Jul-06	Aug-06
pH (st. units)																			
MW-64	--	6.42	6.02	--	--	6.62	--	6.17	--	6.17	6.10	--	5.97	6.02	--	--	6.06	--	6.08
MW-65	--	--	5.79	--	--	--	6.04	--	--	5.75	5.75	--	5.68	5.62	5.57	5.77	5.42	5.31	5.67
MW-73	5.96	--	5.88	--	5.99	--	5.70	--	6.00	--	6.14	5.80	--	6.17	--	5.96	--	--	6.16
MW-75	--	--	5.77	--	--	--	--	5.65	--	5.55	5.66	--	5.84	--	5.62	6.03	5.70	5.95	5.72
MW-76	--	6.09	6.32	--	6.34	--	6.29	--	--	5.95	6.15	--	6.21	6.22	--	6.21	--	--	6.20
MW-78	--	6.23	6.26	--	6.68	--	6.39	--	--	6.31	6.42	6.17	--	6.15	--	6.20	--	--	6.46
MW-79	--	6.16	5.97	--	6.15	--	6.25	--	--	6.15	6.04	5.89	--	5.98	--	5.79	--	--	5.59
MW-80	--	5.86	5.58	--	--	--	--	5.85	--	5.74	5.96	5.68	--	6.06	--	6.21	--	--	6.27
MW-81	--	6.23	5.96	--	6.24	--	--	5.98	--	6.16	6.22	--	5.89	5.96	--	--	6.01	--	6.04
MW-82	--	6.27	6.08	--	6.34	--	--	6.10	--	6.07	6.12	--	5.66	--	5.83	--	5.78	--	5.96
MW-83	--	6.41	6.29	--	6.56	--	6.66	--	--	5.97	6.08	--	6.24	6.05	--	6.28	--	--	5.92
PDMW-01	--	--	5.94	--	--	--	--	5.86	--	5.86	5.96	6.09	--	--	6.12	6.15	5.68	7.38	6.18
SV-02	--	6.10	6.27	6.27	--	5.86	--	5.47	--	5.77	5.54	--	5.95	--	6.12	--	6.19	--	5.96
SV-03	--	6.09	6.02	--	--	5.94	6.16	--	--	5.97	5.98	--	6.01	6.18	--	6.14	--	--	5.90
Temperature (deg c)																			
MW-64	--	13.3	15.0	--	--	13.8	--	13.6	--	14.1	14.4	--	14.1	14.3	--	--	14.6	--	14.1
MW-65	--	--	19.3	--	--	--	10.5	--	--	14.1	19.3	--	13.6	11.8	13.4	15.1	17.9	20.6	17.6
MW-73	10.2	--	18.2	--	14.5	--	7.8	--	12.7	--	17.8	14.8	--	9.1	--	13.3	--	--	17.9
MW-75	--	--	21.2	--	--	--	--	5.7	--	15.4	20.6	--	11.4	--	8.5	14.7	19.4	21.7	21.1
MW-76	--	12.8	21.6	--	13.9	--	5.9	--	--	15.7	22.9	--	11.8	7.6	--	15.4	--	--	20.6
MW-78	--	12.6	15.2	--	13.2	--	10.0	--	--	12.7	15.4	14.3	--	12.0	--	13.8	--	--	16.2
MW-79	--	12.4	14.3	--	13.4	--	11.6	--	--	12.7	15.5	13.4	--	11.4	--	13.5	--	--	15.0
MW-80	--	12.2	16.2	--	--	--	--	10.7	--	13.6	15.3	14.4	--	12.3	--	13.9	--	--	15.2
MW-81	--	12.4	15.5	--	14.3	--	--	11.0	--	12.8	16.2	--	14.3	11.8	--	--	13.7	--	15.1
MW-82	--	13.1	17.7	--	14.4	--	--	11.4	--	13.2	18.0	--	12.5	--	11.0	--	14.1	--	16.0
MW-83	--	14.2	20.3	--	14.2	--	10.6	--	--	14.2	19.4	--	12.9	11.8	--	14.7	--	--	17.7
PDMW-01	--	--	17.5	--	--	--	--	10.5	--	11.9	18.0	17.7	--	--	11.5	13.2	16.3	18.0	17.9
SV-02	--	14.3	17.0	22.9	--	9.1	--	3.8	--	19.7	22.1	--	10.6	--	5.4	--	21.5	--	22.5
SV-03	--	12.3	20.2	--	--	9.8	6.8	--	--	15.5	20.8	--	12.5	8.4	--	15.3	--	--	19.8

Notes:
mS/cm - milli-siemens per centimeter
mg/L - milligrams/Liter
mV - milli-volt

Table 4-2
Summary of Groundwater Parameter Data
Brightwaters Yard Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Monitoring Well	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
Conductivity (mS/cm)																									
MW-64	--	--	0.393	--	--	--	0.368	--	--	--	--	0.292	--	--	0.226	--	11.200	--	--	--	--	0.250	--	--	--
MW-65	0.326	0.258	0.355	0.265	0.322	0.433	0.328	0.293	0.207	0.187	0.207	0.207	0.304	0.211	0.314	0.216	0.270	0.283	0.281	0.263	0.295	0.400	0.800	0.589	0.243
MW-73	--	--	0.515	--	0.507	--	--	--	--	--	--	0.936	--	--	0.227	--	1.310	--	--	--	0.337	--	--	0.613	--
MW-75	0.132	0.124	0.455	0.134	0.110	0.878	0.316	0.211	0.180	0.200	--	0.188	0.190	0.143	0.335	0.269	0.294	0.269	0.211	--	0.164	0.200	0.334	0.311	--
MW-76	--	--	0.364	0.376	--	--	--	0.594	--	--	--	--	0.546	--	0.405	--	0.383	--	--	--	--	0.489	--	0.999	--
MW-78	--	--	0.301	--	--	0.439	--	--	--	--	--	0.274	--	--	0.278	--	--	0.231	--	--	0.294	--	--	0.713	--
MW-79	--	--	0.500	--	--	0.635	--	--	--	--	--	0.353	--	--	0.335	--	--	0.237	--	--	0.300	--	--	--	--
MW-80	--	--	0.505	--	--	0.390	--	--	--	--	--	0.344	--	--	0.246	--	--	0.287	--	--	--	0.478	--	0.592	--
MW-81	--	--	0.446	--	--	--	0.373	--	--	--	--	--	--	--	0.196	--	--	0.152	--	--	--	0.359	--	0.605	--
MW-82	--	--	0.370	--	--	--	--	--	--	--	--	--	0.261	0.221	0.200	0.247	0.271	0.282	0.300	0.298	0.258	0.279	0.504	0.491	0.179
MW-83	--	--	0.486	--	--	--	2.340	--	--	--	--	--	0.269	--	0.214	--	0.751	--	--	--	0.381	--	--	0.672	--
PDMW-01	0.820	0.321	0.456	0.369	0.397	0.425	0.382	0.269	0.221	0.304	0.307	0.306	0.367	0.273	0.381	0.276	0.283	0.330	0.286	0.240	0.262	0.316	--	0.490	0.185
SV-02	--	--	--	0.590	--	--	--	0.512	--	0.255	--	--	--	0.158	--	0.301	--	0.189	--	--	--	0.295	--	0.108	--
SV-03	0.500	--	--	--	--	--	--	0.785	--	--	0.282	--	0.466	--	--	0.371	--	0.542	--	--	--	0.373	--	--	--
Dissolved Oxygen (m																									
MW-64	--	--	0.0	--	--	--	0.0	--	--	--	--	0.0	--	--	0.0	--	1.6	--	--	--	--	0.8	--	--	--
MW-65	30.0	27.0	21.0	32.0	23.0	16.0	20.0	15.0	15.0	31.0	27.0	33.0	19.0	31.0	31.0	26.0	26.0	18.0	21.0	21.0	13.0	14.0	21.0	35.0	26.0
MW-73	--	--	0.0	--	0.0	--	--	--	--	--	--	0.0	--	--	0.0	--	2.0	--	--	--	1.4	--	--	0.0	--
MW-75	1.0	0.0	0.0	0.0	0.0	1.6	0.6	0.0	0.0	0.0	--	0.0	0.0	0.0	0.6	4.0	0.6	0.6	0.0	--	0.0	0.6	0.0	0.0	--
MW-76	--	--	0.0	0.0	--	--	--	0.0	--	--	--	--	0.0	--	0.0	--	0.0	--	--	--	--	0.5	--	0.0	--
MW-78	--	--	0.0	--	--	0.0	--	--	--	--	--	0.0	--	--	0.0	--	--	0.0	--	--	6.0	--	--	0.0	--
MW-79	--	--	0.5	--	--	0.0	--	--	--	--	--	13.5	--	--	4.3	--	--	0.0	--	--	23.0	--	--	--	--
MW-80	--	--	0.0	--	--	0.0	--	--	--	--	--	0.0	--	--	0.0	--	--	1.2	--	--	--	0.6	--	0.0	--
MW-81	--	--	1.0	--	--	--	0.0	--	--	--	--	--	--	--	0.0	--	--	0.9	--	--	--	8.5	--	11.2	--
MW-82	--	--	11.9	--	--	--	--	--	--	--	--	--	31.0	22.0	0.0	4.0	10.0	5.0	16.0	27.0	15.0	33.0	23.0	25.0	27.0
MW-83	--	--	9.2	--	--	--	11.8	--	--	--	--	--	4.0	--	11.2	--	3.0	--	--	--	4.9	--	--	15.8	--
PDMW-01	24.0	27.0	20.0	22.0	19.0	32.0	28.0	24.0	31.0	30.0	26.0	25.0	9.0	13.0	24.0	21.0	27.0	20.0	20.0	31.0	20.0	34.0	--	24.0	0.4
SV-02	--	--	--	2.5	--	--	--	4.0	--	1.3	--	--	--	0.1	--	3.8	--	0.9	--	--	--	0.9	--	1.7	--
SV-03	0.0	--	--	--	--	--	--	0.0	--	--	0.0	--	0.0	--	--	0.4	--	0.0	--	--	--	0.5	--	--	--
Oxidation Reduction I																									
MW-64	--	--	43	--	--	--	148	--	--	--	--	111	--	--	132	--	79	--	--	--	--	87	--	--	--
MW-65	41	71	145	146	205	-31	-118	-40	13	95	82	105	22	96	298	43	6	14	135	188	148	151	188	186	155
MW-73	--	--	-167	--	-194	--	--	--	--	--	--	-169	--	--	-115	--	-98	--	--	--	-205	--	--	-187	--
MW-75	-185	-10	-53	-103	-22	-219	-233	-321	-182	-224	--	-217	-134	-24	118	-19	-25	-18	-24	--	-158	-190	-33	-152	--
MW-76	--	--	-62	-115	--	--	--	-175	--	--	--	--	-199	--	-74	--	-35	--	--	--	--	-163	--	-65	--
MW-78	--	--	-120	--	--	-289	--	--	--	--	--	-232	--	--	-117	--	--	-43	--	--	60	--	--	-166	--
MW-79	--	--	-121	--	--	-196	--	--	--	--	--	-96	--	--	-42	--	--	-118	--	--	54	--	--	--	--
MW-80	--	--	-194	--	--	-233	--	--	--	--	--	-229	--	--	-247	--	--	-172	--	--	--	-258	--	-314	--
MW-81	--	--	-163	--	--	--	-193	--	--	--	--	--	--	--	-47	--	--	-168	--	--	--	-69	--	-87	--
MW-82	--	--	-73	--	--	--	--	--	--	--	--	--	-83	110	-33	-136	-43	-65	70	109	16	-24	-23	-53	7
MW-83	--	--	53	--	--	--	-88	--	--	--	--	--	62	--	70	--	1	--	--	--	138	--	--	4	--
PDMW-01	154	185	151	202	302	3	-75	87	96	49	139	184	99	133	474	134	41	26	125	173	122	139	--	121	71
SV-02	--	--	--	63	--	--	--	-33	--	66	--	--	--	99	--	343	--	29	--	--	--	93	--	154	--
SV-03	-132	--	--	--	--	--	--	-184	--	--	-77	--	-201	--	--	132	--	-80	--	--	--	-183	--	--	--

Table 4-2
Summary of Groundwater Parameter Data
Brightwaters Yard Oxygen Injection System
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Monitoring Well	Sep-06	Oct-06	Nov-06	Dec-06	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08
pH (st. units)																									
MW-64	--	--	6.46	--	--	--	5.74	--	--	--	--	5.95	--	--	5.89	--	6.48	--	--	--	--	5.89	--	--	--
MW-65	5.86	5.80	6.07	5.57	5.46	5.54	5.57	5.71	5.86	5.78	5.50	5.77	5.69	5.62	5.09	6.65	5.73	5.67	5.57	5.98	5.79	5.60	5.24	5.58	5.51
MW-73	--	--	6.48	--	5.90	--	--	--	--	--	--	5.69	--	--	7.10	--	7.35	--	--	--	8.03	--	--	6.01	--
MW-75	6.06	5.74	6.23	5.37	5.63	5.30	5.58	5.82	5.90	5.60	--	5.64	5.43	6.33	4.83	6.93	4.87	5.57	5.65	--	5.93	7.55	5.51	5.16	--
MW-76	--	--	6.69	6.21	--	--	--	6.09	--	--	--	--	6.24	--	6.70	--	6.10	--	--	--	--	7.10	--	6.20	--
MW-78	--	--	7.11	--	--	6.20	--	--	--	--	--	6.49	--	--	7.70	--	--	6.30	--	--	6.38	--	--	6.07	--
MW-79	--	--	6.35	--	--	5.92	--	--	--	--	--	6.00	--	--	6.56	--	--	5.81	--	--	6.22	--	--	--	--
MW-80	--	--	6.46	--	--	6.07	--	--	--	--	--	6.00	--	--	7.20	--	--	5.86	--	--	--	7.49	--	5.84	--
MW-81	--	--	6.38	--	--	--	5.88	--	--	--	--	--	--	--	6.33	--	--	5.92	--	--	--	6.96	--	5.78	--
MW-82	--	--	6.38	--	--	--	--	--	--	--	--	--	5.91	6.16	4.80	7.85	5.78	6.05	5.81	6.25	6.06	7.11	5.96	5.92	5.99
MW-83	--	--	6.58	--	--	--	6.20	--	--	--	--	--	5.82	--	5.78	--	5.96	--	--	--	6.09	--	--	5.74	--
PDMW-01	6.29	6.15	6.66	6.11	6.14	6.26	6.22	6.25	6.40	6.31	6.31	6.22	5.96	5.85	5.23	5.92	6.18	6.16	6.09	6.41	6.23	6.32	--	6.20	5.99
SV-02	--	--	--	6.02	--	--	--	6.09	--	6.02	--	--	--	5.58	--	5.03	--	5.75	--	--	--	6.10	--	5.65	--
SV-03	6.40	--	--	--	--	--	--	5.67	--	--	6.04	--	6.06	--	--	5.35	--	5.83	--	--	--	6.73	--	--	--
Temperature (deg c)																									
MW-64	--	--	14.9	--	--	--	13.6	--	--	--	--	14.2	--	--	13.8	--	13.1	--	--	--	--	14.5	--	--	--
MW-65	17.6	14.9	14.9	14.8	12.4	10.7	10.7	13.1	11.8	18.4	18.9	18.4	17.7	17.7	14.7	12.6	10.1	10.9	11.5	13.4	14.4	16.5	20.9	20.1	18.1
MW-73	--	--	14.9	--	9.4	--	--	--	--	--	--	18.0	--	--	16.5	--	8.9	--	--	--	11.3	--	--	18.7	--
MW-75	19.2	15.7	13.1	12.2	9.1	5.5	7.1	12.2	13.9	17.6	--	20.4	19.1	18.4	12.4	8.9	7.6	6.8	8.7	--	14.6	18.3	20.7	21.4	--
MW-76	--	--	14.9	11.8	--	--	--	8.8	--	--	--	--	19.7	--	13.2	--	6.5	--	--	--	--	17.4	--	24.7	--
MW-78	--	--	14.1	--	--	11.4	--	--	--	--	--	14.3	--	--	13.6	--	--	9.5	--	--	12.5	--	--	15.3	--
MW-79	--	--	15.0	--	--	10.3	--	--	--	--	--	14.8	--	--	14.1	--	--	10.5	--	--	12.6	--	--	--	--
MW-80	--	--	15.6	--	--	11.4	--	--	--	--	--	15.3	--	--	15.5	--	--	11.6	--	--	--	13.6	--	17.4	--
MW-81	--	--	15.6	--	--	--	11.2	--	--	--	--	--	--	--	13.7	--	--	11.1	--	--	--	13.9	--	16.9	--
MW-82	--	--	15.3	--	--	--	--	--	--	--	--	--	15.1	14.2	14.0	11.5	10.4	10.2	11.4	12.4	13.7	14.4	15.4	16.4	15.0
MW-83	--	--	16.1	--	--	--	11.9	--	--	--	--	--	16.3	--	15.5	--	10.8	--	--	--	14.3	--	--	20.4	--
PDMW-01	19.1	18.1	17.1	15.6	14.3	11.7	11.5	11.5	11.3	15.1	16.5	17.9	18.9	18.1	17.2	14.8	12.0	10.8	11.0	12.1	13.9	16.0	--	18.8	18.9
SV-02	--	--	--	13.1	--	--	--	8.2	--	17.7	--	--	--	20.3	--	10.0	--	4.9	--	--	--	19.5	--	22.5	--
SV-03	14.6	--	--	--	--	--	--	8.7	--	--	20.9	--	18.7	--	--	11.7	--	7.6	--	--	--	15.2	--	--	--

Notes:
mS/cm - milli-siemens per centimeter
mg/L - milligrams/Liter
mV - milli-volt

Table 4-3
Summary of Heterotrophic Plate Count Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval	Total Heterotropic Plate Count (cfu/ml)										
	(feet bgs)	Q1 2001	Q2 2001	Q3 2001	Q4 2001	Q1 2002	Q2 2002	Q3 2002	Q4 2002	Q2 2004	Q3 2004	Q4 2004
BBMW-03S	3 - 13	--	--	--	--	5	--	--	--	--	--	--
BBMW-03I	30 - 40	--	--	--	--	2	--	--	--	--	--	--
BBMW-03D	52 - 62	--	--	--	--	9	--	--	--	--	--	--
BS-02S	5 - 15	>3,000	150	27	41,000	330	370,000	17,000	41,000	--	--	--
GM-03S	6.78 - 21.78	--	--	--	--	10	--	--	--	--	--	--
GM-03I	30.03 - 45.03	--	--	--	--	1	--	--	--	--	--	--
GM-03D	53.18 - 68.18	--	--	--	--	1	--	--	--	--	--	--
GM-05S	5.1 - 20.1	--	--	--	--	30	--	--	--	--	--	--
GM-05I	35.05 - 48.05	--	--	--	--	22	--	--	--	--	--	--
GM-05D	60.95 - 75.95	--	--	--	--	45	--	--	--	--	--	--
GMP-01	25 - 30	--	--	--	--	20	--	--	--	--	--	--
GMP-02	18 - 23	--	--	--	--	10	--	--	--	--	--	--
GMP-04	15.5 - 20.5	--	--	--	--	41	--	--	--	--	--	--
MW-02S	2 - 12	--	--	--	--	--	--	--	--	10,000	--	--
MW-02SR	2 - 12	--	--	--	--	--	--	--	--	--	TNTC	2,200
MW-16S	2 - 10	--	--	--	--	--	--	--	--	2,700	--	--
MW-16SR	2 - 10	--	--	--	--	--	--	--	--	--	TNTC	6,400
MW-30W	2 - 7	1,400	240	200	60,000	290	5,600	5,100	7,200	--	--	--
MW-34S	2 - 10	330	>300	2,200	220,000	>3,000	--	14,000	570	1,800	320	750
MW-46W	2 - 10	>3,000	>300	--	--	--	--	--	--	--	--	--
MW-46WR	2 - 10	--	--	--	--	--	--	--	46,000	24,000	13,000	6,600
MW-64	19 - 24	150	--	--	34,000	--	360,000	110,000	760	--	--	--
MW-70/70S	2 - 12	3,000	>300	6,000	4,100	140	1,900	3,700	57	660	TNTC	7,800
MW-71/71S	2 - 12	650	190	7,900	17,000	400	88	600	3,800	270	980	4,200
MWBS-02S	5 - 15	--	--	--	--	--	--	--	--	160	1,400	1,200
PDMW-01	5 - 20	--	--	--	--	--	--	--	--	150	83	78
PDMW-02	5 - 20	--	--	--	--	--	--	--	--	13	TNTC	200

Table 4-3
Summary of Heterotrophic Plate Count Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Screen Interval	Total Heterotropic Plate Count (cfu/ml)														
	(feet bgs)	Q1 2005	Q2 2005	Q3 2005	Q4 2005	Q1 2006	Q2 2006	Q3 2006	Q4 2006	Q1 2007	Q2 2007	Q3 2007	Q4 2007	Q1 2008	Q2 2008	Q3 2008
BBMW-03S	3 - 13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03I	30 - 40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-03D	52 - 62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BS-02S	5 - 15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-03S	6.78 - 21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-03I	30.03 - 45.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-03D	53.18 - 68.18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05S	5.1 - 20.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05I	35.05 - 48.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-05D	60.95 - 75.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-01	25 - 30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-02	18 - 23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GMP-04	15.5 - 20.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02SR	2 - 12	1,600	1,400	2,500	1,100	1,200	95	350	1,000	560	70	190	300	76	44	380
MW-16S	2 - 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16SR	2 - 10	160	2,000	1,100	23,000	6,000	1,700	4100	30,000	12,000	3,200	2,000	416,400	137,500	84,000	7,765
MW-30W	2 - 7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-34S	2 - 10	420	1,300	420	5,800	640	730	1900	1,000	2,200	130	9,000	370	1,000	390	580
MW-46W	2 - 10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-46WR	2 - 10	4,400	2,000	1,800	1,800	1,000	22,000	2800	4,600	2,100	560	8,600	3,200	15,000	120	1,400
MW-64	19 - 24	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2 - 12	340	8,200	2,600	900	800	470	350	170	180	44	1,700	170	2,000	80	580
MW-71/71S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5 - 15	250	100	220	340	260	55	45	26	74	16	100	160	280	340	860
PDMW-01	5 - 20	110	220	71	810	140	45	240	50	33	22	420	130	38	120	1,000
PDMW-02	5 - 20	29,000	2,200	2,300	6,000	4,300	3,000	720	2,400	1,700	390	2,000	110	2,100	95	5,200

Notes:
cfu/ml - colony forming units per milliliter
TNTC - too numerous to count
bgs - below ground surface
-- Not Sampled

Table 4-4
Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Well ID	Date of Measurement	Time of Measurement	Well Casing Diameter (inches)	Well Elevation[1] (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-09S	8/4/2008	9:04	2.00	21.93	7.81	14.12	
BBMW-09I	8/4/2008	9:05	2.00	22.01	7.90	14.11	
BBMW-09D	8/4/2008	9:06	2.00	22.43	8.31	14.12	
BBMW-28S	8/4/2008	15:09	2.00	16.43	3.20	13.23	
BBMW-28I	8/4/2008	15:09	2.00	16.43	3.21	13.22	
BBMW-29	8/4/2008	14:46	0.50	15.82	4.28	11.54	
BBMW-30S	8/4/2008	14:52	2.00	16.02	2.81	13.21	
BBMW-30I	8/4/2008	14:53	2.00	15.69	2.48	13.21	
BBMW-30D	8/4/2008	14:54	2.00	16.53	3.37	13.16	
BBMW-31S	8/5/2008	9:16	2.00	13.49	3.03	10.46	
BBMW-31I	8/5/2008	9:17	2.00	13.33	2.88	10.45	
BBMW-31D	8/5/2008	9:17	2.00	13.37	2.91	10.46	
BBMW-32S	8/5/2008	8:53	2.00	14.44	2.69	11.75	
BBMW-32I	8/5/2008	8:53	2.00	15.50	2.76	12.74	
BBMW-32D	8/5/2008	8:54	2.00	14.54	2.83	11.71	
BBMW-33	8/4/2008	15:01	2.00	16.58	3.80	12.78	
GM-02AS	8/5/2008	9:05	1.25	20.79	10.73	10.06	
GM-02AI	8/5/2008	9:06	1.25	20.75	10.68	10.07	
GM-02AD	8/5/2008	9:07	1.25	20.74	10.56	10.18	
MW-01S	8/4/2008	10:46	4.00	19.34	3.96	15.38	
MW-01D	8/4/2008	10:47	4.00	19.48	4.07	15.41	
MW-02S/SR	8/4/2008	9:11	2.00	21.67	7.44	14.23	
MW-02I/R	8/4/2008	9:12	2.00	21.37	7.19	14.18	
MW-03	8/4/2008	10:58	4.00	19.30	4.49	14.81	
MW-04	8/4/2008	10:55	4.00	19.16	4.58	14.58	
MW-16S/SR	8/4/2008	9:16	2.00	21.80	7.58	14.22	
MW-16I	8/4/2008	9:16	2.00	21.77	7.55	14.22	
MW-29S	8/4/2008	10:38	2.00	18.34	3.24	15.10	
MW-29D	8/4/2008	10:39	2.00	18.44	3.36	15.08	
MW-30W/WR	8/4/2008	14:43	2.00	14.83	2.76	12.07	
MW-32W/WR	8/4/2008	14:39	0.50	14.65	2.01	12.64	
MW-34S	8/4/2008	14:31	0.75	15.69	2.75	12.94	
MW-34I	8/4/2008	14:31	0.75	15.73	2.79	12.94	
MW-34D	8/4/2008	14:32	1.00	15.58	2.64	12.94	
MW-45W	8/5/2008	9:28	0.75	15.20	2.62	NC	
MW-64	8/5/2008	8:25	2.00	16.10	2.26	13.84	
MW-65	8/5/2008	8:28	2.00	15.62	1.87	13.75	
MWBS-02S	8/5/2008	8:41	1.00	13.58	2.97	10.61	
MWBS-02I	8/5/2008	8:41	0.75	13.46	2.83	10.63	
MWBS-02D	8/5/2008	8:42	0.75	13.54	2.89	10.65	
BBSW-13*	8/5/2008	9:02	NA	13.07	2.63	10.44	Cooper Lane near unnamed pond

Notes:

1 - Well Elevations obtained from 2007 Survey and reference NVGD88 datum
MSL - Mean Sea Level
NM - Not Measured
NC - Not Calculated
* - Surface Water Gauging Station

Table 4-5
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Well Identification	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)									
		December-78	October-92	June-97	August-97	March-98	June-98	November-99	June-01	July-01	October-01
BBMW-09S	5.0 - 15.0	NM	NM	NM	NM	NM	NM	14.17	NM	NM	NM
BBMW-09I	30.0 - 40.0	NM	NM	NM	NM	NM	NM	14.17	NM	NM	NM
BBMW-09D	62.0 - 72.0	NM	NM	NM	NM	NM	NM	14.08	NM	NM	NM
BBMW-28S	2.0 - 12.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-28I	10.0 - 20.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-29	2.0 - 9.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-30S	2.0 - 10.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-30I	14.0 -19.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-30D	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-31S	2.0 - 10.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-31I	14.0 -19.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-31D	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-32S	2.0 - 10.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-32I	14.0 -19.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-32D	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-33	7.0 - 12.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
GM-02AS	8.91 - 23.91	10.17	10.19	NM	NM	NM	NM	10.43	NM	NM	NM
GM-02AI	35.24 - 50.24	10.12	10.21	NM	NM	NM	NM	10.46	NM	NM	NM
GM-02AD	59.8 - 74.8	10.38	10.42	NM	NM	NM	NM	10.63	NM	NM	NM
MW-01S	4.0 - 14.0	NM	NM	14.88	NM	NM	NM	NM	15.39	NM	NM
MW-01D	35.0 - 45.0	NM	NM	14.74	NM	NM	NM	NM	15.57	NM	NM
MW-02S/SR	2.0 -12.0	NM	14.67	NM	14.35	16.41	15.77	15.15	15.47	14.42	13.7
MW-02I/R	22.5 - 23.5	NM	NM	NM	15.1	16.74	NM	15.46	NM	NM	NM
MW-03	4.94 - 14.94	NM	NM	15.19	14.34	16.2	15.65	14.8	NM	NM	NM
MW-04	5.1 - 15.1	NM	NM	NM	14.09	NM	15.38	14.59	NM	NM	NM
MW-16S/SR	2.0 - 10.0	NM	NM	NM	NM	15.32	14.8	13.88	14.34	13.66	13.25
MW-16I	14.0 - 19.0	NM	NM	NM	NM	15.66	15.11	14.22	NM	NM	NM
MW-29S	5.0 - 10.0	NM	NM	NM	NM	NM	NM	15.12	NM	NM	NM
MW-29D	14.0 - 19.0	NM	NM	NM	NM	16.52	NM	15.11	NM	NM	NM
MW-30W/WR	2.0 - 10.0	NM	NM	15.2	14.57	15.89	15.37	NM	NM	NM	NM
MW-32W/WR	2.0 - 10.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-34S	2.0 - 10.0	NM	NM	13.42	12.76	14.2	13.64	NM	NM	NM	NM
MW-34I	18.5 - 19.5	NM	NM	NM	12.77	14.17	13.66	13.12	NM	NM	NM
MW-34D	27.5 - 28.5	NM	NM	NM	12.78	14.64	13.68	13.12	NM	NM	NM
MW-45W	2.0 - 10.0	NM	NM	13.55	12.85	14.34	13.82	NM	NM	NM	NM
MW-64	19.0 - 24.0	NM	NM	NM	NM	15.4	14.85	13.94	NM	NM	NM
MW-65	11.0 - 16.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MWBS-02S	5 - 15	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MWBS-02I	14.5 - 15.5	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MWBS-02D	24.5 - 25.5	NM	NM	NM	10.39	11.57	11.32	11	NM	NM	NM

Table 4-5
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Well Identification	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)										
		June-02	August-02	November-02	March-03	July-03	September-03	October-03	January-04	April-04	August-04	October-04
BBMW-09S	5.0 - 15.0	14.84	12.61	14.85	15.27	15.28	14.22	NM	14.65	15.41	14.05	14.48
BBMW-09I	30.0 - 40.0	14.82	12.6	14.84	15.27	15.25	14.22	NM	14.64	15.39	14.04	14.47
BBMW-09D	62.0 - 72.0	14.78	12.61	14.81	15.25	15.28	14.22	NM	14.63	16.37	14.04	14.48
BBMW-28S	2.0 - 12.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-28I	10.0 - 20.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-29	2.0 - 9.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-30S	2.0 - 10.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-30I	14.0 -19.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-30D	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-31S	2.0 - 10.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-31I	14.0 -19.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-31D	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-32S	2.0 - 10.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-32I	14.0 -19.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-32D	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-33	7.0 - 12.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
GM-02AS	8.91 - 23.91	10.33	NM	NM	11.03	11.03	10.23	NM	10.69	11.86	10.08	10.35
GM-02AI	35.24 - 50.24	10.35	NM	NM	NM	NM	10.24	NM	10.74	11.87	10.1	10.37
GM-02AD	59.8 - 74.8	10.44	NM	NM	11.32	11.22	10.42	NM	10.97	12.03	10.25	10.59
MW-01S	4.0 - 14.0	NM	NM	13.64	15.89	16.59	16.54	15.93	NM	15.93	17.36	15.33
MW-01D	35.0 - 45.0	NM	NM	13.66	15.88	16.61	16.58	15.64	NM	15.95	17.38	15.37
MW-02S/SR	2.0 -12.0	15.47	13.02	NM	NM	NM	NM	14.79	14.93	16.47	NM	14.58
MW-02I/R	22.5 - 23.5	20.02	NM	NM	NM	NM	NM	NM	NM	NM	NM	14.11
MW-03	4.94 - 14.94	13.53	13.18	15.32	15.98	16	15.02	NM	15.31	16.77	14.67	15.18
MW-04	5.1 - 15.1	14.85	12.98	16.28	19.16	15.84	14.89	NM	NM	16.61	14.57	15.19
MW-16S/SR	2.0 - 10.0	14.98	12.35	15.04	15.5	15.4	14.35	NM	14.79	16.47	NM	14.14
MW-16I	14.0 - 19.0	14.92	12.7	14.89	15.32	15.29	14.28	NM	14.71	16.08	NM	14.64
MW-29S	5.0 - 10.0	NM	13.55	15.69	16.3	16.24	15.35	NM	15.64	17.84	15.09	15.48
MW-29D	14.0 - 19.0	NM	13.53	15.68	16.34	NM	15.34	NM	15.65	17.03	15.08	15.48
MW-30W/WR	2.0 - 10.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-32W/WR	2.0 - 10.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-34S	2.0 - 10.0	NM	NM	NM	14.13	14.07	13.01	NM	13.52	14.8	12.97	13.28
MW-34I	18.5 - 19.5	13.05	NM	NM	14.08	14.02	12.98	NM	13.48	14.76	12.92	13.25
MW-34D	27.5 - 28.5	13.07	NM	NM	14.07	14.03	12.98	NM	13.47	14.8	12.93	13.26
MW-45W	2.0 - 10.0	NM	NM	NM	NM	NM	13.32	NM	13.71	14.87	13.2	13.4
MW-64	19.0 - 24.0	NM	NM	NM	NM	NM	13.95	NM	14.87	15.77	13.85	14.21
MW-65	11.0 - 16.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MWBS-02S	5 - 15	NM	NM	NM	NM	NM	NM	NM	NM	NM	10.77	10.97
MWBS-02I	14.5 - 15.5	NM	NM	NM	NM	NM	NM	NM	NM	NM	10.69	10.91
MWBS-02D	24.5 - 25.5	11.3	NM	NM	NM	NM	NM	NM	NM	NM	10.69	10.95

Table 4-5
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Well Identification	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)								
		February-05	May-05	August-05	November-05	February-06	May-06	July/Aug-06	November-06	January-07
BBMW-09S	5.0 - 15.0	15.17	14.99	13.79	15.55	15.43	14.93	14.63	15.09	15.02
BBMW-09I	30.0 - 40.0	15.16	14.97	13.8	15.54	15.42	14.92	14.63	15.10	15.02
BBMW-09D	62.0 - 72.0	15.16	14.99	13.8	15.52	15.42	14.93	14.63	15.11	15.01
BBMW-28S	2.0 - 12.0	14.31	14.05	12.96	14.45	14.35	13.97	13.65	14.11	14.07
BBMW-28I	10.0 - 20.0	14.28	14.04	12.94	14.45	14.34	13.96	13.63	14.09	14.06
BBMW-29	2.0 - 9.0	12.41	12.22	11.28	12.53	12.46	12.17	11.8	12.28	12.25
BBMW-30S	2.0 - 10.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-30I	14.0 -19.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-30D	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-31S	2.0 - 10.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-31I	14.0 -19.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-31D	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-32S	2.0 - 10.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-32I	14.0 -19.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-32D	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
BBMW-33	7.0 - 12.0	NM	NM	NM	NM	NM	NM	13.22	13.72	13.59
GM-02AS	8.91 - 23.91	10.94	10.9	9.94	11.24	11.09	10.83	10.38	10.93	10.94
GM-02AI	35.24 - 50.24	10.96	10.92	9.96	11.26	11.11	10.85	10.4	10.96	10.94
GM-02AD	59.8 - 74.8	11.17	11.11	10.06	11.47	11.36	11.05	10.52	11.16	11.20
MW-01S	4.0 - 14.0	15.77	16.47	16.38	15.08	16.95	16.77	16.28	16.01	16.39
MW-01D	35.0 - 45.0	15.8	16.46	16.4	15.21	16.87	16.79	16.3	16.07	16.4
MW-02S/SR	2.0 -12.0	15.29	15.09	NM	NM	NM	NM	14.77	15.23	15.13
MW-02I/R	22.5 - 23.5	NM	NM	NM	NM	NM	NM	NM	NC	NC
MW-03	4.94 - 14.94	15.85	15.73	14.49	16.28	16.15	15.65	15.38	15.79	15.74
MW-04	5.1 - 15.1	15.55	15.55	14.34	16.13	15.9	15.45	15.19	15.56	15.52
MW-16S/SR	2.0 - 10.0	14.96	15.15	13.52	15.7	15.6	15.01	14.75	15.29	15.11
MW-16I	14.0 - 19.0	15.25	15.13	NM	15.56	15.46	14.98	14.7	15.15	15.07
MW-29S	5.0 - 10.0	16.17	16.02	14.84	16.53	16.39	15.91	15.69	16.07	16.00
MW-29D	14.0 - 19.0	16.15	16.01	14.83	16.52	16.38	15.91	15.68	16.06	16.00
MW-30W/WR	2.0 - 10.0	15.3	15.09	14.17	15.4	15.34	15.03	14.69	15.13	15.1
MW-32W/WR	2.0 - 10.0	13.57	13.36	12.36	13.72	13.6	13.26	12.96	13.41	13.32
MW-34S	2.0 - 10.0	14	13.73	12.73	14.12	14.03	13.59	13.35	13.81	13.75
MW-34I	18.5 - 19.5	13.97	13.72	12.74	14.12	14.01	13.65	13.35	13.80	13.75
MW-34D	27.5 - 28.5	13.97	13.72	12.75	14.13	14.01	13.66	13.35	14.30	13.76
MW-45W	2.0 - 10.0	14.13	13.97	12.85	14.26	14.15	13.78	13.49	13.97	13.88
MW-64	19.0 - 24.0	NM	14.73	13.58	15.09	15.07	14.61	14.24	14.75	14.72
MW-65	11.0 - 16.0	NM	NM	NM	NM	NM	NM	NM	NM	NM
MWBS-02S	5 - 15	11.58	11.44	10.59	11.7	11.6	11.38	10.93	11.46	11.47
MWBS-02I	14.5 - 15.5	11.57	11.42	10.55	11.66	11.6	11.39	10.94	11.45	11.45
MWBS-02D	24.5 - 25.5	11.45	11.44	10.61	11.73	11.6	11.39	10.88	11.47	11.47

Table 4-5
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Well Identification	Screen Interval (feet bgs)		Groundwater Elevations in Feet Above Mean Sea Level (MSL)							
		May-07	July/Aug-07	Oct/Nov-07	January-08	April-08	August-08	Minimum	Average	Maximum
BBMW-09S	5.0 - 15.0	15.44	14.67	13.75	14.72	15.29	14.12	12.61	14.71	15.55
BBMW-09I	30.0 - 40.0	15.44	14.69	13.76	14.72	15.30	14.11	12.6	14.70	15.54
BBMW-09D	62.0 - 72.0	15.45	14.65	13.74	14.72	15.30	14.12	12.61	14.73	16.37
BBMW-28S	2.0 - 12.0	14.36	13.72	12.89	13.74	14.28	13.23	12.89	13.88	14.45
BBMW-28I	10.0 - 20.0	14.34	13.71	12.88	13.73	14.29	13.22	12.88	13.86	14.45
BBMW-29	2.0 - 9.0	12.53	11.87	11.30	12.03	12.45	11.54	11.28	12.07	12.53
BBMW-30S	2.0 - 10.0	NM	13.68	12.93	13.71	14.22	13.21	12.93	13.55	14.22
BBMW-30I	14.0 -19.0	NM	13.70	12.92	13.67	14.24	13.21	12.92	13.55	14.24
BBMW-30D	30.0 - 35.0	NM	13.67	12.91	13.64	14.20	13.16	12.91	13.52	14.2
BBMW-31S	2.0 - 10.0	NM	10.76	10.51	11.13	11.40	10.46	10.46	10.85	11.4
BBMW-31I	14.0 -19.0	NM	10.77	10.52	11.12	11.40	10.45	10.45	10.85	11.4
BBMW-31D	30.0 - 35.0	NM	10.77	10.52	11.12	11.42	10.46	10.46	10.86	11.42
BBMW-32S	2.0 - 10.0	NM	12.15	11.58	12.29	12.72	11.75	11.58	12.10	12.72
BBMW-32I	14.0 -19.0	NM	13.16	12.59	13.30	13.72	12.74	12.59	13.10	13.72
BBMW-32D	30.0 - 35.0	NM	13.09	11.56	12.26	12.69	11.71	11.56	12.26	13.09
BBMW-33	7.0 - 12.0	13.93	13.24	12.56	13.39	13.85	12.78	12.56	13.36	13.93
GM-02AS	8.91 - 23.91	11.31	10.46	10.10	10.73	11.03	10.06	9.94	10.66	11.86
GM-02AI	35.24 - 50.24	11.33	10.48	10.12	10.76	11.04	10.07	9.96	10.65	11.87
GM-02AD	59.8 - 74.8	11.51	10.61	10.26	11.74	11.27	10.18	10.06	10.90	12.03
MW-01S	4.0 - 14.0	16.37	16.79	16.01	15.93	16.59	15.38	13.64	16.03	17.36
MW-01D	35.0 - 45.0	16.38	16.8	16	15.95	16.61	15.41	13.66	16.03	17.38
MW-02S/SR	2.0 -12.0	15.58	14.86	13.87	14.87	15.49	14.23	13.02	14.94	16.47
MW-02I/R	22.5 - 23.5	NC	NC	13.83	14.56	15.29	14.18	13.83	15.48	20.02
MW-03	4.94 - 14.94	16.16	15.38	14.43	15.39	16.02	14.81	13.18	15.35	16.77
MW-04	5.1 - 15.1	15.73	15.14	14.20	15.07	NC	14.58	12.98	15.32	19.16
MW-16S/SR	2.0 - 10.0	15.92	15.03	13.89	14.81	16.14	14.22	12.35	14.78	16.47
MW-16I	14.0 - 19.0	15.66	14.77	13.84	14.93	15.35	14.22	12.7	14.92	16.08
MW-29S	5.0 - 10.0	16.41	15.67	NM	15.66	16.23	15.10	13.55	15.79	17.84
MW-29D	14.0 - 19.0	16.40	15.66	NM	15.63	16.22	15.08	13.53	15.76	17.03
MW-30W/WR	2.0 - 10.0	15.4	14.74	11.83	12.58	13.04	12.07	11.83	14.52	15.89
MW-32W/WR	2.0 - 10.0	13.64	12.99	12.3	13.09	13.56	12.64	12.3	13.19	13.72
MW-34S	2.0 - 10.0	14.07	13.38	NM	13.48	14.00	12.94	12.73	13.63	14.8
MW-34I	18.5 - 19.5	14.07	13.38	NM	13.48	13.98	12.94	12.74	13.59	14.76
MW-34D	27.5 - 28.5	14.08	13.38	NM	13.38	13.98	12.94	12.75	13.62	14.8
MW-45W	2.0 - 10.0	14.22	13.51	12.79	13.56	NC	NC	12.79	13.71	14.87
MW-64	19.0 - 24.0	14.99	14.35	13.49	14.33	14.95	13.84	13.49	14.53	15.77
MW-65	11.0 - 16.0	NM	NM	NM	NM	14.88	13.75	13.75	14.32	14.88
MWBS-02S	5 - 15	11.65	11.06	10.67	NC	NC	10.61	10.59	11.19	11.7
MWBS-02I	14.5 - 15.5	11.58	10.99	10.63	NC	NC	10.63	10.55	11.16	11.66
MWBS-02D	24.5 - 25.5	11.28	11.05	10.67	NC	NC	10.65	10.39	11.15	11.73

Note:
NM - not measured
bgs - below ground surface
Well Elevations obtained from 2007 Survey and reference NVGD88 datum
* Surface Water Gauging Station

Table 4-6
Summary of Historic Total BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Report
Operable Unit No. 3 (OU-3)

Well No.	Screen Interval (feet)	Total BTEX Groundwater Concentrations (ug/l)													
		Sampling Date													
		1992	1997		1998			1999				2000			
		Sept	June	Aug	Mar	June	Dec	Mar	June	Sept	Oct/Nov	Feb	May	Sept	Nov/Dec
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	15	--	--	--	--
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	85	--	--	--	--
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-02AD	59.8 - 74.8	0	--	--	--	--	--	--	--	0	0	--	--	--	--
GM-02AI	35.24 - 50.24	0	--	--	--	--	--	--	--	0	0	--	--	--	--
GM-02AS	8.91 - 23.91	0	--	--	--	--	--	--	--	0	0	--	--	--	--
IO-10	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01D	35.0 - 45.0	0	--	--	0	--	--	--	--	--	0	--	--	--	--
MW-01S	4.0 -14.0	0	0	--	0	--	--	--	--	--	0	--	--	--	--
MW-02I/I-R	22.5 - 23.5	--	--	238,900	1,435	4,201	650	965	144	0	65	199	33	--	--
MW-02S/S-R	2.0 - 12.0	161,000	98,200	90,100	143,200	103,200	103,400	132,000	125,100	295,000	72,100	73,000	73,200	137,000	123,100
MW-03	4.94 - 14.94	--	35	--	1	--	--	--	--	--	178	--	--	--	--
MW-04	5.1 - 15.1	--	1	--	0	--	--	--	--	--	0	--	--	--	--
MW-11W	2.0 - 10.0	--	--	--	--	2,130	635	1,355	4,070	6,910	2,547	1,401	2,360	--	1,390
MW-12W	2.0 - 10.0	--	0	--	--	0	--	--	--	--	--	--	--	--	--
MW-16I	14.0 - 19.0	--	--	--	24	10	55	1	45	0	0	6	12	0	--
MW-16SR	2.0 - 10.0	--	--	--	79,600	46,190	20,640	1,830	28,980	64,900	3,627	71,900	34,900	55,990	15,370
MW-16W	2.0 - 10.0	--	55	--	--	--	--	--	--	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	0	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29D	14.0 - 19.0	--	--	--	0	--	0	0	0	0	0	0	0	8	--
MW-29S	5.0 - 10.0	--	--	--	--	--	0	0	--	0	0	0	0	10	0
MW-30W/W-R	2.0 - 10.0	--	11,740	--	--	--	--	--	--	--	--	--	--	--	27,200
MW-32W/W-R	2.0 - 10.0	--	22,000	--	--	4,020	45,800	18,460	3,620	--	--	--	--	--	--
MW-34D	27.5 - 28.5	--	--	16,200	--	35	3	0	1	0	0	15	0	55	--
MW-34I	18.5 - 19.5	--	--	25,600	--	0	3	0	0	0	6	10	3	0	--
MW-34S	2.0 - 10.0	--	39,100	17,000	--	17,600	49,500	3,910	19,750	34,700	28,400	22,700	9,600	--	8,621
MW-45W	2.0 - 10.0	--	5,500	--	195	--	--	--	--	--	--	--	--	13,230	134
MW-46W/W-R	2.0 - 10.0	--	30,000	--	29,900	--	--	--	--	--	--	--	--	57,900	25,300
MW-64	19.0 - 24.0	--	--	--	0	0	0	0	0	0	0	25	--	0	0
MW-65	11.0 - 16.0	--	--	--	0	--	--	--	--	18	--	31	0	0	0
MW-66D	24.0 - 29.0	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-66S	1.5 - 11.5	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	0	0	1	172	2	0	0	--	--	--	--
MW-70/70S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	41,100	8,160
MW-73	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-75	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-02D	24.5 - 25.5	--	--	62	0	--	2,450	23	25	0	17,530	0	0	0	--
MWBS-02I	14.5 - 15.5	--	--	13	330	347	341	9,998	608	0	7	12	0	0	4,740
MWBS-02S	5.0 - 15.0	--	997	60	0	--	221	264	40	0	5,510	50	0	0	6
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-03	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-6
Summary of Historic Total BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Report
Operable Unit No. 3 (OU-3)

Well No.	Screen Interval (feet)	Total BTEX Groundwater Concentrations (ug/l)												
		Sampling Date												
		2001				2002						2003		
		Mar	June	Sept	Dec	Jan/Feb	Mar	Apr/May	June/July	Aug/Sept	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	2	--	--	--	--	--	--
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	0	--	--	--	--	--	--
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	2	--	3	5	0	0	0
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
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-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01S	4.0 -14.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02I/I-R	22.5 - 23.5	--	--	--	--	--	--	--	--	--	--	--	--	63
MW-02S/S-R	2.0 - 12.0	--	--	--	--	159,200	149,000	166,500	180,000	134,000	149,600	99,400	124,800	263,000
MW-03	4.94 - 14.94	--	--	--	--	--	24	24	--	3	28	23	85	93
MW-04	5.1 - 15.1	--	--	--	--	--	--	2	--	28	9	0	69	0
MW-11W	2.0 - 10.0	242	4,900	170	489	--	2,410	--	175	101	17	172	382	16
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16I	14.0 - 19.0	--	--	--	--	--	--	--	2	--	--	--	--	0
MW-16SR	2.0 - 10.0	--	--	3,350	122,600	75,500	59,800	24,550	22,700	45,500	4,424	10,400	27,260	42,700
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29D	14.0 - 19.0	--	--	--	--	--	--	--	0	--	--	--	--	--
MW-29S	5.0 - 10.0	0	2	0	0	--	--	--	0	0	0	0	0	0
MW-30W/W-R	2.0 - 10.0	16	0	40	6,240	--	77	--	0	104	170	--	--	--
MW-32W/W-R	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	2,290	4,832
MW-34D	27.5 - 28.5	--	--	--	--	--	--	--	0	--	--	--	0	0
MW-34I	18.5 - 19.5	--	--	--	--	--	--	--	3,690	--	--	--	--	--
MW-34S	2.0 - 10.0	5	3,530	1,500	8	--	71	--	7,440	179	2,142	2,141	17,300	2,827
MW-45W	2.0 - 10.0	53,700	1,240	24	219	--	--	2,550	7	1	0	--	8,500	720
MW-46W/W-R	2.0 - 10.0	23,800	17,300	--	--	--	--	--	--	--	21,100	35,800	18,800	8,800
MW-64	19.0 - 24.0	0	0	--	84	--	--	9	0	0	14	85,000	0	0
MW-65	11.0 - 16.0	1	0	51	0	--	--	9	0	0	31	0	0	0
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	7,920	31	7	0	--	403	--	100	3	5	23,800	12	1,170
MW-73	2.0 - 12.0	--	--	--	--	29,500	8,990	7,140	9,400	26,600	5,220	--	64,000	89,000
MW-75	2.0 - 12.0	--	--	--	6,580	4,010	78	45	65,700	82,800	158	1,420	161,100	110,500
MW-76	2.0 - 12.0	--	--	--	--	2,702	230	37	252	4,560	21	--	109	136
MW-78	5.0 - 20.0	--	--	--	--	17,400	3,790	2,156	2,840	17,700	1,320	11,960	30,800	42,000
MW-79	5.0 - 20.0	--	--	--	--	--	2,090	627	74,200	87,100	12,700	69,800	101,600	93,700
MW-80	5.0 - 20.0	--	--	--	--	48,000	635	457	6,220	87,600	387	33,300	88,000	126,000
MW-81	5.0 - 20.0	--	--	--	--	--	1,449	1,318	28,200	31,600	1,530	12,930	53,600	33,000
MW-82	5.0 - 20.0	--	--	--	--	5,840	1,269	110	26,900	48,300	1,444	17,910	245,000	46,000
MW-83	5.0 - 20.0	--	--	--	--	189	120	3	458	1,297	8	62	40	950
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	0	--	--	--	--	--	--
MWBS-02D	24.5 - 25.5	--	--	--	--	--	--	--	3	--	--	0	--	--
MWBS-02I	14.5 - 15.5	0	59	20	0	--	84	--	0	0	--	0	--	--
MWBS-02S	5.0 - 15.0	4	0	0	0	--	1	--	0	0	0	0	0	0
MW-UST1	2.0 - 12.0	--	--	--	--	--	694	885	--	307	1,727	1,033	1,110	1,911
MW-UST2	2.0 - 12.0	--	--	--	--	--	661	1,340	--	335	599	1,160	2,400	1,854
MW-UST3	2.0 - 12.0	--	--	--	--	--	75	141	--	21	46	33	79	74
PDMW-01	5.0 - 20.0	--	--	--	--	30,700	19,700	23,100	--	--	14,500	1,400	0	0
PDMW-02	5.0 - 20.0	--	--	--	--	86,100	72,600	67,700	93,600	53,300	--	--	68,000	74,000
PDMW-03	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	52	40	2	137	820	2	127	73,800	92,300
SV-03	2.0 - 12.0	--	--	--	--	14,780	203	90	2,110	6,410	4	5,870	9,810	23,100

Table 4-6
Summary of Historic Total BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Well No.	Screen Interval (feet)	Total BTEX Groundwater Concentrations (ug/l)											
		Sampling Date											
		2004				2005				2006			
		Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec	March	June	Jul/Aug	Nov/Dec
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-28I	10.0 - 20.0	--	--	--	--	0	0	0	0	--	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	0	0	0	0	--	--	--	--
BBMW-29	2.0 - 9.0	--	--	--	--	0	0	0	4,368	974	134	0	0
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
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-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	5,380	83	10	21,100	290	3,627	45	0	0	0	101
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	0	0
MW-01S	4.0 -14.0	--	--	--	0	--	--	--	460	--	0	0	0
MW-02I/I-R	22.5 - 23.5	14	--	--	--	62	--	--	--	0	--	--	--
MW-02S/S-R	2.0 - 12.0	149,000	172,400	22,000	427	2,050	13	94	194	945	51	0	68
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-11W	2.0 - 10.0	0	0	0	1,449	30	6,580	1,400	2,071	190	61	0	933
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16I	14.0 - 19.0	0	--	--	--	0	--	--	--	0	--	--	--
MW-16SR	2.0 - 10.0	354	1,320	41,800	317	66,800	65,500	34,600	45,820	42,100	15,000	17,900	18,600
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-29D	14.0 - 19.0	0	--	--	0	--	--	--	0	--	--	--	--
MW-29S	5.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-30W/W-R	2.0 - 10.0	--	--	--	--	0	0	10	0	0	106	130	0
MW-32W/W-R	2.0 - 10.0	1,189	2,048	74,400	33,300	8,413	5,171	4,400	9,200	4,565	5,950	5,100	1,502
MW-34D	27.5 - 28.5	0	--	--	--	0	--	--	--	0	--	--	--
MW-34I	18.5 - 19.5	4,090	--	--	--	1,348	--	--	--	0	--	--	--
MW-34S	2.0 - 10.0	13,000	13,900	3,364	12,370	5,068	11,700	29,200	3,820	14,600	25,500	9,240	5,760
MW-45W	2.0 - 10.0	1,950	25,000	2,780	11,300	39,300	14,000	19,300	16,100	14,600	2,214	1,720	5,770
MW-46W/W-R	2.0 - 10.0	--	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	24	7,650	0	5,651	0	750	19	0	0	0
MW-65	11.0 - 16.0	0	0	0	3,852	0	0	0	0	0	0	0	0
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	1,114	6,150	39,400	70	267	45,500	57,000	4,630	4,360	175	277	363
MW-73	2.0 - 12.0	34,000	33,000	71,500	27,700	26,700	26,500	52,000	557	8,460	14,520	36,200	15,070
MW-75	2.0 - 12.0	4,060	1,302	34,500	212	1,815	129,200	157,100	17,000	5,389	1,540	3,600	491
MW-76	2.0 - 12.0	0	--	0	33	0	170	23	0	27	0	0	0
MW-78	5.0 - 20.0	11,800	18,200	13,400	8,400	15,700	21,800	8,700	3,090	5,900	4,710	18,100	4,080
MW-79	5.0 - 20.0	116,000	82,600	34,820	24,100	32,300	9,800	7,300	588	3,740	3,320	1,220	7,690
MW-80	5.0 - 20.0	118,000	96,000	81,400	66,900	132,000	197,000	301,000	38,300	44,000	38,700	6,170	41,100
MW-81	5.0 - 20.0	63,000	--	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	20,280	--	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	0	--	0	1,543	788	980	1,280	142	101	0	5,042	161
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02D	24.5 - 25.5	0	--	--	--	87	--	--	--	0	--	--	--
MWBS-02I	14.5 - 15.5	--	--	0	0	0	0	0	0	0	0	0	0
MWBS-02S	5.0 - 15.0	2,853	323	0	0	22	82	0	0	0	0	0	0
MW-UST1	2.0 - 12.0	51	1,563	2,717	240	122	660	830	1,083	117	1,270	2,400	944
MW-UST2	2.0 - 12.0	440	1,172	3,834	1,430	3,117	1,880	2,700	1,410	1,652	1,925	3,011	1,250
MW-UST3	2.0 - 12.0	145	320	0	22	247	41	12	0	0	19	0	0
PDMW-01	5.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0
PDMW-02	5.0 - 20.0	115,900	117,600	82,000	83,000	90,000	60,300	37,300	100,000	19,500	85,100	67,500	98,000
PDMW-03	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	0	--	0	0	0	26,900	24,900	25,500	1,600	32	27,400	42
SV-03	2.0 - 12.0	33,200	--	615	4,400	936	5,509	249	2,702	570	257	831	116

Table 4-6
Summary of Historic Total BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
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Operable Unit No. 3 (OU-3)

Well No.	Screen Interval (feet)	Total BTEX Groundwater Concentrations (ug/l)											
		Sampling Date											
		2007				2008			Historic	Historic	Historic	Current	Current
		March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Minimum	Maximum	Average	Minimum	Maximum
BBMW-09D	62.0 - 72.0	0	--	0	--	0	--	--	0	15	3	0	15
BBMW-09I	30.0 - 40.0	0	--		--	0	--	--	0	0	0	0	0
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	85	4	0	85
BBMW-28I	10.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-28S	2.0 - 12.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-29	2.0 - 9.0	0	0	0	0	0	0	0	0	4,368	391	0	4,368
BBMW-30D	30.0 - 35.0	--	0	0	0	0	--	--	0	0	0	0	0
BBMW-30I	14.0 - 19.0	--	0	0	0	0	--	--	0	0	0	0	0
BBMW-30S	2.0 - 10.0	--	0	0	0	0	--	--	0	0	0	0	0
BBMW-31D	30.0 - 35.0	--	0	0	0	0	--	--	0	0	0	0	0
BBMW-31I	14.0 - 19.0	--	0	0	0	0	--	--	0	0	0	0	0
BBMW-31S	2.0 - 10.0	--	0	0	0	0	--	--	0	0	0	0	0
BBMW-32D	30.0 - 35.0	--	0	0	0	0	--	--	0	0	0	0	0
BBMW-32I	14.0 - 19.0	--	0	0	0	0	--	--	0	0	0	0	0
BBMW-32S	2.0 - 10.0	--	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	0	0	0	0	0	0	0
BW-UST-11	5.0 - 10.0	0	0	0	0	1	0	0	0	1	0	0	1
BW-UST-28	5.0 - 10.0	--	0	0	0	0	0	0	0	0	0	0	0
BW-UST-29	5.0 - 10.0	--	0	0	0	0	0	0	0	0	0	0	0
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	0	0	0	0	0
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	0	0	0	0	0
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	0	0	0	0	0
IO-10	6.0 - 16.0	2,300	0	0	83	0	73	0	0	21,100	1,947	0	21,100
MW-01D	35.0 - 45.0	0	0	0	0	0	--	--	0	0	0	0	0
MW-01S	4.0 -14.0	0	0	0	0	0	0	0	0	460	31	0	460
MW-02I/I-R	22.5 - 23.5	0	0	0	0	0	0	3	0	238,900	12,337	0	238,900
MW-02S/S-R	2.0 - 12.0	346	625	1,695	248	27	1	16	0	295,000	85,495	0	295,000
MW-03	4.94 - 14.94	0	0	20	18	5	5	9	0	178	30	0	178
MW-04	5.1 - 15.1	0	0	0	0	0	0	0	0	69	4	0	69
MW-11W	2.0 - 10.0	42	110	62	97	95	77	35	0	6,910	1,186	0	6,910
MW-12W	2.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-16I	14.0 - 19.0	0	103	0	59	84	17	0	0	103	20	0	103
MW-16SR	2.0 - 10.0	12,250	6,050	15,870	20770	36270	11,710	5,840	317	122,600	32,894	317	122,600
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	55	55	55	55	55
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	0	0	0	0	0
MW-26D	14.0 - 19.0	--	--	--	--	0	0	0	0	0	0	0	0
MW-29D	14.0 - 19.0	0	0	0	0	0	--	--	0	8	0	0	8
MW-29S	5.0 - 10.0	0	0	0	0	0	--	--	0	10	0	0	10
MW-30W/W-R	2.0 - 10.0	0	0	0	0	0	0	1	0	27,200	1,910	0	27,200
MW-32W/W-R	2.0 - 10.0	1,060	567	1,080	8510	2317	57	0	57	74,400	10,794	0	74,400
MW-34D	27.5 - 28.5	0	0	0	0	0	0	0	0	16,200	741	0	16,200
MW-34I	18.5 - 19.5	0	0	5	934	40	0	0	0	25,600	1,786	0	25,600
MW-34S	2.0 - 10.0	85	9,750	35,100	19800	7750	25,870	5,638	5	49,500	13,348	5	49,500
MW-45W	2.0 - 10.0	3,200	43,400	1,236	1717	3600	5,690	242	0	53,700	9,341	0	53,700
MW-46W/W-R	2.0 - 10.0	1,256	3,810	915	1400	8130	1,664	3,471	915	57,900	19,155	915	57,900
MW-64	19.0 - 24.0	0	0	0	0	0	0	0	0	85,000	2,611	0	85,000
MW-65	11.0 - 16.0	0	0	0	0	4	0	0	0	3,852	114	0	3,852
MW-66D	24.0 - 29.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-66S	1.5 - 11.5	0	0	0	0	0	0	0	0	0	0	0	0
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	0	172	25	0	172
MW-70/70S	2.0 - 12.0	31	268	351	1577	11590	7,750	10,910	0	57,000	8,503	0	57,000
MW-73	2.0 - 12.0	18,700	22,500	15,300	14000	12800	5,970	9,800	557	89,000	25,974	557	89,000
MW-75	2.0 - 12.0	580	355	9,420	2254	268	1,802	76,790	45	161,100	28,689	45	161,100
MW-76	2.0 - 12.0	0	0	4	7	2	0	1	0	4,560	333	0	4,560
MW-78	5.0 - 20.0	2,320	3,050	2,480	2270	54	167	461	54	42,000	10,155	54	42,000
MW-79	5.0 - 20.0	13,900	2,840	2,030	542	3160	32	3,110	32	116,000	30,300	32	116,000
MW-80	5.0 - 20.0	148,000	26,100	41,000	106000	3220	18,700	52,300	387	301,000	70,155	387	301,000
MW-81	5.0 - 20.0	65,800	16,100	36,300	61,800	8690	1,080	18,840	1,080	65,800	24,493	1,080	65,800
MW-82	5.0 - 20.0	7,144	14,460	4,338	17989	1164	2,254	6,942	110	245,000	28,084	110	245,000
MW-83	5.0 - 20.0	41	2,320	6,761	39	36	0	687	0	6,761	860	0	6,761
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	0	151	51	0	151
MWBS-02D	24.5 - 25.5	0	0	0	0	17	0	0	0	17,530	962	0	17,530
MWBS-02I	14.5 - 15.5	0	0	0	0	0	0	17	0	9,998	460	0	9,998
MWBS-02S	5.0 - 15.0	0	0	0	8	0	0	0	0	5,510	255	0	5,510
MW-UST1	2.0 - 12.0	950	1,250	796	470	--	--	--	51	2,717	1,006	51	2,717
MW-UST2	2.0 - 12.0	960	1,260	1,173	1686	--	--	--	335	3,834	1,620	335	3,834
MW-UST3	2.0 - 12.0	14	0	6	4	--	--	--	0	320	56	0	320
PDMW-01	5.0 - 20.0	0	0	0	70920	0	0	0	0	70,920	6,413	0	70,920
PDMW-02	5.0 - 20.0	62,700	79,700	68,020	84400	70570	65,260	51,400	19,500	117,600	76,086	19,500	117,600
PDMW-03	5.0 - 20.0	--	--	--	--	--	--	45,561	--	--	--	45,561	45,561
SV-02	2.0 - 12.0	0	0	26,000	0	0	0	0	0	92,300	11,525	0	92,300
SV-03	2.0 - 12.0	65	207	185	341	105	477	60	4	33,200	4,352	4	33,200

Table 4-6
Summary of Historic Total BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Report
Operable Unit No. 3 (OU-3)

NOTES:

BTEX - benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs)
-- = Not Analyzed/Applicable
ug/l - Micrograms per liter
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.
Peristaltic pump results are shown on this table.

Table 4-7
Summary of Historic Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Report
Operable Unit No. 3 (OU-3)

Well No.	Screen Interval	Total PAH Groundwater Concentrations (ug/L)													
		Sampling Date													
		1992	1997		1998			1999				2000			
	(feet)	Sept	June	Aug	Mar	June	Dec	Mar	June	Sept	Oct/Nov	Feb	May	Sept	Nov/Dec
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	0	--	--	--	--
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-02AD	59.8 - 74.8	0	--	--	--	--	--	--	--	0	0	--	--	--	--
GM-02AI	35.24 - 50.24	0	--	--	--	--	--	--	--	0	0	--	--	--	--
GM-02AS	8.91 - 23.91	0	--	--	--	--	--	--	--	0	0	--	--	--	--
IO-10	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01D	35.0 - 45.0	0	--	--	1	--	--	--	--	--	0	--	--	--	--
MW-01S	4.0 -14.0	0	0	--	0	--	--	--	--	--	0	--	--	--	--
MW-02I/I-R	22.5 - 23.5	--	--	6,478	99	12	11	10	1	0	0	0	53	--	--
MW-02S/S-R	2.0 - 12.0	4,300	1,941	6,181	9,700	21,640	21,257	1,694	2,238	1,919	1,618	1,530	1,787	1,681	1,620
MW-03	4.94 - 14.94	--	40	--	0	--	--	--	--	--	77	--	--	--	--
MW-04	5.1 - 15.1	--	4	--	99	--	--	--	--	--	0	--	--	--	--
MW-11W	2.0 - 10.0	--	--	--	--	861	222	142	298	469	62	290	389	--	178
MW-12W	2.0 - 10.0	--	0	--	--	0	--	--	--	--	--	--	--	--	--
MW-16I	14.0 - 19.0	--	--	--	18	0	0	3	0	0	7	0	0	0	--
MW-16SR	2.0 - 10.0	--	--	--	15,910	10,500	2,468	696	2,447	2,307	450	1,910	1,173	3,096	1,036
MW-16W	2.0 - 10.0	--	3	--	--	--	--	--	--	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	11	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29D	14.0 - 19.0	--	--	--	0	--	0	0	0	0	0	0	0	2	--
MW-29S	5.0 - 10.0	--	--	--	--	--	0	0	--	0	516	0	0	2	0
MW-30W/W-R	2.0 - 10.0	--	753	--	--	--	--	--	--	--	--	--	--	--	1,300
MW-32W/W-R	2.0 - 10.0	--	322	--	--	730	1,435	810	368	--	--	--	--	--	--
MW-34D	27.5 - 28.5	--	--	10	--	0	0	0	2	0	0	0	0	2	--
MW-34I	18.5 - 19.5	--	--	103	--	0	0	2	8	0	0	0	203	0	--
MW-34S	2.0 - 10.0	--	333	1,002	--	1,035	1,604	341	1,355	1,157	502	611	381	--	518
MW-45W	2.0 - 10.0	--	170	--	330	--	--	--	--	--	--	--	--	781	10
MW-46W/W-R	2.0 - 10.0	--	1,482	--	4,156	--	--	--	--	--	--	--	--	2,141	228
MW-64	19.0 - 24.0	--	--	--	1	0	0	12	3	0	14	0	13	97	0
MW-65	11.0 - 16.0	--	--	--	17	--	--	--	--	3	--	9	34	8	13
MW-66D	24.0 - 29.0	--	--	--	2	--	--	--	--	--	--	--	--	--	--
MW-66S	1.5 - 11.5	--	--	--	0	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	1	0	0	3	0	0	0	--	--	--	--
MW-70/70S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	1,720	84
MW-73	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-75	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-02D	24.5 - 25.5	--	--	1	47	--	254	0	0	0	237	0	0	0	--
MWBS-02I	14.5 - 15.5	--	--	27	485	696	0	640	8	0	0	11	258	3	261
MWBS-02S	5.0 - 15.0	--	167	24	0	--	262	36	5	79	245	274	81	115	105
MW-UST1	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST2	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-UST3	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-01	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-02	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PDMW-03	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-03	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 4-7
Summary of Historic Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Report
Operable Unit No. 3 (OU-3)

Well No.	Screen Interval	Total PAH Groundwater Concentrations (ug/L)												
		Sampling Date												
		2001				2002						2003		
	(feet)	Mar	June	Sept	Dec	Jan/Feb	Mar	Apr/May	June/July	Aug/Sept	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	0	--	--	--	--	--	--
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	0	--	--	--	--	--	--
BBMW-09S	5.0 - 15.0	--	--	--	--	--	--	99	--	99	53	0	0	0
BBMW-28I	10.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-29	2.0 - 9.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
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-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-01S	4.0 -14.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-02I/I-R	22.5 - 23.5	--	--	--	--	--	--	--	--	--	--	--	--	0
MW-02S/S-R	2.0 - 12.0	--	--	--	--	1,595	1,583	1,367	10,830	6,440	2,542	1,800	1,300	1,500
MW-03	4.94 - 14.94	--	--	--	--	--	103	85	--	89	50	0	45	42
MW-04	5.1 - 15.1	--	--	--	--	--	--	90	--	99	--	0	53	130
MW-11W	2.0 - 10.0	265	363	159	156	--	246	--	225	145	22	21	35	11
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-16I	14.0 - 19.0	--	--	--	--	--	--	--	0	--	--	--	--	0
MW-16SR	2.0 - 10.0	--	--	77	38,045	6,557	3,414	1,558	2,430	6,140	214	72	590	649
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-29D	14.0 - 19.0	--	--	--	--	--	--	--	0	--	--	--	--	--
MW-29S	5.0 - 10.0	0	0	0	0	--	--	--	0	0	0	0	0	0
MW-30W/W-R	2.0 - 10.0	228	229	4	125	--	55	--	0	8	2	--	--	--
MW-32W/W-R	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	11	130
MW-34D	27.5 - 28.5	--	--	--	--	--	--	--	0	--	--	--	0	96
MW-34I	18.5 - 19.5	--	--	--	--	--	--	--	22	--	--	--	--	--
MW-34S	2.0 - 10.0	130	0	30	1	--	0	--	85	0	22	27	130	30
MW-45W	2.0 - 10.0	1,676	11	0	6	--	--	52	2	64	0	--	49	38
MW-46W/W-R	2.0 - 10.0	0	21	--	--	--	--	--	--	--	380	690	264	160
MW-64	19.0 - 24.0	14	2	--	50	--	--	0	1	9	0	1,600	0	0
MW-65	11.0 - 16.0	34	4	--	228	--	--	0	0	0	38	0	65	0
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	2	1	0	4	--	7	--	4	3	0	200	18	32
MW-73	2.0 - 12.0	--	--	--	--	1,471	223	213	738	1,336	280	--	940	1,557
MW-75	2.0 - 12.0	--	--	--	73	153	93	100	2,553	2,863	58	0	1,700	1,490
MW-76	2.0 - 12.0	--	--	--	--	142	105	101	116	115	58	--	15	120
MW-78	5.0 - 20.0	--	--	--	--	1,439	371	278	161	735	66	550	692	958
MW-79	5.0 - 20.0	--	--	--	--	--	120	106	6,015	2,911	234	2,000	1,100	1,380
MW-80	5.0 - 20.0	--	--	--	--	1,511	88	2,316	152	1,426	53	1,100	1,178	1,700
MW-81	5.0 - 20.0	--	--	--	--	--	118	129	2,345	1,382	101	780	2,100	1,611
MW-82	5.0 - 20.0	--	--	--	--	245	138	83	2,784	3,090	49	390	570	810
MW-83	5.0 - 20.0	--	--	--	--	116	98	108	108	180	180	0	14	29
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	0	--	--	--	--	--	--
MWBS-02D	24.5 - 25.5	--	--	--	--	--	--	--	0	--	--	0	--	--
MWBS-02I	14.5 - 15.5	576	513	122	3	--	4	--	2	8	0	0	--	--
MWBS-02S	5.0 - 15.0	242	39	2	84	--	164	--	0	0	0	0	18	24
MW-UST1	2.0 - 12.0	--	--	--	--	--	247	216	--	112	979	230	96	344
MW-UST2	2.0 - 12.0	--	--	--	--	--	263	330	--	101	53	140	357	227
MW-UST3	2.0 - 12.0	--	--	--	--	--	92	134	--	105	--	0	14	25
PDMW-01	5.0 - 20.0	--	--	--	--	1,538	1,432	1,431	--	--	2,188	13,000	0	0
PDMW-02	5.0 - 20.0	--	--	--	--	1,929	2,181	1,933	5,848	3,250	--	--	1,130	1,714
PDMW-03	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	--	--	--	--	95	112	99	99	186	103	0	430	515
SV-03	2.0 - 12.0	--	--	--	--	332	95	108	297	279	49	190	280	548

Table 4-7
Summary of Historic Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Report
Operable Unit No. 3 (OU-3)

Well No.	Screen Interval (feet)	Total PAH Groundwater Concentrations (ug/L)											
		Sampling Date											
		2004				2005				2006			
		Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec	March	June	Jul/Aug	Nov/Dec
BBMW-09D	62.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09I	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-28I	10.0 - 20.0	--	--	--	--	0	0	0	0	--	--	--	--
BBMW-28S	2.0 - 12.0	--	--	--	--	0	0	68	0	--	--	--	--
BBMW-29	2.0 - 9.0	--	--	--	--	0	0	0	170	120	37	0	0
BBMW-30D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-30S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-31S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32D	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32I	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
BBMW-32S	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
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-02AD	59.8 - 74.8	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	--	--	--	--	--
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	--	--	--	--	--
IO-10	6.0 - 16.0	--	625	0	0	937	91	350	0	0	0	0	0
MW-01D	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	263	0
MW-01S	4.0 -14.0	--	--	--	0	--	--	--	0	--	0	0	0
MW-02I/I-R	22.5 - 23.5	0	--	--	--	0	--	--	--	0	--	--	--
MW-02S/S-R	2.0 - 12.0	2,400	2060	254	0	14	0	0	0	0	0	0	0
MW-03	4.94 - 14.94	26	19	43	19	21	34	40	57	0	28	35	34
MW-04	5.1 - 15.1	0	0	0	0	0	0	0	0	0	0	0	0
MW-11W	2.0 - 10.0	0	1729	0	110	0	10	0	27	15	18	0	19
MW-12W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-16I	14.0 - 19.0	0	--	--	--	57	--	--	--	0	--	--	--
MW-16SR	2.0 - 10.0	0	0	1,022	2,068	3,500	3,900	3,611	1,280	2,183	1,870	1,056	676
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-26D	14.0 - 19.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-29D	14.0 - 19.0	0	--	--	0	--	--	--	0	--	--	--	--
MW-29S	5.0 - 10.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-30W/W-R	2.0 - 10.0	--	--	--	--	0	0	0	0	0	0	0	0
MW-32W/W-R	2.0 - 10.0	0	0	370	877	55	59	0	180	110	89	98	100
MW-34D	27.5 - 28.5	0	--	--	--	0	--	--	--	0	--	--	--
MW-34I	18.5 - 19.5	496	--	--	--	290	--	--	--	0	--	--	--
MW-34S	2.0 - 10.0	160	130	49	210	212	52	67	110	461	397	210	140
MW-45W	2.0 - 10.0	170	699	65	341	723	180	424	561	895	74	40	233
MW-46W/W-R	2.0 - 10.0	--	150	589	443	1,048	972	1,200	1,045	544	50	233	192
MW-64	19.0 - 24.0	0	0	0	120	0	318	0	0	0	0	0	0
MW-65	11.0 - 16.0	37	0	0	502	0	0	0	0	0	0	0	0
MW-66D	24.0 - 29.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-66S	1.5 - 11.5	--	--	--	--	--	--	--	--	--	--	--	--
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--
MW-70/70S	2.0 - 12.0	18	46	260	0	0	170	556	57	91	0	11	13
MW-73	2.0 - 12.0	843	1,470	1,500	1,030	956	829	1,290	1,800	575	669	1,100	545
MW-75	2.0 - 12.0	60	0	387	0	22	1,350	2,890	384	100	56	55	0
MW-76	2.0 - 12.0	0	--	0	0	47	0	0	0	14	0	0	0
MW-78	5.0 - 20.0	585	707	85	22	463	1,160	493	0	445	493	616	0
MW-79	5.0 - 20.0	2,000	0	1,200	661	1,400	790	522	104	281	103	41	0
MW-80	5.0 - 20.0	2,500	1,600	1,390	1,370	2,400	2,200	2,300	1,080	1,200	694	258	1,480
MW-81	5.0 - 20.0	1,714	--	1,112	1,100	1,700	100	1,210	434	487	274	2,700	807
MW-82	5.0 - 20.0	733	--	19	995	233	358	488	1,571	1,140	837	1,137	150
MW-83	5.0 - 20.0	0	--	0	76	140	0	150	25	0	0	230	0
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02D	24.5 - 25.5	64	--	--	--	0	--	--	--	16	--	--	--
MWBS-02I	14.5 - 15.5	--	--	0	0	0	0	0	0	0	0	0	0
MWBS-02S	5.0 - 15.0	160	75	25	0	150	41	0	0	0	0	0	0
MW-UST1	2.0 - 12.0	0	221	568	52	55	260	392	373	140	520	541	260
MW-UST2	2.0 - 12.0	0	167	575	353	621	373	361	208	265	457	227	120
MW-UST3	2.0 - 12.0	33	0	0	16	26	0	0	0	0	12	0	0
PDMW-01	5.0 - 20.0	0	0	0	71	0	0	0	0	0	0	0	0
PDMW-02	5.0 - 20.0	2,300	2,463	1,918	2,316	2,616	2,312	2,716	2,416	2,013	2,420	2,119	3,022
PDMW-03	5.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--
SV-02	2.0 - 12.0	0	--	0	0	0	39	190	324	0	0	35	0
SV-03	2.0 - 12.0	536	--	150	130	80	33	0	0	96	57	0	0

Table 4-7
Summary of Historic Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Report
Operable Unit No. 3 (OU-3)

Well No.	Screen Interval (feet)	Total PAH Groundwater Concentrations (ug/L)											
		Sample Date											
		2007				2008			Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep					
BBMW-09D	62.0 - 72.0	0	--	0	--	0	--	--	0	0	0	0	0
BBMW-09I	30.0 - 40.0	150	--	0	--	0	--	--	0	150	30	0	150
BBMW-09S	5.0 - 15.0	0	0	0	0	0	0	0	0	99	10	0	99
BBMW-28I	10.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0
BBMW-28S	2.0 - 12.0	0	0	0	0	0	0	3	0	68	7	0	68
BBMW-29	2.0 - 9.0	0	252	0	0	0	0	5	0	252	41	0	252
BBMW-30D	30.0 - 35.0	--	0	0	0	0	--	--	0	0	0	0	0
BBMW-30I	14.0 - 19.0	--	0	4	0	0	--	--	0	4	1	0	4
BBMW-30S	2.0 - 10.0	--	0	0	0	0	--	--	0	0	0	0	0
BBMW-31D	30.0 - 35.0	--	0	0	0	0	--	--	0	0	0	0	0
BBMW-31I	14.0 - 19.0	--	0	4	0	0	--	--	0	4	1	0	4
BBMW-31S	2.0 - 10.0	--	0	0	0	0	--	--	0	0	0	0	0
BBMW-32D	30.0 - 35.0	--	0	0	0	0	--	--	0	0	0	0	0
BBMW-32I	14.0 - 19.0	--	0	0	0	0	--	--	0	0	0	0	0
BBMW-32S	2.0 - 10.0	--	0	1	1	0	--	--	0	1	1	0	1
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	69	0	0	0	0	0	69	10	0	69
BW-UST-11	5.0 - 10.0	0	0	68	0	0	1	0	0	68	10	0	68
BW-UST-28	5.0 - 10.0	--	0	0	0	2	0	0	0	2	0	0	2
BW-UST-29	5.0 - 10.0	--	0	0	0	0	0	3	0	0	0	0	3
GM-02AD	59.8 - 74.8	--	--	--	--	--	--	--	0	0	0	0	0
GM-02AI	35.24 - 50.24	--	--	--	--	--	--	--	0	0	0	0	0
GM-02AS	8.91 - 23.91	--	--	--	--	--	--	--	0	0	0	0	0
IO-10	6.0 - 16.0	100	0	0	18	0	4	0	0	937	125	0	937
MW-01D	35.0 - 45.0	0	0	0	0	2	--	--	0	263	24	0	263
MW-01S	4.0 -14.0	0	0	0	0	0	0	0	0	0	0	0	0
MW-02I/I-R	22.5 - 23.5	0	0	0	0	0	0	0	0	6,478	333	0	6,478
MW-02S/S-R	2.0 - 12.0	0	0	0	0	0	0	0	0	21,640	2,768	0	21,640
MW-03	4.94 - 14.94	35	11	56	0	12	0	0	0	103	36	0	103
MW-04	5.1 - 15.1	0	0	1	0	0	0	0	0	130	18	0	130
MW-11W	2.0 - 10.0	0	0	5	1	2	0	0	0	861	129	0	861
MW-12W	2.0 - 10.0	0	0	0	0	0	0	3	0	0	0	0	3
MW-16I	14.0 - 19.0	0	44	0	0	0	0	0	0	57	6	0	57
MW-16SR	2.0 - 10.0	842	232	280	579	922	355	552	0	38,045	3,153	0	38,045
MW-16W	2.0 - 10.0	--	--	--	--	--	--	--	3	3	3	3	3
MW-17W	2.0 - 10.0	--	--	--	--	--	--	--	11	11	11	11	11
MW-26D	14.0 - 19.0	--	--	--	--	3	0	0	0	3	2	0	3
MW-29D	14.0 - 19.0	0	0	0	0	0	--	--	0	2	0	0	2
MW-29S	5.0 - 10.0	0	0	0	0	0	--	--	0	516	15	0	516
MW-30W/W-R	2.0 - 10.0	0	0	0	0	0	0	0	0	1,300	113	0	1,300
MW-32W/W-R	2.0 - 10.0	97	45	47	116	143	38	12	0	1,435	249	0	1,435
MW-34D	27.5 - 28.5	0	0	0	6	0	0	0	0	96	5	0	96
MW-34I	18.5 - 19.5	0	0	0	124	12	0	0	0	496	63	0	496
MW-34S	2.0 - 10.0	150	68	110	402	81	186	51	0	1,604	317	0	1,604
MW-45W	2.0 - 10.0	--	0	10	9	0	0	0	0	1,676	230	0	1,676
MW-46W/W-R	2.0 - 10.0	37	71	47	74	102	24	0	0	4,156	605	0	4,156
MW-64	19.0 - 24.0	0	0	0	0	0	0	0	0	1,600	58	0	1,600
MW-65	11.0 - 16.0	0	0	0	0	0	0	0	0	502	29	0	502
MW-66D	24.0 - 29.0	0	0	0	0	0	0	0	0	2	0	0	2
MW-66S	1.5 - 11.5	0	0	0	1	0	0	0	0	1	0	0	1
MW-68D	25.0 - 30.0	--	--	--	--	--	--	--	0	3	1	0	3
MW-70/70S	2.0 - 12.0	0	0	10	13	39	25	96	0	1,720	109	0	1,720
MW-73	2.0 - 12.0	497	345	495	1189	444	105	1	105	1,800	863	1	1,800
MW-75	2.0 - 12.0	0	0	180	47	0	0	1024	0	2,890	522	0	2,890
MW-76	2.0 - 12.0	0	0	0	0	0	0	0	0	142	33	0	142
MW-78	5.0 - 20.0	0	46	40	31	0	0	1	0	1,439	387	0	1,439
MW-79	5.0 - 20.0	140	0	0	0	90	1	6	0	6,015	815	0	6,015
MW-80	5.0 - 20.0	831	601	884	1173	277	509	790	53	2,500	1,195	53	2,500
MW-81	5.0 - 20.0	1,068	448	1,130	1508	480	0	50	0	2,700	994	0	2,700
MW-82	5.0 - 20.0	234	286	127	306	0	1	0	0	3,090	645	0	3,090
MW-83	5.0 - 20.0	0	0	0	2	0	0	1	0	230	56	0	230
MWBS-01S	5.0 - 15.0	--	--	--	--	--	--	--	0	64	22	0	64
MWBS-02D	24.5 - 25.5	22	0	0	0	0	0	0	0	254	31	0	254
MWBS-02I	14.5 - 15.5	10	0	0	0	0	0	0	0	696	98	0	696
MWBS-02S	5.0 - 15.0	0	0	0	0	0	7	0	0	274	59	0	274
MW-UST1	2.0 - 12.0	358	363	239	140	--	--	--	0	979	292	0	979
MW-UST2	2.0 - 12.0	155	59	450	550	--	--	--	0	621	279	0	621
MW-UST3	2.0 - 12.0	0	0	0	0	--	--	--	0	134	21	0	134
PDMW-01	5.0 - 20.0	0	0	0	1464	0	0	2	0	13,000	845	0	13,000
PDMW-02	5.0 - 20.0	2,716	2,520	1,241	1976	3025	2226	1934	1,130	5,848	2,413	1,130	5,848
PDMW-03	5.0 - 20.0	--	--	--	--	--	--	1721	--	--	--	1,721	1,721
SV-02	2.0 - 12.0	0	0	133	0	0	3	0	0	515	91	0	515
SV-03	2.0 - 12.0	17	0	31	72	17	0	0	0	548	131	0	548

NOTES:

PAH - polycyclic aromatic hydrocarbon

-- = Not Analyzed/Applicable

ug/L - Micrograms per liter

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.

Peristaltic pump results are shown on this table.

Table 4-8
Summary of BTEX, MTBE, and PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Operable Unit: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU3 BBMW-28I 10-20 8/7/2008	OU3 IO-10 6-16 8/14/2008	OU3 MW-02IR 12-24 8/13/2008	OU3 MW-02SR 2-12 8/14/2008	OU3 MW-04 4.1-15.1 8/22/2008	OU3 MW-16I 14-19 8/15/2008	OU3 MW-16SR 2-10 9/2/2008	OU3 MW-26D 14-19 8/14/2008	OU3 MW-45W 2-10 8/7/2008	OU3 MW-46WR 2-10 8/14/2008	OU3 MW-64 19-24 8/15/2008	OU3 MW-65 11-16 8/18/2008	OU3 MW-73 2-12 8/7/2008
BTEX (ug/L)														
Benzene	1	10 U	10 U	10 U	10 U	10 U	10 U	**210 J**	10 U	**91**	**71**	10 U	10 U	**4900**
Toluene	5	10 U	10 U	**3 J**	**5 J**	10 U	10 U	**1800**	10 U	10 U	**590**	10 U	10 U	**300**
Ethylbenzene	5	10 U	10 U	10 U	**2 J**	10 U	10 U	**830**	10 U	**76**	**910**	10 U	10 U	**1500**
Xylene, total	5	10 U	10 U	10 U	**9 J**	10 U	10 U	**3000**	10 U	**75**	**1900**	10 U	10 U	**3100**
Total BTEX	NE	ND	ND	3	**16**	ND	ND	**5840**	ND	**242**	**3471**	ND	ND	**9800**
Other VOCs (ug/L)														
Methyl tert-butyl ether	10	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Non-carcinogenic PAHs (ug/L)														
Acenaphthene	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	**1 J**
Acenaphthylene	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	50	10 U	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	50	10 U	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	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	**22**	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	10 U	**530**	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50*	10 U	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	50	10 U	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 Noncarcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	**552**	ND	ND	ND	ND	ND	**1**
Carcinogenic PAHs (ug/L)														
Benz[a]anthracene	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[a]pyrene	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	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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)														
Total PAHs	NE	ND	ND	ND	ND	ND	ND	**552**	ND	ND	ND	ND	ND	**1**

Table 4-8
Summary of BTEX, MTBE, and PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Operable Unit: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU3 MW-75 2-12 8/22/2008	OU3 MW-79 5-20 8/12/2008	OU3 MW-80 5-20 8/18/2008	OU3 MW-81 5-20 8/19/2008	OU3 MW-82 5-20 8/21/2008	OU3 MW-83 5-20 8/18/2008	OU3 MWBS-02D 24.5-25.5 8/12/2008	OU3 MWBS-02I 14.5-15.5 8/12/2008	OU3 PDMW-01 5-20 8/13/2008	OU3 PDMW-02 5-20 8/13/2008	OU3 PDMW-03 5-20 8/29/2008	OU3 SV-02 2-12 8/29/2008
BTEX (ug/L)													
Benzene	1	**790 J**	**800**	**5300**	**640**	**18**	**3 J**	10 U	10 U	10 U	**300 J**	**61**	10 U
Toluene	5	**34000**	**410**	**24000**	**9400**	**2400**	**94**	10 U	**5 J**	10 U	**19000**	**8000**	10 U
Ethylbenzene	5	**13000**	**1000**	**10000**	**2500**	**24**	**170**	10 U	**2 J**	10 U	**6100**	**7500**	10 U
Xylene, total	5	**29000**	**900**	**13000**	**6300**	**4500**	**420**	10 U	**10**	10 U	**26000**	**30000**	10 U
Total BTEX	NE	**76790**	**3110**	**52300**	**18840**	**6942**	**687**	ND	**17**	ND	**51400**	**45561**	ND
Other VOCs (ug/L)													
Methyl tert-butyl ether	10	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U
Non-carcinogenic PAHs (ug/L)													
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**	**1 J**	10 U
Acenaphthylene	NE	**2 J**	10 U	10 U	**2 J**	10 U	10 U	10 U	10 U	10 U	**11**	**6**	10 U
Anthracene	50	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	50	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	50*	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	**2 J**	**2 J**	10 U
Methylnaphthalene, 2-	NE	**42**	**3 J**	**60**	**16**	10 U	10 U	10 U	10 U	10 U	**120 J**	**110 J**	10 U
Naphthalene	10*	**980**	**3 J**	**730**	**31**	10 U	**1 J**	10 U	10 U	**2 J**	**1800**	**1600**	10 U
Phenanthrene	50*	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	50	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 Noncarcinogenic PAHs	NE	**1024**	**6**	**790**	**50**	ND	**1**	ND	ND	**2**	**1934**	**1721**	ND
Carcinogenic PAHs (ug/L)													
Benz[a]anthracene	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[a]pyrene	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	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
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/L)													
Total PAHs	NE	**1024**	**6**	**790**	**50**	ND	**1**	ND	ND	**2**	**1934**	**1721**	ND

NOTES:

BTEX - benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs)
VOCs - volatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
ug/L - micrograms per liter or parts per billion (ppb)
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
NE - not established
ND - not detected; total concentration is listed as ND because no compounds were detected in the group
Bolding indicates the compound was detected
Shading indicates an exceedance of established NYS AWQS
U - indicates not detected at or above the reporting limit shown
J - estimated value

Table 4-9
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Operable Unit:		OU3	OU3	OU3	OU3	OU3	OU3
Well ID:		BBMW-09S	BBMW-28S	BBMW-29	BBMW-33	BW-UST-10	BW-UST-11
Screened Interval (feet):		5-15	2-12	2-9	7-12	4.65-9.95	4.4-9.4
Date Sampled:	**NYS AWQS**	8/12/2008	8/7/2008	8/8/2008	8/18/2008	9/5/2008	9/5/2008
BTEX (ug/l)							
Benzene	1	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND
Other VOCs (ug/l)							
Acetone	50	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ
Butanone, 2-	50	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 UJ	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Isopropyl benzene	5	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Methyl tert-butyl ether	10	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U
Propylbenzene, n-	5	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U
Tetrahydrofuran	50	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	5	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Non-carcinogenic PAHs (ug/l)							
Acenaphthene	20	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	**3 J**	**5**	10 U	10 U	10 U
Phenanthrene	50	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	10 U	10 U	10 U
Total Noncarcinogenic PAHs	NE	ND	**3**	**5**	ND	ND	ND
Carcinogenic PAHs (ug/l)							
Chrysene	0.002	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)							
Total PAHs	NE	ND	**3**	**5**	ND	ND	ND

Table 4-9
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Operable Unit:		OU3	OU3	OU3	OU3	OU3	OU3
Well ID:		BW-UST-28	BW-UST-29	MW-01S	MW-03	MW-11W	MW-12W
Screened Interval (feet):		5-10	5-10	4-14	4.94-14.94	2-10	2-10
Date Sampled:	**NYS AWQS**	9/5/2008	9/4/2008	8/13/2008	8/19/2008	9/3/2008	8/12/2008
BTEX (ug/l)							
Benzene	1	10 U	10 U	10 U	10 U	**20**	10 U
Toluene	5	10 U	10 U	10 U	**9**	**10**	10 U
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U	10 U	**5**	10 U
Total BTEX	NE	ND	ND	ND	**9**	**35**	ND
Other VOCs (ug/l)							
Acetone	50	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U
Butanone, 2-	50	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	**2 J**	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	5	10 U	10 U	10 UJ	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ
Isopropyl benzene	5	10 U	10 U	10 U	**21**	10 U	10 U
Methyl tert-butyl ether	10	**13**	10 U	10 U	10 U	10 U	**2 J**
Naphthalene	10	10 U	10 U	10 U	**33**	**2 J**	10 U
Propylbenzene, n-	5	10 U	10 U	10 U	**44**	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U
Tetrahydrofuran	50	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	5	10 U	10 U	10 U	**5 J**	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ
Non-carcinogenic PAHs (ug/l)							
Acenaphthene	20	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	**3 J**	10 U	10 U	10 U	**3 J**
Phenanthrene	50	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	10 U	10 U	10 U
Total Noncarcinogenic PAHs	NE	ND	**3**	ND	ND	ND	**3**
Carcinogenic PAHs (ug/l)							
Chrysene	0.002	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)							
Total PAHs	NE	ND	**3**	ND	ND	ND	**3**

Table 4-9
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Operable Unit:		OU3	OU3	OU3	OU3	OU3	OU3
Well ID:		MW-30WR	MW-32WR	MW-34D	MW-34I	MW-34S	MW-66D
Screened Interval (feet):		2-9	2-9	27.5-28.5	18.5-19.5	2-10	24-29
Date Sampled:	**NYS AWQS**	8/8/2008	8/7/2008	8/15/2008	8/15/2008	8/13/2008	8/6/2008
BTEX (ug/l)							
Benzene	1	10 U	10 U	10 U	10 U	**570**	10 U
Toluene	5	**1 J**	10 U	10 U	10 U	**1000**	10 U
Ethylbenzene	5	10 U	10 U	10 U	10 U	**68**	10 U
Xylene, m,p-	5	10 U	10 U	10 U	10 U	**2200**	10 U
Xylene, o-	5	10 U	10 U	10 U	10 U	**1800**	10 U
Total BTEX	NE	**1**	ND	ND	ND	**5638**	ND
Other VOCs (ug/l)							
Acetone	50	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ
Butanone, 2-	50	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	5	10 U	10 U	10 UJ	10 UJ	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ
Isopropyl benzene	5	10 UJ	**5 J**	10 U	10 U	**16**	10 UJ
Methyl tert-butyl ether	10	10 U	10 U	10 U	10 U	**1 J**	10 U
Naphthalene	10	10 U	**37**	10 U	10 U	**110**	10 U
Propylbenzene, n-	5	10 UJ	10 UJ	10 U	10 U	**4 J**	10 UJ
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U
Tetrahydrofuran	50	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	5	10 U	10 U	10 U	10 U	**220**	10 U
Trimethylbenzene, 1,2,4-	5	10 UJ	10 UJ	10 U	10 U	**190**	10 UJ
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ
Non-carcinogenic PAHs (ug/l)							
Acenaphthene	20	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	**2 J**	10 U
Naphthalene	10	10 U	**12**	10 U	10 U	**49**	10 U
Phenanthrene	50	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	10 U	10 U	10 U
Total Noncarcinogenic PAHs	NE	ND	**12**	ND	ND	**51**	ND
Carcinogenic PAHs (ug/l)							
Chrysene	0.002	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)							
Total PAHs	NE	ND	**12**	ND	ND	**51**	ND

Table 4-9
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

Operable Unit:		OU3	OU3	OU3	OU3	OU3	OU3
Well ID:		MW-66S	MW-70/70S	MW-76	MW-78	MWBS-02S	SV-03
Screened Interval (feet):		1.5-11.5	2-12	2-12	5-20	5-15	2-12
Date Sampled:	**NYS AWQS**	8/6/2008	8/14/2008	8/19/2008	8/8/2008	9/2/2008	8/19/2008
BTEX (ug/l)							
Benzene	1	10 U	**110**	10 U	**130**	10 U	10 U
Toluene	5	10 U	**1700**	**1 J**	**170**	10 U	**50**
Ethylbenzene	5	10 U	**3500**	10 U	**6**	10 U	10 U
Xylene, m,p-	5	10 U	**3600**	10 U	**13**	10 U	10 U
Xylene, o-	5	10 U	**2000**	10 U	**130**	10 U	**10**
Total BTEX	NE	ND	**10910**	**1**	**449**	ND	**60**
Other VOCs (ug/l)							
Acetone	50	10 UJ	**3 J**	**4 J**	10 UJ	10 U	10 U
Butanone, 2-	50	10 UJ	10 U	10 U	10 UJ	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	**4 J**	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 UJ	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	**1 J**	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	**2 J**	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 U	10 UJ	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	5	10 U	10 UJ	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Isopropyl benzene	5	10 UJ	**11**	10 U	**16 J**	10 U	**7**
Methyl tert-butyl ether	10	**5**	10 U	10 U	10 U	10 U	**1 J**
Naphthalene	10	10 U	**180**	10 U	**150**	10 U	**110**
Propylbenzene, n-	5	10 UJ	**4 J**	10 U	**5 J**	10 U	**6**
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U
Tetrahydrofuran	50	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	5	10 U	**150**	10 U	**11**	10 U	**6 J**
Trimethylbenzene, 1,2,4-	5	10 UJ	**150**	10 U	**53 J**	10 U	**3 J**
Trimethylpentane, 2,2,4-	NE	10 UJ	10 U	10 U	10 UJ	10 U	10 U
Non-carcinogenic PAHs (ug/l)							
Acenaphthene	20	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	**2 J**	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	**94**	10 U	10 U	10 U	10 U
Phenanthrene	50	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	10 U	10 U	10 U
Total Noncarcinogenic PAHs	NE	ND	**96**	ND	ND	ND	ND
Carcinogenic PAHs (ug/l)							
Chrysene	0.002	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)							
Total PAHs	NE	ND	**96**	ND	ND	ND	ND

Table 4-9
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 3 (OU-3)

NOTES:

BTEX - benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs)
VOCs - volatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
ug/L - micrograms per liter or parts per billion (ppb)
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
NE - not established
ND - not detected; total concentration is listed as ND because no compounds were detected in the group
Bolding indicates the compound was detected
Shading indicates an exceedance of established NYS AWQS
U - indicates not detected at or above the reporting limit shown
J - estimated value
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name: / Sample Date:	OU1SG06 2/6/2008	OU1SG06 4/3/2008	OU1SG06 6/18/2008	OU1SG06 9/19/2008	OU1SG07 2/6/2008	OU1SG07 4/3/2008	OU1SG07 6/18/2008	OU1SG07 9/19/2008	OU1SG08 2/7/2008	OU1SG08 6/13/2008	OU1SG08 9/30/2008	OU2SG01 7/21/2004	OU2SG01 10/13/2004	OU2SG01 5/5/2005	OU2SG01 8/30/2005	OU2SG01 2/1/2006	OU2SG01 6/14/2006	OU2SG01 9/7/2006	OU2SG01 2/22/2007	OU2SG01 5/24/2007
BTEX (ug/m3)																				
Benzene	**2.8**	0.64 U	0.64 U	**0.29 J**	**15**	0.64 U	0.64 UJ	**0.41 J**	**0.86**	0.64 UJ	0.64 U	**10.2**	**5.1**	**3.8**	**5.4**	**6.1**	13.4 U	**18.5**	**7.0**	**0.68 J**
Ethylbenzene	**11**	0.87 U	**0.22 J**	**0.26 J**	**5.6**	**0.36 J**	0.87 U	**1.0**	**0.74 J**	**1.2**	**0.32 J**	**8.7**	**7.4**	**7.4**	**17.4**	**17.4**	18.2 U	**43**	**7.6**	**7.2**
Toluene	**37**	**0.51 J**	**0.56 J**	**1.9**	**84**	**3.2**	**6.6**	**16**	**9.0**	**7.5**	**8.4**	**32.4**	**32.4**	**36.6**	**75.4**	**56.5**	**56.5**	**128.1**	**180**	**270**
Xylene, m,p-	**140**	**0.82 J**	**0.87 J**	**0.74 J**	**17**	**1.1 J**	**0.56 J**	**2.5**	**2.6**	**3.9**	**0.98 J**	**29.5**	**30.8**	**24.3**	**69.5**	**47.8**	**43.4**	**95.5**	**20**	**22**
Xylene, o-	**200**	**0.59 J**	**0.56 J**	**0.22 J**	**4.7**	**0.49 J**	0.87 U	**0.95**	**1.2**	**1.6**	**0.37 J**	**9.1**	**9.6**	**8.3**	**22.1**	**12.2**	18.2 U	**30.8**	**6.4**	**9.8**
Other VOCs (ug/m3)																				
Acetaldehyde	**13**	4.5 U	**14**	**24**	**3.1 J**	**7.2 J**	**6.4**	**28 J**	4.5 U	**24**	1.8 UJ	NA	NA	NA	NA	NA	NA	NA	**4.4 J**	**100 J**
Acetone	1.2 U	2.7 U	4.4 U	**5.7**	**5.2 J**	4.7 U	**3.2**	0.47 UJ	1.2 U	**10**	0.47 UJ	**109.3**	**104.5**	**427.6**	**109.3**	**47.5**	**641.4**	**218.5**	**74**	**24 J**
Acrolein (propenal)	0.46 U	**0.57 J**	**1.2**	**1.0**	**0.34 J**	1.2 U	0.46 U	**2.5**	0.46 U	**1.2**	**0.54**	NA	NA	NA	NA	NA	NA	NA	0.96 U	2.4 U
Allyl chloride	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	9.4 U	9.1 U	9.1 U	10 U	9.1 U	53.2 U	10 U	1.3 U	1.3 U
Benzothiophene	1.1 U	1.1 UJ	1.1 UJ	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 U	NA	NA	NA	NA	NA	NA	NA	12 UJ	5.6 U
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	**0.33 J**	1.3 U	1.3 U	5.1 U	4.8 U	4.9 U	5.4 U	4.9 U	28.1 U	5.4 U	2.8 U	2.8 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	7.9 U	7.4 U	7.5 U	8.3 U	7.5 U	43.4 U	8.3 U	4.3 U	4.2 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	3 U	2.8 U	2.8 U	3.1 U	2.8 U	16.3 U	3.1 U	1.6 U	1.6 U
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	0.44 U	**1.7 J**	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	1.7 U	**3.1**	**2.9**	1.8 U	1.6 U	9.3 U	**11.7**	**0.70 J**	0.91 U
Butane	**1.3**	0.48 U	**0.19 J**	**0.64**	**11**	**6.7**	**0.33 J**	**6.4**	**1.1**	0.48 U	**8.5**	NA	NA	NA	NA	NA	NA	NA	**23**	**0.77 J**
Butanone, 2-	**9.6**	**0.52 J**	**1.0**	**2.2**	**1.9**	**0.56 J**	**0.74**	**3.1**	**1.3**	**2.9**	**0.85**	**14.2**	**14.2**	**32.4**	2.4 U	**8.3**	**20.9**	**29.5**	**7.5**	**12**
Carbon disulfide	0.62 U	**0.53 J**	2.4 U	**5.4**	**4.2**	**0.62**	0.75 U	**1.5**	**0.19 J**	**1.8 J**	**0.72**	**15.6**	**5**	**3.7**	2.5 U	**3.1**	13.1 U	**13.1**	**6.5**	**6.1 J**
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	1.3 U	**1.3**	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	4.8 U	4.5 U	4.6 U	5 U	4.6 U	26.4 U	5 U	2.6 U	2.6 UJ
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	3.5 U	3.3 U	3.4 U	3.7 U	3.4 U	19.3 U	3.7 U	1.9 U	1.9 U
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	2 U	1.9 U	1.9 U	2.1 U	1.9 U	11.1 U	2.1 U	1.1 U	1.1 U
Chloroform	0.98 U	0.98 U	**0.49 J**	**0.34 J**	**1.5**	**2.2**	**4.8**	**2.5**	**29**	**1.8**	**0.39 J**	3.7 U	3.5 U	3.6 U	3.9 U	3.6 U	20.5 U	3.9 U	**3.6**	**1.4 J**
Chloromethane	0.41 U	0.41 U	**0.23 J**	0.41 U	0.41 U	**0.11 J**	**0.12 J**	**0.43**	0.41 U	**0.23 J**	**0.15 J**	6.2 U	6 U	6 U	6.6 U	6 U	35.1 U	6.6 U	**0.74 J**	**0.64 J**
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	2.2 U	2.1 U
Cryofluorane	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	5.3 U	5 U	5.1 U	5.6 U	5.1 U	29.4 U	5.6 U	2.9 U	2.9 U
Cyclohexane	**18**	0.69 U	0.69 U	0.69 U	**2.3**	0.69 U	0.69 U	**1.5**	**0.21 J**	**0.38 J**	0.69 U	**154.9**	**7.9**	2.5 U	**3.3**	2.5 U	14.5 U	2.8 U	**31**	**28**
Decane, n-	**7.6**	**2.0**	**21**	**5.6**	**11**	**3.9**	**8.8**	**15**	**3.2**	**80**	**24**	NA	NA	NA	NA	NA	NA	NA	**2.4**	**13**
Dibromochloromethane	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	6.5 U	6.1 U	6.2 U	6.8 U	6.2 U	35.8 U	6.8 U	3.6 U	3.5 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	5.8 U	5.5 U	5.6 U	6.1 U	5.6 U	32.3 U	6.1 U	3.2 U	3.2 U
Dichlorobenzene, 1,2-	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	4.6 U	4.3 U	4.4 U	4.8 U	4.4 U	25.3 U	4.8 U	2.5 U	2.5 U
Dichlorobenzene, 1,3-	**7.0**	**0.50 J**	**2.8**	1.2 U	**7.7**	**1.5**	**1.2**	1.2 U	**2.3**	**13**	**0.59 J**	4.6 U	4.3 U	4.4 U	4.8 U	4.4 U	25.3 U	4.8 U	2.5 U	2.5 U
Dichlorobenzene, 1,4-	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	**0.96 J**	1.2 U	4.6 U	4.3 U	4.4 U	4.8 U	4.4 U	25.3 U	4.8 U	2.5 UJ	**5**
Dichlorodifluoromethane	**2.3**	**2.0**	**2.9**	**2.8**	**1.0**	**2.9**	**2.5**	**2.8**	**2.3**	**3.3**	**3.1**	3.8 U	3.6 U	3.6 U	4 U	3.6 U	20.8 U	4 U	**2.5**	**2.8**
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	3.1 U	2.9 U	3 U	3.2 U	3 U	17 U	3.2 U	1.7 U	1.7 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	3.1 U	2.9 U	3 U	3.2 U	3 U	17 U	3.2 U	1.7 U	1.7 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	**0.52 J**	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	3 U	2.9 U	2.9 U	3.2 U	2.9 U	16.7 U	3.2 U	1.7 U	1.6 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	3 U	2.9 U	2.9 U	3.2 U	2.9 U	16.7 U	3.2 U	1.7 U	1.6 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	3.5 U	3.3 U	3.4 U	3.7 U	3.4 U	19.4 U	3.7 U	1.9 U	1.9 U
Dichloropropene, cis-1,3	0.91 U	0.91 UJ	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	3.4 U	3.3 U	3.3 U	3.6 U	3.3 U	19.1 U	3.6 U	1.9 U	1.9 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	3.4 U	3.3 U	3.3 U	3.6 U	3.3 U	19.1 U	3.6 U	1.9 U	1.9 U
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	10.8 U	10.5 U	10.5 U	11.5 U	10.5 U	61.3 U	11.5 U	3.8 U	1.5 U
Dodecane, n-	**4.9**	**1.7**	**19 J**	**7.7**	**2.2**	**3.3**	**12 J**	**23**	**1.2 J**	**40 J**	**13**	NA	NA	NA	NA	NA	NA	NA	**0.73 J**	**30**
Ethanol	1.9 U	**4.2 J**	**7.8**	**3.8**	**38**	**12**	**3.2**	**10**	**2.2**	**44**	**18**	**64.1**	**5.8**	**244.9 J**	6 U	**22.6**	**90.4**	**111.2**	**85**	**4.9**
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	NA	NA	NA	NA	NA	NA	NA	1.9 U	1.9 U
Ethyltoluene, p-	**35**	0.98 U	**0.29 J**	0.98 U	**1.2**	0.98 U	0.98 U	**0.69 J**	**0.54 J**	**0.84 J**	0.98 U	**8.8**	**9.8**	**7.9**	**21.6**	**6.9 J**	20.6 U	**25.6**	**1.1 J**	**1.9 J**
Heptane, n-	**25**	0.82 UJ	0.82 UJ	0.82 U	**53**	0.82 UJ	**0.20 J**	**1.3**	**1.9**	**3.5**	0.82 U	**122.9**	**4.1**	**3.5**	**8.6**	**4.9**	17.2 U	**18**	**8.1**	1.7 U
Hexachlorobutadiene	2.1 U	2.1 U	2.1 UJ	2.1 U	2.1 U	2.1 UJ	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	32 U	30.9 U	30.9 U	34.1 U	30.9 U	181.3 U	34.1 UJ	4.5 UJ	4.4 U
Hexane, n-	**10**	0.70 U	0.70 U	**0.21 J**	**25**	0.70 U	0.70 U	**0.88**	**0.53 J**	**0.21 J**	**0.25 J**	**33.5**	**8.1**	**5.3**	**7.4**	**4.6**	14.8 U	**20.4**	**280**	**13**
Hexanone, 2-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**0.70 J**	0.82 U	0.82 U	0.82 U	12.3 U	11.9 U	11.9 U	13.1 U	11.9 U	69.6 U	13.1 U	4.3 U	1.7 U
Indan	**20**	0.97 U	0.97 U	0.97 U	**0.48 J**	0.97 U	0.97 U	**0.34 J**	**0.39 J**	**1.1**	0.97 U	ND	ND	NA	NA	NA	NA	15.5 U	**1.0 J**	**2**
Indene	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	**0.38 J**	0.95 U	ND	ND	NA	NA	NA	NA	15.2 U	2.0 U	2 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.7 U	3.5 U	3.6 U	3.9 U	3.6 U	20.6 U	3.9 U	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	0.72 U	**0.76**	0.72 U	0.72 U	0.72 U	0.72 U	0.72 UJ	0.72 U	2.7 U	2.6 U	2.6 U	**4.7**	2.6 U	15.1 U	2.9 U	1.5 U	1.5 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**0.53 J**	0.82 U	0.82 U	**4.5**	2.9 U	3 U	3.3 U	3 U	17.2 U	3.3 U	**1.4 J**	1.7 U
Methylene chloride	1.7 UJ	1.7 U	1.7 UJ	0.69 U	**0.80 J**	1.7 U	1.7 U	3.8 U	**0.49 J**	2.5 U	3.1 U	2.6 UJ	2.5 U	2.5 U	2.8 U	2.5 U	14.6 U	2.8 U	**5.0 J**	**27**
Methylnaphthalene, 1-	**0.35 J**	1.2 UJ	2.9 UJ	1.2 U	**0.41 J**	1.2 UJ	2.9 U	1.2 U	1.2 U	**0.41 J**	1.2 UJ	NA	NA	NA	NA	NA	NA	NA	30 U	30 U
Methylnaphthalene, 2-	**0.64 J**	1.2 UJ	2.9 UJ	1.2 U	**0.46 J**	1.2 UJ	2.9 UJ	1.2 U	1.2 U	**0.93 J**	**0.44 J**	NA	NA	NA	NA	NA	NA	NA	30 U	12 U
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	1.7 U	1.6 U
Methylthiophene, 3-	0.80 UJ	0.80 U	0.80 U	0.80 U	0.80 UJ	0.80 U	0.80 U	0.80 U	0.80 UJ	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	1.7 U	1.6 U
Naphthalene	**2.0**	1.0 U	**0.73 J**	1.0 U	**0.37 J**	**0.27 J**	**0.26 J**	1.0 U	1.0 U	**1.9**	**0.61 J**	15.7 U	15.2 U	15.2 UJ	**26.2**	15.2 U	89.1 UJ	16.8 U	5.5 U	**2.3**
Nonane	**8.7**	1.0 U	**0.58 J**	**0.26 J**	**7.8**	**0.38 J**	**0.26 J**	**1.4**	**1.5**	**2.0**	**0.70 J**	NA	NA	NA	NA	NA	NA	NA	**2.8**	**2.2**

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU1SG06	OU1SG06	OU1SG06	OU1SG06	OU1SG07	OU1SG07	OU1SG07	OU1SG07	OU1SG08	OU1SG08	OU1SG08	OU2SG01	OU2SG01	OU2SG01	OU2SG01	OU2SG01	OU2SG01	OU2SG01	OU2SG01	OU2SG01
Sample Date:	2/6/2008	4/3/2008	6/18/2008	9/19/2008	2/6/2008	4/3/2008	6/18/2008	9/19/2008	2/7/2008	6/13/2008	9/30/2008	7/21/2004	10/13/2004	5/5/2005	8/30/2005	2/1/2006	6/14/2006	9/7/2006	2/22/2007	5/24/2007
Other VOCs Continued (ug/m3)																				
Octane, n-	**19**	**1.5**	**65**	**2.7**	**12**	**2.8**	**25**	**3.8**	**0.89 J**	**550**	**45**	NA	NA	NA	NA	NA	NA	NA	**3.0**	1.9 U
Pentane	0.59 U	0.59 U	0.59 U	0.59 U	**16**	**0.56 J**	0.59 U	**3.7**	**0.62**	0.59 U	**0.92**	NA	NA	NA	NA	NA	NA	NA	**20**	1.2 U
Propanol, 2-	0.49 UJ	**1.0 J**	1.3 UJ	0.49 U	**76 J**	**2.7**	**2.8 J**	**11 J**	**6.2 J**	**5.2 J**	**1.7**	7.4 U	7.1 U	**14.5**	7.9 U	7.1 U	**68.8**	**8.8**	**7.4**	**2 J**
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.7 U	3.5 U	3.6 U	**4.9**	3.6 U	20.6 U	**6.4**	NA	NA
Styrene	**0.89**	0.85 U	**0.51 J**	**0.21 J**	**0.47 J**	0.85 U	0.85 U	**0.94**	0.85 U	**0.68 J**	**0.31 J**	3.2 U	3.1 U	3.1 U	**6**	3.1 U	17.9 U	**4.1**	1.8 U	1.8 U
t-Butyl alcohol	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	**0.18 J**	0.61 U	**1.2**	0.61 U	0.61 U	0.61 U	NA	NA	NA	NA	NA	NA	NA	1.3 U	1.2 U
Tetrachloroethane, 1,1,2,2-	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	5.2 U	4.9 U	5 U	5.5 U	5 U	28.8 U	5.5 U	2.9 U	2.8 U
Tetrachloroethene	**16**	**13**	**44**	**56**	**32**	**14**	**17**	**9.3**	**3.3**	**3.0**	**2.4**	**5.2**	**26.5**	5 U	**8.1**	**9.5**	**43.4**	**19**	**9.4**	**10**
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U	2.1 U	2.2 U	**2.7**	**2.5**	12.4 U	**2.7**	NA	NA
Tetramethylbenzene, 1,2,4,5-	**31**	**0.32 J**	1.1 UJ	**0.44 J**	**0.88 J**	1.1 U	**0.49 J**	**0.66 J**	**0.44 J**	**3.9 J**	**0.63 J**	NA	NA	NA	NA	NA	NA	NA	2.3 U	**4.2 J**
Thiophene	0.69 U	0.69 U	0.69 UJ	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	NA	NA	NA	NA	NA	NA	NA	1.4 U	1.4 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	3 U	2.9 U	2.9 U	3.2 U	2.9 U	16.7 U	3.2 U	1.7 U	1.6 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	1.5 U	**0.44 J**	**0.69 J**	**0.61 J**	**0.77 J**	**0.70 J**	1.5 U	**0.54 J**	**0.61 J**	**1.1 J**	**0.89 J**	5.8 U	5.5 U	5.6 U	6.1 U	5.6 U	32.2 U	6.1 U	3.2 U	3.1 U
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 UJ	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	22.3 U	21.5 U	21.5 U	23.7 U	21.5 U	126.2 U	23.7 UJ	3.1 UJ	3 U
Trichloroethane, 1,1,1-	**0.27 J**	1.1 U	**1.1**	**1.7**	**0.82 J**	1.1 U	**0.55 J**	**0.33 J**	**0.49 J**	**2.3**	**2.9**	4.1 U	3.9 U	4 U	4.4 U	4 U	22.9 U	4.4 U	2.3 U	2.2 UJ
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	4.1 U	3.9 U	4 U	4.4 U	4 U	22.9 U	4.4 U	2.3 U	2.2 U
Trichloroethene	**0.59 J**	**0.71 J**	**2.0**	**2.3**	**0.86 J**	1.1 U	1.1 U	**7.1**	1.1 U	1.1 U	1.1 U	4.1 U	3.9 U	3.9 U	4.3 U	3.9 U	22.6 U	4.3 U	**0.90 J**	2.2 U
Trichlorofluoromethane	1.1 U	**1.2**	**1.6**	**1.4**	**1.4**	**2.3**	**1.5**	**1.5**	**1.6**	**2.0**	**2.0**	4.3 U	4 U	4.1 U	4.5 U	4.1 U	23.6 U	4.5 U	**1.3 J**	**1.7 J**
Trimethylbenzene, 1,2,3-	**180**	**0.69 J**	**1.8**	0.98 U	**3.6**	**0.92 J**	**0.64 J**	**1.0**	**2.2**	**4.6**	**0.28 J**	NA	NA	NA	NA	NA	NA	NA	**2.0 J**	**3.6**
Trimethylbenzene, 1,2,4-	**100**	**0.28 J**	**0.59 J**	**0.29 J**	**1.4**	**0.27 J**	0.98 U	**2.5 J**	**0.79 J**	**1.1**	**0.63 J**	**6.9**	**8.8**	**7.4**	**18.7**	**5.4**	20.6 U	**28.5 J**	**4.5**	**15 J**
Trimethylbenzene, 1,3,5-	**76**	**0.34 J**	**0.93 J**	0.98 U	**1.2**	**0.36 J**	**0.29 J**	**0.84 J**	**0.83 J**	**2.2**	0.98 U	3.7 U	3.5 U	3.6 U	**7.4**	3.6 U	20.6 U	**8.4**	**1.6 J**	**3.4**
Trimethylpentane, 2,2,4-	**180**	**0.58 J**	0.93 UJ	**0.37 J**	**14**	0.93 UJ	0.93 U	0.93 U	**0.51 J**	**1.2**	0.93 U	3.6 U	3.4 U	3.4 U	**10.3**	**261.6**	**5606.4**	**453.2**	**6.9 J**	1.9 U
Undecane, n-	**5.4**	**0.84 J**	**3.3**	1.3 UJ	**4.9**	**2.0**	**1.3**	1.3 UJ	**1.9**	**19**	1.3 UJ	NA	NA	NA	NA	NA	NA	NA	**2.4 J**	**12**
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	NA	NA	NA	NA	NA	NA	NA	1.8 U	1.8 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	1.9 U	1.8 U	1.9 U	2 U	1.9 U	10.7 U	2 U	1.1 U	1 U
Other (%)																				
Helium	NA	NA	0.0174 U	0.0232 U	NA	NA	0.0189 U	0.0172 U	NA	0.037 U	0.014 U	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG01	OU2SG01	OU2SG01	OU2SG01	OU2SG01	OU2SG01	Duplicate of OU2SG01	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02
Sample Date:	7/25/2007	9/19/2007	12/18/2007	3/26/2008	6/24/2008	9/24/2008	9/24/2008	7/21/2004	10/13/2004	5/5/2005	8/30/2005	2/1/2006	6/14/2006	9/7/2006	2/22/2007	5/24/2007	7/25/2007	9/19/2007	12/18/2007
BTEX (ug/m3)																			
Benzene	**0.65 J**	**0.56 J**	**0.29 J**	0.64 U	0.64 U	0.64 U	0.64 U	**3.5**	**2.8**	**2.4**	**5.8**	**7.3**	16 U	**13.4**	**1.2 J**	1.3 U	**0.51 J**	**0.67 J**	0.64 U
Ethylbenzene	2.1 U	2.2 U	0.87 U	0.87 U	**0.48 J**	0.87 U	0.87 U	**10**	**6.5**	**5.6**	**18.7**	**23**	21.7 U	**41.7**	**2.3**	**3.2**	2.1 U	2.6 U	0.87 U
Toluene	**3.2**	**1.5 J**	**0.53 J**	**0.21 J**	**0.68 J**	**0.34 J**	**0.26 J**	**35.8**	**27.1**	**22.6**	**75.4**	**64.1**	**60.3**	**113.1**	**15**	**190**	**7.4**	**1.2 J**	**0.34 J**
Xylene, m,p-	4.3 U	4.3 U	1.7 U	1.7 U	**1.6 J**	1.7 U	1.7 U	**31.7**	**27.4**	**18.2**	**69.5**	**43.4**	**42.6**	**95.5**	**5.8**	**5.4**	4.2 U	5.2 U	1.7 U
Xylene, o-	2.1 U	2.2 U	0.87 U	0.87 U	**0.69 J**	0.87 U	0.87 U	**10**	**8.3**	**7.4**	**22.1**	**12.6**	21.7 U	**30.8**	**1.9 J**	**4.6**	**0.54 J**	2.6 U	0.87 U
Other VOCs (ug/m3)																			
Acetaldehyde	**150**	**28**	1.8 U	**3.5 J**	**48**	1.8 UJ	1.8 UJ	NA	**11.9**	NA	NA	NA	NA	NA	**0.66 J**	**140 J**	**150**	**35**	1.8 U
Acetone	**19 J**	**7.5**	0.47 U	1.9 U	**21**	**2.8 J**	**2.1**	**87.9**	**99.8**	**223.3**	**204.3**	**52.3**	**902.7**	**235.2**	**8.9**	**57 J**	**15 J**	**7.6**	1.2 U
Acrolein (propenal)	1.1 UJ	1.2 U	0.46 U	1.2 U	**0.32 J**	0.46 U	0.46 U	NA	NA	NA	NA	NA	NA	NA	1.0 U	2.3 U	**0.45 J**	1.4 U	0.46 U
Allyl chloride	1.5 U	1.6 U	0.63 U	0.63 U	0.63 UJ	0.63 U	0.63 U	9.1 U	9.1 U	9.1 U	10 U	9.4 U	62.6 U	9.7 U	1.4 U	1.2 U	1.5 U	1.9 U	0.63 U
Benzothiophene	2.7 U	2.7 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	NA	NA	NA	NA	NA	NA	NA	13 UJ	5.4 U	2.7 U	3.3 U	1.1 U
Bromodichloromethane	3.3 U	3.4 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	4.8 U	4.9 U	4.9 U	5.3 U	5.1 U	33.5 U	5.2 U	3.1 U	2.6 U	3.3 U	4.0 U	1.3 U
Bromoform	5.1 U	5.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	7.4 U	7.5 U	7.5 U	8.2 U	7.9 U	51.7 U	8.1 U	4.7 U	4.1 U	5 U	6.2 U	2.1 U
Bromomethane	1.9 U	1.9 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	2.8 U	2.8 U	2.8 U	3.1 U	3 U	19.4 U	3 U	1.8 U	1.5 U	1.9 U	2.3 U	0.78 U
Butadiene, 1,3-	1.1 U	1.1 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	**1.9**	1.6 U	**2.7**	1.7 U	1.7 U	11.1 U	**7.5**	1.0 U	0.87 U	1.1 U	1.3 U	0.44 U
Butane	**2.8**	1.2 U	**1.8**	**0.67**	**2.0**	**2.2 J**	0.48 UJ	NA	NA	NA	NA	NA	NA	NA	**3.4**	**1**	**1.1 J**	1.4 U	**0.59**
Butanone, 2-	**5.3**	**2.4**	0.59 U	1.5 U	**1.5**	0.59 U	0.59 U	**5.6**	**12.4**	**10.3**	**9.7**	**6.2**	**18.6**	**13.3**	**1.5 J**	**19**	**4.6**	**2.2**	0.59 U
Carbon disulfide	**5.5**	**3.7**	**0.50 J**	1.2 U	**3.4**	**1.9**	**1.9**	**3.1**	2.3 U	2.3 U	**8.1**	2.4 U	15.6 U	**3.7**	**1.4**	**8.1 J**	**4.7**	**2.9**	**0.53 J**
Carbon tetrachloride	3.1 U	3.1 U	**0.38 J**	1.3 U	1.3 U	1.3 U	1.3 U	4.5 U	4.6 U	4.6 U	5 U	4.8 U	31.5 U	4.9 U	2.9 U	2.5 UJ	3.1 U	3.8 U	1.3 U
Chlorobenzene	2.3 U	2.3 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	3.3 U	3.4 U	3.4 U	3.6 U	3.5 U	23 U	3.6 U	2.1 U	1.8 U	2.2 U	2.8 U	0.92 U
Chloroethane	1.3 U	1.3 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	1.9 U	1.9 U	1.9 U	2.1 U	2 U	13.2 U	2.1 U	1.2 U	1 U	1.3 U	1.6 U	0.53 U
Chloroform	**1.6 J**	**0.73 J**	**0.34 J**	**0.54 J**	**1.4**	**0.83 J**	**0.59 J**	3.5 U	3.6 U	3.6 U	3.9 U	3.7 U	24.4 U	3.8 U	2.2 U	1.9 U	**0.9 J**	**0.73 J**	**0.24 J**
Chloromethane	**0.45 J**	1.0 U	0.41 U	**0.11 J**	0.41 U	0.41 U	0.41 U	6 U	6 U	6 U	6.6 U	6.2 U	41.3 U	6.4 U	0.95 U	**0.52 J**	**0.31 J**	1.2 U	0.41 U
Chlorotoluene, 2-	2.6 U	2.6 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	2.4 U	2 U	2.5 U	3.1 U	1.0 U
Cryofluorane	3.4 U	3.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	5 U	5.1 U	5.1 U	5.5 U	5.3 U	35 U	5.5 U	3.2 U	2.8 U	3.4 U	4.2 U	1.4 U
Cyclohexane	**1.6 J**	1.7 U	**0.34 J**	**0.26 J**	**0.31 J**	0.69 U	0.69 U	**203.1**	**7.9**	2.5 U	**3.8**	2.6 U	17.2 U	2.7 U	**5.0**	**12**	**2.2**	**2.9**	**0.65 J**
Decane, n-	2.9 U	2.9 U	1.2 U	1.2 U	**58**	1.2 U	1.2 U	NA	NA	NA	NA	NA	NA	NA	**1.5 J**	**5.2**	**4**	3.5 U	1.2 U
Dibromochloromethane	4.2 U	4.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.1 U	6.2 U	6.2 U	6.7 U	6.5 U	42.6 U	6.6 U	3.9 U	3.4 U	4.2 U	5.1 U	1.7 U
Dibromoethane, 1,2-	3.8 U	3.8 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	5.5 U	5.6 U	5.6 U	6.1 U	5.8 U	38.4 U	6 U	3.5 U	3 U	3.8 U	4.6 U	1.5 U
Dichlorobenzene, 1,2-	3 U	3.0 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	4.3 U	4.4 U	4.4 U	4.7 U	4.6 U	30.1 U	4.7 U	2.8 U	2.4 U	2.9 U	3.6 U	1.2 U
Dichlorobenzene, 1,3-	3 U	3.0 U	1.2 U	1.2 U	**4.8**	1.2 U	1.2 U	4.3 U	4.4 U	4.4 U	4.7 U	4.6 U	30.1 U	**5.1**	2.8 U	2.4 U	2.9 U	3.6 U	1.2 U
Dichlorobenzene, 1,4-	**1.6 J**	**1.0 J**	1.2 U	**0.49 J**	**0.72 J**	1.2 U	1.2 U	4.3 U	4.4 U	4.4 U	4.7 U	4.6 U	30.1 U	4.7 U	2.8 UJ	**2.2 J**	2.9 U	3.6 U	1.2 U
Dichlorodifluoromethane	**2.5**	**2.7**	**2.9**	**1.9**	**2.4**	**2.8**	**2.7**	3.6 U	3.6 U	3.6 U	3.9 U	3.8 U	24.7 U	3.9 U	**2.4**	**2.7**	**2.4 J**	**2.7 J**	**2.3**
Dichloroethane, 1,1-	2 U	2.0 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	2.9 U	3 U	3 U	3.2 U	3.1 U	20.2 U	3.2 U	1.8 U	1.6 U	2 U	2.4 U	0.81 U
Dichloroethane, 1,2-	2 U	2.0 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	2.9 U	3 U	3 U	3.2 U	3.1 U	20.2 U	3.2 U	1.8 U	1.6 U	2 U	2.4 U	0.81 U
Dichloroethene, cis-1,2-	2 U	2.0 U	0.79 U	0.79 U	0.79 U	**0.91**	0.79 U	2.9 U	2.9 U	2.9 U	3.1 U	3 U	19.8 U	3.1 U	1.8 U	1.6 U	1.9 U	2.4 U	0.79 U
Dichloroethene, 1,1-	2 U	2.0 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.9 U	2.9 U	2.9 U	3.1 U	3 U	19.8 U	3.1 U	1.8 U	1.6 U	1.9 U	2.4 U	0.79 U
Dichloropropane, 1,2-	2.3 U	2.3 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	3.3 U	3.4 U	3.4 U	3.7 U	3.5 U	23.1 U	3.6 U	2.1 U	1.8 U	2.2 U	2.8 U	0.92 U
Dichloropropene, cis-1,3	2.2 U	2.3 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	3.3 U	3.3 U	3.3 U	3.6 U	3.4 U	22.7 U	3.5 U	2.1 U	1.8 U	2.2 U	2.7 U	0.91 U
Dichloropropene, trans-1,3	2.2 U	2.3 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	3.3 U	3.3 U	3.3 U	3.6 U	3.4 U	22.7 U	3.5 U	2.1 U	1.8 U	2.2 U	2.7 U	0.91 U
Dioxane, 1,4-	1.8 U	1.8 U	1.8 U	0.72 U	0.72 U	0.72 U	0.72 U	10.5 U	10.5 U	10.5 U	11.5 U	10.8 U	72.1 U	11.2 U	4.1 U	1.4 U	1.8 U	2.2 U	1.8 U
Dodecane, n-	**1.6 J**	3.5 U	**1.6**	**1.2 J**	**31 J**	**0.49 J**	**1.7**	NA	NA	NA	NA	NA	NA	NA	3.2 U	**14**	**2.3 J**	**1.7 J**	**0.56 J**
Ethanol	**20**	**16**	2.3 U	**15**	**1.8 J**	**0.53 J**	1.9 U	**94.2**	5.5 U	**188.4 J**	**50.9**	**32**	**124.4**	**92.3**	**25**	**5.6**	**27**	**16**	1.9 U
Ethylthiophene, 2-	2.3 U	2.3 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	NA	NA	NA	NA	NA	NA	NA	2.1 U	1.8 U	2.2 U	2.8 U	0.92 U
Ethyltoluene, p-	2.4 U	2.5 U	0.98 U	0.98 U	**0.39 J**	0.98 U	0.98 U	**7.9**	**8.8**	**6.9**	**21.6**	**5.9**	24.6 U	**29**	2.2 U	1.9 U	2.4 U	3.0 U	0.98 U
Heptane, n-	2 U	2.0 U	0.82 U	0.82 U	**1.3 J**	0.82 U	0.82 U	**122.9**	**3.3**	3 U	**8.2**	**6.1**	20.5 U	**11.9**	**2.5**	1.6 U	2 U	2.5 U	0.82 U
Hexachlorobutadiene	5.2 U	5.3 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	30.9 U	30.9 U	30.9 U	34.1 U	32 U	213.3 U	33.1 UJ	4.9 UJ	4.2 U	5.2 U	6.4 U	2.1 U
Hexane, n-	**0.83 J**	**5.3**	**0.18 J**	0.70 U	**0.92**	0.70 U	0.70 U	**5.6**	**3.5**	2.6 U	**8.1**	**6**	17.6 U	**11.3**	**8.9**	**3.3**	1.7 U	**6.1**	0.70 U
Hexanone, 2-	**0.54 J**	2.0 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	11.9 U	11.9 U	11.9 U	13.1 U	12.3 U	81.9 U	12.7 U	4.7 U	1.6 U	**0.86 J**	2.5 U	0.82 U
Indan	2.4 U	2.4 U	0.97 U	0.97 U	**0.63 J**	0.97 U	0.97 U	ND	ND	NA	NA	NA	NA	15 U	2.2 U	1.9 U	2.4 U	2.9 U	0.97 U
Indene	2.3 U	2.4 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	ND	ND	NA	NA	NA	NA	14.7 U	2.2 U	1.9 U	2.3 U	2.8 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	3.5 U	3.6 U	3.6 U	3.9 U	3.7 U	24.6 U	3.8 U	NA	NA	NA	NA	NA
Methyl tert-butyl ether	1.8 U	1.8 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	**3.1**	2.6 U	2.6 U	**10.1**	2.7 U	18 U	2.8 U	1.6 U	1.4 U	1.8 U	2.2 U	0.72 U
Methyl-2-pentanone, 4-	2 U	2.0 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**4.9**	3 U	3 U	3.2 U	3.1 U	20.5 U	3.2 U	1.9 U	1.6 U	2 U	2.5 U	0.82 U
Methylene chloride	1.7 U	**11**	0.69 U	1.7 U	1.7 U	1.3 U	0.69 U	2.5 UJ	2.5 U	2.5 U	2.7 U	2.6 U	17.4 U	2.7 U	3.7 U	**30**	1.7 U	**14**	0.80 U
Methylnaphthalene, 1-	2.9 U	2.9 U	14 UJ	1.2 U	2.9 UJ	1.2 UJ	1.2 UJ	NA	NA	NA	NA	NA	NA	NA	33 U	29 U	2.8 U	3.5 U	14 UJ
Methylnaphthalene, 2-	36 UJ	2.9 U	14 U	1.2 U	2.9 UJ	1.2 U	1.2 U	NA	NA	NA	NA	NA	NA	NA	33 U	11 U	36 UJ	3.5 U	14 U
Methylthiophene, 2-	2 U	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	1.8 U	1.6 U	2 U	2.4 U	0.80 U
Methylthiophene, 3-	2 U	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	1.8 U	1.6 U	2 U	2.4 U	0.80 U
Naphthalene	2.6 U	2.6 U	1.0 U	1.0 UJ	**1.0 J**	1.0 U	1.0 U	15.2 U	15.2 U	15.2 UJ	16.8 U	15.7 U	104.8 UJ	16.3 U	6.0 U	**1.6 J**	**0.84 J**	3.1 U	1.0 U
Nonane	2.6 U	2.6 U	1.0 U	1.0 U	**1.2**	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	**1.7 J**	2.1 U	**0.66 J**	3.1 U	1.0 U

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG01	OU2SG01	OU2SG01	OU2SG01	OU2SG01	OU2SG01	Duplicate of OU2SG01	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG02
Sample Date:	7/25/2007	9/19/2007	12/18/2007	3/26/2008	6/24/2008	9/24/2008	9/24/2008	7/21/2004	10/13/2004	5/5/2005	8/30/2005	2/1/2006	6/14/2006	9/7/2006	2/22/2007	5/24/2007	7/25/2007	9/19/2007	12/18/2007
Other VOCs Continued (ug/m3																			
Octane, n-	2.3 U	2.3 U	0.93 U	0.93 U	**220**	0.93 U	0.93 U	NA	NA	NA	NA	NA	NA	NA	**1.9 J**	1.8 U	2.3 U	2.8 U	0.93 U
Pentane	**2.3**	**0.44 J**	**0.86**	0.59 UJ	**1.7**	0.59 U	0.59 U	NA	NA	NA	NA	NA	NA	NA	**2.2**	1.2 U	**0.78 J**	1.8 U	0.59 U
Propanol, 2-	**5.1**	**0.74 J**	0.49 U	1.2 U	1.2 UJ	0.49 U	0.49 U	7.1 U	7.1 U	**15.7**	**10.6**	7.4 U	**78.7**	**9.1**	**1.5**	**1.7 J**	**6.6**	1.5 U	0.49 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	3.5 U	3.6 U	3.6 U	**4.5**	3.7 U	24.6 U	**6.9**	NA	NA	NA	NA	NA
Styrene	2.1 U	2.1 U	0.85 U	0.85 U	**0.47 J**	0.85 U	0.85 U	3.1 U	3.1 U	3.1 U	**4.3**	3.2 U	21.3 U	**3.9**	2.0 U	1.7 U	2.1 U	2.6 U	0.85 U
t-Butyl alcohol	**0.97 J**	1.5 U	0.61 U	0.61 U	**0.27 J**	0.61 U	0.61 U	NA	NA	NA	NA	NA	NA	NA	1.4 U	1.2 U	**1.2 J**	**0.55 J**	0.61 U
Tetrachloroethane, 1,1,2,2-	3.4 U	3.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	4.9 U	5 U	5 U	5.4 U	5.2 U	34.3 U	5.4 U	3.1 U	2.7 U	3.4 U	4.1 U	1.4 U
Tetrachloroethene	**0.88 J**	**0.85 J**	1.4 U	**0.44 J**	**4.5**	**5.2**	**0.61 J**	**6.1**	**22.4**	5 U	**8.8**	**8.1**	**50.2**	**19**	**3.4**	**5.3**	**1.1 J**	**1.2 J**	1.4 U
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	2.1 U	2.2 U	2.2 U	**2.5**	2.2 U	14.7 U	2.3 U	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	14 U	2.7 U	1.1 U	1.1 U	**3.2 J**	1.1 U	1.1 U	NA	NA	NA	NA	NA	NA	NA	2.5 U	**5.4 J**	**1.9 J**	**3.3**	**0.38 J**
Thiophene	1.7 U	1.7 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	NA	NA	NA	NA	NA	NA	NA	1.6 U	1.4 U	1.7 U	2.1 U	0.69 U
Trans-1,2-dichloroethene	2 U	2.0 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.9 U	2.9 U	2.9 U	3.1 U	3 U	19.8 U	3.1 U	1.8 U	1.6 U	1.9 U	2.4 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	3.8 U	3.8 U	**0.61 J**	**0.39 J**	**0.54 J**	**0.54 J**	**0.46 J**	5.5 U	5.6 U	5.6 U	6.1 U	5.8 U	38.3 U	6 U	3.5 U	3 U	3.7 U	4.6 U	**0.46 J**
Trichlorobenzene, 1,2,4-	3.6 U	3.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	21.5 U	21.5 U	21.5 U	23.7 U	22.3 U	148.4 U	23 UJ	3.4 UJ	2.9 U	3.6 U	4.4 U	1.5 U
Trichloroethane, 1,1,1-	2.7 U	2.7 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	3.9 U	4 U	4 U	4.3 U	4.1 U	27.3 U	4.3 U	2.5 U	2.2 UJ	2.7 U	3.3 U	1.1 U
Trichloroethane, 1,1,2-	2.7 U	2.7 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	3.9 U	4 U	4 U	4.3 U	4.1 U	27.3 U	4.3 U	2.5 U	2.2 U	**39**	3.3 U	1.1 U
Trichloroethene	2.6 U	2.7 U	1.1 U	1.1 U	1.1 U	**21 J**	1.1 UJ	3.9 U	3.9 U	3.9 U	**8.6**	4.1 U	26.9 U	4.2 U	2.5 U	2.1 U	2.6 U	3.2 U	1.1 U
Trichlorofluoromethane	**1.3 J**	**1.4 J**	**1.4**	**0.95 J**	**1.4**	**1.4**	**1.4**	4 U	4.1 U	4.1 U	4.4 U	4.3 U	28.1 U	4.4 U	**1.2 J**	**1.7 J**	**1.2 J**	**1.2 J**	**1.2**
Trimethylbenzene, 1,2,3-	2.4 U	2.5 U	0.98 U	0.98 U	**2.9**	0.98 U	0.98 U	NA	NA	NA	NA	NA	NA	NA	2.2 U	**2**	2.4 U	3.0 U	0.98 U
Trimethylbenzene, 1,2,4-	2.4 U	2.5 U	0.98 U	0.98 U	**0.74 J**	0.98 U	0.98 U	**4.9**	**9.3**	**6.4**	**18.2**	**4.4**	24.6 U	**32.9 J**	**1.6 J**	**6.6 J**	2.4 U	3.0 U	0.98 U
Trimethylbenzene, 1,3,5-	2.4 U	2.5 U	0.98 U	0.98 U	**1.5**	0.98 U	0.98 U	3.5 U	3.6 U	3.6 U	**6.9**	3.7 U	24.6 U	**8.8**	2.2 U	1.9 U	2.4 U	3.0 U	0.98 U
Trimethylpentane, 2,2,4-	2.3 U	2.3 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	3.4 U	3.4 U	3.4 U	**11.2**	**607.4**	**7008**	**934.4**	**2.1 J**	1.8 U	2.3 U	2.8 U	0.93 U
Undecane, n-	3.1 U	3.2 U	**0.64 J**	**0.46 J**	**12**	1.3 U	**0.83 J**	NA	NA	NA	NA	NA	NA	NA	2.9 U	2.5 U	**4.2**	3.8 U	1.3 U
Vinyl bromide	2.2 U	2.2 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	NA	NA	NA	NA	NA	NA	NA	2.0 U	1.7 U	2.1 U	2.6 U	0.87 U
Vinyl chloride	1.3 U	1.3 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	1.8 U	1.9 U	1.9 U	2 U	1.9 U	12.8 U	2 U	1.2 U	1 U	1.2 U	1.5 U	0.51 U
Other (%)																			
Helium	NA	NA	NA	NA	NA	**0.297**	**0.284**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03
Sample Date:	3/26/2008	6/24/2008	9/22/2008	9/24/2008	7/21/2004	10/13/2004	5/5/2005	8/30/2005	2/1/2006	6/14/2006	9/7/2006	2/22/2007	5/24/2007	9/18/2007	12/18/2007	3/26/2008	6/24/2008	9/22/2008	9/24/2008
BTEX (ug/m3)																			
Benzene	0.64 U	**0.19 J**	0.64 U	0.64 U	**5.4**	**2.6**	**6.4**	**7**	**10.2**	21.1 U	**17.9**	1.4 U	**1.3**	**1.7**	0.64 U	0.64 U	**0.22 J**	0.64 U	0.64 U
Ethylbenzene	0.87 U	**0.43 J**	**0.22 J**	0.87 U	**10**	**5.2**	**6.9**	**23.4**	**18.7**	28.7 U	**37.3**	**0.74 J**	**5**	**5.6**	**0.69 J**	**1.8**	**2.0**	**0.43 J**	**0.65 J**
Toluene	0.75 U	**0.83**	**4.2**	**0.26 J**	**33.9**	**27.1**	**45.2**	**94.2**	**52.8**	**56.5**	**135.7**	**2.6**	**640**	**810**	**40**	**130**	**140**	**1.7**	**51**
Xylene, m,p-	**0.23 J**	**1.4 J**	**0.74 J**	1.7 U	**36**	**24.8**	**15.6**	**95.5**	**47.8**	**37.3**	**121.6**	**2.9 J**	**15**	**17**	**2.9**	**7.3**	**6.4**	**1.1 J**	**2.8**
Xylene, o-	0.87 U	**0.65 J**	**0.30 J**	0.87 U	**13.5**	**7.4**	**6.1**	**33**	**12.6**	28.7 U	**35.2**	**1.0 J**	**4.6**	**5.3**	**1.3**	**3.0**	**4.8**	**0.48 J**	**3.5**
Other VOCs (ug/m3)																			
Acetaldehyde	**3.7 J**	**57**	**5.8 J**	1.8 UJ	NA	**19.8**	NA	NA	NA	NA	NA	0.76 UJ	**72 J**	**55**	4.5 U	**9.0**	**15**	**12 J**	1.8 UJ
Acetone	2.6 U	**23**	**3.0**	**2.2**	**90.3**	**128.3**	**855.2 EJ**	**522.6**	**87.9**	**1092.7**	**475.1**	**8.6**	**62 J**	**7.0**	1.0 U	**6.6 J**	**7.4**	0.47 UJ	**2.3**
Acrolein (propenal)	**0.15 J**	**0.41 J**	0.46 U	0.46 U	NA	NA	NA	NA	NA	NA	NA	0.97 U	**0.81 J**	1.1 U	0.46 U	**0.38 J**	**0.21 J**	0.46 U	0.46 U
Allyl chloride	0.63 U	0.63 UJ	0.63 U	0.63 U	9.4 U	9.4 U	10 U	9.7 U	9.1 U	81.4 U	9.4 U	1.3 U	1.3 U	1.5 U	0.63 U	0.63 U	0.63 UJ	0.63 U	0.63 U
Benzothiophene	1.1 U	1.1 U	1.1 U	1.1 U	NA	NA	NA	NA	NA	NA	NA	12 UJ	5.5 U	32 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	5.1 U	5.1 U	5.3 U	5.2 U	4.9 U	44.2 U	5 U	2.8 U	2.7 U	3.1 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	7.9 U	7.9 U	8.2 U	8.1 U	7.5 U	68.2 U	7.6 U	4.4 U	4.2 U	4.8 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	3 U	3 U	3.1 U	3 U	2.8 U	25.6 U	2.9 U	1.6 U	1.6 U	1.8 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	0.44 U	1.7 U	1.7 U	**5.3**	**2.2**	1.6 U	14.6 U	**7.7**	0.94 U	0.89 U	1.0 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Butane	**0.33 J**	**0.26 J**	0.48 U	0.48 U	NA	NA	NA	NA	NA	NA	NA	**1.3**	**0.57 J**	1.1 U	0.48 U	0.48 U	**0.17 J**	**0.69**	0.48 U
Butanone, 2-	**0.27 J**	**1.3**	**0.59**	0.59 U	**15**	**12.4**	**35.4**	**16.8**	**8.8**	**24.5**	**20.1**	**1.2 J**	**7.6**	1.4 U	0.59 U	**1.5**	**1.2**	**2.0**	0.59 U
Carbon disulfide	1.2 U	**2.2**	**1.0**	**1.1**	**5.9**	**24.9**	**2.5**	**3.7**	**4.7**	**20.9**	**8.1**	**1.2 J**	**4.1 J**	**12**	**0.50 J**	**1.8**	**12**	**8.1**	**10**
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	1.3 U	4.8 U	4.8 U	5 U	4.9 U	4.6 U	41.5 U	4.7 U	2.7 U	2.5 UJ	2.9 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	3.5 U	3.5 U	3.6 U	3.6 U	3.4 U	30.4 U	3.4 U	2.0 U	1.9 U	2.2 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	2 U	2 U	2.1 U	2.1 U	1.9 U	17.4 U	2 U	1.1 U	1.1 U	1.2 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	**1.1**	**0.68 J**	0.98 U	**0.59 J**	3.7 U	3.7 U	3.9 U	3.8 U	3.6 U	32.2 U	3.6 U	**0.62 J**	**2.2**	**0.68 J**	**0.34 J**	**0.89 J**	**1.8**	**4.2**	**1.6**
Chloromethane	0.41 U	0.41 U	0.41 U	0.41 U	6.2 U	6.2 U	6.6 U	6.4 U	6 U	53.7 U	6.2 U	0.87 U	0.83 U	0.97 U	0.41 U	**0.11 J**	0.41 U	**0.21 J**	0.41 U
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	NA	NA	2.2 U	2.1 U	2.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	1.4 U	1.4 U	1.4 U	1.4 U	5.3 U	5.3 U	5.5 U	5.5 U	5.1 U	46.1 U	5.2 U	3.0 U	2.8 U	3.3 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	**2.1**	**0.89**	0.69 U	0.69 U	**134.2**	**10**	2.7 U	**6.5**	2.5 U	22.7 U	2.5 U	1.5 U	**67**	**140**	**1.3**	**17**	**36**	**1.5**	**31**
Decane, n-	1.2 U	**58**	**26**	1.2 U	NA	NA	NA	NA	NA	NA	NA	2.5 U	**11**	**28**	1.2 U	1.2 UJ	**49**	**34**	1.2 U
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	6.5 U	6.5 U	6.7 U	6.6 U	6.2 U	56.2 U	6.3 U	3.6 U	3.4 U	4.0 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	5.8 U	5.8 U	6.1 U	6 U	5.6 U	50.7 U	5.7 U	3.3 U	3.1 U	3.6 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	1.2 U	1.2 U	4.6 U	4.6 U	4.7 U	4.7 U	4.4 U	39.7 U	4.4 U	2.6 U	2.4 U	2.8 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	1.2 U	**4.5**	**0.48 J**	1.2 U	4.6 U	4.6 U	**5.9**	4.7 U	4.4 U	39.7 U	4.4 U	2.6 U	2.4 U	2.8 U	1.2 U	1.2 U	**4.8**	**0.54 J**	1.2 U
Dichlorobenzene, 1,4-	**0.55 J**	**0.72 J**	1.2 U	**0.36 J**	4.6 U	4.6 U	4.7 U	4.7 U	4.4 U	39.7 U	4.4 U	2.6 UJ	**1.9 J**	**1.4 J**	**0.42 J**	**0.99 J**	**0.90 J**	**0.42 J**	**0.84 J**
Dichlorodifluoromethane	**2.2**	**2.5**	**2.3**	**2.9**	3.8 U	**7.4**	3.9 U	3.9 U	**3.7**	32.6 U	3.7 U	**2.7**	**2.7**	**2.5**	**2.6**	**2.4**	**2.5**	**14**	**2.8**
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	3.1 U	3.1 U	3.2 U	3.2 U	3 U	26.7 U	3 U	1.7 U	1.6 U	1.9 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 U	3.1 U	3.1 U	3.2 U	3.2 U	3 U	26.7 U	3 U	1.7 U	1.6 U	1.9 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	0.79 U	3 U	3 U	3.1 U	3.1 U	2.9 U	26.2 U	2.9 U	1.7 U	1.6 U	1.8 U	0.79 U	**0.79**	0.79 U	0.79 U	0.79 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	3 U	3 U	3.1 U	3.1 U	2.9 U	26.2 U	2.9 U	1.7 U	1.6 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	3.5 U	3.5 U	3.7 U	3.6 U	3.4 U	30.5 U	3.4 U	2.0 U	1.9 U	2.2 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	0.91 U	3.4 U	3.4 U	3.6 U	3.5 U	3.3 U	30 U	3.4 U	1.9 U	1.8 U	2.1 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	3.4 U	3.4 U	3.6 U	3.5 U	3.3 U	30 U	3.4 U	1.9 U	1.8 U	2.1 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	0.72 U	10.8 U	10.8 U	11.5 U	11.2 U	10.5 U	93.7 U	10.8 U	3.8 U	1.4 U	1.7 U	1.8 U	0.72 U	0.72 U	0.72 U	0.72 U
Dodecane, n-	**4.8**	**47 J**	**20**	**2.2**	NA	NA	NA	NA	NA	NA	NA	**0.74 J**	**23**	**1.8 J**	**1.0 J**	**2.9**	**37 J**	**13**	**2.8**
Ethanol	**0.78 J**	**0.79 J**	**4.0**	**0.75 J**	**82.9**	**7**	**433.4**	**52.8**	**22.6**	**120.6**	**52.8**	**15**	**5.7**	**19**	2.4 U	**2.5 J**	**0.94 J**	**9.9**	**0.56 J**
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	NA	NA	NA	NA	NA	NA	NA	1.9 U	1.8 U	2.2 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Ethyltoluene, p-	0.98 U	**0.39 J**	0.98 U	0.98 U	**8.8**	**7.9**	3.9 U	**33.4**	**7.4 J**	32.4 U	**49.2**	2.1 U	2 U	2.3 U	0.98 U	**0.27 J**	**0.64 J**	0.98 U	0.98 U
Heptane, n-	0.82 U	**0.78 J**	0.82 U	0.82 U	**65.6**	**3.7**	**4.9**	**11.5**	**5.3**	27 U	**12.7**	1.7 U	**4.1**	**3.3**	0.82 U	**0.32 J**	**0.94 J**	**0.33 J**	0.82 U
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	2.1 U	32 U	32 U	34.1 U	33.1 U	30.9 U	277.3 U	32 UJ	4.5 UJ	4.3 U	5.0 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Hexane, n-	0.70 U	0.70 U	0.70 U	0.70 U	**4.2**	**4.6**	**7.4**	**10.2**	**6.7**	23.3 U	**12.3**	**0.75 J**	**160**	**170**	**0.32 J**	**6.4**	**8.8**	**0.25 J**	0.70 U
Hexanone, 2-	0.82 U	0.82 U	**0.65 J**	0.82 U	12.3 U	12.3 U	13.1 U	12.7 U	11.9 U	106.5 U	12.3 U	4.3 U	1.6 U	1.9 U	0.82 U	**0.35 J**	0.82 U	0.82 U	0.82 U
Indan	0.97 U	**0.58 J**	0.97 U	0.97 U	ND	ND	NA	NA	NA	NA	14.5 U	2.0 U	2 U	2.3 U	0.97 U	**0.24 J**	**0.72 J**	0.97 U	0.97 U
Indene	0.95 U	0.95 U	0.95 U	0.95 U	ND	ND	NA	NA	NA	NA	14.3 U	2.0 U	1.9 U	2.2 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	3.7 U	3.7 U	3.9 U	3.8 U	3.6 U	32.4 U	**3.6 J**	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	0.72 U	0.72 U	2.7 U	2.7 U	2.8 U	**22.7**	2.6 U	23.8 U	2.7 U	1.5 U	1.5 U	1.7 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	0.82 U	**7.4**	3.1 U	3.2 U	3.2 U	3 U	27 U	3 U	1.7 U	**2.5**	1.9 U	0.82 U	0.82 U	0.82 U	0.82 U	**0.74 J**
Methylene chloride	1.7 U	1.7 U	2.2 U	0.69 U	2.6 UJ	2.6 U	2.7 U	2.7 U	2.5 U	22.9 U	2.6 U	**28**	**24**	**12**	0.69 U	1.7 U	1.7 U	**5.5**	0.69 U
Methylnaphthalene, 1-	1.2 U	2.9 UJ	1.2 U	1.2 UJ	NA	NA	NA	NA	NA	NA	NA	31 U	29 U	14 U	14 UJ	1.2 U	2.9 UJ	1.2 U	1.2 UJ
Methylnaphthalene, 2-	1.2 U	2.9 UJ	1.2 U	1.2 U	NA	NA	NA	NA	NA	NA	NA	31 U	12 U	34 U	14 U	1.2 U	2.9 UJ	1.2 U	1.2 U
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	1.7 U	1.6 U	1.9 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	0.80 U	NA	NA	NA	NA	NA	NA	NA	1.7 U	1.6 U	1.9 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	1.0 UJ	**1.2**	1.0 U	1.0 U	**11**	15.7 U	16.8 UJ	16.3 U	15.2 U	136.3 UJ	15.7 U	5.6 U	**1.4 J**	**2.0 J**	**0.37 J**	**1.1 J**	**1.1**	**1.5**	**1.0 J**
Nonane	1.0 U	**0.89 J**	**0.63 J**	1.0 U	NA	NA	NA	NA	NA	NA	NA	**0.78 J**	**3.1**	**1.8 J**	1.0 U	1.0 U	**0.84 J**	**0.58 J**	1.0 U

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG02	OU2SG02	OU2SG02	OU2SG02	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03	OU2SG03
Sample Date:	3/26/2008	6/24/2008	9/22/2008	9/24/2008	7/21/2004	10/13/2004	5/5/2005	8/30/2005	2/1/2006	6/14/2006	9/7/2006	2/22/2007	5/24/2007	9/18/2007	12/18/2007	3/26/2008	6/24/2008	9/22/2008	9/24/2008
Other VOCs Continued (ug/m3																			
Octane, n-	0.93 U	**180**	**17**	0.93 U	NA	NA	NA	NA	NA	NA	NA	2.0 U	**1.1 J**	**1.3 J**	0.93 U	0.93 U	**180**	**91**	0.93 U
Pentane	0.59 UJ	**0.41 J**	0.59 U	0.59 U	NA	NA	NA	NA	NA	NA	NA	1.2 U	1.2 U	1.4 U	0.59 U	0.59 UJ	**0.50 J**	0.59 U	0.59 U
Propanol, 2-	1.2 U	1.2 UJ	0.49 U	0.49 U	**7.4**	7.4 U	**36.9**	**9.3**	7.1 U	**172.1**	7.4 U	**1.0**	**5.7**	**1.1 J**	0.49 U	1.2 U	1.3 UJ	**5.5 J**	0.49 U
Propylbenzene, n-	NA	NA	NA	NA	3.7 U	3.7 U	3.9 U	**6.9**	3.6 U	32.4 U	**12.3**	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	**0.38 J**	0.85 U	0.85 U	3.2 U	3.2 U	3.4 U	**3.7**	3.1 U	28.1 U	**3.3**	1.8 U	1.7 U	**0.60 J**	0.85 U	**0.36 J**	**0.72 J**	**0.26 J**	**0.26 J**
t-Butyl alcohol	0.61 U	**0.73**	0.61 U	0.61 U	NA	NA	NA	NA	NA	NA	NA	1.3 U	1.2 U	**0.50 J**	0.61 U	**0.33 J**	**0.76**	0.61 U	0.61 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	1.4 U	5.2 U	5.2 U	5.4 U	5.4 U	5 U	45.3 U	5.1 U	2.9 U	2.8 U	3.2 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	1.4 U	**1.1 J**	**5.5**	**0.47 J**	**8.1**	**21.7**	5.4 U	**10.2**	**7.5**	44.8 U	**23.7**	2.9 U	2.7 U	**0.79 J**	1.4 U	1.4 U	**1.3 J**	**28**	**1.1 J**
Tetrahydrofuran	NA	NA	NA	NA	2.2 U	2.2 U	2.3 U	2.3 U	2.2 U	19.5 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	**1.3**	**2.8 J**	**0.66 J**	1.1 U	NA	NA	NA	NA	NA	NA	NA	2.3 U	**3 J**	**4.0 J**	**1.3**	**3.4**	1.1 U	**0.49 J**	**4.8**
Thiophene	0.69 U	0.69 U	0.69 U	0.69 U	NA	NA	NA	NA	NA	NA	NA	1.5 U	1.4 U	1.6 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	3 U	3 U	3.1 U	3.1 U	2.9 U	26.2 U	2.9 U	1.7 U	1.6 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	**0.95 J**	**0.54 J**	1.5 U	**0.77 J**	5.8 U	5.8 U	6.1 U	6 U	5.6 U	50.6 U	5.7 U	3.2 U	3.1 U	3.6 U	**0.38 J**	**0.56 J**	**0.77 J**	1.5 U	**0.54 J**
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	1.5 U	22.3 U	22.3 U	23.7 U	23 U	21.5 U	193 U	22.3 UJ	3.1 UJ	3 U	3.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	**5.2**	1.1 U	4.1 U	4.1 U	4.3 U	4.3 U	4 U	36 U	4 U	2.3 U	2.2 UJ	2.6 U	1.1 U	1.1 U	1.1 U	**1.8**	1.1 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	4.1 U	4.1 U	4.3 U	4.3 U	4 U	36 U	4 U	2.3 U	2.2 U	2.6 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	1.1 U	1.1 U	**0.38 J**	1.1 U	4.1 U	4.1 U	4.2 U	4.2 U	3.9 U	35.5 U	4 U	2.3 U	2.2 U	2.5 U	1.1 U	**2.3**	1.1 U	**0.54 J**	**0.54 J**
Trichlorofluoromethane	**1.2**	**1.5**	**4.3**	**1.4**	**11.2**	**7.3**	4.4 U	4.4 U	4.1 U	37.1 U	**6.7**	**1.9 J**	**6.6**	**7.4**	**3.5**	**2.7**	**12**	**4.7**	**9.3**
Trimethylbenzene, 1,2,3-	0.98 U	**2.7**	**0.29 J**	0.98 U	NA	NA	NA	NA	NA	NA	NA	**0.73 J**	**1.2 J**	**1.4 J**	0.98 U	**1.2**	**3.4**	**0.44 J**	**0.79 J**
Trimethylbenzene, 1,2,4-	0.98 U	**0.69 J**	**0.59 J**	0.98 U	**9.8**	**6.9**	3.9 U	**32.4**	**5.4**	32.4 U	**59 J**	**1.5 J**	**4.5 J**	**2.2 J**	**0.44 J**	**0.37 J**	**0.74 J**	**0.79 J**	**0.49 J**
Trimethylbenzene, 1,3,5-	0.98 U	**1.4**	0.98 U	0.98 U	3.7 U	3.7 U	3.9 U	**12.3**	3.6 U	32.4 U	**15.7**	2.1 U	**1.2 J**	**0.80 J**	0.98 U	**0.65 J**	**1.9**	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	0.93 U	0.93 U	3.6 U	**4.7**	3.7 U	**15.9**	**560.6**	**7475.2**	**1121.3**	2.0 U	1.9 U	2.2 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Undecane, n-	**1.2 J**	**12**	1.3 UJ	1.3 U	NA	NA	NA	NA	NA	NA	NA	**1.1 J**	**6.3**	3.0 U	1.3 U	**2.0**	1.3 U	**33**	1.3 U
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	NA	NA	NA	NA	NA	NA	NA	1.8 U	1.8 U	2.0 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	1.9 U	1.9 U	2 U	2 U	1.9 U	16.9 U	1.9 U	1.1 U	1 U	1.2 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)																			
Helium	NA	NA	0.0255 U	**0.301**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.014 U	**0.025**

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name: / Sample Date:	OU2SG04 5/5/2005	OU2SG04 8/30/2005	OU2SG04 2/1/2006	OU2SG04 6/14/2006	OU2SG04 9/7/2006	OU2SG04 2/22/2007	OU2SG04 5/24/2007	OU2SG04 9/18/2007	OU2SG04 12/18/2007	OU2SG04 3/26/2008	OU2SG04 6/23/2008	OU2SG04 9/24/2008	OU2SG05 5/25/2005	OU2SG05 8/31/2005	OU2SG05 2/2/2006	OU2SG05 6/15/2006	OU2SG05 9/8/2006	OU2SG05 2/22/2007	OU2SG05 6/14/2007
BTEX (ug/m3)																			
Benzene	**3.8**	2.5 U	**7.7**	15.7 U	**11.8**	1.3 U	**2**	**2.7**	**0.22 J**	**0.23 J**	**0.26 J**	0.64 U	**5.4**	**10.2**	**5.4**	11.5 U	**11.8**	**2.7**	1.3 U
Ethylbenzene	**7.8**	3.4 U	**14.3**	21.3 U	**27.8**	**0.97 J**	**10**	**9.4**	**0.43 J**	**0.92**	**1.6**	0.87 U	3.3 U	**11.3**	**6.9**	15.6 U	**21.3**	**2.6**	1.7 U
Toluene	**30.9**	2.9 U	**56.5**	**49**	**105.5**	**2.6**	**720**	**760**	**31**	**74**	**130**	**0.79**	**16.2**	**45.2**	**30.9**	**35.4**	**113.1**	**42**	**44**
Xylene, m,p-	**29.1**	**3.5**	**36.9**	**24.8**	**91.2**	**3.0 J**	**31**	**28**	**1.3 J**	**2.9**	**4.0**	1.7 U	**10**	**47.8**	**14.8**	**27.8**	**69.5**	**7.1**	**1.4 J**
Xylene, o-	**10.4**	3.4 U	**9.1**	21.3 U	**26.1**	**1.1 J**	**9.9**	**8.4**	**0.52 J**	**1.8**	**1.7**	0.87 U	3.3 U	**16.5**	**4.8**	15.6 U	**18.7**	**2.5**	1.7 U
Other VOCs (ug/m3)																			
Acetaldehyde	NA	NA	NA	NA	NA	**0.40 J**	**140 J**	**40**	9.3 U	**4.1 J**	**19**	1.8 UJ	NA	NA	NA	NA	NA	**2.8 J**	**96**
Acetone	**356.3**	**19.7**	**76**	**546.4**	**228**	**8.3**	**40 J**	**7.9**	7.6 U	2.5 U	**6.2**	**1.7**	**180.5**	**178.2**	**33.3**	**261.3**	**156.8**	**22**	**8.1**
Acrolein (propenal)	NA	NA	NA	NA	NA	0.93 U	2.3 U	0.99 U	0.46 U	1.2 U	**0.53**	0.46 U	NA	NA	NA	NA	NA	1.0 U	0.91 UJ
Allyl chloride	9.4 U	9.7 U	9.4 U	59.5 U	8.8 U	1.3 U	1.3 U	1.4 U	0.63 U	0.63 U	0.63 UJ	0.63 U	9.4 U	10 U	8.8 U	43.8 U	10.3 U	1.4 U	1.2 U
Benzothiophene	NA	NA	NA	NA	NA	11 UJ	5.5 U	30 U	1.1 U	1.1 U	1.1 U	1.1 U	NA	NA	NA	NA	NA	12 UJ	**2.2 J**
Bromodichloromethane	5 U	5.2 U	5 U	32.8 U	4.7 U	2.7 U	2.7 U	2.9 U	1.3 U	1.3 U	1.3 U	1.3 U	5.1 U	5.4 U	4.7 U	24.1 U	5.5 U	3.0 U	2.7 U
Bromoform	7.6 U	8.1 U	7.6 U	50.6 U	7.2 U	4.2 U	4.2 U	4.5 U	2.1 U	2.1 U	2.1 U	2.1 U	7.9 U	8.3 U	7.2 U	37.2 U	8.5 U	4.6 U	4.1 U
Bromomethane	2.9 U	3 U	2.9 U	19 U	2.7 U	1.6 U	1.6 U	1.7 U	0.78 U	0.78 U	0.78 U	0.78 U	3 U	3.1 U	2.7 U	14 U	3.2 U	1.7 U	1.5 U
Butadiene, 1,3-	**2.2**	1.7 U	1.6 U	10.8 U	**7.5**	0.90 U	0.89 U	0.95 U	0.44 U	0.44 U	0.44 U	0.44 U	1.7 U	**6**	**4**	8 U	**3.1**	0.98 U	0.88 U
Butane	NA	NA	NA	NA	NA	**2.2**	0.95 U	1.0 U	0.48 U	**0.71**	**0.59**	**0.93**	NA	NA	NA	NA	NA	**16**	**0.52 J**
Butanone, 2-	**25.4**	2.3 U	**8.8**	**17.1**	**17.1**	**1.2 J**	**4.7**	1.3 U	**1.9**	1.5 U	**1.5**	0.59 U	**28**	**19.2**	**4.7 J**	**12.1**	**20.6**	**3.1 J**	**2.7 J**
Carbon disulfide	**17.1**	**8.4**	2.3 U	15.3 U	**14.9**	**1.7**	**2.5 J**	**5.4**	**0.75**	**1.4**	**4.2**	**2.1**	2.4 U	**9.7**	**3.7**	11.2 U	**4.7**	**11**	**6.7 J**
Carbon tetrachloride	4.7 U	4.9 U	4.7 U	30.8 U	4.4 U	2.6 U	2.5 UJ	2.7 U	1.3 U	1.3 U	1.3 U	1.3 U	4.8 U	5 U	4.4 U	22.6 U	5.2 U	2.8 U	2.5 U
Chlorobenzene	3.4 U	3.6 U	3.4 U	22.6 U	3.2 U	1.9 U	1.8 U	2.0 U	0.92 U	0.92 U	0.92 U	0.92 U	3.5 U	3.7 U	3.2 U	16.6 U	3.8 U	2.0 U	1.8 U
Chloroethane	2 U	2.1 U	2 U	12.9 U	1.8 U	1.1 U	1.1 U	1.1 U	0.53 U	0.53 U	0.53 U	0.53 U	2 U	2.1 U	1.8 U	9.5 U	2.2 U	1.2 U	1 U
Chloroform	3.6 U	3.8 U	3.6 U	23.9 U	3.4 U	2.0 U	2 U	**1.3 J**	**0.34 J**	**0.43 J**	**1.0**	**1.5**	3.7 U	**8.8**	3.4 U	17.6 U	**6.8**	**2.7**	**10**
Chloromethane	6.2 U	6.4 U	6.2 U	39.2 U	5.8 U	0.84 U	0.83 U	0.89 U	0.41 U	0.41 U	0.41 U	0.41 U	6.2 U	6.6 U	5.8 U	28.9 U	6.8 U	**1.5 J**	**0.46 J**
Chlorotoluene, 2-	NA	NA	NA	NA	NA	2.1 U	2.1 U	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	2.3 U	2.1 U
Cryofluorane	5.2 U	5.5 U	5.2 U	34.3 U	4.9 U	2.8 U	2.8 U	3.0 U	1.4 U	1.4 U	1.4 U	1.4 U	5.3 U	5.6 U	4.9 U	25.2 U	5.7 U	3.1 U	2.8 U
Cyclohexane	2.5 U	2.7 U	2.5 U	16.9 U	2.4 U	1.4 U	**66**	**160**	**11**	**72**	**78**	**2.8**	**213.4**	2.8 U	2.4 U	12.4 U	2.8 U	**15**	**11**
Decane, n-	NA	NA	NA	NA	NA	2.4 U	**7.8**	2.5 U	1.2 U	1.2 UJ	**62**	1.2 U	NA	NA	NA	NA	NA	**0.90 J**	**1.6 J**
Dibromochloromethane	6.3 U	6.6 U	6.3 U	41.7 U	6 U	3.5 U	3.4 U	3.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.5 U	6.8 U	6 U	30.7 U	7 U	3.8 U	3.4 U
Dibromoethane, 1,2-	5.7 U	6 U	5.7 U	37.6 U	5.4 U	3.1 U	3.1 U	3.3 U	1.5 U	1.5 U	1.5 U	1.5 U	5.8 U	6.1 U	5.4 U	27.7 U	6.3 U	3.4 U	3.1 U
Dichlorobenzene, 1,2-	4.4 U	4.7 U	4.4 U	29.5 U	4.2 U	2.4 U	2.4 U	2.6 U	1.2 U	1.2 U	1.2 U	1.2 U	4.6 U	4.8 U	4.2 U	21.6 U	4.9 U	2.7 U	2.4 U
Dichlorobenzene, 1,3-	4.4 U	4.7 U	4.4 U	29.5 U	4.2 U	2.4 U	2.4 U	2.6 U	1.2 U	1.2 U	**5.6**	1.2 U	4.6 U	4.8 U	4.2 U	21.6 U	4.9 U	2.7 U	2.4 U
Dichlorobenzene, 1,4-	4.4 U	4.7 U	4.4 U	29.5 U	4.2 U	2.4 UJ	**1.4 J**	**0.91 J**	1.2 U	**0.53 J**	**0.60 J**	1.2 U	4.6 U	4.8 U	4.2 U	21.6 U	4.9 U	2.7 UJ	**1.3 J**
Dichlorodifluoromethane	3.7 U	3.9 U	**3.8**	24.2 U	3.5 U	**2.7**	**2.7**	**2.7**	**2.6**	**1.9**	**2.1**	**2.7**	3.8 U	4 U	3.5 U	17.8 U	4.1 U	**2.6**	**2.5**
Dichloroethane, 1,1-	3 U	3.2 U	3 U	19.8 U	2.8 U	1.6 U	1.6 U	1.8 U	0.81 U	0.81 U	0.81 U	0.81 U	3.1 U	3.2 U	2.8 U	14.6 U	3.3 U	1.8 U	1.6 U
Dichloroethane, 1,2-	3 U	3.2 U	3 U	19.8 U	2.8 U	1.6 U	**1.2 J**	1.8 U	0.81 U	0.81 U	0.81 U	0.81 U	3.1 U	3.2 U	2.8 U	14.6 U	3.3 U	1.8 U	1.6 U
Dichloroethene, cis-1,2-	2.9 U	3.1 U	2.9 U	19.4 U	2.8 U	1.6 U	1.6 U	1.7 U	0.79 U	0.79 U	0.79 U	0.79 U	3 U	3.2 U	2.8 U	14.3 U	3.3 U	1.8 U	1.6 U
Dichloroethene, 1,1-	2.9 U	3.1 U	2.9 U	19.4 U	2.8 U	1.6 U	1.6 U	1.7 U	0.79 U	0.79 U	0.79 U	0.79 U	3 U	3.2 U	2.8 U	14.3 U	3.3 U	1.8 U	1.6 U
Dichloropropane, 1,2-	3.4 U	3.6 U	3.4 U	22.6 U	3.2 U	1.9 U	1.9 U	2.0 U	0.92 U	0.92 U	0.92 U	0.92 U	3.5 U	3.7 U	3.2 U	16.6 U	3.8 U	2.0 U	1.8 U
Dichloropropene, cis-1,3	3.4 U	3.5 U	3.4 U	22.2 U	3.2 U	1.8 U	1.8 U	2.0 U	0.91 U	0.91 U	0.91 U	0.91 U	3.4 U	3.6 U	3.2 U	16.3 U	3.7 U	2.0 U	1.8 U
Dichloropropene, trans-1,3	3.4 U	3.5 U	3.4 U	22.2 U	3.2 U	1.8 U	1.8 U	2.0 U	0.91 U	0.91 U	0.91 U	0.91 U	3.4 U	3.6 U	3.2 U	16.3 U	3.7 U	2.0 U	1.8 U
Dioxane, 1,4-	10.8 U	11.2 U	10.8 U	68.5 U	10.1 U	3.6 U	1.4 U	1.6 U	1.8 U	0.72 U	0.72 U	0.72 U	10.8 U	11.5 U	10.1 U	50.4 U	11.9 U	4.0 U	3.6 U
Dodecane, n-	NA	NA	NA	NA	NA	2.8 U	**13**	**1.6 J**	**0.77 J**	**1.4 J**	**37 J**	**0.35 J**	NA	NA	NA	NA	NA	3.1 U	**8.6 J**
Ethanol	**105.5**	5.8 U	**26.4**	**114.9**	**41.5**	**20**	**290**	**140**	8.7 U	**1.4 J**	**1.3 J**	1.9 U	**49**	**30.1**	**35.8**	**69.7**	**58.4**	**56**	**4.6**
Ethylthiophene, 2-	NA	NA	NA	NA	NA	1.9 U	1.8 U	2.0 U	0.92 U	0.92 U	0.92 U	0.92 U	NA	NA	NA	NA	NA	2.0 U	1.8 U
Ethyltoluene, p-	**11.3**	3.8 U	**4.9 J**	24.1 U	**35.4**	2.0 U	**1.8 J**	**1.2 J**	0.98 U	**0.52 J**	**0.69 J**	0.98 U	3.7 U	**16.7**	3.4 U	17.7 U	**20.2**	**0.55 J**	2 U
Heptane, n-	**3.4**	**3.4**	**7.4**	20.1 U	**9.8**	1.7 U	**6.2**	**6.5**	**0.49 J**	**1.6**	**2.4 J**	0.82 U	**225.4**	**16.4**	**3.5**	14.8 U	**10.2**	**2.6**	1.6 U
Hexachlorobutadiene	32 U	33.1 U	32 U	202.6 U	29.9 UJ	4.3 UJ	4.3 U	4.6 U	2.1 U	2.1 U	2.1 U	2.1 U	32 U	34.1 U	29.9 U	149.3 U	35.2 UJ	4.7 UJ	**4.1 J**
Hexane, n-	**3.9**	2.7 U	**7.4**	17.3 U	**10.6**	**1.8**	**260**	**420**	**8.5**	**40**	**56**	0.70 U	**4.2 J**	**15.2**	**6.3**	12.7 U	**10.6**	**62**	**3.8**
Hexanone, 2-	12.3 U	12.7 U	12.3 U	77.8 U	11.5 U	4.2 U	1.6 U	1.8 U	**0.33 J**	0.82 U	0.82 U	0.82 U	12.3 U	13.1 U	11.5 U	57.4 U	13.5 U	4.5 U	1.6 U
Indan	NA	NA	NA	NA	13.5 U	2.0 U	**0.99 J**	**0.73 J**	0.97 U	0.97 U	0.97 U	0.97 U	NA	NA	NA	NA	16 U	**0.54 J**	1.9 U
Indene	NA	NA	NA	NA	13.3 U	1.9 U	1.9 U	2.0 U	0.95 U	0.95 U	0.95 U	0.95 U	NA	NA	NA	NA	15.7 U	2.1 U	1.9 U
Isopropyl benzene	3.6 U	3.8 U	3.6 U	24.1 U	3.4 U	NA	NA	NA	NA	NA	NA	NA	3.7 U	3.9 U	3.4 U	17.7 U	4 U	NA	NA
Methyl tert-butyl ether	2.7 U	2.8 U	2.7 U	17.7 U	2.5 U	1.5 U	1.4 U	1.6 U	0.72 U	0.72 U	0.72 U	0.72 U	**3**	**4.3**	2.5 U	13 U	3 U	1.6 U	1.4 U
Methyl-2-pentanone, 4-	3 U	3.2 U	3 U	20.1 U	2.9 U	1.7 U	**2.9**	1.8 U	0.82 U	0.82 U	0.82 U	0.82 U	3.1 U	3.3 U	2.9 U	14.7 U	3.4 U	1.8 U	1.6 U
Methylene chloride	2.6 U	2.7 U	2.6 U	17 U	2.4 U	**23**	**20**	**10**	0.69 U	1.7 U	1.7 U	0.76 U	2.6 U	2.8 U	2.4 U	12.5 U	2.8 U	**27 J**	**7**
Methylnaphthalene, 1-	NA	NA	NA	NA	NA	30 U	29 U	13 U	14 UJ	1.2 U	2.9 UJ	1.2 UJ	NA	NA	NA	NA	NA	32 U	**3 J**
Methylnaphthalene, 2-	NA	NA	NA	NA	NA	30 U	12 U	31 U	14 U	1.2 U	2.9 UJ	1.2 U	NA	NA	NA	NA	NA	32 U	**3.2 J**
Methylthiophene, 2-	NA	NA	NA	NA	NA	1.6 U	1.6 U	1.7 U	0.80 U	0.80 U	0.80 U	0.80 U	NA	NA	NA	NA	NA	1.8 U	1.6 U
Methylthiophene, 3-	NA	NA	NA	NA	NA	1.6 U	1.6 U	1.7 U	0.80 U	0.80 U	0.80 U	0.80 U	NA	NA	NA	NA	NA	1.8 U	1.6 U
Naphthalene	15.7 UJ	16.3 U	15.7 U	99.6 UJ	14.7 U	5.3 U	2.1 U	**1.1 J**	1.0 U	1.0 UJ	**1.1**	1.0 U	15.7 U	16.8 U	14.7 U	73.4 UJ	17.3 U	5.8 U	**2.7**
Nonane	NA	NA	NA	NA	NA	**0.53 J**	**3.1**	**2.5**	1.0 U	**0.40 J**	**1.2**	1.0 U	NA	NA	NA	NA	NA	**1.3 J**	2.1 U

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG04	OU2SG04	OU2SG04	OU2SG04	OU2SG04	OU2SG04	OU2SG04	OU2SG04	OU2SG04	OU2SG04	OU2SG04	OU2SG04	OU2SG05	OU2SG05	OU2SG05	OU2SG05	OU2SG05	OU2SG05	OU2SG05
Sample Date:	5/5/2005	8/30/2005	2/1/2006	6/14/2006	9/7/2006	2/22/2007	5/24/2007	9/18/2007	12/18/2007	3/26/2008	6/23/2008	9/24/2008	5/25/2005	8/31/2005	2/2/2006	6/15/2006	9/8/2006	2/22/2007	6/14/2007
Other VOCs Continued (ug/m3																			
Octane, n-	NA	NA	NA	NA	NA	1.9 U	**1.6 J**	**1.5 J**	0.93 U	**0.34 J**	**230**	0.93 U	NA	NA	NA	NA	NA	**1.2 J**	1.9 U
Pentane	NA	NA	NA	NA	NA	**1.1 J**	1.2 U	**0.64 J**	0.59 U	0.59 UJ	**0.97**	0.59 U	NA	NA	NA	NA	NA	**9.4**	1.2 U
Propanol, 2-	**16.2**	7.6 U	7.4 U	46.7 U	6.9 U	**1.0 J**	**1.9 J**	**0.95 J**	**1.1 J**	1.2 U	1.2 UJ	0.49 U	7.4 U	7.9 U	6.9 U	**90.9**	8.1 U	**2.7**	4.9 U
Propylbenzene, n-	3.6 U	3.8 U	3.6 U	24.1 U	**8.8**	NA	NA	NA	NA	NA	NA	NA	3.7 U	3.9 U	3.4 U	17.7 U	**5.4**	NA	NA
Styrene	3.2 U	3.3 U	3.2 U	20.9 U	3 U	1.7 U	1.7 U	1.8 U	0.85 U	0.85 U	**0.55 J**	0.85 U	3.2 U	3.4 U	3 U	15.3 U	3.5 U	1.9 U	1.7 U
t-Butyl alcohol	NA	NA	NA	NA	NA	1.2 U	1.2 U	**1.0 J**	0.61 U	**0.24 J**	**0.88**	0.61 U	NA	NA	NA	NA	NA	1.3 U	**1.2**
Tetrachloroethane, 1,1,2,2-	5.1 U	5.4 U	5.1 U	33.6 U	4.8 U	2.8 U	2.8 U	3.0 U	1.4 U	1.4 U	1.4 U	1.4 U	5.2 U	5.5 U	4.8 U	24.7 U	5.6 U	3.0 U	2.7 U
Tetrachloroethene	5 U	5.3 U	**8.1**	**34.6**	**19**	2.8 U	**6.7**	**5.7**	**1.8**	**2.7**	**3.3**	**2.9**	**32.6**	**5.9**	**5.4**	**27.8**	**14.9**	**0.90 J**	**2.4 J**
Tetrahydrofuran	2.2 U	2.3 U	2.2 U	14.5 U	2.1 U	NA	NA	NA	NA	NA	NA	NA	2.2 U	2.4 U	2.1 U	10.6 U	2.4 U	NA	NA
Tetramethylbenzene, 1,2,4,5-	NA	NA	NA	NA	NA	2.2 U	**2.6 J**	**3.0 J**	**0.99 J**	**3.4**	**2.7 J**	1.1 U	NA	NA	NA	NA	NA	2.4 U	**5.2**
Thiophene	NA	NA	NA	NA	NA	1.4 U	1.4 U	1.5 U	0.69 U	0.69 U	0.69 U	0.69 U	NA	NA	NA	NA	NA	1.5 U	1.4 U
Trans-1,2-dichloroethene	2.9 U	3.1 U	2.9 U	19.4 U	2.8 U	1.6 U	1.6 U	1.7 U	0.79 U	0.79 U	0.79 U	0.79 U	3 U	3.2 U	2.8 U	14.3 U	3.3 U	1.8 U	1.6 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5.7 U	6 U	5.7 U	37.6 U	5.4 U	**0.78 J**	3.1 U	3.3 U	**0.54 J**	**0.58 J**	**0.54 J**	**0.46 J**	5.8 U	6.1 U	5.4 U	27.6 U	6.3 U	3.4 U	3 U
Trichlorobenzene, 1,2,4-	22.3 U	23 U	22.3 U	141 U	20.8 UJ	3.0 UJ	3 U	3.2 U	1.5 U	1.5 U	1.5 U	1.5 U	22.3 U	23.7 U	20.8 U	103.9 U	24.5 UJ	3.3 UJ	**3.3**
Trichloroethane, 1,1,1-	4 U	4.3 U	4 U	26.7 U	3.8 U	2.2 U	2.2 UJ	2.4 U	1.1 U	1.1 U	1.1 U	1.1 U	4.1 U	4.4 U	3.8 U	19.6 U	4.5 U	2.4 U	2.2 U
Trichloroethane, 1,1,2-	4 U	4.3 U	4 U	26.7 U	3.8 U	2.2 U	2.2 U	2.4 U	1.1 U	1.1 U	1.1 U	1.1 U	4.1 U	4.4 U	3.8 U	19.6 U	4.5 U	2.4 U	2.2 U
Trichloroethene	4 U	4.2 U	4 U	26.3 U	3.8 U	2.2 U	2.2 U	2.3 U	1.1 U	1.1 U	1.1 U	1.1 U	4.1 U	4.3 U	3.8 U	19.3 U	4.4 U	2.4 U	2.1 U
Trichlorofluoromethane	4.2 U	4.4 U	4.2 U	27.5 U	3.9 U	**1.2 J**	**1.9 J**	**1.7 J**	**1.4**	**1.1 J**	**1.5**	**1.6**	4.3 U	4.5 U	3.9 U	20.2 U	4.6 U	**1.7 J**	**1.9 J**
Trimethylbenzene, 1,2,3-	NA	NA	NA	NA	NA	**0.70 J**	**1.7 J**	**1.4 J**	0.98 U	**0.36 J**	**3.4**	0.98 U	NA	NA	NA	NA	NA	**0.98 J**	**1.1 J**
Trimethylbenzene, 1,2,4-	**10.8**	3.8 U	**3.9**	24.1 U	**43.3 J**	**1.7 J**	**8.1 J**	**3.5**	**0.54 J**	**0.48 J**	**1.1**	0.98 U	3.7 U	**15.7**	3.4 U	17.7 U	**21.6 J**	**2.2**	**1.2 J**
Trimethylbenzene, 1,3,5-	**4**	3.8 U	3.6 U	24.1 U	**10.8**	2.0 U	**2.3**	**1.5 J**	0.98 U	**0.57 J**	**1.8**	0.98 U	3.7 U	**5.9**	3.4 UJ	17.7 U	**5.4**	**0.76 J**	2 U
Trimethylpentane, 2,2,4-	3.5 U	3.6 U	**794.2**	**5606.4**	**981.1**	1.9 U	**1.1 J**	**1.1 J**	0.93 U	0.93 U	0.93 U	0.93 U	3.6 U	**15.4**	**462.5**	**4111.4**	**607.4**	**3.7 J**	1.9 U
Undecane, n-	NA	NA	NA	NA	NA	2.6 U	**4.7**	2.8 U	**2.7**	**5.4**	**11**	1.3 U	NA	NA	NA	NA	NA	2.8 U	2.5 U
Vinyl bromide	NA	NA	NA	NA	NA	1.8 U	1.8 U	1.9 U	0.87 U	0.87 U	0.87 U	0.87 U	NA	NA	NA	NA	NA	1.9 U	1.7 U
Vinyl chloride	1.9 U	2 U	1.9 U	12.5 U	1.8 U	1.0 U	1 U	1.1 U	0.51 U	0.51 U	0.51 U	0.51 U	1.9 U	2 U	1.8 U	9.2 U	2.1 U	1.1 U	1 U
Other (%)																			
Helium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0177 U	**0.037**	NA	NA	NA	NA	NA	NA	NA

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name: / Sample Date:	OU2SG05 7/25/2007	OU2SG05 9/19/2007	OU2SG05 12/19/2007	OU2SG05 3/27/2008	OU2SG05 6/23/2008	OU2SG05 9/22/2008	OU2SG06 5/5/2005	OU2SG06 8/30/2005	OU2SG06 2/2/2006	OU2SG06 6/14/2006	OU2SG06 9/7/2006	OU2SG06 2/21/2007	OU2SG06 6/13/2007	OU2SG06 9/19/2007	OU2SG06 12/18/2007	OU2SG06 4/3/2008	OU2SG06 6/25/2008	OU2SG06 9/24/2008	OU2SG07 5/25/2005
BTEX (ug/m3)																			
Benzene	1.5 UJ	**0.56 J**	**0.41 J**	**0.19 J**	**0.51 J**	0.64 U	**6.4**	**8.9**	**7**	13.4 U	**11.5**	**0.65 J**	1.3 U	**0.45 J**	0.64 U	0.64 U	0.64 UJ	0.64 U	**4.5**
Ethylbenzene	2 U	1.9 U	0.87 U	0.87 U	**0.39 J**	0.87 U	**8.3**	**30**	**16.5**	18.2 U	**30.8**	**2.0**	**1.1 J**	**0.61 J**	**0.39 J**	0.87 U	0.87 U	0.87 U	5.2 U
Toluene	**21**	**1.6 J**	**1.9**	**0.62 J**	**8.4**	**0.34 J**	**37.7**	**101.7**	**75.4**	**36.2**	**128.1**	**4.9**	**73**	**15**	**26**	**4.0**	**6.5**	**2.1**	**17**
Xylene, m,p-	**1.1 J**	3.8 U	1.7 U	1.7 U	**1.4 J**	1.7 U	**31.3**	**125.9**	**60.8**	**19.1**	**108.6**	**5.5**	**13**	**0.82 J**	**0.35 J**	**0.23 J**	**0.26 J**	1.7 U	5.2 U
Xylene, o-	**1.2 J**	1.9 U	0.87 U	0.87 U	**0.78 J**	0.87 U	**10.9**	**42.1**	**14.8**	18.2 U	**29.5**	**2.5**	**7.3**	2.0 U	**0.35 J**	0.87 U	0.87 U	0.87 U	5.2 U
Other VOCs (ug/m3)																			
Acetaldehyde	**44**	**24**	1.8 U	4.5 U	**16**	**3.2 J**	NA	NA	NA	NA	NA	**4.0 J**	**260**	**25**	3.3 U	4.5 U	7.1 U	**3.9 J**	NA
Acetone	**16 J**	**4.9**	5.2 U	2.6 U	**8.1**	**2.2**	**831.4 EJ**	**201.9**	**71.3**	**451.3**	**235.2**	**12**	**15**	**6.4**	2.0 U	1.4 U	4.1 U	**0.99**	**130.6**
Acrolein (propenal)	1.1 U	1.0 U	0.46 U	1.2 U	**0.62**	0.46 U	NA	NA	NA	NA	NA	0.93 U	**1.5 J**	1.1 U	0.46 U	1.2 U	0.46 U	0.46 U	NA
Allyl chloride	1.5 U	1.4 U	0.63 U	0.63 U	0.63 UJ	0.63 U	9.1 U	9.4 U	9.4 U	53.2 U	9.4 U	1.3 U	1.3 U	1.5 U	0.63 U	0.63 U	0.63 U	0.63 U	15.3 U
Benzothiophene	2.6 U	2.4 U	1.1 U	1.1 U	1.1 U	1.1 U	NA	NA	NA	NA	NA	11 UJ	2.2 UJ	2.6 U	1.1 U	1.1 UJ	1.1 U	1.1 U	NA
Bromodichloromethane	3.1 U	3.0 U	1.3 U	1.3 U	1.3 U	**0.74 J**	4.9 U	5 U	5 U	28.1 U	5.1 U	2.7 U	2.7 U	3.2 U	1.3 U	1.3 U	1.3 U	1.3 U	8 U
Bromoform	4.8 U	4.6 U	2.1 U	2.1 U	2.1 U	2.1 U	7.5 U	7.6 U	7.6 U	43.4 U	7.9 U	4.2 U	4.2 U	4.9 U	2.1 U	2.1 U	2.1 U	2.1 U	12.4 U
Bromomethane	1.8 U	1.7 U	0.78 U	0.78 U	0.78 U	0.78 U	2.8 U	2.9 U	2.9 U	16.3 U	3 U	1.6 U	1.6 U	1.8 U	0.78 U	0.78 U	0.78 U	0.78 U	4.7 U
Butadiene, 1,3-	1 U	0.98 U	0.44 U	0.44 U	0.44 U	0.44 U	**4.4**	1.6 U	**3.1**	9.3 U	**5.8**	0.90 U	0.9 U	1.0 U	0.44 U	0.44 U	0.44 U	0.44 U	2.7 U
Butane	**2.1**	1.0 U	**6.4**	**2.1**	**0.36 J**	**0.69**	NA	NA	NA	NA	NA	**22**	0.96 U	1.1 U	0.48 U	0.48 U	0.48 U	0.48 U	NA
Butanone, 2-	**1.9**	**1.6**	0.59 U	**0.24 J**	**1.7**	**0.38 J**	**29.5**	**10**	**6.2 J**	**18.9**	**13.9**	**1.9 J**	1.2 UJ	**1.4**	**0.59**	1.5 U	**0.71**	0.59 U	**6.2**
Carbon disulfide	**7.6**	**2.2**	**1.0**	**0.56 J**	**23**	**2.2**	**2.3**	2.3 U	2.3 U	13.1 U	**3.1**	**0.89 J**	**9.8 J**	**4.0**	**2.8**	**1.6**	**8.8**	**1.3**	3.7 U
Carbon tetrachloride	2.9 UJ	2.8 U	1.3 U	**0.36 J**	1.3 U	1.3 U	4.6 U	4.7 U	4.7 U	26.4 U	4.8 U	2.6 U	2.6 U	3.0 U	1.3 U	1.3 U	1.3 U	1.3 U	7.5 U
Chlorobenzene	2.2 U	2.0 U	0.92 U	0.92 U	0.92 U	0.92 U	3.4 U	3.4 U	3.4 U	19.3 U	3.5 U	1.9 U	1.9 U	2.2 U	0.92 U	0.92 U	0.92 U	0.92 U	5.5 U
Chloroethane	1.2 U	1.2 U	0.53 U	0.53 U	0.53 U	0.53 U	1.9 U	2 U	2 U	11.1 U	2 U	1.1 U	1.1 U	1.2 U	0.53 U	0.53 U	0.53 U	0.53 U	3.2 U
Chloroform	**19**	**6.9**	**1.9**	**1.6**	**9.2**	**9.8**	3.6 U	3.6 U	3.6 U	20.5 U	3.7 U	**1.8 J**	2 U	2.3 U	0.98 U	**0.34 J**	**6.2**	**0.98**	5.9 U
Chloromethane	**0.62 J**	0.91 U	0.41 U	**0.14 J**	0.41 U	0.41 U	6 U	6.2 U	6.2 U	35.1 U	6.2 U	0.84 U	0.84 U	0.97 U	0.41 U	**0.11 J**	0.41 U	0.41 U	10.1 U
Chlorotoluene, 2-	2.4 U	2.3 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	2.1 U	2.1 U	2.4 U	1.0 U	1.0 U	1.0 U	1.0 U	NA
Cryofluorane	3.3 U	3.1 U	1.4 U	1.4 U	1.4 U	1.4 U	5.1 U	5.2 U	5.2 U	29.4 U	5.3 U	2.8 U	2.8 U	3.3 U	1.4 U	1.4 U	1.4 U	1.4 U	8.4 U
Cyclohexane	**4.6**	1.5 U	**0.93**	**0.62 J**	**2.1**	**0.34 J**	2.5 U	**6.9**	2.5 U	14.5 U	2.6 U	**0.91 J**	**200**	**25**	**91**	**42**	**4.7**	**0.93**	**344.2**
Decane, n-	2.7 U	2.6 U	1.2 U	1.2 U	**48**	1.2 U	NA	NA	NA	NA	NA	**1.2 J**	**22**	2.7 U	**0.52 J**	1.2 U	**1.6**	1.2 U	NA
Dibromochloromethane	4 U	3.8 U	1.7 U	1.7 U	1.7 U	1.7 U	6.2 U	6.3 U	6.3 U	35.8 U	6.5 U	3.5 U	3.5 U	4.0 U	1.7 U	1.7 U	1.7 U	1.7 U	10.2 U
Dibromoethane, 1,2-	3.6 U	3.4 U	1.5 U	1.5 U	1.5 U	1.5 U	5.6 U	5.7 U	5.7 U	32.3 U	5.8 U	3.1 U	3.1 U	3.6 U	1.5 U	1.5 U	1.5 U	1.5 U	9.2 U
Dichlorobenzene, 1,2-	2.8 U	2.7 U	1.2 U	1.2 U	1.2 U	1.2 U	4.4 U	4.4 U	4.4 U	25.3 U	4.6 U	2.4 U	2.4 U	2.8 U	1.2 U	1.2 U	1.2 U	1.2 U	7.2 U
Dichlorobenzene, 1,3-	2.8 U	2.7 U	1.2 U	1.2 U	**4.3**	1.2 U	4.4 U	4.4 U	4.4 U	25.3 U	4.6 U	2.4 U	2.4 U	2.8 U	1.2 U	1.2 U	1.2 U	1.2 U	7.2 U
Dichlorobenzene, 1,4-	**1.8 J**	2.7 U	1.2 U	1.2 U	**0.36 J**	1.2 U	4.4 U	4.4 U	4.4 U	25.3 U	4.6 U	2.4 UJ	2.4 U	2.8 U	1.2 U	1.2 U	**0.96 J**	1.2 U	7.2 U
Dichlorodifluoromethane	**3.1**	**2.7**	**2.7**	**2.2**	**2.7**	**2.8**	3.6 U	3.7 U	3.7 U	20.8 U	3.8 U	**2.4**	**3**	**2.8**	**2.2**	**2.1**	**2.0**	**2.6**	**5.9**
Dichloroethane, 1,1-	1.9 U	1.8 U	0.81 U	0.81 U	0.81 U	0.81 U	3 U	3 U	3 U	17 U	3.1 U	1.6 U	1.6 U	1.9 U	0.81 U	0.81 U	0.81 U	0.81 U	4.9 U
Dichloroethane, 1,2-	1.9 U	1.8 U	0.81 U	0.81 U	0.81 U	0.81 U	3 U	3 U	3 U	17 U	3.1 U	1.6 U	1.6 U	1.9 U	0.81 U	0.81 U	0.81 U	0.81 U	4.9 U
Dichloroethene, cis-1,2-	1.8 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U	2.9 U	2.9 U	2.9 U	16.7 U	3 U	1.6 U	1.6 U	1.9 U	0.79 U	0.79 U	0.79 U	0.79 U	4.8 U
Dichloroethene, 1,1-	1.8 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U	2.9 U	2.9 U	2.9 U	16.7 U	3 U	1.6 U	1.6 U	1.9 U	0.79 U	0.79 U	0.79 U	0.79 U	4.8 U
Dichloropropane, 1,2-	2.2 U	2.0 U	0.92 U	0.92 U	0.92 U	0.92 U	3.4 U	3.4 U	3.4 U	19.4 U	3.5 U	1.9 U	1.9 U	2.2 U	0.92 U	0.92 U	0.92 U	0.92 U	5.5 U
Dichloropropene, cis-1,3	2.1 U	2.0 U	0.91 U	0.91 U	0.91 U	0.91 U	3.3 U	3.4 U	3.4 U	19.1 U	3.4 U	1.8 U	1.8 U	2.1 U	0.91 U	0.91 U	0.91 U	0.91 U	5.4 U
Dichloropropene, trans-1,3	2.1 U	2.0 U	0.91 U	0.91 U	0.91 U	0.91 U	3.3 U	3.4 U	3.4 U	19.1 U	3.4 U	1.8 U	1.8 U	2.1 U	0.91 U	0.91 U	0.91 U	0.91 U	5.4 U
Dioxane, 1,4-	1.7 U	1.6 U	1.8 U	0.72 U	0.72 U	0.72 U	10.5 U	10.8 U	10.8 U	61.3 U	10.8 U	3.7 U	3.6 U	1.7 U	1.8 U	0.72 U	0.72 U	0.72 U	17.7 U
Dodecane, n-	**2.5 J**	3.1 U	**0.42 J**	**0.41 J**	**34 J**	**0.35 J**	NA	NA	NA	NA	NA	**1.1 J**	**9.2**	**0.99 J**	1.4 U	1.4 U	**0.56 J**	**1.3 J**	NA
Ethanol	**13**	**10**	2.9 U	**1.1 J**	**2.6**	**1.1 J**	**156.4**	**26.4**	**12.2**	**98**	**30.1**	**37**	**9**	**7.7**	3.0 U	**0.89 J**	**0.62 J**	1.9 U	**433.4**
Ethylthiophene, 2-	2.2 U	2.0 U	0.92 U	0.92 U	0.92 U	0.92 U	NA	NA	NA	NA	NA	1.9 U	1.9 U	2.2 U	0.92 U	0.92 U	0.92 U	0.92 U	NA
Ethyltoluene, p-	2.3 U	2.2 U	0.98 U	0.98 U	**0.39 J**	0.98 U	**9.3**	**54.1**	**11.3**	20.6 U	**43.8**	**0.80 J**	2 U	2.3 U	0.98 U	0.98 U	0.98 U	0.98 U	5.9 U
Heptane, n-	1.9 U	1.8 U	**0.29 J**	0.82 U	**0.61 J**	0.82 U	**5.3**	**12.3**	3 U	17.2 U	**10.7**	**0.67 J**	**2.7**	1.9 U	0.82 U	0.82 UJ	0.82 U	0.82 U	**163.9**
Hexachlorobutadiene	5 U	4.7 U	2.1 U	2.1 U	2.1 U	2.1 U	30.9 U	32 U	32 U	181.3 U	32 UJ	4.4 UJ	4.3 U	5.0 U	2.1 U	2.1 U	2.1 U	2.1 U	52.3 U
Hexane, n-	**3.1**	**4.6**	**0.28 J**	**0.24 J**	**0.39 J**	0.70 U	**6.7**	**10.9**	**7.8**	14.8 U	**10.6**	**1.9**	**300**	**7.1**	**3.4**	0.70 U	**0.28 J**	0.70 U	**6.3 J**
Hexanone, 2-	1.9 U	1.8 U	0.82 U	0.82 U	0.82 U	0.82 U	11.9 U	12.3 U	12.3 U	69.6 U	12.3 U	4.2 U	1.7 U	1.9 U	0.82 U	0.82 U	0.82 U	0.82 U	20.1 U
Indan	2.3 U	2.1 U	0.97 U	0.97 U	0.97 U	0.97 U	NA	NA	NA	NA	14.5 U	**0.69 J**	2 U	2.3 U	0.97 U	0.97 U	0.97 U	0.97 U	NA
Indene	2.2 U	2.1 U	0.95 U	0.95 U	0.95 U	0.95 U	NA	NA	NA	NA	14.3 U	1.9 U	1.9 U	2.2 U	0.95 U	0.95 U	0.95 U	0.95 U	NA
Isopropyl benzene	NA	NA	NA	NA	NA	NA	3.6 U	**4.9**	3.6 U	20.6 U	3.7 U	NA	NA	NA	NA	NA	NA	NA	5.9 U
Methyl tert-butyl ether	1.7 U	1.6 U	0.72 U	0.72 U	0.72 U	0.72 U	2.6 U	**23.8**	2.7 U	15.1 U	2.7 U	1.5 U	1.5 U	1.7 U	0.72 U	0.72 U	0.72 U	0.72 U	**6.9**
Methyl-2-pentanone, 4-	1.9 U	1.8 U	0.82 U	0.82 U	0.82 U	0.82 U	3 U	3 U	3 U	17.2 U	3.1 U	**0.67 J**	1.7 U	1.9 U	0.82 U	0.82 U	0.82 U	0.82 U	4.9 U
Methylene chloride	**1.9**	**9.5**	0.69 U	**0.35 J**	2.1 U	1.5 U	2.5 U	2.6 U	2.6 U	14.6 U	2.6 U	**3.5 J**	**8**	**9.8**	0.69 U	1.7 U	1.7 U	0.69 U	4.2 U
Methylnaphthalene, 1-	2.7 U	2.6 U	14 U	1.2 U	2.9 UJ	1.2 U	NA	NA	NA	NA	NA	30 U	**1.2 J**	2.7 U	14 UJ	1.2 UJ	**0.52 J**	1.2 UJ	NA
Methylnaphthalene, 2-	34 U	2.6 U	14 UJ	1.2 U	2.9 UJ	1.2 U	NA	NA	NA	NA	NA	30 U	**2.2 J**	2.7 U	14 U	1.2 UJ	2.9 U	1.2 U	NA
Methylthiophene, 2-	1.9 U	1.8 U	0.80 U	0.80 U	0.80 U	0.80 U	NA	NA	NA	NA	NA	1.6 U	1.6 U	1.9 U	0.80 U	0.80 U	0.80 U	0.80 U	NA
Methylthiophene, 3-	1.9 U	1.8 U	0.80 U	0.80 U	0.80 U	0.80 U	NA	NA	NA	NA	NA	1.6 U	1.6 U	1.9 U	0.80 U	0.80 U	0.80 U	0.80 U	NA
Naphthalene	2.4 U	2.3 U	1.0 U	1.0 U	**1.1**	1.0 U	15.2 UJ	15.7 U	15.7 U	89.1 UJ	15.7 U	5.3 U	**1.2 J**	2.5 U	**0.73 J**	1.0 U	**0.31 J**	1.0 U	25.7 U
Nonane	2.4 U	2.3 U	1.0 U	1.0 U	1.0 UJ	1.0 U	NA	NA	NA	NA	NA	**1.1 J**	2.1 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	NA

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG05	OU2SG05	OU2SG05	OU2SG05	OU2SG05	OU2SG05	OU2SG06	OU2SG06	OU2SG06	OU2SG06	OU2SG06	OU2SG06	OU2SG06	OU2SG06	OU2SG06	OU2SG06	OU2SG06	OU2SG06	OU2SG07
Sample Date:	7/25/2007	9/19/2007	12/19/2007	3/27/2008	6/23/2008	9/22/2008	5/5/2005	8/30/2005	2/2/2006	6/14/2006	9/7/2006	2/21/2007	6/13/2007	9/19/2007	12/18/2007	4/3/2008	6/25/2008	9/24/2008	5/25/2005
Other VOCs Continued (ug/m3																			
Octane, n-	2.2 U	2.1 U	0.93 U	0.93 U	**200**	**0.75 J**	NA	NA	NA	NA	NA	**0.67 J**	1.9 U	2.2 U	0.93 U	0.93 U	0.93 U	0.93 U	NA
Pentane	**3.6**	**0.52 J**	**1.7**	**0.86**	**0.80**	0.59 U	NA	NA	NA	NA	NA	**3.2**	1.2 U	1.4 U	0.59 U	0.59 U	0.59 U	0.59 U	NA
Propanol, 2-	**15 J**	**0.76 J**	0.49 U	**0.38 J**	1.2 UJ	0.49 U	**16.2**	7.4 U	7.4 U	41.8 U	7.4 U	**2.4**	**2.5 J**	**1.2**	0.49 U	**0.45 J**	1.4 UJ	0.49 U	**36.9 J**
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	3.6 U	**10.8**	3.6 U	20.6 U	**10.8**	NA	NA	NA	NA	NA	NA	NA	5.9 U
Styrene	2 U	1.9 U	0.85 U	0.85 U	**0.43 J**	0.85 U	3.1 U	**4.1**	3.2 U	17.9 U	3.2 U	1.7 U	1.7 U	2.0 U	0.85 U	0.85 U	0.85 U	0.85 U	5.1 U
t-Butyl alcohol	**0.83 J**	1.3 U	0.61 U	0.61 U	**1.7 J**	0.61 U	NA	NA	NA	NA	NA	1.2 U	**1.4**	**0.43 J**	0.61 U	0.61 U	0.61 U	0.61 U	NA
Tetrachloroethane, 1,1,2,2-	3.2 U	3.0 U	1.4 U	1.4 U	1.4 U	1.4 U	5 U	5.1 U	5.1 U	28.8 U	5.2 U	2.8 U	2.8 U	3.2 U	1.4 U	1.4 U	1.4 U	1.4 U	8.2 U
Tetrachloroethene	**1.8 J**	**1.4 J**	**0.41 J**	**0.49 J**	**16**	**1.8**	**5**	**12.2**	**16.3**	**32.6**	**24.4**	**0.83 J**	**2.4 J**	**1.9 J**	**0.41 J**	**0.62 J**	**3.3**	**2.0**	8.1 U
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	2.2 U	2.2 U	**2.2 J**	12.4 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	3.5 U
Tetramethylbenzene, 1,2,4,5-	**2.4 J**	2.4 U	1.1 U	1.1 U	**2.1 J**	1.1 U	NA	NA	NA	NA	NA	2.2 U	**4**	2.6 U	1.1 U	1.1 U	1.1 U	1.1 U	NA
Thiophene	1.6 UJ	1.5 U	0.69 U	0.69 U	0.69 U	0.69 U	NA	NA	NA	NA	NA	1.4 U	1.4 U	1.6 U	0.69 U	0.69 U	0.69 U	0.69 U	NA
Trans-1,2-dichloroethene	1.8 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U	2.9 U	2.9 U	2.9 U	16.7 U	3 U	1.6 U	1.6 U	1.9 U	0.79 U	0.79 U	0.79 U	0.79 U	4.8 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	3.6 U	3.4 U	**0.54 J**	1.5 U	**0.61 J**	**0.54 J**	5.6 U	5.7 U	5.7 U	32.2 U	5.8 U	3.1 U	3.1 U	3.6 U	1.5 U	**0.68 J**	**0.54 J**	**0.43 J**	9.2 U
Trichlorobenzene, 1,2,4-	3.5 U	3.3 U	1.5 U	1.5 U	1.5 U	1.5 U	21.5 U	22.3 U	22.3 U	126.2 U	22.3 UJ	3.0 UJ	3 U	3.5 U	1.5 U	1.5 U	1.5 U	1.5 U	36.4 U
Trichloroethane, 1,1,1-	2.6 U	2.4 U	1.1 U	1.1 U	1.1 U	1.1 U	4 U	4 U	4 U	22.9 U	4.1 U	2.2 U	2.2 U	2.6 U	1.1 U	1.1 U	1.1 U	1.1 U	6.5 U
Trichloroethane, 1,1,2-	2.6 U	2.4 U	1.1 U	1.1 U	1.1 U	1.1 U	4 U	4 U	4 U	22.9 U	4.1 U	2.2 U	2.2 U	2.6 U	1.1 U	1.1 U	1.1 U	1.1 U	6.5 U
Trichloroethene	2.5 U	2.4 U	**0.32 J**	1.1 U	1.1 U	1.1 U	3.9 U	4 U	4 U	22.6 U	4.1 U	2.2 U	2.2 U	2.5 U	1.1 U	1.1 U	1.1 U	1.1 U	**8.1**
Trichlorofluoromethane	**2.9**	**2.0 J**	**1.3**	**1.2**	**2.8**	**2.0**	4.1 U	4.2 U	4.2 U	23.6 U	4.3 U	**1.5 J**	2.3 U	**1.6 J**	**1.1**	**1.9**	**1.8**	**1.5**	6.7 U
Trimethylbenzene, 1,2,3-	2.3 U	2.2 U	0.98 U	0.98 U	**2.6**	0.98 U	NA	NA	NA	NA	NA	**1.4 J**	**1.7 J**	2.3 U	0.98 U	0.98 U	0.98 U	0.98 U	NA
Trimethylbenzene, 1,2,4-	2.3 U	2.2 U	0.98 U	0.98 U	**0.69 J**	0.98 U	**8.8**	**47.2**	**8.4**	20.6 U	**54.1 J**	**2.8**	**1.2 J**	2.3 U	0.98 U	0.98 U	0.98 U	0.98 U	5.9 U
Trimethylbenzene, 1,3,5-	2.3 U	2.2 U	0.98 U	0.98 U	**1.3**	0.98 U	3.6 U	**16.2**	3.6 UJ	20.6 U	**14.3**	**1.2 J**	2 U	2.3 U	0.98 U	0.98 U	0.98 U	0.98 U	5.9 U
Trimethylpentane, 2,2,4-	2.2 U	2.1 U	0.93 U	0.93 U	0.93 U	0.93 U	**3.5**	**15.4**	**981.1**	**5139.2**	**934.4**	**1.1 J**	**1.4 J**	2.2 U	0.93 U	0.93 UJ	0.93 U	0.93 U	5.6 U
Undecane, n-	**1.4 J**	2.8 U	1.3 U	1.3 U	**8.2**	1.3 UJ	NA	NA	NA	NA	NA	**1.0 J**	2.6 U	3.0 U	1.3 U	1.3 U	1.3 U	1.3 U	NA
Vinyl bromide	2 U	1.9 U	0.87 U	0.87 U	0.87 U	0.87 U	NA	NA	NA	NA	NA	1.8 U	1.8 U	2.1 U	0.87 U	0.87 U	0.87 U	0.87 U	NA
Vinyl chloride	1.2 U	1.1 U	0.51 U	0.51 U	0.51 U	0.51 U	1.9 U	1.9 U	1.9 U	10.7 U	1.9 U	1.0 U	1 U	1.2 U	0.51 U	0.51 U	0.51 U	0.51 U	3.1 U
Other (%)																			
Helium	NA	NA	NA	NA	**0.436**	**0.429**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0184 U	NA

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name: / Sample Date:	OU2SG07 8/30/2005	OU2SG07 2/1/2006	OU2SG07 6/14/2006	OU2SG07 9/7/2006	OU2SG07 2/21/2007	OU2SG07 5/24/2007	OU2SG07 9/12/2007	OU2G07 12/19/2007	OU2SG07 4/3/2008	OU2SG07 6/24/2008	OU2SG07 9/19/2008	OU2SG08 5/25/2005	OU2SG08 8/31/2005	OU2SG08 2/2/2006	OU2SG08 6/15/2006	OU2SG08 9/8/2006	OU2SG08 2/21/2007	OU2SG08 5/24/2007	OU2SG08 7/25/2007
BTEX (ug/m3)																			
Benzene	**6.7**	**13.4**	7.7 U	**15.7**	**0.43 J**	**0.81 J**	1.4 U	**0.16 J**	0.64 U	0.64 U	0.64 U	**5.1**	**5.4**	2.2 U	11.5 U	**11.2**	**0.55 J**	1.3 U	**0.62 J**
Ethylbenzene	**24.8**	**21.3**	10.4 U	**32.6**	**2.0**	**20**	1.9 U	**0.22 J**	**0.56 J**	**0.69 J**	0.87 U	3 U	**24.8**	**4.8**	15.6 U	**25.6**	**1.7 J**	**5.4**	**2.2 J**
Toluene	**90.4**	**109.3**	**21.1**	**135.7**	**5.4**	**1100**	**23**	**16**	**10**	**0.94**	**1.2**	**11.3**	**82.9**	**6**	**28.6**	**128.1**	**4.3**	**8.9**	**120 J**
Xylene, m,p-	**104.2**	**65.1**	**14.8**	**112.9**	**6.4**	**67**	**1.3 J**	**0.61 J**	**1.7 J**	**2.0**	**0.22 J**	**4.8**	**95.5**	**4.8**	**15.6**	**91.2**	**5.1**	**5.7**	**4.6 J**
Xylene, o-	**36.5**	**14.3**	10.4 U	**31.7**	**2.3**	**20**	**0.67 J**	**0.30 J**	**0.41 J**	**0.91**	0.87 U	3 U	**35.2**	3 U	15.6 U	**24.3**	**1.9 J**	**3**	**2.4 J**
Other VOCs (ug/m3)																			
Acetaldehyde	NA	NA	NA	NA	0.82 UJ	**130 J**	**85**	1.8 U	4.5 U	**32**	**24**	NA	NA	NA	NA	NA	0.78 UJ	**130 J**	**170 J**
Acetone	**261.3**	**135.4**	**192.4**	**285.1**	**12**	**20 J**	**11**	2.6 U	2.5 U	**17**	**5.8**	**57**	**285.1**	**10.5**	**522.6**	**137.8**	**8.8**	**15 J**	**23 J**
Acrolein (propenal)	NA	NA	NA	NA	1.0 U	**1.4 J**	1.0 U	0.46 U	1.2 U	**0.34 J**	**1.1**	NA	NA	NA	NA	NA	0.99 U	2.3 U	1.2 UJ
Allyl chloride	10 U	22.5 U	30.4 U	9.4 U	1.4 U	1.3 U	1.4 U	0.63 U	0.63 U	0.63 UJ	0.63 U	8.8 U	9.7 U	8.8 U	43.8 U	9.1 U	1.4 U	1.3 U	1.6 U
Benzothiophene	NA	NA	NA	NA	12 UJ	5.5 U	30 U	1.1 U	1.1 UJ	1.1 U	1.1 U	NA	NA	NA	NA	NA	12 UJ	5.5 U	2.8 U
Bromodichloromethane	5.4 U	12.1 U	16.1 U	5 U	3.0 U	2.7 U	3.0 U	1.3 U	1.3 U	1.3 U	1.3 U	4.7 U	5.2 U	4.7 U	24.1 U	4.8 U	2.9 U	2.7 U	3.4 U
Bromoform	8.3 U	18.6 U	24.8 U	7.6 U	4.7 U	4.2 U	4.6 U	2.1 U	2.1 U	2.1 U	2.1 U	7.2 U	8.1 U	7.2 U	37.2 U	7.4 U	4.5 U	4.2 U	5.2 U
Bromomethane	3.1 U	7 U	9.3 U	2.9 U	1.8 U	1.6 U	1.7 U	0.78 U	0.78 U	0.78 U	0.78 U	2.7 U	3 U	2.7 U	14 U	2.8 U	1.7 U	1.6 U	2 U
Butadiene, 1,3-	**2.4**	4 U	5.3 U	**8.2**	1.0 U	0.89 U	0.98 U	0.44 U	0.44 U	0.44 U	0.44 U	1.5 U	**3.1**	1.5 U	8 U	**2.7**	0.96 U	0.89 U	1.1 U
Butane	NA	NA	NA	NA	1.1 U	0.95 U	1.0 U	0.48 U	0.48 U	**0.17 J**	0.48 U	NA	NA	NA	NA	NA	**0.62 J**	**0.6 J**	1.2 U
Butanone, 2-	**7.4**	**20.6**	**7.4**	**18.9**	**1.4 J**	**4.6**	**5.2**	**0.50 J**	**0.42 J**	**1.7**	**1.3**	**6.5**	**32.4**	2.1 U	**35.4**	**10.9**	**1.5 J**	**7.2**	**4.1 J**
Carbon disulfide	**5.3**	**21.8**	**15.3**	**3**	1.4 U	**5.7 J**	**7.4**	**0.37 J**	**3.1**	**0.40 J**	**1.0**	**2.4**	**62.3**	2.2 U	**22.7**	**25.2**	1.4 U	1.2 U	**4.1 J**
Carbon tetrachloride	5 U	11.3 U	15.1 U	4.7 U	2.8 U	2.5 UJ	2.8 U	1.3 U	1.3 U	1.3 U	1.3 U	4.4 U	4.9 U	4.4 U	22.6 U	4.5 U	2.7 U	2.5 UJ	3.2 U
Chlorobenzene	3.7 U	8.3 U	11 U	3.4 U	2.1 U	1.8 U	2.0 U	0.92 U	0.92 U	0.92 U	0.92 U	3.2 U	3.6 U	3.2 U	16.6 U	3.3 U	2.0 U	1.8 U	2.3 U
Chloroethane	2.1 U	4.7 U	6.3 U	2 U	1.2 U	1.1 U	1.2 U	0.53 U	0.53 U	0.53 U	0.53 U	1.8 U	2.1 U	1.8 U	9.5 U	1.9 U	1.1 U	1.1 U	1.3 U
Chloroform	**9.8**	8.8 U	11.7 U	3.6 U	2.2 U	**4**	**5.7**	**3.1**	**0.75 J**	**2.9**	**4.9**	3.4 U	3.8 U	3.4 U	17.6 U	3.5 U	2.1 U	2 U	**0.89 J**
Chloromethane	6.6 U	14.9 U	20 U	6.2 U	0.94 U	0.83 U	**0.50 J**	0.41 U	**0.48**	0.41 U	0.41 U	5.8 U	6.4 U	5.8 U	28.9 U	6 U	0.90 U	0.83 U	**0.72 J**
Chlorotoluene, 2-	NA	NA	NA	NA	2.4 U	2.1 U	2.3 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	2.2 U	2.1 U	2.6 U
Cryofluorane	5.6 U	12.6 U	16.8 U	5.2 U	3.2 U	2.8 U	3.1 U	1.4 U	1.4 U	1.4 U	1.4 U	4.9 U	5.5 U	4.9 U	25.2 U	5 U	3.0 U	2.8 U	3.6 U
Cyclohexane	**4.8**	6.2 U	8.3 U	2.5 U	1.6 U	**130**	**3.4**	**0.31 J**	**0.53 J**	0.69 U	0.69 U	**154.9**	**5.9**	2.4 U	12.4 U	2.5 U	**0.45 J**	1.4 U	**67 J**
Decane, n-	NA	NA	NA	NA	**1.1 J**	**18**	2.6 U	1.2 U	1.2 U	**61**	**1.1 J**	NA	NA	NA	NA	NA	2.5 U	**9.2**	**1.5 J**
Dibromochloromethane	6.8 U	15.3 U	20.4 U	6.3 U	3.9 U	3.4 U	3.8 U	1.7 U	1.7 U	1.7 U	1.7 U	6 U	6.6 U	6 U	30.7 U	6.1 U	3.7 U	3.4 U	4.3 U
Dibromoethane, 1,2-	6.1 U	13.8 U	18.4 U	5.7 U	3.5 U	3.1 U	3.4 U	1.5 U	1.5 U	1.5 U	1.5 U	5.4 U	6 U	5.4 U	27.7 U	5.5 U	3.3 U	3.1 U	3.9 U
Dichlorobenzene, 1,2-	4.8 U	10.8 U	14.4 U	4.4 U	2.7 U	2.4 U	2.7 U	1.2 U	1.2 U	1.2 U	1.2 U	4.2 U	4.7 U	4.2 U	21.6 U	4.3 U	2.6 U	2.4 U	3 U
Dichlorobenzene, 1,3-	4.8 U	10.8 U	14.4 U	4.4 U	2.7 U	2.4 U	2.7 U	1.2 U	1.2 U	**5.5**	1.2 U	4.2 U	**36.1**	4.2 U	21.6 U	4.3 U	2.6 U	**3.3**	3 U
Dichlorobenzene, 1,4-	4.8 U	10.8 U	14.4 U	4.4 U	2.7 UJ	**5.1**	**2.3 J**	**0.54 J**	**0.85 J**	**0.48 J**	1.2 U	4.2 U	4.7 U	4.2 U	21.6 U	4.3 U	2.6 UJ	2.4 U	3 U
Dichlorodifluoromethane	4 U	8.9 U	11.9 U	**6.4**	**5.3**	**3.4**	**5.2**	**5.9**	**2.9**	**4.6**	**5.6**	3.5 U	3.9 U	3.5 U	17.8 U	3.6 U	**2.6**	**2.7**	**2.3 J**
Dichloroethane, 1,1-	3.2 U	7.3 U	9.7 U	3 U	1.8 U	1.6 U	1.8 U	0.81 U	0.81 U	0.81 U	0.81 U	2.8 U	3.2 U	2.8 U	14.6 U	2.9 U	1.8 U	1.6 U	2 U
Dichloroethane, 1,2-	3.2 U	7.3 U	9.7 U	3 U	1.8 U	1.6 U	1.8 U	0.81 U	0.81 U	0.81 U	0.81 U	2.8 U	3.2 U	2.8 U	14.6 U	2.9 U	1.8 U	1.6 U	2 U
Dichloroethene, cis-1,2-	3.2 U	7.1 U	9.5 U	2.9 U	1.8 U	1.6 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U	2.8 U	3.1 U	2.8 U	14.3 U	2.9 U	1.7 U	1.6 U	2 U
Dichloroethene, 1,1-	3.2 U	7.1 U	9.5 U	2.9 U	1.8 U	1.6 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U	2.8 U	3.1 U	2.8 U	14.3 U	2.9 U	1.7 U	1.6 U	2 U
Dichloropropane, 1,2-	3.7 U	8.3 U	11.1 U	3.4 U	2.1 U	1.9 U	2.0 U	0.92 U	0.92 U	0.92 U	0.92 U	3.2 U	3.6 U	3.2 U	16.6 U	3.3 U	2.0 U	1.9 U	2.4 U
Dichloropropene, cis-1,3	3.6 U	8.2 U	10.9 U	3.4 U	2.1 U	1.8 U	2.0 U	0.91 U	0.91 U	0.91 U	0.91 U	3.2 U	3.5 U	3.2 U	16.3 U	3.3 U	2.0 U	1.8 U	2.3 U
Dichloropropene, trans-1,3	3.6 U	8.2 U	10.9 U	3.4 U	2.1 U	1.8 U	2.0 U	0.91 U	0.91 U	0.91 U	0.91 U	3.2 U	3.5 U	3.2 U	16.3 U	3.3 U	2.0 U	1.8 U	2.3 U
Dioxane, 1,4-	11.5 U	25.9 U	35 U	10.8 U	4.1 U	1.4 U	1.6 UJ	1.8 U	0.72 U	0.72 U	0.72 U	10.1 U	11.2 U	10.1 U	50.4 U	10.5 U	3.9 U	1.4 U	1.8 U
Dodecane, n-	NA	NA	NA	NA	**1.6 J**	**13**	**2.0 J**	**0.56 J**	**0.68 J**	**37 J**	**5.4**	NA	NA	NA	NA	NA	3.0 U	**16**	**8**
Ethanol	**20.7**	**54.6**	18.3 U	**43.3**	**31**	**6.3**	**35**	2.7 U	**30**	**2.4**	**1.6 J**	**75.4**	**866.7 EJ**	**17.1**	**32**	**35.8**	**22**	**5.1**	**37 J**
Ethylthiophene, 2-	NA	NA	NA	NA	2.1 U	1.8 U	2.0 U	0.92 U	0.92 U	0.92 U	0.92 U	NA	NA	NA	NA	NA	2.0 U	1.8 U	2.3 U
Ethyltoluene, p-	**42.8**	8.8 U	11.8 U	**43.3**	**0.56 J**	**3.2**	2.2 U	0.98 U	0.98 U	**0.49 J**	0.98 U	3.4 U	**31.5**	3.4 U	17.7 U	**33.9**	2.1 U	2 U	2.5 U
Heptane, n-	**9.8**	**9**	9.8 U	**14.3**	1.9 U	**4.7**	1.8 U	0.82 U	0.82 UJ	**1.2 J**	0.82 U	**180.3**	**14.3**	2.9 U	14.8 U	**9.4**	**0.53 J**	1.6 U	**0.96 J**
Hexachlorobutadiene	34.1 U	76.8 U	103.5 U	32 UJ	4.8 UJ	4.3 U	4.7 U	2.1 U	2.1 U	2.1 U	2.1 U	29.9 U	33.1 U	29.9 U	149.3 U	30.9 U	4.6 UJ	4.3 U	5.4 U
Hexane, n-	**9.5**	**13.4**	8.5 U	**14.8**	**1.8**	**76**	**4.5**	0.70 U	0.70 U	0.70 U	0.70 U	**3.1 J**	**9.5**	2.5 U	12.7 U	**8.8**	**1.8**	**1.8**	**66 J**
Hexanone, 2-	13.1 U	29.5 U	39.7 U	12.3 U	4.6 U	1.6 U	**0.54 J**	0.82 U	0.82 U	0.82 U	0.82 U	11.5 U	12.7 U	11.5 U	57.4 U	11.9 U	4.4 U	1.6 U	**0.73 J**
Indan	NA	NA	NA	14.5 U	**0.66 J**	**1.9 J**	2.1 U	0.97 U	0.97 U	**0.72 J**	0.97 U	NA	NA	NA	NA	14 U	**0.73 J**	1.9 U	2.4 U
Indene	NA	NA	NA	14.3 U	2.2 U	1.9 U	2.1 U	0.95 U	0.95 U	0.95 U	0.95 U	NA	NA	NA	NA	13.8 U	2.1 U	1.9 U	**0.72 J**
Isopropyl benzene	3.9 U	8.8 U	11.8 U	3.6 U	NA	NA	NA	NA	NA	NA	NA	3.4 U	3.8 U	3.4 U	17.7 U	3.5 U	NA	NA	NA
Methyl tert-butyl ether	**15.1**	6.5 U	8.7 U	2.7 U	1.6 U	1.4 U	1.6 U	0.72 U	0.72 U	0.72 U	0.72 U	2.5 U	**17.3**	2.5 U	13 U	2.6 U	1.6 U	1.4 U	1.8 U
Methyl-2-pentanone, 4-	3.3 U	7.4 U	9.8 U	3 U	1.9 U	**2.9**	1.8 U	0.82 U	0.82 U	0.82 U	0.82 U	2.9 U	**8.2**	2.9 U	14.7 U	2.9 U	**0.53 J**	**0.9 J**	2.1 U
Methylene chloride	2.8 U	6.3 U	**55.6**	2.6 U	**30**	**21**	**10**	0.94 U	1.7 U	1.7 U	3.1 U	2.4 U	2.7 U	2.4 U	12.5 U	2.5 U	**3.9 J**	**21**	**12 J**
Methylnaphthalene, 1-	NA	NA	NA	NA	33 U	**1.3 J**	13 U	14 UJ	1.2 UJ	2.9 UJ	1.2 U	NA	NA	NA	NA	NA	32 U	29 U	**1.2 J**
Methylnaphthalene, 2-	NA	NA	NA	NA	33 U	**2.3 J**	32 U	14 U	1.2 UJ	2.9 UJ	1.2 U	NA	NA	NA	NA	NA	32 U	12 U	37 UJ
Methylthiophene, 2-	NA	NA	NA	NA	1.8 U	1.6 U	1.8 U	0.80 U	0.80 U	0.80 U	0.80 U	NA	NA	NA	NA	NA	1.7 U	1.6 U	2 U
Methylthiophene, 3-	NA	NA	NA	NA	1.8 U	1.6 U	1.8 U	0.80 U	0.80 U	0.80 U	0.80 U	NA	NA	NA	NA	NA	1.7 U	1.6 U	2 U
Naphthalene	16.8 U	37.7 U	50.8 UJ	15.7 U	5.9 U	**4**	**1.4 J**	1.0 U	1.0 U	**1.0**	**2.2**	14.7 U	16.3 U	14.7 U	73.4 UJ	15.2 U	5.7 U	2.1 U	**2.2 J**
Nonane	NA	NA	NA	NA	**1.2 J**	**8.4**	2.3 U	1.0 U	1.0 U	**1.2**	1.0 U	NA	NA	NA	NA	NA	**0.91 J**	**1.7 J**	2.7 U

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG07	OU2SG07	OU2SG07	OU2SG07	OU2SG07	OU2SG07	OU2SG07	OU2G07	OU2SG07	OU2SG07	OU2SG07	OU2SG08	OU2SG08	OU2SG08	OU2SG08	OU2SG08	OU2SG08	OU2SG08	OU2SG08
Sample Date:	8/30/2005	2/1/2006	6/14/2006	9/7/2006	2/21/2007	5/24/2007	9/12/2007	12/19/2007	4/3/2008	6/24/2008	9/19/2008	5/25/2005	8/31/2005	2/2/2006	6/15/2006	9/8/2006	2/21/2007	5/24/2007	7/25/2007
Other VOCs Continued (ug/m3																			
Octane, n-	NA	NA	NA	NA	**0.53 J**	**1.8 J**	2.1 U	0.93 U	0.93 U	**240**	**0.75 J**	NA	NA	NA	NA	NA	**0.61 J**	1.9 U	2.4 U
Pentane	NA	NA	NA	NA	1.3 U	1.2 U	1.3 U	**1.5**	0.59 U	**0.35 J**	0.59 U	NA	NA	NA	NA	NA	**0.51 J**	1.2 U	**0.76 J**
Propanol, 2-	7.9 U	17.7 U	23.8 U	7.4 U	**1.7**	**1.9 J**	**1.2**	**2.0 J**	**0.40 J**	1.2 UJ	0.49 U	**7.1 J**	**712.8**	6.9 U	34.4 U	7.1 U	**1.8**	**7.2**	**2.6 J**
Propylbenzene, n-	**8.4**	8.8 U	11.8 U	**10.3**	NA	NA	NA	NA	NA	NA	NA	3.4 U	**6.4**	3.4 U	17.7 U	**8.4**	NA	NA	NA
Styrene	**4**	7.7 U	10.2 U	3.2 U	1.9 U	**1.1 J**	1.9 U	0.85 U	0.85 U	**0.55 J**	0.85 U	3 U	**4**	3 U	15.3 U	3.1 U	1.8 U	**4**	2.2 U
t-Butyl alcohol	NA	NA	NA	NA	1.4 U	**0.85 J**	**0.80 J**	0.61 U	0.61 U	**1.8**	0.61 U	NA	NA	NA	NA	NA	1.3 U	1.2 U	**1.9 J**
Tetrachloroethane, 1,1,2,2-	5.5 U	12.4 U	16.5 U	5.1 U	3.1 U	2.8 U	3.0 U	1.4 U	1.4 U	1.4 U	1.4 U	4.8 U	5.4 U	4.8 U	24.7 U	4.9 U	3.0 U	2.8 U	3.5 U
Tetrachloroethene	**29.2**	**27.8**	**23.1**	**39.3**	**4.6**	**26**	**35**	**4.7**	**7.4**	**30**	**34**	**14.9**	**19.7**	4.7 U	24.4 U	**18.3**	2.9 U	**3.5**	**2.2 J**
Tetrahydrofuran	2.4 U	5.3 U	7.1 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	2.1 U	**5.9**	2.1 U	10.6 U	2.1 U	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	NA	NA	NA	NA	2.5 U	**10 J**	**3.4 J**	1.1 U	**0.28 J**	**2.9 J**	**2.4**	NA	NA	NA	NA	NA	2.4 U	11 U	**3.2 J**
Thiophene	NA	NA	NA	NA	1.6 U	1.4 U	1.5 UJ	0.69 U	0.69 U	0.69 U	0.69 U	NA	NA	NA	NA	NA	1.5 U	1.4 U	1.8 U
Trans-1,2-dichloroethene	3.2 U	7.1 U	9.5 U	2.9 U	1.8 U	1.6 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U	2.8 U	3.1 U	2.8 U	14.3 U	2.9 U	1.7 U	1.6 U	2 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	6.1 U	13.8 U	18.4 U	5.7 U	3.5 U	3.1 U	3.4 U	**0.46 J**	**0.48 J**	**0.61 J**	**0.61 J**	5.4 U	6 U	5.4 U	27.6 U	5.5 U	3.3 U	3.1 U	3.9 U
Trichlorobenzene, 1,2,4-	23.7 U	53.4 U	72 U	22.3 UJ	3.4 UJ	3 U	3.3 U	1.5 U	1.5 U	1.5 U	**1.0 J**	20.8 U	23 U	20.8 U	103.9 U	21.5 U	3.2 UJ	3 U	3.8 U
Trichloroethane, 1,1,1-	4.4 U	9.8 U	13.1 U	4 U	2.5 U	2.2 UJ	2.4 U	1.1 U	1.1 U	1.1 U	1.1 U	3.8 U	4.3 U	3.8 U	19.6 U	3.9 U	2.4 U	2.2 UJ	2.8 U
Trichloroethane, 1,1,2-	4.4 U	9.8 U	13.1 U	4 U	2.5 U	2.2 U	2.4 U	1.1 U	1.1 U	1.1 U	1.1 U	3.8 U	4.3 U	3.8 U	19.6 U	3.9 U	2.4 U	2.2 U	2.8 U
Trichloroethene	4.3 U	9.7 U	12.9 U	4 U	2.4 U	2.2 U	2.4 U	1.1 U	1.1 U	**0.59 J**	**0.64 J**	3.8 U	4.2 U	3.8 U	19.3 U	3.9 U	2.3 U	2.2 U	2.7 U
Trichlorofluoromethane	4.5 U	10.1 U	13.5 U	4.2 U	**1.7 J**	**1.6 J**	**1.5 J**	**1.5**	**1.7**	**1.7**	**1.5**	3.9 U	4.4 U	3.9 U	20.2 U	4 U	**1.3 J**	**1.7 J**	**1.5 J**
Trimethylbenzene, 1,2,3-	NA	NA	NA	NA	**1.7 J**	**4.3**	2.2 U	0.98 U	0.98 U	**3.3**	**0.44 J**	NA	NA	NA	NA	NA	**1.3 J**	2 U	**1 J**
Trimethylbenzene, 1,2,4-	**40.3**	8.8 U	11.8 U	**54.1 J**	**3.5**	**16 J**	2.2 U	0.98 U	0.98 U	**0.84 J**	**0.34 J**	3.4 U	**29**	3.4 U	17.7 U	**38.8**	**2.6**	**3.5 J**	**0.72 J**
Trimethylbenzene, 1,3,5-	**14.3**	8.8 U	11.8 U	**12.8**	**1.1 J**	**4.1**	2.2 U	0.98 U	0.98 U	**1.6**	0.98 U	3.4 U	**10.8**	3.4 UJ	17.7 U	**9.8**	**0.75 J**	2 U	2.5 U
Trimethylpentane, 2,2,4-	**10.7**	**1775.4**	**2429.4**	**1308.2**	2.1 U	1.9 U	2.1 U	0.93 U	0.93 UJ	0.93 U	0.93 U	3.3 U	**15**	**214.9**	**4391.7**	**934.4**	**0.51 J**	1.9 U	2.4 U
Undecane, n-	NA	NA	NA	NA	**1.0 J**	**20**	2.8 U	**0.51 J**	1.3 U	**11**	**4.2**	NA	NA	NA	NA	NA	2.8 U	**4.6**	3.2 U
Vinyl bromide	NA	NA	NA	NA	2.0 U	1.8 U	1.9 U	0.87 U	0.87 U	0.87 U	0.87 U	NA	NA	NA	NA	NA	1.9 U	1.8 U	2.2 U
Vinyl chloride	2 U	4.6 U	6.1 U	1.9 U	1.2 U	1 U	1.1 U	0.51 U	0.51 U	0.51 U	0.51 U	1.8 U	2 U	1.8 U	9.2 U	1.8 U	1.1 U	1 U	1.3 U
Other (%)																			
Helium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	NA	NA	NA	NA	NA	NA	NA	NA

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name: / Sample Date:	OU2SG08 9/12/2007	OU2SG08 12/19/2007	OU2SG08 3/27/2008	OU2SG08 6/18/2008	OU2SG08 9/16/2008	OU2SG09 5/25/2005	OU2SG09 8/31/2005	OU2SG09 2/2/2006	OU2SG09 6/15/2006	OU2SG09 9/8/2006	OU2SG09 2/21/2007	Duplicate of OU2SG09 2/21/2007	OU2SG09 5/24/2007	OU2SG09 7/25/2007	OU2SG09 9/12/2007	OU2SG09 12/19/2007	OU2SG09 3/27/2008	OU2SG09 6/18/2008	OU2SG09 9/16/2008
BTEX (ug/m3)																			
Benzene	1.6 U	0.64 U	0.64 U	0.64 UJ	0.64 U	2.2 U	**5.8**	**3.1**	10.2 U	**10.2**	1.4 UJ	0.74 UJ	1.3 U	1.8 UJ	1.4 U	0.64 U	0.64 U	0.64 UJ	0.64 U
Ethylbenzene	2.2 U	0.87 U	0.87 U	0.87 U	0.87 U	3 U	**20.4**	**6.5**	13.9 U	**21.7**	**1.2 J**	1.1 U	**3.2**	2.5 U	1.9 U	0.87 U	0.87 U	0.87 U	0.87 U
Toluene	**3.1**	**1.7**	**0.85**	**2.5**	**0.98**	**10.6**	**82.9**	**14.3**	**37.7**	**105.5**	**3.7 J**	4.1 UJ	**120**	**32**	**5.2**	**8.7**	**1.2**	**2.4**	**1.5**
Xylene, m,p-	4.3 U	1.7 U	**0.22 J**	1.7 U	1.7 U	**4.2**	**78.2**	**10.4**	**22.1**	**78.2**	**3.9 J**	3.2 UJ	**7.5**	**0.92 J**	3.8 U	**0.26 J**	1.7 U	1.7 U	1.7 U
Xylene, o-	2.2 U	0.87 U	0.87 U	0.87 U	0.87 U	3 U	**30.4**	**4.3**	13.9 U	**22.1**	**1.4 J**	1.3 U	**5**	2.5 U	1.9 U	0.87 U	0.87 U	0.87 U	0.87 U
Other VOCs (ug/m3)																			
Acetaldehyde	**97**	2.7 U	4.5 U	**9.8**	**3.8 J**	NA	NA	NA	NA	NA	0.82 UJ	0.41 UJ	**87 J**	**92**	**54**	2.2 U	4.5 U	**8.7**	**3.8 J**
Acetone	**13**	0.90 U	2.1 U	**2.5**	**1.1**	**52.3**	**285.1**	**42.8**	**356.3**	**109.3**	**16**	14 U	**14 J**	**23 J**	**9.1**	1.1 U	1.4 U	**4.0**	**1.1**
Acrolein (propenal)	1.2 U	0.46 U	1.2 U	**0.18 J**	0.46 U	NA	NA	NA	NA	NA	1.0 U	0.52 UJ	2.3 U	1.3 U	1.0 U	0.46 U	1.2 U	**0.27 J**	0.46 U
Allyl chloride	1.6 U	0.63 U	0.63 U	0.63 U	0.63 U	8.8 U	10 U	9.4 U	40.7 U	10 U	1.4 U	0.71 U	1.3 U	1.8 U	1.4 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzothiophene	34 U	1.1 U	1.1 U	1.1 U	1.1 U	NA	NA	NA	NA	NA	12 UJ	6.2 U	5.6 U	3.1 U	30 U	1.1 U	1.1 U	1.1 U	1.1 U
Bromodichloromethane	3.4 U	1.3 U	1.3 U	1.3 U	1.3 U	4.7 U	5.3 U	5.1 U	21.4 U	5.4 U	3.0 U	1.5 U	2.7 U	3.8 U	3.0 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	5.2 U	2.1 U	2.1 U	2.1 U	2.1 U	7.2 U	8.2 U	7.9 U	33.1 U	8.3 U	4.7 U	2.4 UJ	4.2 U	5.8 U	4.6 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	1.9 U	0.78 U	0.78 U	0.78 U	0.78 U	2.7 U	3.1 U	3 U	12.4 U	3.1 U	1.8 U	0.88 U	1.6 U	2.2 U	1.7 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	1.1 U	0.44 U	0.44 U	0.44 U	0.44 U	1.5 U	1.7 U	**2.7**	7.1 U	1.8 U	1.0 U	0.50 U	0.9 U	1.2 U	0.98 U	0.44 U	0.44 U	0.44 U	0.44 U
Butane	**0.36 J**	0.48 U	**0.97**	0.48 U	0.48 U	NA	NA	NA	NA	NA	1.1 UJ	0.68 UJ	0.96 U	1.3 U	1.0 U	0.48 U	0.48 U	0.48 U	0.48 U
Butanone, 2-	**4.5**	0.59 U	1.5 U	**0.44 J**	0.59 U	**4.4**	**22.7**	**5.6 J**	**20.3**	**8.6**	**1.5 J**	1.7 U	**2.4**	**6.4**	**2.3**	0.59 U	1.5 U	**0.80**	0.59 U
Carbon disulfide	1.6 U	**0.22 J**	0.62 U	0.62 U	0.62 U	**2.8**	**3.4**	2.4 U	10 U	**2.5**	1.4 U	0.71 U	**2.8 J**	**15**	**7.8**	**0.37 J**	**0.68**	**6.9**	**4.6**
Carbon tetrachloride	3.1 U	1.3 U	1.3 U	1.3 U	1.3 U	4.4 U	5 U	4.8 U	20.1 U	5 U	2.8 U	1.4 U	2.6 UJ	3.6 UJ	2.8 U	1.3 U	1.3 U	1.3 U	1.3 U
Chlorobenzene	2.3 U	0.92 U	0.92 U	0.92 U	0.92 U	3.2 U	3.6 U	3.5 U	14.7 U	3.7 U	2.1 U	1.0 U	1.9 U	2.6 U	2.0 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	1.3 U	0.53 U	0.53 U	0.53 U	0.53 U	1.8 U	2.1 U	2 U	8.4 U	2.1 U	1.2 U	0.60 U	1.1 U	1.5 U	1.2 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	**1.7 J**	**0.39 J**	**0.62 J**	**1.7**	**1.7**	3.4 U	3.9 U	3.7 U	15.6 U	3.9 U	2.2 U	**0.44 J**	**2.5**	**2.9**	**2.7**	**0.49 J**	**1.2**	**3.3**	**2.9**
Chloromethane	1.0 U	0.41 U	0.41 U	**0.12 J**	0.41 U	5.8 U	6.6 U	6.2 U	26.8 U	6.6 U	0.94 U	0.47 UJ	0.84 U	**0.55 J**	0.91 U	0.41 U	0.41 U	**0.14 J**	0.41 U
Chlorotoluene, 2-	2.6 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	2.4 U	1.2 U	2.1 U	2.9 U	2.3 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	3.5 U	1.4 U	1.4 U	1.4 U	1.4 U	4.9 U	5.5 U	5.3 U	22.4 U	5.6 U	3.2 U	1.6 U	2.8 U	4 U	3.1 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	**2.1**	0.69 U	0.69 U	0.69 U	0.69 U	**130.8**	**5.9**	2.6 U	11 U	2.8 U	1.6 U	0.79 U	**36**	**3.1**	**0.68 J**	**1.4**	**0.25 J**	**0.28 J**	**0.17 J**
Decane, n-	2.9 U	1.2 U	**0.55 J**	**0.76 J**	1.2 U	NA	NA	NA	NA	NA	2.6 UJ	1.3 U	**14**	**5.2**	2.6 U	1.2 U	1.2 U	**0.64 J**	**0.76 J**
Dibromochloromethane	4.3 U	1.7 U	1.7 U	1.7 U	1.7 U	6 U	6.7 U	6.5 U	27.3 U	6.8 U	3.9 U	1.9 U	3.5 U	4.8 U	3.8 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	3.8 U	1.5 U	1.5 U	1.5 U	1.5 U	5.4 U	6.1 U	5.8 U	24.6 U	6.1 U	3.5 U	1.8 U	3.1 U	4.4 U	3.4 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	3.0 U	1.2 U	1.2 U	1.2 U	1.2 U	4.2 U	4.7 U	4.6 U	19.2 U	4.8 U	2.7 U	1.4 U	2.4 U	3.4 U	2.7 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	3.0 U	1.2 U	1.2 U	1.2 U	1.2 U	4.2 U	**72.1**	4.6 U	19.2 U	4.8 U	2.7 U	1.4 U	2.4 U	3.4 U	2.7 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	3.0 U	1.2 U	1.2 U	**0.84 J**	**0.66 J**	4.2 U	4.7 U	4.6 U	19.2 U	4.8 U	2.7 UJ	1.4 U	**2.2 J**	**1.2 J**	2.7 U	1.2 U	1.2 U	1.2 U	**0.30 J**
Dichlorodifluoromethane	**2.8**	**2.6**	**2.0**	**2.1**	**2.7**	3.5 U	3.9 U	3.8 U	15.8 U	4 U	**3.0**	2.6 U	**2.6**	**2.8 J**	**3.0**	**2.6**	**2.1**	**2.5**	**2.9**
Dichloroethane, 1,1-	2.0 U	0.81 U	0.81 U	0.81 U	0.81 U	2.8 U	3.2 U	3.1 U	13 U	3.2 U	1.8 U	0.92 U	1.6 U	2.3 U	1.8 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	2.0 U	0.81 U	0.81 U	0.81 U	0.81 U	2.8 U	3.2 U	3.1 U	13 U	3.2 U	1.8 U	0.92 U	1.6 U	2.3 U	1.8 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethene, cis-1,2-	2.0 U	0.79 U	0.79 U	0.79 U	0.79 U	2.8 U	3.1 U	3 U	12.7 U	3.2 U	1.8 U	0.90 U	1.6 U	2.2 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloroethene, 1,1-	2.0 U	0.79 U	0.79 U	0.79 U	0.79 U	2.8 U	3.1 U	3 U	12.7 U	3.2 U	1.8 U	0.90 U	1.6 U	2.2 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	2.3 U	0.92 U	0.92 U	0.92 U	0.92 U	3.2 U	3.7 U	3.5 U	14.8 U	3.7 U	2.1 U	1.0 U	1.9 U	2.6 U	2.0 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	2.3 U	0.91 U	0.91 U	0.91 U	0.91 U	3.2 U	3.6 U	3.4 U	14.5 U	3.6 U	2.1 U	1.0 U	1.8 U	2.6 U	2.0 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	2.3 U	0.91 U	0.91 U	0.91 U	0.91 U	3.2 U	3.6 U	3.4 U	14.5 U	3.6 U	2.1 U	1.0 U	1.8 U	2.6 U	2.0 U	0.91 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	1.8 UJ	1.8 U	0.72 U	0.72 U	0.72 U	10.1 U	11.5 U	10.8 U	46.8 U	11.5 U	4.1 U	**0.62 J**	1.5 U	2 U	1.6 U	1.8 U	0.72 U	0.72 U	0.72 U
Dodecane, n-	**0.87 J**	**0.49 J**	**0.45 J**	**3.1 J**	**3.3**	NA	NA	NA	NA	NA	**2.4 J**	1.5 U	**29**	**16**	**1.1 J**	**0.56 J**	1.4 U	**2.1 J**	**2.1**
Ethanol	**39**	2.4 U	**1.2 J**	**1.2 J**	**1.1 J**	**96.1**	**829 EJ**	**20.7**	**52.8**	**37.7**	**18 J**	18 U	**3 J**	**34**	**21**	2.5 U	**0.84 J**	**1.6 J**	**1.0 J**
Ethylthiophene, 2-	2.3 U	0.92 U	0.92 U	0.92 U	0.92 U	NA	NA	NA	NA	NA	2.1 U	1.0 U	1.9 U	2.6 U	2.0 U	0.92 U	0.92 U	0.92 U	0.92 U
Ethyltoluene, p-	2.5 U	0.98 U	0.98 U	0.98 U	0.98 U	3.4 U	**27.5**	3.7 U	15.7 U	**31**	2.2 UJ	1.1 U	2 U	2.8 U	2.2 U	0.98 U	0.98 U	0.98 U	0.98 U
Heptane, n-	2.0 U	0.82 U	**0.45 J**	0.82 U	0.82 U	**135.2**	**10.2**	3.1 U	13.1 U	**9**	1.9 U	0.94 UJ	1.7 U	2.3 U	1.8 U	0.82 U	0.82 U	0.82 U	0.82 U
Hexachlorobutadiene	5.3 U	2.1 U	2.1 U	2.1 U	2.1 U	29.9 U	34.1 U	32 U	138.6 U	34.1 U	4.8 UJ	2.4 U	4.3 U	6 U	4.7 U	2.1 U	2.1 U	2.1 U	2.1 U
Hexane, n-	**6.2**	0.70 U	**0.46 J**	0.70 U	0.70 U	2.5 U	**9.2**	2.7 U	11.3 U	**8.8**	**1.3 J**	2.3 UJ	**1.8**	**3.8**	**4.9**	0.70 U	0.70 U	0.70 U	0.70 U
Hexanone, 2-	2.0 U	0.82 U	0.82 U	0.82 U	0.82 U	11.5 U	13.1 U	12.3 U	53.3 U	13.1 U	4.6 U	2.3 U	1.7 U	**0.75 J**	1.8 U	0.82 U	0.82 U	0.82 U	0.82 U
Indan	2.4 U	0.97 U	0.97 U	0.97 U	0.97 U	NA	NA	NA	NA	15.5 U	**0.55 J**	1.1 U	2 U	2.7 U	2.1 U	0.97 U	0.97 U	0.97 U	0.97 U
Indene	2.4 U	0.95 U	0.95 U	0.95 U	0.95 U	NA	NA	NA	NA	15.2 U	2.2 U	1.1 U	1.9 U	2.7 U	2.1 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	3.4 U	3.9 U	3.7 U	15.7 U	3.9 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	1.8 U	0.72 U	0.72 U	0.72 U	0.72 U	2.5 U	**21.6**	2.7 U	11.5 U	2.9 U	1.6 U	0.82 U	1.5 U	2 U	1.6 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	2.0 U	0.82 U	0.82 U	0.82 U	0.82 U	2.9 U	**7.4**	3.1 U	13.1 U	3.3 U	1.9 UJ	0.94 U	1.7 U	2.3 U	1.8 U	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	**14**	0.87 U	**0.27 J**	1.7 U	0.69 U	2.4 U	2.7 U	2.6 U	11.1 U	2.8 U	**31 J**	9.8 U	**29**	**13**	**12**	0.69 U	**0.32 J**	1.7 U	2.1 U
Methylnaphthalene, 1-	14 U	14 UJ	1.2 U	2.9 U	1.2 U	NA	NA	NA	NA	NA	33 U	17 U	30 U	3.3 U	13 U	14 UJ	1.2 U	2.9 U	1.2 U
Methylnaphthalene, 2-	36 U	14 U	1.2 U	2.9 UJ	1.2 U	NA	NA	NA	NA	NA	33 U	17 UJ	12 U	41 U	32 U	14 U	1.2 U	2.9 UJ	1.2 U
Methylthiophene, 2-	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	NA	NA	NA	NA	NA	1.8 U	0.92 U	1.6 U	2.3 U	1.8 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	2.0 U	0.80 U	0.80 U	0.80 U	0.80 U	NA	NA	NA	NA	NA	1.8 U	0.92 U	1.6 U	2.3 U	1.8 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	2.6 U	1.0 U	1.0 U	**0.26 J**	1.0 U	14.7 U	16.8 U	15.7 U	68.1 UJ	16.8 U	5.9 UJ	3.0 U	**1.2 J**	**1.5 J**	2.3 U	1.0 U	1.0 U	1.0 U	1.0 U
Nonane	2.6 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	**0.71 J**	1.2 U	2.1 U	**2 J**	2.3 U	1.0 U	1.0 U	1.0 U	1.0 U

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG08	OU2SG08	OU2SG08	OU2SG08	OU2SG08	OU2SG09	OU2SG09	OU2SG09	OU2SG09	OU2SG09	OU2SG09	Duplicate of OU2SG09	OU2SG09	OU2SG09	OU2SG09	OU2SG09	OU2SG09	OU2SG09	OU2SG09
Sample Date:	9/12/2007	12/19/2007	3/27/2008	6/18/2008	9/16/2008	5/25/2005	8/31/2005	2/2/2006	6/15/2006	9/8/2006	2/21/2007	2/21/2007	5/24/2007	7/25/2007	9/12/2007	12/19/2007	3/27/2008	6/18/2008	9/16/2008
Other VOCs Continued (ug/m3																			
Octane, n-	2.3 U	0.93 U	0.93 U	**2.8**	**0.51 J**	NA	NA	NA	NA	NA	**0.53 J**	1.1 U	1.9 U	2.6 U	2.1 U	0.93 U	0.93 U	**1.3**	**1.3**
Pentane	1.5 U	0.59 U	**0.79**	0.59 U	0.59 U	NA	NA	NA	NA	NA	1.3 UJ	3.6 UJ	1.2 U	1.7 U	1.3 U	0.59 U	0.59 U	0.59 U	0.59 U
Propanol, 2-	**1.7**	0.49 U	**0.39 J**	1.2 UJ	0.49 U	**8.8 J**	**786.5 EJ**	7.4 U	32 U	7.9 U	**1.8 J**	2.6 UJ	**1.3 J**	**2.5 J**	1.1 U	0.49 U	**0.27 J**	1.2 UJ	0.49 U
Propylbenzene, n-	NA	NA	NA	NA	NA	3.4 U	**5.4**	3.7 U	15.7 U	**7.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	2.1 U	0.85 U	0.85 U	0.85 U	0.85 U	3 U	**4**	3.2 U	13.6 U	3.4 U	1.9 UJ	0.97 U	1.7 U	2.4 U	1.9 U	0.85 U	0.85 U	0.85 U	0.85 U
t-Butyl alcohol	**1.2 J**	0.61 U	0.61 U	0.61 U	0.61 U	NA	NA	NA	NA	NA	1.4 U	0.69 U	1.2 U	**3.8**	**1.0 J**	0.61 U	0.61 U	0.61 U	0.61 U
Tetrachloroethane, 1,1,2,2-	3.4 U	1.4 U	1.4 U	1.4 U	1.4 U	4.8 U	5.4 U	5.2 U	22 U	5.5 U	3.1 U	1.6 U	2.8 U	3.9 U	3.0 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	**1.0 J**	1.4 U	1.4 U	**0.68 J**	**0.68 J**	**10.2**	**29.8**	**5.2**	**29.2**	**14.9**	3.1 U	1.5 U	2.8 U	3.8 U	3.0 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrahydrofuran	NA	NA	NA	NA	NA	2.1 U	**7.1**	2.2 U	9.4 U	2.4 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	34 U	1.1 U	1.1 U	1.1 U	1.1 U	NA	NA	NA	NA	NA	2.5 U	1.2 U	**3.2 J**	**1.9 J**	30 U	1.1 U	1.1 U	1.1 U	1.1 U
Thiophene	1.7 UJ	0.69 U	0.69 U	0.69 U	0.69 U	NA	NA	NA	NA	NA	1.6 U	0.78 U	1.4 U	2 UJ	1.5 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	2.0 U	0.79 U	0.79 U	0.79 U	0.79 U	2.8 U	3.1 U	3 U	12.7 U	3.2 U	1.8 U	0.90 U	1.6 U	2.2 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	3.8 U	**0.46 J**	1.5 U	**0.69 J**	**0.61 J**	5.4 U	6.1 U	5.8 U	24.5 U	6.1 U	3.5 UJ	1.8 U	3.1 U	4.3 U	3.4 U	1.5 U	**0.57 J**	**0.61 J**	**0.61 J**
Trichlorobenzene, 1,2,4-	3.7 U	1.5 U	1.5 U	1.5 U	1.5 U	20.8 U	23.7 U	22.3 U	96.5 U	23.7 U	3.4 UJ	1.7 U	3 U	4.2 U	3.3 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	2.7 U	1.1 U	1.1 U	1.1 U	1.1 U	3.8 U	4.3 U	4.1 U	17.5 U	4.4 U	2.5 U	1.2 U	2.2 UJ	3.1 U	2.4 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	2.7 U	1.1 U	1.1 U	1.1 U	1.1 U	3.8 U	4.3 U	4.1 U	17.5 U	4.4 U	2.5 U	1.2 U	2.2 U	3.1 U	2.4 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	2.7 U	1.1 U	1.1 U	1.1 U	1.1 U	3.8 U	4.2 U	4.1 U	17.2 U	4.3 U	2.4 U	1.2 U	2.2 U	3 U	2.4 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	**1.5 J**	**1.1**	**1.1 J**	**1.5**	**1.4**	3.9 U	4.4 U	4.3 U	18 U	4.5 U	**1.3 J**	1.3 U	2.3 U	**1.3 J**	**1.5 J**	**0.90 J**	**1.2**	**1.3**	**1.4**
Trimethylbenzene, 1,2,3-	2.5 U	0.98 U	0.98 U	0.98 U	0.98 U	NA	NA	NA	NA	NA	**1.0 J**	1.1 U	**1.4 J**	2.8 U	2.2 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,2,4-	2.5 U	0.98 U	0.98 U	0.98 U	0.98 U	3.4 U	**30**	3.7 U	15.7 U	**34.9**	**1.9 J**	1.6 U	**4.7 J**	2.8 U	2.2 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,3,5-	2.5 U	0.98 U	0.98 U	0.98 U	0.98 U	3.4 U	**10.8**	3.7 UJ	15.7 U	**8.8**	2.2 UJ	1.1 U	2 U	2.8 U	2.2 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	2.3 U	0.93 U	0.93 U	0.93 U	0.93 U	3.3 U	**16.8**	**387.8**	**4017.9**	**887.7**	2.1 UJ	1.1 U	1.9 U	2.6 U	2.1 U	0.93 U	0.93 U	0.93 U	0.93 U
Undecane, n-	3.2 U	**0.64 J**	**0.52 J**	1.3 U	**1.0 J**	NA	NA	NA	NA	NA	**0.87 J**	1.4 U	**5.8**	**5.9**	2.8 U	1.3 U	1.3 U	1.3 U	**0.70 J**
Vinyl bromide	2.2 U	0.87 U	0.87 U	0.87 U	0.87 U	NA	NA	NA	NA	NA	2.0 U	1.0 U	1.8 U	2.5 U	1.9 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	1.3 U	0.51 U	0.51 U	0.51 U	0.51 U	1.8 U	2 U	1.9 U	8.2 U	2 U	1.2 U	0.58 U	1 U	1.4 U	1.1 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)																			
Helium	NA	NA	NA	0.0182 U	0.0171 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	0.015 U

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG11	OU2SG11	OU2SG11	OU2SG11	OU2SG11	OU2SG11
Sample Date:	5/25/2005	8/31/2005	2/2/2006	6/15/2006	9/8/2006	2/22/2007	6/14/2007	7/25/2007	9/19/2007	12/19/2007	3/27/2008	6/23/2008	9/22/2008	2/21/2007	6/14/2007	9/12/2007	12/19/2007	4/3/2008	6/19/2008
BTEX (ug/m3)																			
Benzene	**2.8**	**4.5**	**5.8**	**26.2**	**19.5**	**2.2**	**2.2 J**	1.5 UJ	1.4 U	**0.26 J**	0.64 U	0.64 U	0.64 U	**3.6**	**4**	**2.1**	**0.19 J**	0.64 U	**0.16 J**
Ethylbenzene	3.6 U	**17.8**	**8.3**	23.4 U	**26.1**	**2.9**	**13**	**2.7 J**	2.0 U	0.87 U	0.87 U	**0.43 J**	0.87 U	**5.8**	**13**	**13**	**5.2**	**8.2**	**8.3**
Toluene	**18.5**	**64.1**	**37.7**	**52.8**	**135.7**	**13**	**1100**	**70 J**	**3.9**	**6.5**	**0.43 J**	**0.87**	**0.38 J**	**29**	**2300**	**1700**	**120**	**190**	**150**
Xylene, m,p-	**9.1**	**73.8**	**21.3**	**37.3**	**91.2**	**7.9**	**34**	**50 J**	**8.2**	**0.39 J**	1.7 U	**1.6 J**	1.7 U	**17**	**38**	**41**	**21**	**28**	**20**
Xylene, o-	3.6 U	**27.8**	**6.1**	23.4 U	**26.5**	**3.0**	**10**	**12 J**	**1.3 J**	0.87 U	0.87 U	**0.74 J**	0.87 U	**5.4**	**11**	**13**	**7.2**	**9.0**	**6.6**
Other VOCs (ug/m3)																			
Acetaldehyde	NA	NA	NA	NA	NA	**2.1 J**	**54 J**	**110 J**	4.1 U	1.8 U	4.5 U	**11**	**5.7 J**	**1600 J**	66 U	**91**	1.8 U	4.5 U	**11**
Acetone	**111.6**	**206.7**	**35.6**	**950.2**	**102.1**	**17**	**47**	**14 J**	**5.3**	1.8 U	1.8 U	3.9 U	**2.5**	5.0 U	**67**	**8.9**	2.3 U	2.3 U	1.2 UJ
Acrolein (propenal)	NA	NA	NA	NA	NA	1.0 U	1.8 UJ	1.1 U	1.0 U	0.46 U	1.2 U	**0.73**	0.46 U	0.96 U	1.8 U	**1.0 J**	0.46 U	1.2 U	0.46 U
Allyl chloride	10.6 U	10.6 U	8.8 U	68.9 U	9.1 U	1.4 U	2.5 U	1.5 U	1.4 U	0.63 UJ	0.63 U	0.63 UJ	0.63 U	1.3 U	2.5 U	1.4 U	0.63 UJ	0.63 U	0.63 U
Benzothiophene	NA	NA	NA	NA	NA	12 UJ	4.4 UJ	2.6 U	2.5 U	1.1 UJ	1.1 U	1.1 U	1.1 U	12 UJ	4.3 U	32 U	1.1 UJ	1.1 UJ	1.1 UJ
Bromodichloromethane	5.6 U	5.6 U	4.7 U	36.2 U	4.9 U	3.0 U	5.4 U	3.2 U	3.0 U	1.3 U	1.3 U	1.3 U	1.3 U	**120**	**17**	3.1 U	1.3 U	1.3 U	1.3 U
Bromoform	8.7 U	8.7 U	7.2 U	55.8 U	7.5 U	4.7 U	8.3 U	4.9 U	4.7 U	2.1 U	2.1 U	2.1 U	2.1 U	4.3 U	8.1 U	4.8 U	2.1 U	2.1 U	2.1 U
Bromomethane	3.3 U	3.3 U	2.7 U	21 U	2.8 U	1.8 U	3.1 U	1.8 U	1.8 U	0.78 U	0.78 U	0.78 U	0.78 U	1.6 U	3.1 U	1.8 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	1.9 U	1.9 U	**7.3**	**15.7**	**11.3**	1.0 U	1.8 U	1 U	1.0 U	0.44 U	0.44 U	0.44 U	0.44 U	0.93 U	1.7 U	1.0 U	0.44 U	0.44 U	0.44 U
Butane	NA	NA	NA	NA	NA	**11**	**1.5 J**	**1.2 J**	**0.92 J**	**1.3**	**0.26 J**	**0.38 J**	0.48 U	**9660**	**31**	1.1 U	0.48 U	**2.0**	**2.9**
Butanone, 2-	**8.8**	**14.2**	**5 J**	**79.6**	**15.9**	**1.9 J**	2.4 UJ	**4.2 J**	**2.1**	**0.35 J**	**0.16 J**	**0.85**	**0.44 J**	**2.7 J**	2.3 U	1.4 U	**0.65**	**0.48 J**	**0.83**
Carbon disulfide	2.6 U	**5.6**	**3.1**	16.8 U	**5**	**7.6**	**13 J**	**17 J**	**6.3**	**3.6**	**0.83**	**18**	**8.4**	1.3 U	**27**	**17**	**0.72**	**12**	**27**
Carbon tetrachloride	5.3 U	5.3 U	4.4 U	34 U	4.6 U	2.8 U	5 U	3 UJ	2.8 U	1.3 U	1.3 U	1.3 U	1.3 U	2.6 U	5 U	2.9 U	1.3 U	**0.63 J**	**0.50 J**
Chlorobenzene	3.9 U	3.9 U	3.2 U	24.9 U	3.4 U	2.1 U	3.7 U	2.2 U	2.1 U	0.92 U	0.92 U	0.92 U	0.92 U	**1.2 J**	3.6 U	2.1 U	0.92 U	0.92 U	0.92 U
Chloroethane	2.2 U	2.2 U	1.8 U	14.2 U	1.9 U	1.2 U	2.1 U	1.2 U	1.2 U	0.53 U	0.53 U	0.53 U	0.53 U	1.1 U	2.1 U	1.2 U	0.53 U	0.53 U	0.53 U
Chloroform	4.1 U	**10.7**	3.4 U	26.4 U	3.6 U	2.2 U	**1500**	**1600**	**1000**	**240**	**160**	**580**	**280**	**1350**	**87**	**5.9**	**0.29 J**	**2.3**	**1.7**
Chloromethane	7 U	7 U	5.8 U	45.4 U	6 U	0.93 U	1.6 U	0.97 U	0.94 U	0.41 U	0.41 U	0.41 U	0.41 U	0.87 U	1.6 U	0.95 U	0.41 U	0.41 U	**0.12 J**
Chlorotoluene, 2-	NA	NA	NA	NA	NA	2.3 U	4.1 U	2.4 U	2.4 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	4.1 U	2.4 U	1.0 U	1.0 U	1.0 U
Cryofluorane	5.9 U	5.9 U	4.9 U	37.7 U	5.1 U	3.2 U	5.6 U	3.3 U	3.2 U	1.4 U	1.4 U	1.4 U	1.4 U	2.9 U	5.5 U	3.2 U	1.4 U	1.4 U	1.4 U
Cyclohexane	**271.9**	**3.4**	2.4 U	18.6 U	**2.9**	**1.6**	**270**	**470 J**	**130**	**2.1**	**0.25 J**	**0.31 J**	0.69 U	**410**	**430**	**190**	**4.4**	**55**	**58 J**
Decane, n-	NA	NA	NA	NA	NA	**0.92 J**	**4.6 J**	**19 J**	2.6 U	1.2 U	1.2 U	**51**	**0.64 J**	**1.3 J**	4.6 U	2.7 U	1.2 U	1.2 UJ	**16**
Dibromochloromethane	7.2 U	7.2 U	6 U	46 U	6.2 U	3.8 U	6.8 U	4 U	3.9 U	1.7 U	1.7 U	1.7 U	1.7 U	**5.4**	6.7 U	3.9 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	6.5 U	6.5 U	5.4 U	41.5 U	5.6 U	3.5 U	6.1 U	3.6 U	3.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.2 U	6 U	3.6 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	5.1 U	5.1 U	4.2 U	32.5 U	4.4 U	2.7 U	4.8 U	2.8 U	2.7 U	1.2 U	1.2 U	1.2 U	1.2 U	2.5 U	4.7 U	2.8 U	1.2 U	1.2 U	**0.36 J**
Dichlorobenzene, 1,3-	5.1 U	5.1 U	4.2 U	32.5 U	4.4 U	2.7 U	4.8 U	2.8 U	2.7 U	1.2 U	1.2 U	**4.4**	1.2 U	2.5 U	4.7 U	2.8 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	5.1 U	5.1 U	4.2 U	32.5 U	4.4 U	2.7 UJ	4.8 U	**2.4 J**	**1.2 J**	1.2 U	1.2 U	**0.54 J**	1.2 U	2.5 UJ	4.7 U	**2.2 J**	**0.78 J**	**0.99 J**	**2.0**
Dichlorodifluoromethane	4.2 U	**7.4**	3.5 U	26.7 U	3.6 U	**2.8**	4 U	**5.1 J**	2.2 U	**3.2**	**1.9**	**4.6**	**4.7**	**0.73 J**	**2 J**	**2.4**	**3.1**	**2.3**	**1.8**
Dichloroethane, 1,1-	3.4 U	3.4 U	2.8 U	21.9 U	3 U	1.8 U	3.2 U	1.9 U	1.8 U	0.81 U	0.81 U	0.81 U	0.81 U	1.7 U	3.2 U	1.9 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	3.4 U	3.4 U	2.8 U	21.9 U	3 U	1.8 U	3.2 U	1.9 U	1.8 U	0.81 U	0.81 U	0.81 U	0.81 U	1.7 U	3.2 U	1.9 U	0.81 U	0.81 U	0.81 U
Dichloroethene, cis-1,2-	3.3 U	3.3 U	2.8 U	21.4 U	2.9 U	1.8 U	3.2 U	1.9 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U	1.7 U	3.1 U	1.8 U	0.79 U	0.79 U	0.79 U
Dichloroethene, 1,1-	3.3 U	3.3 U	2.8 U	21.4 U	2.9 U	1.8 U	3.2 U	1.9 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U	1.7 U	3.1 U	1.8 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	3.9 U	3.9 U	3.2 U	25 U	3.4 U	2.1 U	3.7 U	2.2 U	2.1 U	0.92 U	0.92 U	0.92 U	0.92 U	1.9 U	3.6 U	2.1 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	3.8 U	3.8 U	3.2 U	24.5 U	3.3 U	2.0 U	3.6 U	2.1 U	2.1 U	0.91 U	0.91 U	0.91 U	0.91 U	1.9 U	3.6 U	2.1 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	3.8 U	3.8 U	3.2 U	24.5 U	3.3 U	2.0 U	3.6 U	2.1 U	2.1 U	0.91 U	0.91 U	0.91 U	0.91 U	1.9 U	3.6 U	2.1 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	12.3 U	12.3 U	10.1 U	79.3 U	10.5 U	4.1 U	7.2 U	1.7 U	1.6 U	1.8 U	0.72 U	0.72 U	0.72 U	3.8 U	7.1 U	1.7 U	1.8 U	0.72 U	0.72 U
Dodecane, n-	NA	NA	NA	NA	NA	**1.1 J**	**3.6 J**	3.3 U	**0.79 J**	**0.90 J**	1.4 U	**36 J**	**11**	**1.5 J**	**25**	**4.3**	**1.0 J**	**1.0 J**	**0.90 J**
Ethanol	**75.4**	**33.9**	**35.8**	**92.3**	**45.2**	**54**	**5 J**	**18 J**	**14**	**1.4 J**	**0.97 J**	**1.7 J**	**0.90 J**	**30**	**10**	**30**	**2.8**	**1.9 J**	**0.75 J**
Ethylthiophene, 2-	NA	NA	NA	NA	NA	2.1 U	3.7 U	2.2 U	2.1 U	0.92 U	0.92 U	0.92 U	0.92 U	1.9 U	3.6 U	2.1 U	0.92 U	0.92 U	0.92 U
Ethyltoluene, p-	4.1 U	**30.5**	3.4 U	26.5 U	**28.5**	**0.89 J**	3.9 U	**3.2 J**	**0.78 J**	0.98 U	0.98 U	**0.44 J**	0.98 U	**1.0 J**	3.9 U	**1.2 J**	**0.34 J**	**0.42 J**	**0.49 J**
Heptane, n-	**282.8**	**8.2**	2.9 U	22.1 U	**13.5**	**2.2**	**15**	**0.65 J**	1.9 U	0.82 UJ	0.82 U	**1.1 J**	0.82 U	**58**	**12**	**4.4**	0.82 UJ	0.82 UJ	**0.20 J**
Hexachlorobutadiene	36.3 U	36.3 U	29.9 U	234.6 U	30.9 UJ	4.8 UJ	8.5 U	5 U	4.8 U	2.1 U	2.1 U	2.1 U	2.1 U	4.5 UJ	8.4 U	4.9 U	2.1 U	2.1 U	2.1 U
Hexane, n-	**3.9 J**	**6.7**	**7**	19 U	**15.2**	**6.0**	**400**	**130**	**10**	**0.99**	0.70 U	0.70 U	0.70 U	**530**	**540**	**180**	**0.95**	**6.8**	**3.9 J**
Hexanone, 2-	13.9 U	13.9 U	11.5 U	90.1 U	11.9 U	4.6 U	3.3 U	**0.67 J**	1.9 U	0.82 U	0.82 U	0.82 U	0.82 U	4.3 U	3.2 U	1.9 U	0.82 U	0.82 U	0.82 U
Indan	NA	NA	NA	NA	14 U	**0.65 J**	3.9 U	**2.3 J**	**0.55 J**	0.97 U	0.97 U	0.97 U	0.97 U	**0.71 J**	3.8 U	2.2 U	**0.34 J**	**0.30 J**	**0.53 J**
Indene	NA	NA	NA	NA	13.8 U	2.2 U	3.8 U	2.2 U	2.2 U	0.95 U	0.95 U	0.95 U	0.95 U	2.0 U	3.7 U	2.2 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	4.1 U	4.1 U	3.4 U	26.5 U	3.6 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	**4.3**	**9.7**	2.5 U	19.5 U	2.6 U	1.6 U	2.9 U	1.7 U	1.6 U	0.72 U	0.72 U	0.72 U	0.72 U	1.5 U	2.8 U	1.7 U	0.72 U	0.72 U	0.72 UJ
Methyl-2-pentanone, 4-	3.4 U	3.4 U	2.9 U	22.1 U	3 U	**1.1 J**	3.3 U	1.9 U	1.9 U	0.82 U	0.82 U	0.82 U	0.82 U	1.7 U	3.2 U	1.9 U	0.82 U	0.82 U	0.82 U
Methylene chloride	2.9 U	2.9 U	2.4 U	18.8 U	2.5 U	**32 J**	**25**	**9.9 J**	**11**	0.69 U	**0.34 J**	2.0 U	2.7 U	**15 J**	**4.1 J**	**10**	0.69 U	1.7 U	1.7 U
Methylnaphthalene, 1-	NA	NA	NA	NA	NA	33 U	4.6 UJ	**4.4 J**	2.6 U	14 UJ	1.2 U	2.9 UJ	1.2 U	30 U	4.6 U	13 U	14 UJ	1.2 UJ	2.9 UJ
Methylnaphthalene, 2-	NA	NA	NA	NA	NA	33 U	4.6 UJ	**11 J**	2.6 U	14 UJ	1.2 U	2.9 UJ	1.2 U	30 U	4.6 U	**0.67 J**	14 UJ	1.2 UJ	**0.46 J**
Methylthiophene, 2-	NA	NA	NA	NA	NA	1.8 U	3.2 U	1.9 U	1.8 U	0.80 U	0.80 U	0.80 U	0.80 U	1.7 U	3.2 U	1.8 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	NA	NA	NA	NA	NA	1.8 U	3.2 U	1.9 U	1.8 U	0.80 U	0.80 U	0.80 U	0.80 U	1.7 U	3.2 U	1.8 U	0.80 U	0.80 U	0.80 U
Naphthalene	17.8 U	17.8 U	14.7 U	115.3 UJ	15.2 U	5.9 U	4.2 U	**5.2 J**	**0.83 J**	1.0 U	1.0 U	**0.89 J**	1.0 U	5.5 U	4.1 U	**2.7**	**0.94 J**	**0.79 J**	**1.5**
Nonane	NA	NA	NA	NA	NA	**1.4 J**	**4.3**	2.5 U	2.4 U	1.0 U	1.0 U	**0.73 J**	1.0 U	**1.4 J**	**4.4**	**2.7**	**1.9**	1.0 U	1.0 U

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG10	OU2SG11	OU2SG11	OU2SG11	OU2SG11	OU2SG11	OU2SG11
Sample Date:	5/25/2005	8/31/2005	2/2/2006	6/15/2006	9/8/2006	2/22/2007	6/14/2007	7/25/2007	9/19/2007	12/19/2007	3/27/2008	6/23/2008	9/22/2008	2/21/2007	6/14/2007	9/12/2007	12/19/2007	4/3/2008	6/19/2008
Other VOCs Continued (ug/m3																			
Octane, n-	NA	NA	NA	NA	NA	**1.4 J**	**4.4**	2.2 U	2.1 U	0.93 U	0.93 U	**220**	**0.37 J**	**4.8**	**2.6 J**	**0.86 J**	**0.56 J**	0.93 U	**1.5**
Pentane	NA	NA	NA	NA	NA	**4.1**	2.4 U	1.4 U	1.3 U	0.59 U	0.59 U	0.59 U	0.59 U	**2140**	**8.2**	1.4 U	0.59 U	**1.4**	**0.65**
Propanol, 2-	8.4 U	8.4 U	6.9 U	**76.2**	7.1 U	**3.0**	**18**	**20 J**	**17**	0.49 U	1.2 UJ	**11 J**	**5.8 J**	**3.0**	**2.6 J**	**1.5**	**1.6 J**	**0.48 J**	**0.49 J**
Propylbenzene, n-	4.1 U	**6.4**	3.4 U	26.5 U	**7.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	3.6 U	3.6 U	3 U	23 U	3.1 U	1.9 U	3.4 U	2 U	1.9 U	0.85 U	0.85 U	**0.34 J**	0.85 U	1.8 U	3.4 U	**0.59 J**	**0.30 J**	**0.40 J**	**0.38 J**
t-Butyl alcohol	NA	NA	NA	NA	NA	1.4 U	2.4 U	**0.87 J**	**0.69 J**	0.61 U	0.61 U	**1.4**	0.61 U	1.3 U	2.4 U	**1.0 J**	**0.39 J**	**0.30 J**	0.61 U
Tetrachloroethane, 1,1,2,2-	5.8 U	5.8 U	4.8 U	37.1 U	5 U	3.1 U	5.5 U	3.2 U	3.1 U	1.4 U	1.4 U	1.4 U	1.4 U	2.9 U	5.4 U	3.2 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	**41.4**	**6.8**	**7.5**	36.6 U	**17**	3.1 U	**12**	**14 J**	**8.2**	**1.6**	**0.94 J**	**5.0**	**5.1**	**14**	**11**	**1.6 J**	1.4 U	1.4 U	**0.95 J**
Tetrahydrofuran	2.5 U	2.5 U	2.1 U	15.9 U	**2.8**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	NA	NA	NA	NA	NA	2.5 U	4.4 U	**7.3 J**	**2.1 J**	1.1 U	1.1 U	**2.4 J**	1.1 U	2.3 U	**4.3 J**	**6.1 J**	**3.3**	**3.2**	**16 J**
Thiophene	NA	NA	NA	NA	NA	1.6 U	2.8 U	1.6 UJ	1.6 U	0.69 U	0.69 U	0.69 U	0.69 U	1.4 U	2.7 U	1.6 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	3.3 U	3.3 U	2.8 U	21.4 U	2.9 U	1.8 U	3.2 U	1.9 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U	1.7 U	3.1 U	1.8 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	6.4 U	6.4 U	5.4 U	41.4 U	5.6 U	3.5 U	6.1 U	3.6 U	3.5 U	1.5 U	**0.39 J**	**0.69 J**	**0.61 J**	3.2 U	6 U	3.5 U	1.5 U	**0.82 J**	1.5 U
Trichlorobenzene, 1,2,4-	25.2 U	25.2 U	20.8 U	163.3 U	21.5 UJ	3.4 UJ	5.9 U	3.5 U	3.4 U	1.5 U	1.5 U	1.5 U	1.5 U	3.1 UJ	5.8 U	3.4 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	4.6 U	4.6 U	3.8 U	29.5 U	4 U	2.5 U	4.4 U	**1.4 J**	**1.7 J**	1.1 U	**0.32 J**	**1.5**	**1.5**	2.3 U	4.3 U	2.5 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	4.6 U	4.6 U	3.8 U	29.5 U	4 U	2.5 U	4.4 U	2.6 U	2.5 U	1.1 U	1.1 U	1.1 U	1.1 U	2.3 U	4.3 U	2.5 U	1.1 U	1.1 U	1.1 U
Trichloroethene	4.5 U	4.5 U	3.8 U	29 U	3.9 U	2.4 U	4.3 U	**0.66 J**	**0.98 J**	1.1 U	1.1 U	**0.48 J**	**0.38 J**	2.3 U	4.2 U	2.5 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	4.7 U	**16.3**	3.9 U	30.3 U	**14.6**	**1.6 J**	**9.4**	**12 J**	**11**	**2.9**	**1.5**	**14**	**12**	**1.1 J**	4.4 U	**1.3 J**	1.3 U	**1.7**	**1.0 J**
Trimethylbenzene, 1,2,3-	NA	NA	NA	NA	NA	**1.3 J**	3.9 U	**4 J**	**1.2 J**	0.98 U	0.98 U	**2.6**	0.98 U	**2.0 J**	3.9 U	**1.7 J**	**0.54 J**	**1.6**	**1.9**
Trimethylbenzene, 1,2,4-	4.1 U	**34.4**	3.4 U	26.5 U	**28 J**	**2.8**	**5.5**	**11 J**	**2.3**	**0.25 J**	0.98 U	**0.69 J**	0.98 U	**4.2**	**3.4 J**	**3.1**	**1.3**	**0.53 J**	**0.29 J**
Trimethylbenzene, 1,3,5-	4.1 U	**11.8**	3.4 UJ	26.5 U	**8.4**	**0.78 J**	**2.1 J**	**3.6 J**	**1.2 J**	0.98 U	0.98 U	**1.2**	0.98 U	**1.3 J**	3.9 U	**1.0 J**	**0.39 J**	**0.81 J**	**1.4**
Trimethylpentane, 2,2,4-	3.9 U	**7.9**	**794.2**	**6540.8**	**841**	**3.0 J**	**2.5 J**	2.2 U	2.1 U	0.93 U	0.93 U	0.93 U	0.93 U	2.0 U	**4.2**	2.2 U	0.93 U	0.93 UJ	0.93 U
Undecane, n-	NA	NA	NA	NA	NA	**0.87 J**	5.1 U	3 U	2.9 U	1.3 U	1.3 U	**7.8**	**6.1**	**1.7 J**	5 U	3.0 U	1.3 U	**4.8**	**18 J**
Vinyl bromide	NA	NA	NA	NA	NA	2.0 U	3.5 U	2.1 U	2.0 U	0.87 U	0.87 U	0.87 U	0.87 U	1.8 U	3.4 U	2.0 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	2.1 U	2.1 U	1.8 U	13.8 U	1.9 U	1.2 U	2 U	1.2 U	1.2 U	0.51 U	0.51 U	0.51 U	0.51 U	1.1 U	2 U	1.2 U	0.51 U	0.51 U	0.51 U
Other (%)																			
Helium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0187 U	0.0227 U	NA	NA	NA	NA	NA	0.0168 U

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	Duplicate of OU2SG11	OU2SG11	OU2SG11	OU2SG11	OU2SG12	OU2SG12	OU2SG12	OU2SG12	OU2SG12	OU2SG13	OU2SG13	OU2SG13	OU2SG13	OU2SG13	OU2SG13	OU2SG13	OU2SG13	OU2SG14	Duplicate of OU2SG14
Sample Date:	6/19/2008	8/13/2008	9/22/2008	9/24/2008	2/21/2007	9/18/2007	12/19/2007	3/27/2008	6/19/2008	3/30/2007	5/24/2007	7/25/2007	9/20/2007	12/19/2007	4/3/2008	6/24/2008	9/16/2008	3/30/2007	3/30/2007
BTEX (ug/m3)																			
Benzene	0.64 UJ	**0.38 J**	**0.22 J**	0.64 U	1.5 U	1.5 U	**0.22 J**	**0.19 J**	0.64 UJ	**0.70 J**	1.3 U	**13**	**0.84 J**	**0.64**	**1.4**	**2.4 J**	0.64 U	1.2 U	1.2 U
Ethylbenzene	**7.8**	**1.4 J**	**0.69 J**	**0.42 J**	**1.2 J**	**0.61 J**	**1.8**	**0.30 J**	0.87 U	**5.6**	1.8 U	**1.3 J**	**1.7 J**	**2.2**	**43**	**79**	**13**	**0.96 J**	**1.3 J**
Toluene	**160**	**21**	**11**	**6.6**	**2.5**	**100**	**70**	**1.4**	**0.79**	**560**	**23**	**8.2**	**5.2**	**24**	**860**	**3200**	**120**	**4.0**	**4.5**
Xylene, m,p-	**22**	**3.7**	**2.2**	**1.4 J**	**3.7 J**	**16**	**7.1**	**0.84 J**	**0.39 J**	**16**	**0.99 J**	**1.7 J**	**6.5**	**7.6**	**130**	**230**	**42**	**4.6**	**5.6**
Xylene, o-	**7.3**	**1.2**	**0.61 J**	**0.44 J**	**1.5 J**	**6.4**	**3.7**	**0.34 J**	0.87 U	**6.0**	1.8 U	**0.89 J**	**4.1**	**2.6**	**31**	**64**	**34**	**3.6**	**4.4**
Other VOCs (ug/m3)																			
Acetaldehyde	**9.1**	**29**	**5.4 J**	**5.8 J**	0.84 UJ	**45**	3.3 U	4.5 U	**5.0**	**27 J**	**93 J**	**400**	**12**	1.8 U	4.5 U	**48**	**4.8 J**	31 U	32 U
Acetone	**3.3 J**	**3.2**	**1.7**	**3.2**	**9.6**	**7.2**	1.0 U	3.0 U	**3.7**	**13 J**	**34 J**	**210 J**	**9.7**	2.2 U	3.0 U	**28**	**2.2**	**11 J**	**12 J**
Acrolein (propenal)	**0.25 J**	0.46 U	0.46 U	0.46 U	1.1 U	1.1 U	0.46 U	1.2 U	**0.14 J**	**0.65 J**	2.3 U	**4.2 J**	0.93 U	0.46 U	1.2 U	0.87 U	0.46 U	0.86 U	0.88 U
Allyl chloride	0.63 U	0.63 U	0.63 U	0.63 U	1.5 U	1.5 U	0.63 UJ	0.63 U	0.63 U	1.2 U	1.3 U	1.6 U	1.3 U	0.63 UJ	0.63 U	1.2 U	0.63 U	1.2 U	1.2 U
Benzothiophene	1.1 U	1.1 U	1.1 U	1.1 U	13 UJ	32 U	1.1 UJ	1.1 U	1.1 UJ	2.2 U	5.5 U	2.7 U	2.2 U	1.1 UJ	1.1 UJ	2.1 U	1.1 U	2.1 U	2.1 U
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	3.1 U	3.2 U	1.3 U	1.3 U	1.3 U	2.6 U	2.7 U	3.3 U	2.7 U	1.3 U	1.3 U	2.5 U	1.3 U	2.5 U	2.6 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	4.8 U	4.8 U	2.1 U	2.1 U	2.1 U	4.1 U	4.2 U	5.1 U	4.2 U	2.1 U	2.1 U	3.9 U	2.1 U	3.9 U	4.0 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	1.8 U	1.8 U	0.78 U	0.78 U	0.78 U	1.5 U	1.6 U	1.9 U	1.6 U	0.78 U	0.78 U	1.5 U	0.78 U	1.5 U	1.5 U
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	0.44 U	1.0 U	1.0 U	0.44 U	0.44 U	0.44 U	0.88 U	0.89 U	**6.8**	0.90 U	0.44 U	0.44 U	0.84 U	0.44 U	0.83 U	0.85 U
Butane	**2.6**	**3.0**	**1.1**	**0.50**	1.1 U	**0.28 J**	0.48 U	0.48 U	0.48 U	**2.6**	**1.1**	**7.3**	0.96 U	**0.93**	**0.40 J**	0.90 U	0.48 U	**0.62 J**	2.3 U
Butanone, 2-	**0.56 J**	**1.0**	**0.38 J**	**0.30 J**	**1.4 J**	**2.2**	**0.24 J**	**1.6**	**0.59**	**2.7**	**5**	**43**	**3.0**	**0.50 J**	**0.75 J**	**2.6**	**0.59**	**2.7**	**3.1**
Carbon disulfide	**32**	**72**	**51**	**19**	1.4 U	**9.9**	**1.0**	**0.44 J**	0.62 U	**3.2**	**6.3 J**	**3**	**20**	**6.6**	**17**	**48**	**72**	2.9 U	3.0 U
Carbon tetrachloride	**0.57 J**	1.3 U	1.3 U	1.3 U	2.9 U	3.0 U	1.3 U	1.3 U	1.3 U	2.5 U	2.5 UJ	3.1 U	2.6 U	1.3 U	1.3 U	2.4 U	1.3 U	2.4 U	2.4 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	2.1 U	2.2 U	0.92 U	0.92 U	0.92 U	1.8 U	1.9 U	2.3 U	1.9 U	0.92 U	0.92 U	1.7 U	0.92 U	1.7 U	1.8 U
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	1.2 U	1.2 U	0.53 U	0.53 U	0.53 U	1.0 U	1.1 U	1.3 U	1.1 U	0.53 U	0.53 U	1.0 U	0.53 U	0.99 U	1.0 U
Chloroform	**1.7**	**2.9**	**1.7**	**1.6**	2.3 U	2.3 U	**0.34 J**	**0.25 J**	**1.4**	1.9 U	2 U	2.4 U	**2.6**	**0.63 J**	**1.4**	**1.9**	**7.4**	**13**	**14**
Chloromethane	**0.17 J**	0.41 U	0.41 U	0.41 U	0.96 U	**0.34 J**	0.41 U	0.41 U	**0.14 J**	2.0 U	**1.4**	**0.91 J**	**0.54 J**	0.41 U	**0.14 J**	0.78 U	0.41 U	1.9 U	2.0 U
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	2.4 U	2.4 U	1.0 U	1.0 U	1.0 U	2.0 U	2.1 U	2.6 U	2.1 U	1.0 U	1.0 U	2.0 U	1.0 U	1.9 U	2.0 U
Cryofluorane	1.4 U	1.4 U	1.4 U	1.4 U	3.2 U	3.3 U	1.4 U	1.4 U	1.4 U	2.8 U	2.8 U	3.5 U	2.8 U	1.4 U	1.4 U	2.6 U	1.4 U	2.6 U	2.7 U
Cyclohexane	**41 J**	**80**	**36**	**17**	1.6 U	**32**	**2.5**	0.69 U	0.69 U	**42**	**17**	1.7 U	1.4 U	**0.28 J**	**100**	**290**	**140**	1.3 U	1.3 U
Decane, n-	**15**	**14**	1.2 U	1.2 U	**2.2 J**	**20**	1.2 U	**2.2**	**4.8**	**3.1**	**3.3**	**2 J**	2.4 U	**0.99 J**	**3.1**	**69**	1.2 UJ	**1.9 J**	**2.7**
Dibromochloromethane	1.7 U	1.7 U	1.7 U	1.7 U	4.0 U	4.0 U	1.7 U	1.7 U	1.7 U	3.4 U	3.4 U	4.2 U	3.5 U	1.7 U	1.7 U	3.2 U	1.7 U	3.2 U	3.3 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	3.6 U	3.6 U	1.5 U	1.5 U	1.5 U	3.0 U	3.1 U	3.8 U	3.1 U	1.5 U	1.5 U	2.9 U	1.5 U	2.9 U	3.0 U
Dichlorobenzene, 1,2-	**0.42 J**	1.2 U	1.2 U	1.2 U	2.8 U	2.8 U	1.2 U	1.2 U	1.2 U	2.4 U	2.4 U	3 U	2.4 U	1.2 U	1.2 U	2.3 U	**0.60 J**	2.3 U	2.3 U
Dichlorobenzene, 1,3-	1.2 U	1.2 U	1.2 U	1.2 U	2.8 U	2.8 U	1.2 U	**0.67 J**	**0.36 J**	2.4 U	2.4 U	3 U	2.4 U	**4.7**	**3.0**	**8.1**	**2.4**	2.3 U	2.3 U
Dichlorobenzene, 1,4-	**2.2**	**1.4**	1.2 U	1.2 U	2.8 UJ	**1.1 J**	**0.72 J**	1.2 U	1.2 U	2.4 U	2.4 U	3 U	2.4 U	**0.54 J**	**1.0 J**	**1.4 J**	**2.2**	2.3 U	2.3 U
Dichlorodifluoromethane	**2.3**	**2.5**	**2.7**	**2.7**	**2.6**	**2.7**	**3.2**	**2.0**	**2.5**	2.0 UJ	**2.7**	**2 J**	**2.9**	**3.6**	**2.7**	**2.5**	**2.7**	**3.6**	**3.2**
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	1.9 U	1.9 U	0.81 U	0.81 U	0.81 U	1.6 U	1.6 U	2 U	1.6 U	0.81 U	0.81 U	1.5 U	0.81 U	1.5 U	1.6 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 U	1.9 U	1.9 U	0.81 U	0.81 U	0.81 U	1.6 U	1.6 U	2 U	1.6 U	0.81 U	0.81 U	1.5 U	0.81 U	1.5 U	1.6 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	0.79 U	1.8 U	1.9 U	0.79 U	0.79 U	0.79 U	1.6 U	1.6 U	2 U	1.6 U	0.79 U	0.79 U	1.5 U	0.79 U	1.5 U	1.5 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	1.8 U	1.9 U	0.79 U	0.79 U	0.79 U	1.6 U	1.6 U	2 U	1.6 U	0.79 U	0.79 U	1.5 U	0.79 U	1.5 U	1.5 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	2.2 U	2.2 U	0.92 U	0.92 U	0.92 U	1.8 U	1.9 U	2.3 U	1.9 U	0.92 U	0.92 U	1.8 U	0.92 U	1.7 U	1.8 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	0.91 U	2.1 U	2.1 U	0.91 U	0.91 U	0.91 U	1.8 U	1.8 U	2.2 U	1.8 U	0.91 U	0.91 U	1.7 U	0.91 U	1.7 U	1.8 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	2.1 U	2.1 U	0.91 U	0.91 U	0.91 U	1.8 U	1.8 U	2.2 U	1.8 U	0.91 U	0.91 U	1.7 U	0.91 U	1.7 U	1.8 U
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	0.72 U	4.2 U	1.7 UJ	1.8 U	0.72 U	0.72 U	3.6 U	1.4 U	1.8 U	1.5 U	1.8 U	0.72 U	1.4 U	0.72 U	3.4 U	3.5 U
Dodecane, n-	**1.7 J**	**0.42 J**	**0.42 J**	**0.63 J**	**3.1 J**	**2.4 J**	**1.0 J**	**1.0 J**	**8.9 J**	2.8 UJ	**9.2**	**5 J**	**2.8 J**	**0.97 J**	**1.3 J**	**50 J**	**1.7**	**11 J**	**5.8 J**
Ethanol	**0.94 J**	**2.7**	**0.62 J**	**0.66 J**	**14**	**16**	**0.73 J**	**7.4**	**1.9**	**20 J**	**3.5 J**	**40**	**5.9**	**12**	**3.6 J**	**5.3**	**1.6 J**	**23**	**30**
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	2.1 U	2.2 U	0.92 U	0.92 U	0.92 U	1.8 U	1.8 U	2.3 U	1.9 U	0.92 U	0.92 U	1.7 U	0.92 U	1.7 U	1.8 U
Ethyltoluene, p-	**0.59 J**	0.98 U	0.98 U	0.98 U	2.3 U	2.3 U	0.98 U	0.98 U	0.98 U	2.0 U	2 U	2.4 U	**1.2 J**	**0.74 J**	**1.7**	**3.5**	**2.5**	1.8 U	1.9 U
Heptane, n-	0.82 U	**0.29 J**	0.82 U	0.82 U	1.9 U	**0.96 J**	0.82 UJ	0.82 U	0.82 U	**5.1**	1.6 U	**1.6 J**	1.7 U	**4.8 J**	**4.5 J**	**5.8**	**0.94**	1.5 U	1.6 U
Hexachlorobutadiene	2.1 UJ	2.1 U	2.1 U	2.1 U	5.0 UJ	5.0 U	2.1 U	2.1 U	2.1 U	4.2 UJ	4.3 U	5.3 U	4.3 U	2.1 U	2.1 U	4.0 U	2.1 U	4.0 UJ	4.1 UJ
Hexane, n-	**2.7 J**	**8.1**	**0.56 J**	**0.23 J**	**0.98 J**	**25**	**1.2**	0.70 U	0.70 UJ	**130**	**28**	**3.2**	**1.6**	**0.49 J**	**70**	**150 J**	**48**	**1.9**	**1.4**
Hexanone, 2-	0.82 U	0.82 U	0.82 U	0.82 U	4.8 U	1.9 U	0.82 U	0.82 U	**0.37 J**	1.6 U	1.6 U	**3.6**	**2.2**	0.82 U	0.82 U	1.6 U	0.82 U	1.5 U	1.6 U
Indan	**0.53 J**	0.97 U	0.97 U	0.97 U	**0.90 J**	2.3 U	**0.24 J**	0.97 U	0.97 U	1.9 U	2 U	2.4 U	**1.7 J**	**0.43 J**	**0.85 J**	**1.8**	**1.9**	**0.93 J**	**0.95 J**
Indene	0.95 U	0.95 U	0.95 U	0.95 U	2.2 U	2.2 U	0.95 U	0.95 U	0.95 U	1.9 U	1.9 U	**1.3 J**	1.9 U	0.95 U	0.95 U	1.8 U	0.95 U	1.8 U	1.8 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 UJ	0.72 U	0.72 U	0.72 U	1.7 U	1.7 U	0.72 U	0.72 U	0.72 UJ	1.4 U	1.5 U	1.8 U	**2.6**	0.72 U	0.72 U	1.4 U	0.72 U	1.4 U	1.4 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	0.82 U	1.9 U	1.9 U	0.82 U	0.82 U	0.82 U	1.6 U	1.6 U	**4**	1.7 U	0.82 U	0.82 U	**1.3 J**	0.82 U	1.5 U	1.6 U
Methylene chloride	1.3 U	0.69 UJ	1.0 U	0.69 U	**30**	**23**	0.69 U	**0.86 J**	1.7 U	**5.5 J**	**31**	**4.5**	**2.4**	0.83 U	1.7 U	3.2 U	0.69 U	**4.9 J**	3.3 U
Methylnaphthalene, 1-	2.9 UJ	1.2 U	1.2 U	12 UJ	34 U	14 U	14 UJ	1.2 U	2.9 UJ	2.3 U	29 U	2.9 U	2.4 U	14 UJ	1.2 UJ	5.5 U	**0.41 J**	2.2 U	2.2 U
Methylnaphthalene, 2-	2.9 UJ	1.2 U	1.2 U	1.2 U	34 U	34 U	14 UJ	1.2 U	2.9 UJ	2.3 U	12 U	36 UJ	2.4 U	14 UJ	1.2 UJ	5.5 U	**0.81 J**	2.2 U	2.2 U
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	1.9 U	1.9 U	0.80 U	0.80 U	0.80 U	1.6 U	1.6 U	2 U	1.6 U	0.80 U	0.80 U	1.5 U	0.80 U	1.5 U	1.6 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	0.80 U	1.9 U	1.9 U	0.80 U	0.80 U	0.80 U	1.6 U	1.6 U	2 U	1.6 U	0.80 U	0.80 U	1.5 U	0.80 U	1.5 U	1.6 U
Naphthalene	**0.84 J**	**0.79 J**	1.0 U	**0.33 J**	**1.1 J**	**2.0 J**	**0.94 J**	1.0 U	1.0 U	2.1 UJ	2.1 U	**1.6 J**	2.1 U	1.0 U	**0.73 J**	**1.4 J**	**3.8**	**2.0 J**	**2.2 J**
Nonane	1.0 U	1.0 U	1.0 U	1.0 U	**0.73 J**	2.5 U	1.0 U	**0.27 J**	1.0 U	**3.5**	2.1 U	**1.9 J**	2.1 U	**0.79 J**	**9.4**	**10**	1.0 U	2.0 U	**1.0 J**

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	Duplicate of OU2SG11	OU2SG11	OU2SG11	OU2SG11	OU2SG12	OU2SG12	OU2SG12	OU2SG12	OU2SG12	OU2SG13	OU2SG13	OU2SG13	OU2SG13	OU2SG13	OU2SG13	OU2SG13	OU2SG13	OU2SG13	OU2SG14	Duplicate of OU2SG14
Sample Date:	6/19/2008	8/13/2008	9/22/2008	9/24/2008	2/21/2007	9/18/2007	12/19/2007	3/27/2008	6/19/2008	3/30/2007	5/24/2007	7/25/2007	9/20/2007	12/19/2007	4/3/2008	6/24/2008	9/16/2008	3/30/2007	3/30/2007
Other VOCs Continued (ug/m3																			
Octane, n-	**0.89 J**	**0.75 J**	**0.37 J**	0.93 U	2.2 U	2.2 U	0.93 U	**4.5**	**1.6**	**1.7 J**	1.9 U	**1.3 J**	1.9 U	**0.84 J**	**12**	**260**	**0.70 J**	1.8 U	1.8 U
Pentane	**0.44 J**	**0.27 J**	0.59 U	0.59 U	1.4 U	1.4 U	0.59 U	0.59 U	0.59 U	**1.6**	1.2 U	**6.1**	**1.1 J**	**0.41 J**	**0.31 J**	**0.95 J**	0.59 U	1.1 U	1.1 U
Propanol, 2-	**0.47 J**	0.49 U	0.49 U	0.49 U	**0.86 J**	**0.81 J**	0.49 U	**0.95 J**	**0.56 J**	**1.4 J**	**2 J**	**4.8**	**1.9**	**2.4 J**	**0.63 J**	2.3 UJ	0.49 U	**1.7 J**	**3.2 J**
Propylbenzene, n-	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	**0.43 J**	0.85 U	0.85 U	0.85 U	2.0 U	2.0 U	0.85 U	0.85 U	0.85 U	1.7 U	1.7 U	**1.2 J**	1.7 U	**0.34 J**	**1.4**	**3.5**	**0.89**	**17 J**	**25 J**
t-Butyl alcohol	0.61 U	0.61 UJ	0.61 U	0.61 U	1.4 U	1.4 U	0.61 U	0.61 U	0.61 U	1.2 UJ	1.2 U	**5.1**	**3.2**	0.61 U	**0.36 J**	**2.7**	0.61 U	1.1 UJ	1.2 UJ
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	1.4 U	1.4 U	3.2 U	3.2 U	1.4 U	1.4 U	1.4 U	2.7 U	2.8 U	3.4 U	2.8 U	1.4 U	1.4 U	2.6 U	1.4 U	2.6 U	2.6 U
Tetrachloroethene	**1.5**	**0.81 J**	**0.54 J**	**0.50 J**	3.2 U	**2.6 J**	**0.41 J**	1.4 U	1.4 U	**5.0**	2.7 U	3.4 U	**1.6 J**	**1.0 J**	**2.5**	**5.2**	**4.7**	**7.9**	**8.0**
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	**17 J**	**7.2**	**1.6**	**1.8**	2.6 U	**5.8 J**	**3.5**	1.1 U	**0.44 J**	27 U	11 U	14 U	**7.0**	**0.27 J**	**2.0**	**3.7 J**	**17**	26 U	26 U
Thiophene	0.69 U	0.69 U	0.69 U	0.69 U	1.6 U	1.6 UJ	0.69 U	0.69 U	0.69 U	1.4 U	1.4 U	1.7 U	1.4 U	0.69 U	0.69 U	1.3 U	0.69 U	1.3 U	1.3 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	1.8 U	1.9 U	0.79 U	0.79 U	0.79 U	1.6 U	1.6 U	2 U	1.6 U	0.79 U	0.79 U	1.5 U	0.79 U	1.5 U	1.5 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	**0.46 J**	**0.54 J**	**0.54 J**	**0.56 J**	3.6 U	3.6 U	1.5 U	**0.51 J**	**0.54 J**	3.0 U	3.1 U	3.8 U	**0.93 J**	1.5 U	**0.88 J**	2.9 U	**0.54 J**	2.9 U	3.0 U
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	1.5 U	3.5 UJ	3.5 U	1.5 U	1.5 U	1.5 U	2.9 U	3 U	3.7 U	3.0 U	1.5 U	1.5 U	2.8 U	1.5 U	2.8 UJ	2.9 UJ
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	1.1 U	2.5 U	2.6 U	1.1 U	1.1 U	1.1 U	2.2 U	2.2 UJ	2.7 U	2.2 U	1.1 U	1.1 U	2.1 U	1.1 U	2.0 U	2.1 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	2.5 U	2.6 U	1.1 U	1.1 U	1.1 U	2.2 U	2.2 U	2.7 U	2.2 U	1.1 U	1.1 U	2.1 U	1.1 U	2.0 U	2.1 U
Trichloroethene	1.1 U	1.1 U	1.1 U	1.1 U	2.5 U	2.5 U	1.1 U	1.1 U	1.1 U	2.1 U	2.2 U	2.7 U	2.2 U	**0.32 J**	1.1 U	2.0 U	1.1 U	2.0 U	2.1 U
Trichlorofluoromethane	**1.5**	**1.2**	**1.3**	**1.2**	**1.6 J**	**1.4 J**	**1.5**	**1.2**	**1.4**	**1.3 J**	2.3 U	**1.1 J**	**1.6 J**	**1.4**	**1.5**	**1.6 J**	**1.5**	**1.4 J**	**1.8 J**
Trimethylbenzene, 1,2,3-	**2.0**	**0.39 J**	0.98 U	0.98 U	**2.1 J**	**2.1 J**	**0.69 J**	**0.48 J**	**0.34 J**	2.0 U	2 U	**0.97 J**	**5.9**	**0.64 J**	**4.8**	**10**	**4.9**	**1.9**	1.9 U
Trimethylbenzene, 1,2,4-	**0.39 J**	**0.44 J**	0.98 U	0.98 U	**3.0**	**0.92 J**	0.98 U	0.98 U	0.98 U	2.0 UJ	2 U	2.4 U	**6.9**	**2.4**	**1.6**	**3.7**	**4.6**	1.8 U	1.9 U
Trimethylbenzene, 1,3,5-	**1.5**	0.98 U	0.98 U	0.98 U	**0.80 J**	**1.5 J**	**0.29 J**	0.98 U	0.98 U	**1.6 J**	2 U	2.4 U	**3.2**	**0.79 J**	**1.5**	**3.8**	**3.5**	1.8 UJ	**5.2 J**
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	0.93 U	0.93 U	2.2 U	2.2 U	0.93 U	0.93 U	0.93 U	1.8 UJ	1.9 U	2.3 U	1.9 U	0.93 U	0.93 UJ	1.8 U	0.93 U	1.8 UJ	1.8 UJ
Undecane, n-	1.3 UJ	1.3 UJ	1.3 U	1.3 UJ	**1.6 J**	3.0 U	1.3 U	**0.78 J**	**1.0 J**	**3.7 J**	**1.7 J**	**5.2**	**2.5 J**	**0.83 J**	**1.8**	**8.1**	1.3 UJ	**2.2 J**	2.5 UJ
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	2.0 U	2.0 U	0.87 U	0.87 U	0.87 U	1.7 U	1.8 U	2.2 U	1.8 U	0.87 U	0.87 U	1.6 U	0.87 U	1.6 U	1.7 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	1.2 U	1.2 U	0.51 U	0.51 U	0.51 U	1.0 U	1 U	1.3 U	1.0 U	0.51 U	0.51 U	0.97 U	0.51 U	0.96 U	0.99 U
Other (%)																			
Helium	0.0178 U	0.0157 U	0.023 U	0.0166 U	NA	NA	NA	NA	0.0159 U	NA	NA	NA	NA	NA	NA	NA	**0.063**	NA	NA

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG14	OU2SG14	OU2SG14	OU2SG14	OU2SG14	OU2SG15	OU2SG15	OU2SG15	Duplicate of OU2SG15	OU2SG16	OU2SG16	OU2SG16	OU2SG17	OU2SG17	OU2SG17	Duplicate of OU2SG17	OU2SG18	OU2SG18	OU2SG18
Sample Date:	6/14/2007	12/19/2007	4/3/2008	6/19/2008	9/18/2008	4/3/2008	6/19/2008	9/18/2008	9/18/2008	4/3/2008	6/24/2008	9/18/2008	4/3/2008	6/20/2008	9/22/2008	9/22/2008	4/3/2008	6/19/2008	9/18/2008
BTEX (ug/m3)																			
Benzene	1.3 U	0.64 U	0.64 U	0.64 UJ	0.64 U	**0.72**	0.64 UJ	0.64 U	0.64 U	**0.28 J**	0.64 U	0.64 U	**0.25 J**	0.64 UJ	0.64 U	0.64 U	0.64 U	0.64 UJ	0.64 U
Ethylbenzene	1.7 U	0.87 U	0.87 U	0.87 U	0.87 U	**0.68 J**	**0.30 J**	**0.22 J**	**0.22 J**	**1.1**	**0.69 J**	**0.48 J**	**0.50 J**	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	**0.30 J**
Toluene	**17**	**2.8**	**4.9**	**7.5**	**7.5**	**2.1**	**1.2**	**0.60 J**	**0.72 J**	**1.6**	**9.6**	**6.3**	**1.6**	**0.49 J**	**0.45 J**	**0.45 J**	**0.27 J**	**0.49 J**	**0.94**
Xylene, m,p-	3.4 U	**0.22 J**	**0.45 J**	**0.52 J**	**0.61 J**	**2.2**	**0.87 J**	**0.52 J**	**0.56 J**	**3.7**	**2.1**	**1.3 J**	**1.5 J**	**0.35 J**	**0.35 J**	**0.30 J**	1.7 U	**0.43 J**	**0.82 J**
Xylene, o-	1.7 U	0.87 U	0.87 U	0.87 U	**0.22 J**	**1.0**	**0.35 J**	**0.30 J**	**0.30 J**	**2.7**	**0.95**	**0.65 J**	**0.97**	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	**0.43 J**
Other VOCs (ug/m3)																			
Acetaldehyde	**94**	1.8 U	4.5 U	**22**	**9.7 J**	4.5 U	**10**	**9.6**	**11**	4.5 U	**52**	**8.5 J**	**12**	**3.7 J**	**7.2 J**	**6.8**	4.7 U	**6.0**	**8.1 J**
Acetone	**7**	1.6 U	2.0 U	**65**	**3.6 J**	3.6 U	**6.8**	**2.8 J**	**5.0 J**	1.9 U	**28**	**3.8**	7.7 U	**3.5**	**3.5**	**2.7**	2.6 U	**3.8**	**12**
Acrolein (propenal)	0.9 UJ	0.46 U	1.2 U	**0.34 J**	0.46 U	**0.16 J**	**0.27 J**	0.46 U	0.46 U	1.2 U	**0.46**	0.46 U	**0.44 J**	0.46 U	0.46 U	0.46 U	1.2 U	**0.14 J**	0.46 U
Allyl chloride	1.2 U	0.63 UJ	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 UJ	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzothiophene	2.2 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 U	1.1 UJ	1.1 UJ	1.1 U	1.1 U	1.1 UJ	1.1 U	1.1 U	1.1 UJ	1.1 UJ	1.1 U	1.1 U	1.1 UJ	1.1 UJ	1.1 U
Bromodichloromethane	2.6 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	4.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	1.5 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	0.87 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Butane	0.94 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	**0.26 J**	**0.17 J**	0.48 U	**0.28 J**	**0.14 J**	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Butanone, 2-	1.2 UJ	**0.32 J**	**0.60 J**	**0.77**	**0.65**	**0.62 J**	**1.7**	**0.88**	**1.3**	**0.29 J**	**2.1**	**1.6**	**2.3**	**0.68**	**0.62**	**0.77**	**0.55 J**	**0.59**	**1.5**
Carbon disulfide	3.1 U	**0.40 J**	**0.79**	**3.0**	**1.9**	**0.21 J**	1.2 U	0.62 U	0.65 U	**0.85**	**1.2**	0.75 U	**1.6**	0.62 U	0.62 U	0.62 U	**0.34 J**	0.62 U	0.62 U
Carbon tetrachloride	2.5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Chlorobenzene	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	1 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	1.9 U	0.98 U	**1.1**	0.98 U	**0.49 J**	0.98 U	**2.0**	**0.34 J**	0.98 U	**3.0**	**6.1**	**7.1**	**1.7**	**3.2**	**1.1**	**0.98**	**0.44 J**	**1.2**	**0.93 J**
Chloromethane	0.81 U	0.41 U	0.41 U	**0.23 J**	0.41 U	0.41 U	**0.17 J**	0.41 U	0.41 U	0.41 U	**0.12 J**	0.41 U	**0.19 J**	**0.12 J**	0.41 U	0.41 U	0.41 U	**0.17 J**	0.41 U
Chlorotoluene, 2-	2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	**0.81 J**	0.69 U	**0.26 J**	**0.48 J**	**0.48 J**	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	**0.28 J**	**0.31 J**	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Decane, n-	**1.2 J**	1.2 U	**0.30 J**	**0.64 J**	1.2 U	**10**	**12**	**57**	**57**	**2.4**	**72**	**100**	**1.4**	**3.7**	**18**	**17**	1.2 U	**10**	**61**
Dibromochloromethane	3.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	3 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**1.4**	**1.8**	**1.8**	1.2 U	**6.2**	**2.0**	1.2 U	**0.36 J**	**0.36 J**	**0.36 J**	1.2 U	1.2 U	**1.7**
Dichlorobenzene, 1,4-	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	**0.41 J**	1.2 U	1.2 U	1.2 U	1.2 U	**0.60 J**	**0.36 J**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	**2.2**	**3.3**	**2.0**	**2.3**	**2.8**	**2.0**	**3.7**	**2.6**	**2.6**	**1.8**	**2.2**	**2.8**	**2.9**	**2.7**	**3.0**	**2.9**	**3.0**	**2.5**	**3.0**
Dichloroethane, 1,1-	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	1.6 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethene, cis-1,2-	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloroethene, 1,1-	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	1.8 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	3.6 U	1.8 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Dodecane, n-	**18 J**	**1.7**	**0.77 J**	**6.1 J**	**0.56 J**	**7.7**	**20 J**	**33 J**	**14 J**	**1.9**	**71 J**	**41**	**0.70 J**	**4.2 J**	**13**	**10**	1.4 U	**37 J**	**20**
Ethanol	**2.7 J**	**0.73 J**	**1.1 J**	**1.4 J**	**0.94 J**	**4.3 J**	**4.5**	**12**	**12**	**1.3 J**	**2.2**	**36**	**6.4**	**1.5 J**	**3.2**	**2.8**	**1.5 J**	**3.0**	**25**
Ethylthiophene, 2-	1.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Ethyltoluene, p-	1.9 U	0.98 U	0.98 U	0.98 U	0.98 U	**0.42 J**	0.98 U	0.98 U	0.98 U	**0.79 J**	**0.49 J**	**0.25 J**	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Heptane, n-	1.6 U	0.82 UJ	0.82 UJ	0.82 U	0.82 U	**0.23 J**	0.82 U	0.82 U	0.82 U	0.82 UJ	**1.2 J**	**1.2**	0.82 UJ	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**0.82**
Hexachlorobutadiene	4.2 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Hexane, n-	1.4 U	0.70 U	0.70 U	0.70 UJ	0.70 U	**0.26 J**	0.70 UJ	0.70 U	0.70 U	0.70 U	**0.49 J**	**0.39 J**	0.70 U	0.70 UJ	0.70 U	0.70 U	0.70 UJ	0.70 UJ	0.70 U
Hexanone, 2-	1.6 U	0.82 U	0.82 U	**0.25 J**	0.82 U	0.82 U	**0.45 J**	**1.4**	**1.3**	0.82 U	0.82 U	**2.1**	0.82 U	**0.25 J**	0.82 U	0.82 U	0.82 U	**0.20 J**	**1.9**
Indan	1.9 U	0.97 U	0.97 U	0.97 U	0.97 U	**0.26 J**	0.97 U	0.97 U	0.97 U	**0.52 J**	**0.72 J**	**0.29 J**	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
Indene	1.9 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	1.4 U	0.72 U	0.72 U	0.72 UJ	0.72 U	0.72 U	0.72 UJ	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 UJ	0.72 U	0.72 U	0.72 U	0.72 U	0.72 UJ	0.72 U
Methyl-2-pentanone, 4-	1.6 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**0.25 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	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	**1.5 J**	0.69 U	1.7 U	2.2 U	2.2 U	1.7 U	1.8 U	0.69 U	1.9 U	1.7 U	1.7 U	0.69 U	1.7 U	1.7 U	0.69 U	0.69 U	1.7 U	1.8 U	0.87 U
Methylnaphthalene, 1-	2.3 UJ	14 UJ	1.2 UJ	2.9 UJ	1.2 U	1.2 UJ	2.9 U	1.2 U	1.2 U	1.2 UJ	2.9 UJ	1.2 U	1.2 UJ	2.9 UJ	1.2 U	1.2 U	1.2 UJ	2.9 UJ	1.2 U
Methylnaphthalene, 2-	2.3 UJ	14 UJ	1.2 UJ	2.9 UJ	1.2 U	1.2 UJ	2.9 U	1.2 U	1.2 U	1.2 UJ	**0.70 J**	1.2 U	1.2 UJ	2.9 UJ	1.2 U	1.2 U	1.2 UJ	2.9 UJ	1.2 U
Methylthiophene, 2-	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 UJ	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	1.6 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 UJ	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	2.1 U	1.0 U	1.0 U	**0.79 J**	**0.52 J**	**0.37 J**	**0.73 J**	**0.58 J**	**0.37 J**	1.0 U	**1.7**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.47 J**	**0.52 J**
Nonane	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.39 J**	**0.42 J**	**0.94 J**	**0.68 J**	1.0 U	**1.2**	**1.7**	1.0 U	1.0 U	**0.42 J**	**0.31 J**	1.0 U	1.0 U	**1.2**

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG14	OU2SG14	OU2SG14	OU2SG14	OU2SG14	OU2SG15	OU2SG15	OU2SG15	Duplicate of OU2SG15	OU2SG16	OU2SG16	OU2SG16	OU2SG17	OU2SG17	OU2SG17	Duplicate of OU2SG17	OU2SG18	OU2SG18	OU2SG18
Sample Date:	6/14/2007	12/19/2007	4/3/2008	6/19/2008	9/18/2008	4/3/2008	6/19/2008	9/18/2008	9/18/2008	4/3/2008	6/24/2008	9/18/2008	4/3/2008	6/20/2008	9/22/2008	9/22/2008	4/3/2008	6/19/2008	9/18/2008
Other VOCs Continued (ug/m3																			
Octane, n-	1.8 U	0.93 U	0.93 U	**0.37 J**	0.93 U	**2.7**	**10**	**130**	**140**	**1.0**	**230**	**410**	**4.3**	**4.4**	**16**	**14**	0.93 U	**0.79 J**	**250**
Pentane	1.2 U	0.59 U	0.59 U	0.59 U	0.59 U	**0.39 J**	**0.21 J**	0.59 U	0.59 U	**0.47 J**	**0.32 J**	0.59 U	**0.75**	**0.65**	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U
Propanol, 2-	4.8 U	0.49 U	**0.29 J**	**0.56 J**	0.49 U	**1.0 J**	**0.81 J**	0.49 U	0.49 U	**0.53 J**	1.7 UJ	0.49 U	**1.5**	**0.86 J**	0.49 U	0.49 U	**0.53 J**	**0.98 J**	0.49 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	1.7 U	0.85 U	0.85 U	0.85 U	0.85 U	**0.36 J**	0.85 U	0.85 U	0.85 U	0.85 U	**0.47 J**	**0.43 J**	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	**0.21 J**
t-Butyl alcohol	1.2 U	0.61 U	0.61 U	0.61 U	0.61 U	**0.68**	0.61 U	0.61 U	0.61 U	**0.28 J**	**1.8**	**0.48 J**	**0.94**	0.61 U	0.61 U	0.61 U	**0.38 J**	0.61 U	**0.48 J**
Tetrachloroethane, 1,1,2,2-	2.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	**4**	**0.54 J**	**0.89 J**	**1.8**	**1.4**	**6.4**	**5.6**	**2.1**	**2.2**	**11**	**6.5**	**4.2**	**3.9**	**1.8**	**1.0 J**	**1.0 J**	**1.2 J**	**1.4**	**1.2 J**
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	2.2 U	1.1 U	**0.29 J**	**1.5 J**	**1.2**	**1.1**	**1.0 J**	**1.0 J**	**1.0 J**	**0.81 J**	**3.6 J**	**1.6**	1.1 U	1.1 U	**0.44 J**	**0.27 J**	1.1 U	1.1 U	**0.66 J**
Thiophene	1.4 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	1.6 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	3 U	1.5 U	**0.52 J**	**0.46 J**	**0.61 J**	**0.55 J**	1.5 U	**0.61 J**	**0.54 J**	**1.5 J**	**0.61 J**	**0.46 J**	**0.74 J**	**0.54 J**	**0.61 J**	**0.61 J**	**0.80 J**	**0.61 J**	**0.61 J**
Trichlorobenzene, 1,2,4-	2.9 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	2.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	2.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	**5.2**	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	**1.2 J**	**1.7**	**1.1**	**1.2**	**1.4**	**1.2**	**1.9**	**1.1**	**1.2**	**1.4**	**2.2**	**1.7**	**1.9**	**1.6**	**1.6**	**1.6**	**1.7**	**1.6**	**1.5**
Trimethylbenzene, 1,2,3-	1.9 U	0.98 U	0.98 U	0.98 U	0.98 U	**1.8**	**0.88 J**	**0.49 J**	**0.44 J**	**3.8**	**3.6**	**0.69 J**	**0.66 J**	**0.29 J**	0.98 U	0.98 U	0.98 U	**0.59 J**	**0.44 J**
Trimethylbenzene, 1,2,4-	1.9 U	0.98 U	0.98 U	0.98 U	0.98 U	**0.53 J**	0.98 U	**0.93 J**	**0.93 J**	**0.46 J**	**0.88 J**	**1.5**	0.98 U	0.98 U	**0.39 J**	**0.39 J**	0.98 U	0.98 U	**0.98**
Trimethylbenzene, 1,3,5-	1.9 U	0.98 U	0.98 U	0.98 U	0.98 U	**1.3**	**0.54 J**	0.98 U	**0.25 J**	**1.7**	**1.8**	**0.39 J**	**0.38 J**	0.98 U	0.98 U	0.98 U	0.98 U	**0.39 J**	**0.25 J**
Trimethylpentane, 2,2,4-	1.8 U	0.93 U	0.93 UJ	0.93 U	0.93 U	**0.36 J**	0.93 U	0.93 U	0.93 U	0.93 UJ	0.93 U	**1.4**	0.93 UJ	0.93 U	0.93 U	0.93 U	0.93 UJ	0.93 U	**0.84 J**
Undecane, n-	**2.5 J**	**0.96 J**	**0.45 J**	1.3 U	**0.57 J**	**2.9**	**10**	1.3 UJ	1.3 UJ	**0.80 J**	**16**	1.3 UJ	**0.92 J**	**2.1**	1.3 UJ	1.3 UJ	1.3 U	**0.51 J**	1.3 UJ
Vinyl bromide	1.7 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	1 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)																			
Helium	NA	NA	NA	0.0167 U	**0.021**	NA	0.0172 U	0.016 U	0.018 U	NA	NA	0.0171 U	NA	0.0316 U	0.0181 U	0.0215 U	NA	0.0182 U	0.0162 U

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG22	OU2SG22	OU2SG22	OU2SG23	OU2SG23	Duplicate of OU2SG23	OU2SG24	OU2SG24	Duplicate of OU2SG24	OU2SG24	OU2SG24a	OU2SG24	OU2SG25	OU2SG25	Duplicate of OU2SG25	OU2SG26	Duplicate of OU2SG26	OU2SG26
Sample Date:	3/27/2008	6/19/2008	9/23/2008	3/27/2008	6/19/2008	6/19/2008	4/3/2008	6/25/2008	6/25/2008	8/13/2008	9/24/2008	9/24/2008	8/13/2008	9/24/2008	9/24/2008	8/13/2008	8/13/2008	9/23/2008
BTEX (ug/m3)																		
Benzene	**1.0**	0.64 UJ	**0.83**	**0.38 J**	0.64 UJ	0.64 UJ	**0.21 J**	**0.19 J**	0.64 UJ	**0.16 J**	0.64 U	0.64 U	**9.9**	**1.8**	**2.1 J**	**0.35 J**	**0.29 J**	0.64 U
Ethylbenzene	**0.42 J**	**0.22 J**	**8.6**	**0.38 J**	0.87 U	0.87 U	**0.26 J**	**0.26 J**	**0.39 J**	0.87 U	0.87 U	0.87 U	**17 J**	**1.2**	**1.3 J**	0.87 U	0.87 U	**1.3**
Toluene	**1.7**	**4.1**	**620**	**1.4**	**4.2**	**4.2**	**1.6**	**24**	**22**	**0.64 J**	**0.38 J**	**0.26 J**	**30**	**9.9**	**8.4**	**0.49 J**	**0.26 J**	**1.7**
Xylene, m,p-	**1.4 J**	**0.65 J**	**32**	**1.3 J**	**0.35 J**	**0.43 J**	**0.64 J**	**0.69 J**	**1.0 J**	**0.35 J**	**0.30 J**	1.7 U	**13 J**	**2.8**	**2.7 J**	**0.30 J**	**0.26 J**	**8.6**
Xylene, o-	**0.54 J**	**0.26 J**	**14**	**0.49 J**	0.87 U	0.87 U	**0.32 J**	**0.3 J**	**0.48 J**	0.87 U	0.87 U	0.87 U	**16**	**1.7**	**1.7 J**	0.87 U	0.87 U	**3.2**
Other VOCs (ug/m3)																		
Acetaldehyde	4.5 U	**6.0**	1.8 UJ	4.5 U	**7.6 J**	**5.3 J**	4.5 U	**15**	**12**	**22 J**	1.8 UJ	**5.7 J**	18 U	1.8 UJ	9.0 UJ	**26 J**	**37 J**	**9.7 J**
Acetone	4.9 U	**3.5**	0.47 UJ	**7.7 J**	**2.8 J**	**4.8 J**	1.9 U	4.8 U	**6.2**	**7.0 J**	**3.4 J**	**2.5**	4.8 UJ	0.47 UJ	2.4 U	**9.0 J**	**6.6 J**	**6.2**
Acrolein (propenal)	1.2 U	**0.23 J**	0.46 U	1.2 U	**0.18 J**	**0.18 J**	1.2 U	**0.39 J**	**0.34 J**	0.46 U	0.46 U	0.46 U	4.6 U	**0.22 J**	2.3 U	0.46 U	**0.27 J**	**0.25 J**
Allyl chloride	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	6.3 U	0.63 U	3.1 U	0.63 U	0.63 U	0.63 U
Benzothiophene	1.1 U	1.1 UJ	1.1 U	1.1 U	1.1 UJ	1.1 UJ	1.1 UJ	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	5.5 U	1.1 U	1.1 U	1.1 U
Bromodichloromethane	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	**0.94 J**	1.3 U	1.3 U	13 U	1.3 U	6.7 U	**0.54 J**	**0.54 J**	1.3 U
Bromoform	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	21 U	2.1 U	10 U	2.1 U	2.1 U	2.1 U
Bromomethane	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	7.8 U	0.78 U	3.9 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	4.4 U	0.44 U	2.2 U	0.44 U	0.44 U	0.44 U
Butane	**0.50**	0.48 U	**4.2**	0.48 U	0.48 U	**0.14 J**	**0.18 J**	0.48 U	0.48 U	**0.74**	**2.5**	0.48 U	**2200**	**1100 J**	**1600 J**	**2.8**	**2.8**	0.48 U
Butanone, 2-	**0.73 J**	**0.85**	**0.50 J**	**14**	**0.44 J**	**0.59**	**0.66 J**	**0.88**	**1.0**	**1.7**	**1.1**	**0.93**	**31**	**2.3**	**2.6 J**	**2.4 J**	**1.6 J**	**1.6**
Carbon disulfide	**0.36 J**	0.84 U	**16**	**0.38 J**	0.62 U	0.81 U	**0.51 J**	1.1 U	0.75 U	0.44 U	**0.25 J**	**0.18 J**	5.6 U	**0.82**	**1.4 J**	**1.5**	**1.5**	**0.34 J**
Carbon tetrachloride	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	13 U	1.3 U	6.3 U	1.3 U	1.3 U	1.3 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	9.2 U	0.92 U	4.6 U	0.92 U	0.92 U	0.92 U
Chloroethane	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	5.3 U	0.53 U	2.6 U	0.53 U	0.53 U	0.53 U
Chloroform	**1.0**	**18**	**18**	**0.34 J**	**1.4**	**2.2**	**0.36 J**	**2.4**	**2.3**	**6.7**	**7.5**	**6.9**	9.8 U	0.98 U	4.9 U	**120**	**130**	**28**
Chloromethane	**0.44**	**0.25 J**	0.41 U	0.41 U	**0.12 J**	**0.27 J**	**0.14 J**	**0.21 J**	**0.14 J**	**0.52**	0.41 U	0.41 U	4.1 U	0.41 U	2.1 U	**0.60**	**0.64**	**0.31 J**
Chlorotoluene, 2-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	5.2 U	1.0 U	1.0 U	1.0 U
Cryofluorane	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	14 U	1.4 U	7.0 U	1.4 U	1.4 U	1.4 U
Cyclohexane	0.69 U	0.69 U	**84**	0.69 U	**0.34 J**	**0.28 J**	**0.28 J**	**1.1**	**1.1**	0.69 U	0.69 U	0.69 U	**220**	**80**	**100**	**0.17 J**	0.69 U	0.69 U
Decane, n-	**3.0**	**11**	**1.3**	**2.0**	**7.6**	**7.3**	**1.7**	**4.9**	**4.3**	**18**	**18**	**16**	**210**	**18**	**14**	**20**	**20**	**80**
Dibromochloromethane	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	17 U	1.7 U	8.5 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	15 U	1.5 U	7.7 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	**0.60 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 U	12 U	1.2 U	6.0 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	**0.74 J**	**1.3**	1.2 U	**0.48 J**	1.2 U	1.2 U	**0.59 J**	**1.3**	**1.0 J**	**1.1 J**	**0.43 J**	0.31 U	12 U	**0.31 J**	6.0 U	**0.42 J**	**0.36 J**	**1.7**
Dichlorobenzene, 1,4-	1.2 U	1.2 U	**2.0**	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	12 U	1.2 U	6.0 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	**2.0**	**2.5**	**2.5**	**2.1**	**2.5**	**3.3**	**2.3**	**2.5**	**2.5**	**2.7**	**3.0**	**2.8**	9.9 U	**0.73 J**	4.9 U	**3.1**	**3.3**	**2.8**
Dichloroethane, 1,1-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	8.1 U	0.81 U	4.0 U	**0.44 J**	**0.44 J**	0.81 U
Dichloroethane, 1,2-	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	8.1 U	0.81 U	4.0 U	0.81 U	0.81 U	0.81 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U	0.79 U	4.0 U	0.79 U	0.79 U	0.79 U
Dichloroethene, 1,1-	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U	0.79 U	4.0 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	9.2 U	0.92 U	4.6 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	9.1 U	0.91 U	4.5 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	9.1 U	0.91 U	4.5 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	7.2 U	0.72 U	3.6 U	0.72 U	0.72 U	0.72 U
Dodecane, n-	**1.8**	**11 J**	**3.2**	**2.9**	**26 J**	**24 J**	**1.0 J**	**11 J**	**10 J**	**8.7**	**6.6**	**7.4**	**98**	**7.6 J**	**9.6**	**13 J**	**12**	**28**
Ethanol	**9.0**	**2.7**	**1.4 J**	**4.6 J**	**1.4 J**	**1.8 J**	**6.2**	**4.8**	**4.0**	**11**	**5.9**	**3.8**	**23**	**4.3**	**6.9 J**	**8.6 J**	**5.7 J**	**12**
Ethylthiophene, 2-	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	9.2 U	0.92 U	4.6 U	0.92 U	0.92 U	0.92 U
Ethyltoluene, p-	0.98 U	**0.29 J**	**0.88 J**	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	**0.25 J**	0.98 U	0.98 U	0.98 U	**4.9 J**	**0.63 J**	4.9 U	0.98 U	0.98 U	**2.3**
Heptane, n-	**0.46 J**	0.82 U	**0.74 J**	0.82 U	0.82 U	0.82 U	0.82 UJ	0.82 U	0.82 U	**0.57 J**	0.82 U	0.82 U	**20**	**6.1**	**7.2**	**0.53 J**	**0.37 J**	**0.33 J**
Hexachlorobutadiene	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	21 U	2.1 U	11 U	2.1 U	2.1 U	2.1 U
Hexane, n-	**0.28 J**	0.70 UJ	**14**	**0.45 J**	**0.28 J**	**0.42 J**	**0.78**	**2.8 J**	**2.2 J**	0.70 U	0.70 U	0.70 U	**85**	**35**	**40**	**0.25 J**	0.70 U	0.70 U
Hexanone, 2-	0.82 U	**0.45 J**	0.82 U	**1.1**	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	8.2 U	0.82 U	4.1 U	**1.6**	0.82 U	0.82 U
Indan	0.97 U	0.97 U	**0.63 J**	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	**120**	**7.9**	**8.1**	0.97 U	0.97 U	**1.3**
Indene	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	4.8 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 UJ	0.72 U	0.72 U	0.72 UJ	0.72 UJ	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	7.2 U	0.72 U	3.6 U	**2.5**	**2.7**	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	0.82 U	**1.6**	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	8.2 U	0.82 U	4.1 U	0.82 U	0.82 U	0.82 U
Methylene chloride	**0.28 J**	1.7 U	0.69 U	**0.34 J**	1.7 UJ	**15 J**	1.7 U	2.3 U	1.7 U	0.69 UJ	0.69 U	0.83 U	6.9 UJ	0.69 U	3.4 U	0.62 UJ	0.69 UJ	0.69 UJ
Methylnaphthalene, 1-	1.2 U	2.9 UJ	**0.29 J**	1.2 U	2.9 UJ	2.9 UJ	1.2 UJ	2.9 U	2.9 U	1.2 U	1.2 UJ	1.2 UJ	12 U	**0.34 J**	5.8 UJ	1.2 U	1.2 U	1.2 U
Methylnaphthalene, 2-	1.2 U	2.9 UJ	**0.58 J**	1.2 U	2.9 UJ	2.9 UJ	1.2 UJ	2.9 U	2.9 U	1.2 U	1.2 U	1.2 U	12 U	**0.41 J**	5.8 U	1.2 U	1.2 U	1.2 U
Methylthiophene, 2-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.8 U	0.80 U	0.80 U	0.80 U	0.80 U	8.0 U	0.80 U	4.0 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.8 U	0.80 U	0.80 U	0.80 U	0.80 U	8.0 U	0.80 U	4.0 U	0.80 U	0.80 U	0.80 U
Naphthalene	1.0 U	**0.42 J**	**1.9**	1.0 U	**0.37 J**	**0.26 J**	1.0 U	**0.31 J**	**0.42 J**	**0.31 J**	1.0 U	1.0 U	**3.7 J**	**0.85 J**	5.2 U	**0.37 J**	**0.42 J**	**0.79 J**
Nonane	**0.30 J**	1.0 U	**0.31 J**	1.0 U	1.0 U	1.0 U	1.0 U	1 U	1.0 U	**0.42 J**	**0.32 J**	1.0 U	**28**	1.0 U	**4.1 J**	**0.37 J**	**0.37 J**	**13**

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG22	OU2SG22	OU2SG22	OU2SG23	OU2SG23	Duplicate of OU2SG23	OU2SG24	OU2SG24	Duplicate of OU2SG24	OU2SG24	OU2SG24a	OU2SG24	OU2SG25	OU2SG25	Duplicate of OU2SG25	OU2SG26	Duplicate of OU2SG26	OU2SG26
Sample Date:	3/27/2008	6/19/2008	9/23/2008	3/27/2008	6/19/2008	6/19/2008	4/3/2008	6/25/2008	6/25/2008	8/13/2008	9/24/2008	9/24/2008	8/13/2008	9/24/2008	9/24/2008	8/13/2008	8/13/2008	9/23/2008
Other VOCs Continued (ug/m3																		
Octane, n-	**3.2**	**11**	**0.42 J**	**1.6**	**0.75 J**	**0.70 J**	**9.7**	**1.6**	**1.5**	**80**	**42**	**26**	**210**	**24**	**27**	**69**	**62**	**93**
Pentane	**0.51 J**	0.59 U	**0.56 J**	**0.20 J**	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	**420**	**130 J**	**200 J**	**0.74**	**0.50 J**	0.59 U
Propanol, 2-	**1.6**	**0.59 J**	0.49 U	**0.96 J**	1.2 UJ	**1.2 J**	**1.0 J**	1.2 UJ	1.2 UJ	0.66 U	0.49 U	0.49 U	6.9 U	**1.7 J**	2.5 U	0.52 U	0.49 U	0.49 U
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA
Styrene	0.85 U	**0.30 J**	**3.6**	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	8.5 U	0.85 U	4.3 U	0.85 U	0.85 U	**0.21 J**
t-Butyl alcohol	**0.39 J**	0.61 U	0.61 U	**0.77**	0.61 U	0.61 U	**0.36 J**	**1**	**0.88**	0.61 UJ	0.61 U	0.61 U	6.1 UJ	0.61 U	3.0 U	0.61 UJ	0.61 UJ	0.61 U
Tetrachloroethane, 1,1,2,2-	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	14 U	1.4 U	6.9 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	**1.4**	**5.4**	**14**	**0.88 J**	**1.4**	**2.2**	**3.3**	**4.1**	**3.5**	**1.0 J**	**1.6**	**1.4 J**	14 U	**0.66 J**	6.8 U	**6.0**	**6.0**	**3.2**
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	1.1 U	**0.66 J**	**3.0**	**0.45 J**	**0.27 J**	1.1 U	1.1 U	1.1 U	1.1 U	**0.33 J**	1.1 U	1.1 U	**22**	**5.5**	**5.0 J**	**0.38 J**	**0.38 J**	**3.6**
Thiophene	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	6.9 U	0.69 U	3.4 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	7.9 U	0.79 U	4.0 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	1.5 U	**0.61 J**	**0.54 J**	**0.48 J**	**0.54 J**	**0.69 J**	**0.71 J**	**0.54 J**	**0.46 J**	**0.61 J**	**0.66 J**	**0.64 J**	15 U	1.5 U	7.7 U	**0.92 J**	**0.92 J**	**0.77 J**
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	15 U	1.5 U	7.4 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	5.4 U	**1.6**	**1.7**	**0.76 J**
Trichloroethane, 1,1,2-	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	5.4 U	1.1 U	1.1 U	1.1 U
Trichloroethene	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	11 U	1.1 U	5.4 U	**0.27 J**	**0.27 J**	1.1 U
Trichlorofluoromethane	**1.1 J**	**1.4**	**1.2**	**1.0 J**	**1.3**	**1.6**	**1.3**	**1.5**	**1.5**	**1.5**	**1.6**	**1.6**	11 U	1.1 U	5.6 U	**2.2**	**2.2**	**2.1**
Trimethylbenzene, 1,2,3-	**0.72 J**	**0.74 J**	**1.2**	**0.98**	**0.49 J**	**0.44 J**	**0.38 J**	**0.49 J**	**0.44 J**	0.98 U	0.98 U	0.98 U	**31**	**3.7**	**3.7 J**	**0.25 J**	**0.25 J**	**4.6**
Trimethylbenzene, 1,2,4-	0.98 U	0.98 U	**3.3**	**0.32 J**	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	**0.34 J**	**0.32 J**	**0.27 J**	**41**	**4.2**	**3.9 J**	**0.49 J**	**0.54 J**	**12**
Trimethylbenzene, 1,3,5-	**0.36 J**	**0.49 J**	**0.98**	**0.38 J**	**0.29 J**	**0.29 J**	0.98 U	0.98 U	**0.44 J**	0.98 U	0.98 U	0.98 U	**15**	**2.6**	**2.6 J**	0.98 U	0.98 U	**3.9**
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	0.93 U	**0.37 J**	0.93 U	0.93 U	0.93 UJ	0.93 U	0.93 U	**0.56 J**	0.93 U	0.93 U	**50 J**	0.93 U	4.7 U	**0.47 J**	**0.37 J**	**0.42 J**
Undecane, n-	**1.0 J**	**1.2 J**	1.3 UJ	**0.89 J**	**0.57 J**	**0.38 J**	**0.49 J**	**5.7**	**7.2**	1.3 U	1.3 UJ	1.3 UJ	**79**	1.3 UJ	6.4 UJ	1.3 U	1.3 U	**22**
Vinyl bromide	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	8.7 U	0.87 U	4.4 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	5.1 U	0.51 U	2.6 U	0.51 U	0.51 U	0.51 U
Other (%)																		
Helium	NA	0.0185 U	0.0182 U	NA	0.0157 U	0.019 U	NA	0.0174 U	0.0189 U	0.0145 U	0.0156 U	0.0157 U	0.0164 U	0.0186 U	0.0171 U	0.0177 U	0.0175 U	0.0155 U

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG29	OU2SG29	OU2SG30	OU2SG30	OU3SG01	OU3SG01	OU3SG01	OU3SG01	OU3SG01	OZSG01	OZSG01	OZSG01	OZSG01	OZSG02	OZSG02	OZSG02	OZSG03	OZSG03	OZSG03
Sample Date:	8/13/2008	9/23/2008	8/13/2008	9/23/2008	9/20/2007	12/19/2007	4/3/2008	6/19/2008	9/17/2008	2/19/2008	3/17/2008	3/21/2008	6/25/2008	2/19/2008	3/17/2008	6/25/2008	2/21/2007	2/19/2008	3/17/2008
BTEX (ug/m3)																			
Benzene	0.64 U	**0.26 J**	3.2 U	0.64 U	**0.50 J**	**0.89**	**0.88**	**0.70 J**	**0.19 J**	**0.22 J**	**1.2 J**	**0.21 J**	**2.2 J**	**0.26 J**	**0.20 J**	**0.16 J**	**1.0 J**	0.64 U	**0.23 J**
Ethylbenzene	0.87 U	**1.8**	4.3 U	**1.1 J**	1.9 U	**4.2**	**3.1**	**14**	**4.1**	**0.35 J**	**22**	**1.6**	**0.35 J**	**0.35 J**	**0.82 J**	**0.22 J**	**2.5**	0.87 U	**0.83 J**
Toluene	**0.56 J**	**2.7**	3.8 U	**1.2 J**	**3.8**	**49**	**360**	**790**	**120**	**15**	**7.8**	**2.2**	**1.8**	**6.6**	**5.2**	**4.7**	**6.6**	**4.6**	**3.9**
Xylene, m,p-	**0.26 J**	**9.2**	8.7 U	**6.1 J**	**0.58 J**	**16**	**7.7**	**35**	**21**	**1.1 J**	**4.9 J**	**0.83 J**	**0.48 J**	**0.87 J**	**2.6**	**0.65 J**	**7.2**	**0.56 J**	**2.8**
Xylene, o-	0.87 U	**3.4**	4.3 U	**2.5 J**	**0.67 J**	**6.5**	**3.7**	**19**	**27**	**0.39 J**	**1.5 J**	0.87 U	**0.22 J**	**0.43 J**	**0.87**	0.87 U	**2.9**	**0.22 J**	**1.3**
Other VOCs (ug/m3)																			
Acetaldehyde	**11 J**	**18**	**37 J**	**22 J**	**21**	1.8 U	4.5 U	**3.1 J**	**3.0 J**	**1.6 J**	22 U	**7.2 J**	**120 J**	**1.7 J**	4.5 U	**17**	**0.55 J**	**2.1 J**	4.5 U
Acetone	**5.6 J**	**7.7**	6.5 UJ	**2.8 J**	**7.0**	2.8 U	1.9 U	**1.8**	**1.6**	**2.5 J**	5.9 U	1.2 U	**91**	**1.7**	1.2 U	**7.7**	**12**	**3.7 J**	1.2 U
Acrolein (propenal)	0.46 U	**0.39 J**	2.3 U	0.46 U	1.0 U	0.46 U	1.2 U	0.46 U	0.46 U	0.46 U	5.7 U	1.2 U	**3.2**	0.46 U	1.2 U	**0.64**	0.93 U	0.46 U	1.2 U
Allyl chloride	0.63 U	0.63 U	3.1 U	0.63 U	1.4 U	0.63 UJ	0.63 U	0.63 U	0.63 U	0.63 U	3.1 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	1.3 U	0.63 U	0.63 U
Benzothiophene	1.1 U	1.1 U	5.5 U	1.1 U	2.4 U	1.1 UJ	1.1 UJ	1.1 UJ	1.1 U	1.1 UJ	5.5 U	1.1 U	1.1 U	1.1 UJ	1.1 U	1.1 U	11 UJ	1.1 UJ	1.1 U
Bromodichloromethane	**0.33 J**	1.3 U	6.7 U	1.3 U	3.0 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.7 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	2.7 U	1.3 U	**3.0**
Bromoform	2.1 U	2.1 U	10 U	2.1 U	4.6 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	10 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.2 U	2.1 U	2.1 U
Bromomethane	0.78 U	0.78 U	3.9 U	0.78 U	1.7 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	3.9 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	1.6 U	0.78 U	0.78 U
Butadiene, 1,3-	0.44 U	0.44 U	2.2 U	0.44 U	0.98 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	2.2 U	0.44 U	**3.6**	0.44 U	0.44 U	0.44 U	0.90 U	0.44 U	0.44 U
Butane	**0.97 J**	**0.38 J**	**7.0**	0.48 U	1.0 U	**2.9**	0.48 U	**0.14 J**	0.48 U	**0.62**	**83**	**12**	**5.8**	**0.43 J**	**27**	**0.40 J**	**3.1**	0.48 U	**4.5**
Butanone, 2-	**0.94 J**	**1.8**	**1.2 J**	**0.97 J**	**1.8**	**0.62**	**0.38 J**	0.59 U	**0.50 J**	**0.62**	3.0 U	**0.34 J**	**13**	**0.44 J**	**1.2**	**9.6**	**0.90 J**	**26**	**1.0**
Carbon disulfide	0.93 U	**0.34 J**	3.0 U	**0.75 J**	**3.0**	**1.5**	**8.5**	**82**	**88**	**0.22 J**	3.1 U	**0.26 J**	1.3 U	**0.59 J**	0.65 U	0.93 U	1.3 U	0.62 U	0.62 U
Carbon tetrachloride	1.3 U	1.3 U	6.3 U	1.3 U	2.8 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	6.3 U	**0.38 J**	1.3 U	1.3 U	1.3 U	1.3 U	2.6 U	**0.41 J**	**0.63 J**
Chlorobenzene	0.92 U	0.92 U	4.6 U	0.92 U	2.0 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	1.9 U	0.92 U	0.92 U
Chloroethane	0.53 U	0.53 U	2.6 U	0.53 U	1.2 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	2.6 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	1.1 U	0.53 U	**0.42 J**
Chloroform	**1.1 J**	**0.73 J**	**6.3**	**3.6 J**	**3.7**	**0.54 J**	**0.64 J**	**2.5**	**4.2**	**0.93 J**	4.9 U	**1.4**	**0.78 J**	0.98 U	0.98 U	**0.24 J**	2.0 U	**2.9**	**40**
Chloromethane	0.41 U	**0.27 J**	2.1 U	**0.12 J**	0.92 U	0.41 U	**0.15 J**	**0.12 J**	0.41 U	0.41 U	2.1 U	0.41 U	**0.21 J**	0.41 U	0.41 U	**0.37 J**	**0.25 J**	0.41 U	0.41 U
Chlorotoluene, 2-	1.0 U	1.0 U	5.2 U	1.0 U	2.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1 U	1.0 U	1.0 U
Cryofluorane	1.4 U	1.4 U	7.0 U	1.4 U	3.1 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	7.0 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	1.4 U	1.4 U
Cyclohexane	0.69 U	0.69 U	3.4 U	0.69 U	**1.8**	**0.21 J**	**70**	**270**	**190**	**0.21 J**	**1300**	**220**	0.69 U	0.69 U	**22**	0.69 U	1.4 U	0.69 U	**10**
Decane, n-	**15 J**	**57**	**16**	**12 J**	2.6 U	**1.9**	1.2 U	1.2 U	1.2 UJ	**5.4**	**7.6**	**3.7**	**0.41 J**	**2.8**	**9.2**	**3.1**	**1.4 J**	**3.3**	**10**
Dibromochloromethane	**0.68 J**	1.7 U	8.5 U	1.7 U	3.8 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	8.5 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.5 U	1.7 U	1.7 U
Dibromoethane, 1,2-	1.5 U	1.5 U	7.7 U	1.5 U	3.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.1 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	1.2 U	6.0 U	1.2 U	2.7 U	1.2 U	1.2 U	**0.42 J**	**0.48 J**	1.2 U	6.0 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	2.4 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	**0.54 J**	**1.1 J**	6.0 U	1.2 U	2.7 U	**0.84 J**	**0.56 J**	**2.3**	**1.3**	**1.3**	**3.3 J**	**1.4**	1.2 U	**1.0 J**	**3.2**	**0.66 J**	2.4 U	**1.2**	**3.5**
Dichlorobenzene, 1,4-	1.2 U	1.2 U	6.0 U	1.2 U	2.7 U	**0.72 J**	**0.46 J**	**2.5**	**1.5**	1.2 U	6.0 U	1.2 U	**0.48 J**	1.2 U	**0.39 J**	1.2 U	2.4 U	1.2 U	**0.38 J**
Dichlorodifluoromethane	**2.7 J**	**2.9**	**3.5 J**	**3.5 J**	**2.7**	**2.8**	**2.2**	**2.5**	**2.6**	**2.0**	**1.5 J**	**2.0**	**0.79 J**	**1.3**	**1.8**	**1.6**	**16**	**3.0**	**8.9**
Dichloroethane, 1,1-	0.81 U	0.81 U	4.0 U	0.81 U	1.8 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	4.0 U	**0.34 J**	**7.3**	0.81 U	0.81 U	0.81 U	1.6 U	0.81 U	**0.26 J**
Dichloroethane, 1,2-	0.81 U	0.81 U	4.0 U	0.81 U	1.8 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	4.0 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	1.6 U	0.81 U	0.81 U
Dichloroethene, cis-1,2-	0.79 U	0.79 U	4.0 U	0.79 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	4.0 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	1.6 U	0.79 U	0.79 U
Dichloroethene, 1,1-	0.79 U	0.79 U	4.0 U	0.79 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	4.0 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	1.6 U	0.79 U	**0.21 J**
Dichloropropane, 1,2-	0.92 U	0.92 U	4.6 U	0.92 U	2.0 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	1.9 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	0.91 U	4.5 U	0.91 U	2.0 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	4.5 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	1.8 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	0.91 U	4.5 U	0.91 U	2.0 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	4.5 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	1.8 U	0.91 U	0.91 U
Dioxane, 1,4-	0.72 U	0.72 U	3.6 U	0.72 U	1.6 U	1.8 U	0.72 U	0.72 U	0.72 U	0.72 U	3.6 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	3.6 U	0.72 U	0.72 U
Dodecane, n-	**6.9 J**	**8.6**	**8.4**	**5.0 J**	**1.8 J**	**1.2 J**	**0.62 J**	**1.0 J**	**2.5**	**1.0 J**	**2.3 J**	**5.1**	**0.49 J**	**0.70 J**	**2.1**	**5.8 J**	**2.5 J**	**0.85 J**	**2.6**
Ethanol	**5.1**	**22**	**13**	**4.0 J**	**6.6**	**21**	**3.5 J**	**3.1**	**3.4**	**2.8**	**18**	**3.4 J**	**3.4**	**1.5 J**	**11**	**2.5**	**20**	**1.6 J**	**11**
Ethylthiophene, 2-	0.92 U	0.92 U	4.6 U	0.92 U	2.0 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	1.9 U	0.92 U	0.92 U
Ethyltoluene, p-	0.98 U	**1.5**	4.9 U	**1.1 J**	2.2 U	**2.6**	**0.97 J**	**4.1**	**3.1**	0.98 U	4.9 U	0.98 U	0.98 U	0.98 U	**0.46 J**	0.98 U	**0.70 J**	0.98 U	**0.60 J**
Heptane, n-	**0.37 J**	**0.45 J**	4.1 U	0.82 U	1.8 U	**13 J**	0.82 UJ	**0.53 J**	**1.6**	**2.9**	**3.3 J**	0.82 U	**0.49 J**	**1.2**	**1.4**	0.82 U	**0.5 J**	**0.92**	**1.3**
Hexachlorobutadiene	2.1 U	2.1 U	11 U	2.1 U	4.7 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	11 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	4.3 UJ	2.1 U	2.1 U
Hexane, n-	0.70 U	0.70 U	3.5 U	0.70 U	**2.1**	**0.56 J**	**2.1**	**37 J**	**36**	0.70 U	**270**	**28**	**0.81 J**	0.70 U	**1.4**	0.70 UJ	**2.2**	0.70 U	**0.45 J**
Hexanone, 2-	0.82 U	0.82 U	4.1 U	0.82 U	1.8 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	4.1 U	0.82 U	**1.6**	0.82 U	0.82 U	0.82 U	4.2 U	0.82 U	0.82 U
Indan	0.97 U	**0.72 J**	4.8 U	**0.68 J**	2.1 U	**1.7**	**0.68 J**	**3.2**	**1.9**	0.97 U	4.8 U	0.97 U	0.97 U	0.97 U	**0.27 J**	0.97 U	**1.3 J**	0.97 U	**0.39 J**
Indene	0.95 U	0.95 U	4.8 U	0.95 U	2.1 U	0.95 U	0.95 U	**0.43 J**	0.95 U	0.95 U	4.8 U	0.95 U	**0.57 J**	0.95 U	0.95 U	0.95 U	1.9 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	0.72 U	3.6 U	0.72 U	1.6 U	0.72 U	0.72 U	0.72 UJ	0.72 U	0.72 U	3.6 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	1.5 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	0.82 U	4.1 U	0.82 U	1.8 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	4.1 U	0.82 U	**1.5**	0.82 U	0.82 U	0.82 U	**0.83 J**	0.82 U	0.82 U
Methylene chloride	0.69 UJ	0.69 U	2.4 UJ	0.69 U	**2.5**	0.69 U	1.7 U	1.7 U	2.1 U	**0.31 J**	8.5 U	**0.30 J**	1.7 U	**0.28 J**	1.7 U	6.7 U	**25**	**0.31 J**	1.7 U
Methylnaphthalene, 1-	1.2 U	1.2 U	5.8 U	1.2 U	2.6 U	14 UJ	1.2 UJ	**0.35 J**	**1.4**	1.2 UJ	5.8 U	1.2 U	2.9 U	1.2 UJ	1.2 U	2.9 U	30 U	1.2 UJ	1.2 U
Methylnaphthalene, 2-	1.2 U	1.2 U	5.8 U	1.2 U	2.6 U	14 UJ	1.2 UJ	**0.64 J**	**1.6**	1.2 UJ	5.8 U	1.2 U	2.9 U	1.2 UJ	1.2 U	2.9 U	30 U	1.2 UJ	1.2 U
Methylthiophene, 2-	0.80 U	0.80 U	4.0 U	0.80 U	1.8 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	1.6 U	0.80 U	0.80 U
Methylthiophene, 3-	0.80 U	0.80 U	4.0 U	0.80 U	1.8 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	1.6 U	0.80 U	0.80 U
Naphthalene	1.0 U	1.0 U	5.2 U	**0.31 J**	2.3 U	**0.42 J**	**0.30 J**	**3.6**	**3.4**	1.0 U	5.2 U	1.0 U	1.0 U	**0.37 J**	1.0 U	1.0 U	5.3 U	1.0 U	1.0 U
Nonane	**0.31 J**	**14**	5.2 U	**8.0 J**	2.3 U	**1.7**	1.0 U	1.0 U	1.0 U	**0.52 J**	**2.0 J**	1.0 U	1.0 U	**0.42 J**	**0.80 J**	1.0 U	**1.4 J**	**0.30 J**	**1.1**

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OU2SG29	OU2SG29	OU2SG30	OU2SG30	OU3SG01	OU3SG01	OU3SG01	OU3SG01	OU3SG01	OZSG01	OZSG01	OZSG01	OZSG01	OZSG02	OZSG02	OZSG02	OZSG03	OZSG03	OZSG03
Sample Date:	8/13/2008	9/23/2008	8/13/2008	9/23/2008	9/20/2007	12/19/2007	4/3/2008	6/19/2008	9/17/2008	2/19/2008	3/17/2008	3/21/2008	6/25/2008	2/19/2008	3/17/2008	6/25/2008	2/21/2007	2/19/2008	3/17/2008
Other VOCs Continued (ug/m3													NA						
Octane, n-	**44 J**	**140**	**70**	**7.9 J**	2.1 U	**1.3**	0.93 U	**0.23 J**	**0.70 J**	**2.8**	**66**	**1.2**	0.93 U	**1.4**	**80**	**1.9**	**0.76 J**	**0.95**	**64**
Pentane	**0.77 J**	0.59 U	3.0 U	0.59 U	**0.52 J**	**0.83**	**0.44 J**	**0.41 J**	0.59 U	0.59 U	**170**	**17**	**1.9**	**0.32 J**	**12**	**0.38 J**	**0.78 J**	0.59 U	**3.7**
Propanol, 2-	0.49 U	0.49 U	2.4 U	0.49 U	**1.6**	**1.6 J**	**0.61 J**	**0.44 J**	0.49 U	0.49 U	**6.0 J**	1.2 U	1.9 UJ	0.49 U	5.5 j	1.2 UJ	**1.0**	0.49 U	**3.8 J**
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	**0.21 J**	4.3 U	0.85 U	1.9 U	**0.26 J**	**0.41 J**	**1.9**	**0.72 J**	0.85 U	4.3 U	0.85 U	**0.43 J**	0.85 U	**0.27 J**	0.85 U	1.7 U	0.85 U	**0.34 J**
t-Butyl alcohol	0.61 UJ	**0.70**	3.0 UJ	0.61 U	**3.0**	**0.45 J**	0.61 U	0.61 U	0.61 U	0.61 U	3.0 U	0.61 U	**0.76**	0.61 U	0.61 U	**0.39 J**	1.2 U	0.61 U	0.61 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	6.9 U	1.4 U	3.0 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	6.9 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	2.8 U	1.4 U	1.4 U
Tetrachloroethene	**13 J**	**4.5**	**48**	**52 J**	**0.90 J**	**0.81 J**	**1.2 J**	**4.2**	**5.2**	**0.95 J**	**9.8**	**4.2**	**57**	**3.9**	**5.8**	**5.5**	**0.96 J**	**1.0 J**	**4.4**
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**NA**	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	1.1 U	**1.2**	5.5 U	**1.8 J**	2.4 U	**0.77 J**	**0.94 J**	**16 J**	**14**	**0.27 J**	5.5 U	1.1 U	1.1 U	**0.27 J**	**0.33 J**	1.1 U	2.2 U	1.1 U	1.1 U
Thiophene	0.69 U	0.69 U	3.4 U	0.69 U	1.5 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	3.4 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	1.4 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	0.79 U	4.0 U	0.79 U	1.8 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	4.0 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	1.6 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	**0.54 J**	**0.61 J**	7.7 U	**1.0 J**	3.4 U	1.5 U	**0.76 J**	**0.61 J**	**0.46 J**	**0.54 J**	7.7 U	1.5 U	1.5 U	**0.54 J**	**0.39 J**	1.5 U	3.1 U	**0.57 J**	**0.80 J**
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	7.4 U	1.5 U	3.3 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	7.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	3.0 UJ	1.5 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	5.4 U	**1.5 J**	**1.1 J**	1.1 U	1.1 U	1.1 U	**1.0 J**	1.1 U	**2.2 J**	**1.2**	**14**	1.1 U	**0.32 J**	**7.2**	2.2 U	1.1 U	**0.29 J**
Trichloroethane, 1,1,2-	1.1 U	1.1 U	5.4 U	1.1 U	2.4 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.2 U	1.1 U	1.1 U
Trichloroethene	1.1 U	1.1 U	5.4 U	1.1 U	2.4 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	5.4 U	**1.5**	**0.64 J**	1.1 U	1.1 U	1.1 U	2.2 U	1.1 U	1.1 U
Trichlorofluoromethane	**1.5 J**	**3.0**	**2.5 J**	**2.6 J**	**1.5 J**	1.2 U	**1.3**	**1.6**	**1.3**	**2.2**	**1.7 J**	**1.2**	**4.0**	**1.4**	**1.8**	**3.0**	**1.9 J**	**1.1**	**1.8**
Trimethylbenzene, 1,2,3-	0.98 U	**2.0**	4.9 U	**2.2 J**	**0.65 J**	**2.6**	**3.4**	**12**	**5.1**	**0.84 J**	**1.8 J**	0.98 U	0.98 U	**0.69 J**	**1.5**	**0.29 J**	**2.1**	**0.65 J**	**2.0**
Trimethylbenzene, 1,2,4-	**0.29 J**	**4.9**	4.9 U	**5.9 J**	**0.98 J**	**9.5**	**0.48 J**	**0.84 J**	**5.9**	**0.34 J**	4.9 U	0.98 U	0.98 U	0.98 U	**0.53 J**	0.98 U	**4.2**	0.98 U	**0.67 J**
Trimethylbenzene, 1,3,5-	0.98 U	**1.9**	4.9 U	**2.0 J**	2.2 U	**2.7**	**1.1**	**5.9**	**2.0**	**0.34 J**	4.9 U	0.98 U	0.98 U	**0.34 J**	**0.54 J**	0.98 U	**1.1 J**	**0.26 J**	**1.0**
Trimethylpentane, 2,2,4-	**0.28 J**	**0.61 J**	4.7 U	0.93 U	2.1 U	0.93 U	0.93 UJ	0.93 U	0.93 U	0.93 U	4.7 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	1.9 U	0.93 U	0.93 U
Undecane, n-	1.3 U	**6.8**	6.4 U	**6.5 J**	**1.4 J**	**1.3**	1.3 U	1.3 U	1.3 UJ	**1.0 J**	**1.7 J**	**2.0**	**2.6**	**0.57 J**	**1.7**	**3.2**	**1.6 J**	**0.80 J**	**1.6**
Vinyl bromide	0.87 U	0.87 U	4.4 U	0.87 U	1.9 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	4.4 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	1.8 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	0.51 U	2.6 U	0.51 U	1.1 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	2.6 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	1.0 U	0.51 U	0.51 U
Other (%)																			
Helium	0.0195 U	0.0142 U	0.0189 U	0.0171 U	NA	NA	NA	0.018 U	**0.027**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OZSG03	OZSG03	OZSG04	OZSG04	OZSG04	OZSG04	OZSG05	OZSG05	OZSG05	OZSG05
Sample Date:	3/21/2008	6/25/2008	2/19/2008	3/17/2008	3/21/2008	6/25/2008	2/19/2008	3/17/2008	3/21/2008	6/25/2008
BTEX (ug/m3)										
Benzene	0.64 U	**1.3 J**	**1.1**	**0.27 J**	**0.31 J**	**4.0 J**	0.64 U	0.64 U	0.64 U	**2.8**
Ethylbenzene	0.87 U	4.3 U	**1.8**	**0.65 J**	**0.22 J**	4.3 U	**0.35 J**	**0.60 J**	0.87 U	**0.52 J**
Toluene	**1.4**	3.8 U	**8.5**	**3.6**	**1.0**	**3.6 J**	**13**	**3.7**	**1.0**	**7.3**
Xylene, m,p-	**0.44 J**	8.7 U	**5.2**	**2.0**	**0.65 J**	8.7 U	**1.1 J**	**2.0**	**0.45 J**	**1.0 J**
Xylene, o-	**0.32 J**	4.3 U	**2.1**	**0.79 J**	**0.27 J**	4.3 U	**0.39 J**	**0.71 J**	0.87 U	**0.26 J**
Other VOCs (ug/m3)										
Acetaldehyde	4.5 U	22.5 U	**3.4 J**	4.5 U	**26 J**	**230**	**2.4 J**	**5.2**	**5.4**	**32**
Acetone	2.5 U	5.9 UJ	**4.1**	1.2 U	1.2 U	**170**	**2.3**	4.8 U	2.3 U	**47**
Acrolein (propenal)	1.2 U	2.3 U	0.46 U	1.2 U	1.2 U	**3.4**	0.46 U	1.2 U	1.2 U	**1.3**
Allyl chloride	0.63 U	3.1 U	0.63 U	0.63 U	0.63 U	3.1 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzothiophene	1.1 U	5.5 U	1.1 UJ	1.1 U	1.1 U	5.5 U	1.1 UJ	1.1 U	1.1 U	1.1 U
Bromodichloromethane	**2.8**	6.7 U	1.3 U	1.3 U	1.3 U	6.7 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	2.1 U	10 U	2.1 U	2.1 U	2.1 U	10 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	0.78 U	3.9 U	0.78 U	0.78 U	0.78 U	3.9 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	0.44 U	2.2 U	0.44 U	0.44 U	0.44 U	**5.6**	0.44 U	0.44 U	0.44 U	**0.38 J**
Butane	**0.74**	**41**	**0.74**	**160**	**180**	**14**	**0.78**	0.48 U	0.48 U	**3.1**
Butanone, 2-	**0.54 J**	3.0 U	**0.50 J**	**1.4**	**1.8**	**31**	**2.1**	**32**	**0.36 J**	**6.0**
Carbon disulfide	0.62 U	3.1 U	**0.59 J**	0.62 U	**0.40 J**	4.8 U	0.62 U	0.62 U	0.62 U	1.3 U
Carbon tetrachloride	**0.54 J**	6.3 U	1.3 U	1.3 U	1.3 U	6.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Chlorobenzene	0.92 U	4.6 U	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	0.53 U	2.6 U	0.53 U	0.53 U	0.53 U	2.6 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	**44**	**130**	0.98 U	0.98 U	0.98 U	4.9 U	0.98 U	**0.36 J**	0.98 U	**1.4**
Chloromethane	0.41 U	2.1 U	0.41 U	**0.17 J**	**0.16 J**	2.1 U	0.41 U	**0.27 J**	0.41 U	**0.17 J**
Chlorotoluene, 2-	1.0 U	5.2 U	1.0 U	1.0 U	1.0 U	5.2 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	1.4 U	7.0 U	**2.0**	**1.5**	**1.1 J**	7.0 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	**1.5**	**250**	0.69 U	**0.32 J**	**0.27 J**	3.4 U	0.69 U	0.69 U	0.69 U	0.69 U
Decane, n-	1.2 UJ	5.8 U	**2.0**	**8.0**	**3.0**	5.8 U	**4.7**	**12**	**2.5**	1.2 U
Dibromochloromethane	1.7 U	8.5 U	1.7 U	1.7 U	1.7 U	8.5 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	1.5 U	7.7 U	1.5 U	1.5 U	1.5 U	7.7 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	1.2 U	6.0 U	1.2 U	1.2 U	1.2 U	6.0 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	**0.65 J**	6.0 U	1.2 U	**3.1**	**0.61 J**	6.0 U	**0.66 J**	**4.6**	**0.41 J**	1.2 U
Dichlorobenzene, 1,4-	1.2 U	6.0 U	1.2 U	**0.31 J**	1.2 U	6.0 U	1.2 U	**0.43 J**	1.2 U	**0.48 J**
Dichlorodifluoromethane	**5.8**	**5.9**	**5.2**	**4.7**	**4.1**	**4.4 J**	**2.3**	**2.4**	**2.1**	**2.8**
Dichloroethane, 1,1-	0.81 U	4.0 U	0.81 U	0.81 U	0.81 U	4.0 U	0.81 U	0.81 U	0.81 U	**2.1**
Dichloroethane, 1,2-	0.81 U	4.0 U	0.81 U	0.81 U	0.81 U	4.0 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethene, cis-1,2-	0.79 U	4.0 U	0.79 U	0.79 U	0.79 U	4.0 U	0.79 U	0.79 U	0.79 U	**0.52 J**
Dichloroethene, 1,1-	0.79 U	4.0 U	0.79 U	0.79 U	0.79 U	4.0 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	0.92 U	4.6 U	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	0.91 U	4.5 U	0.91 U	0.91 U	0.91 U	4.5 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	0.91 U	4.5 U	0.91 U	0.91 U	0.91 U	4.5 U	0.91 U	0.91 U	0.91 U	0.91 U
Dioxane, 1,4-	0.72 U	3.6 U	0.72 U	0.72 U	0.72 U	3.6 U	0.72 U	0.72 U	0.72 U	0.72 U
Dodecane, n-	**5.2**	**5.6 J**	**1.3 J**	**2.1**	**2.5**	7.0 UJ	**1.5**	**5.1**	**24**	**2.0 J**
Ethanol	**2.5 J**	**3.1 J**	**1.8 J**	**9.9**	**8.9**	**4.9 J**	**2.2**	**6.5**	**4.7 J**	**0.68 J**
Ethylthiophene, 2-	0.92 U	4.6 U	0.92 U	0.92 U	0.92 U	4.6 U	0.92 U	0.92 U	0.92 U	0.92 U
Ethyltoluene, p-	0.98 U	4.9 U	**0.44 J**	**0.35 J**	0.98 U	4.9 U	**0.25 J**	**0.41 J**	0.98 U	0.98 U
Heptane, n-	0.82 U	4.1 U	**2.2**	**1.1**	0.82 U	4.1 U	**2.1**	**0.79 J**	0.82 U	0.82 U
Hexachlorobutadiene	2.1 U	11 U	2.1 U	2.1 U	2.1 U	11 U	2.1 U	2.1 U	2.1 U	2.1 U
Hexane, n-	0.70 U	3.5 UJ	**0.70**	0.70 U	0.70 U	**2.5 J**	0.70 U	0.70 U	0.70 U	0.70 UJ
Hexanone, 2-	0.82 U	4.1 U	0.82 U	0.82 U	0.82 U	**3.5 J**	0.82 U	0.82 U	0.82 U	0.82 U
Indan	0.97 U	4.8 U	0.97 U	**0.26 J**	0.97 U	4.8 U	0.97 U	**0.33 J**	0.97 U	0.97 U
Indene	0.95 U	4.8 U	0.95 U	0.95 U	0.95 U	4.8 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	0.72 U	3.6 U	0.72 U	0.72 U	0.72 U	3.6 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	0.82 U	4.1 U	0.82 U	0.82 U	0.82 U	**4.1**	0.82 U	0.82 U	0.82 U	0.82 U
Methylene chloride	**0.29 J**	8.5 U	**0.45 J**	1.7 U	**0.29 J**	8.5 U	**0.45 J**	1.7 U	**0.32 J**	**1.7 J**
Methylnaphthalene, 1-	1.2 U	14 U	1.2 UJ	1.2 U	1.2 U	14 U	1.2 UJ	1.2 U	1.2 U	2.9 U
Methylnaphthalene, 2-	1.2 U	14 U	1.2 UJ	1.2 U	1.2 U	14 U	1.2 UJ	1.2 U	1.2 U	2.9 U
Methylthiophene, 2-	0.80 U	4.0 U	0.80 U	0.80 U	0.80 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	0.80 U	4.0 U	0.80 U	0.80 U	0.80 U	4.0 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	1.0 U	5.2 U	1.0 U	1.0 U	1.0 U	5.2 U	1.0 U	1.0 U	1.0 U	1.0 U
Nonane	**0.29 J**	5.2 U	**0.89 J**	**0.78 J**	**0.30 J**	5.2 U	**0.63 J**	**0.86 J**	1.0 U	1.0 U

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Sample Name:	OZSG03	OZSG03	OZSG04	OZSG04	OZSG04	OZSG04	OZSG05	OZSG05	OZSG05	OZSG05
Sample Date:	3/21/2008	6/25/2008	2/19/2008	3/17/2008	3/21/2008	6/25/2008	2/19/2008	3/17/2008	3/21/2008	6/25/2008
Other VOCs Continued (ug/m3										
Octane, n-	**0.81 J**	4.7 U	**1.6**	**60**	**1.5**	4.7 U	**2.5**	**52**	**0.68 J**	0.93 U
Pentane	**0.44 J**	**64**	**0.62**	**40**	**27**	**5.8**	0.59 U	0.59 U	**0.27 J**	**1.5**
Propanol, 2-	1.2 U	6.1 UJ	**45**	**28 J**	1.2 UJ	6.1 UJ	0.49 U	**2.0 J**	**0.73 J**	1.4 UJ
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	4.3 U	0.85 U	**0.22 J**	0.85 U	4.3 U	0.85 U	**0.22 J**	0.85 U	0.85 U
t-Butyl alcohol	0.61 U	3.0 U	0.61 U	0.61 U	**0.33 J**	**4.7**	0.61 U	**0.27 J**	**0.26 J**	**0.48 J**
Tetrachloroethane, 1,1,2,2-	1.4 U	6.9 U	1.4 U	1.4 U	1.4 U	6.9 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	**1.6**	**12**	**12**	**9.2**	**4.4**	**16**	**1.2 J**	**3.5**	**1.2 J**	**35**
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	1.1 U	5.5 U	**0.49 J**	1.1 U	1.1 U	5.5 U	1.1 U	1.1 U	1.1 U	1.1 U
Thiophene	0.69 U	3.4 U	0.69 U	0.69 U	0.69 U	3.4 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	4.0 U	0.79 U	0.79 U	0.79 U	4.0 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	**0.39 J**	7.7 U	**0.46 J**	**0.46 J**	**0.50 J**	7.7 U	**0.54 J**	**0.82 J**	**0.51 J**	**0.61 J**
Trichlorobenzene, 1,2,4-	1.5 U	7.4 U	1.5 U	1.5 U	1.5 U	7.4 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	**6.5**	**2.3**	**2.1**	**2.4**	**5.2 J**	**1.8**	**1.2**	**1.1 J**	**11**
Trichloroethane, 1,1,2-	1.1 U	5.4 U	1.1 U	1.1 U	1.1 U	5.4 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	1.1 U	5.4 U	1.1 U	1.1 U	1.1 U	5.4 U	1.1 U	1.1 U	1.1 U	**0.43 J**
Trichlorofluoromethane	**1.1 J**	**3.6 J**	**7.2**	**7.4**	**6.2**	**22**	**1.5**	**1.6**	**1.1**	**4.4**
Trimethylbenzene, 1,2,3-	0.98 U	4.9 U	**1.8**	**1.4**	**0.43 J**	4.9 U	**0.84 J**	**1.9**	**0.34 J**	0.98 U
Trimethylbenzene, 1,2,4-	0.98 U	4.9 U	**0.98**	**0.42 J**	0.98 U	4.9 U	**0.25 J**	**0.50 J**	0.98 U	0.98 U
Trimethylbenzene, 1,3,5-	0.98 U	4.9 U	**0.69 J**	**0.51 J**	0.98 U	4.9 U	**0.34 J**	**0.67 J**	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	0.93 U	4.7 U	**0.61 J**	0.93 U	0.93 U	4.7 U	0.93 U	0.93 U	0.93 U	0.93 U
Undecane, n-	1.3 UJ	6.4 U	**0.77 J**	**1.5**	**1.5**	**7.4**	**0.96 J**	**2.4**	**7.3**	1.3 U
Vinyl bromide	0.87 U	4.4 U	0.87 U	0.87 U	0.87 U	4.4 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	2.6 U	0.51 U	0.51 U	0.51 U	2.6 U	0.51 U	0.51 U	0.51 U	0.51 U
Other (%)										
Helium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 5-1
Soil Vapor Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Units No. 2 and 3 (OU-2 and OU-3)

Notes:

ug/m3 - micrograms per cubic meter
BTEX - benzene, toluene, ethlybenzene, and xylene
VOCs - volatile organic compounds

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

Bolding indicates a detected result value

J - estimated value
U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated
EJ - value above quantitation range and value is estimated

Table 5-2
Ambient Air Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2AA01 7/21/2004	Duplicate of OU2AA01 7/21/2004	OU2AA01 10/13/2004	Duplicate of OU2AA01 10/13/2004	OU2AA01 5/5/2005	Duplicate of OU2AA01 5/5/2005	OU2AA01 8/30/2005	Duplicate of OU2AA01 8/30/2005	OU2AA01 2/1/2006	Duplicate of OU2AA01 2/1/2006	OU2AA01 6/14/2006	Duplicate of OU2AA01 6/14/2006	OU2AA01 9/7/2006	Duplicate of OU2AA01 9/7/2006	Field Blank OU2AA01 2/22/2007	OU2AA01 2/22/2007	Duplicate of OU2AA01 2/22/2007	OU2AA01 6/14/2007	OU2AA01 9/19/2007	OU2AA01 12/19/2007	OU2AA01 3/27/2008
BTEX (ug/m3)																						
Benzene	5.8	2.5 U	2.6 U	2.4 U	2.4 U	**2.2**	2.2 U	2.4 U	2.4 U	2.4 U	2.5 U	2.3 U	2.3 U	2.6 U	2.6 U	**5.0**	**4.5 J**	**4.5 J**	**0.43 J**	1.4 U	**3.3**	**2.0**
Ethylbenzene	1.9	3.4 U	3.5 U	3.3 U	3.2 U	2.8 U	3 U	3.3 U	3.3 U	3.2 U	3.4 U	3.2 U	3.2 U	3.5 U	3.6 U	**2.5**	**1.7**	**2.0**	0.87 U	**0.69 J**	**1.5**	**0.74 J**
Toluene	21	3 U	3 U	2.9 U	2.8 U	2.4 U	2.6 U	2.9 U	2.9 U	2.8 U	3 U	**3.8**	**3.3**	**12.1 J**	3.1 UJ	**15**	**16 J**	**19 J**	**0.74 J**	**4.0**	**10**	**6.8**
Xylene, m,p-	3.1	3.4 U	3.5 U	3.3 U	3.2 U	2.8 U	3 U	3.3 U	3.3 U	3.2 U	3.4 U	3.2 U	3.2 U	3.5 U	3.6 U	**7.6**	**5.4 J**	**6.5 J**	**0.25 J**	**1.8**	**4.6**	**2.7**
Xylene, o-	2.5	3.4 U	3.5 U	3.3 U	3.2 U	2.8 U	3 U	3.3 U	3.3 U	3.2 U	3.4 U	3.2 U	3.2 U	3.5 U	3.6 U	**2.8**	**1.9**	**2.0**	0.87 U	**0.56 J**	**1.6**	**0.92**
Xylene, total	NE	ND	ND	ND	ND	2.8 U	3 U	3.3 U	3.3 U	3.2 U	3.4 U	3.2 U	3.2 U	ND	ND	**10.4**	**7.3**	**8.5**	**0.25**	**2.36**	**6.2**	**3.62**
Other VOCs (ug/m3)																						
Acetaldehyde	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**2.7 J**	2.6 UJ	**2.6 J**	**43 J**	**18**	1.8 U	**7.4 J**
Acetone	58	**16.9**	**14.3**	7.1 U	7.1 U	**16.9**	**30.9**	**22.1**	**10**	**12.4**	7.6 U	6.9 UJ	**9.7 J**	**14.5 J**	7.8 UJ	**14**	**16**	**16**	**19**	**9.3**	**19**	**13 J**
Acrolein (propenal)	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	**0.23 J**
Allyl chloride	NE	10 U	10 U	9.4 U	9.4 U	8.1 U	8.8 U	9.4 U	9.4 U	9.4 U	10 U	9.1 U	9.1 U	10 U	10.3 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzothiophene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.5 UJ	5.5 UJ	5.5 UJ	2.7 UJ	14 UJ	1.1 U	1.1 U
Bromodichloromethane	NE	5.3 U	5.4 U	5.1 U	5 U	4.4 U	4.7 U	5.1 U	5.1 U	5 U	5.3 U	4.9 U	4.9 U	5.4 U	5.5 U	1.3 U	1.3 U	1.3 U	1.3 UJ	1.3 U	1.3 U	1.3 U
Bromoform	NE	8.2 U	8.3 U	7.9 U	7.6 U	6.7 U	7.2 U	7.9 U	7.9 U	7.6 U	8.2 U	7.5 U	7.5 U	8.3 U	8.5 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	0.9	3.1 U	3.1 U	3 U	2.9 U	2.5 U	2.7 U	3 U	3 U	2.9 U	3.1 U	2.8 U	2.8 U	3.1 U	3.2 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	NE	1.7 U	1.8 U	1.7 U	1.6 U	1.4 U	1.5 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.8 U	1.8 U	**0.86**	**0.66**	**0.84**	0.44 U	0.44 U	0.44 U	**0.48**
Butane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**15**	**14 J**	**15 J**	0.48 U	**1.8**	**15**	**5.4**
Butanone, 2-	17	**2.8**	**2.4 J**	2.2 U	2.2 U	1.9 U	**3.2**	**2.7**	2.2 U	2.2 U	2.3 U	2.2 U	2.2 U	2.4 U	2.4 U	**1.7**	**3.0**	**2.7**	**1**	**3.1**	**5.9**	**2.0**
Carbon disulfide	NE	2.5 U	**4.7**	2.4 U	2.3 U	2 U	2.2 U	2.4 U	**2.5**	2.3 U	2.5 U	2.3 U	2.3 U	2.5 U	2.6 U	**1.7**	0.62 U	0.62 U	0.62 U	0.62 U	**0.16 J**	0.62 U
Carbon tetrachloride	1	5 U	5 U	4.8 U	4.7 U	4.1 U	4.4 U	4.8 U	4.8 U	4.7 U	5 U	4.6 U	4.6 U	5 U	5.2 U	1.3 U	**0.44 J**	1.3 U	**0.57 J**	**0.57 J**	**0.44 J**	**0.55 J**
Chlorobenzene	<0.25	3.6 U	3.7 U	3.5 U	3.4 U	3 U	3.2 U	3.5 U	3.5 U	3.4 U	3.6 U	3.4 U	3.4 U	3.7 U	3.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	0.4	2.1 U	2.1 U	2 U	2 U	1.7 U	1.8 U	2 U	2 U	2 U	2.1 U	1.9 U	1.9 U	2.1 U	2.2 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	0.5	3.9 U	3.9 U	3.7 U	3.6 U	3.2 U	3.4 U	3.7 U	3.7 U	3.6 U	3.9 U	3.6 U	3.6 U	3.9 U	4 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Chloromethane	4.6	6.6 U	6.6 U	6.2 U	6.2 U	5.4 U	5.8 U	6.2 U	6.2 U	6.2 U	6.6 U	6 U	6 U	6.6 U	6.8 U	**1.2 J**	**1.1 J**	**1.1 J**	**1.3**	**0.99**	**1.0**	**1.0**
Chlorotoluene, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.0 U	1.0 U	1.0 U	1 U	1.0 U	1.0 U	1.0 U
Cryofluorane	1.3	5.5 U	5.6 U	5.3 U	5.2 U	4.5 U	4.9 U	5.3 U	5.3 U	5.2 U	5.5 U	5.1 U	5.1 U	5.6 U	5.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	3	2.7 U	2.8 U	2.6 U	2.5 U	2.2 U	2.4 U	2.6 U	2.6 U	2.5 U	2.7 U	2.5 U	2.5 U	2.8 U	2.8 U	**1.2**	**1.3**	**1.2**	0.69 U	**0.34 J**	**0.69**	**0.40 J**
Decane, n-	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.99 J**	**1.3 J**	**1.3 J**	1.2 U	**0.52 J**	**0.70 J**	**0.54 J**
Dibromochloromethane	NE	6.7 U	6.8 U	6.5 U	6.3 U	5.5 U	6 U	6.5 U	6.5 U	6.3 U	6.7 U	6.2 U	6.2 U	6.8 U	7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	<0.25	6.1 U	6.1 U	5.8 U	5.7 U	5 U	5.4 U	5.8 U	5.8 U	5.7 U	6.1 U	5.6 U	5.6 U	6.1 U	6.3 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	0.9	4.7 U	4.8 U	4.6 U	4.4 U	3.9 U	4.2 U	4.6 U	4.6 U	4.4 U	4.7 U	4.4 U	4.4 U	4.8 U	4.9 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	0.7	4.7 U	4.8 U	4.6 U	4.4 U	3.9 U	4.2 U	4.6 U	4.6 U	4.4 U	4.7 U	4.4 U	4.4 U	4.8 U	4.9 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	0.8	4.7 U	4.8 U	4.6 U	4.4 U	3.9 U	4.2 U	4.6 U	4.6 U	4.4 U	4.7 U	4.4 U	4.4 U	4.8 U	4.9 U	1.2 UJ	**0.60 J**	**0.60 J**	1.2 U	**0.36 J**	**0.60 J**	1.2 U
Dichlorodifluoromethane	11	3.9 U	4 U	3.8 U	3.7 U	3.2 U	3.5 U	3.8 U	3.8 U	3.7 U	3.9 U	3.6 U	3.6 U	4 U	4.1 U	**2.8**	**3.1**	**3.1**	**2.9**	**2.5**	**2.7**	**2.1**
Dichloroethane, 1,1-	<0.25	3.2 U	3.2 U	3.1 U	3 U	2.6 U	2.8 U	3.1 U	3.1 U	3 U	3.2 U	3 U	3 U	3.2 U	3.3 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	<0.25	3.2 U	3.2 U	3.1 U	3 U	2.6 U	2.8 U	3.1 U	3.1 U	3 U	3.2 U	3 U	3 U	3.2 U	3.3 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethene, cis-1,2-	<0.25	3.1 U	3.2 U	3 U	2.9 U	2.6 U	2.8 U	3 U	3 U	2.9 U	3.1 U	2.9 U	2.9 U	3.2 U	3.3 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloroethene, 1,1-	<0.25	3.1 U	3.2 U	3 U	2.9 U	2.6 U	2.8 U	3 U	3 U	2.9 U	3.1 U	2.9 U	2.9 U	3.2 U	3.3 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	<0.25	3.7 U	3.7 U	3.5 U	3.4 U	3 U	3.2 U	3.5 U	3.5 U	3.4 U	3.7 U	3.4 U	3.4 U	3.7 U	3.8 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	<0.25	3.6 U	3.6 U	3.4 U	3.4 U	3 U	3.2 U	3.4 U	3.4 U	3.4 U	3.6 U	3.3 U	3.3 U	3.6 U	3.7 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	<0.25	3.6 U	3.6 U	3.4 U	3.4 U	3 U	3.2 U	3.4 U	3.4 U	3.4 U	3.6 U	3.3 U	3.3 U	3.6 U	3.7 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U

Table 5-2
Ambient Air Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2AA01 7/21/2004	Duplicate of OU2AA01 7/21/2004	OU2AA01 10/13/2004	Duplicate of OU2AA01 10/13/2004	OU2AA01 5/5/2005	Duplicate of OU2AA01 5/5/2005	OU2AA01 8/30/2005	Duplicate of OU2AA01 8/30/2005	OU2AA01 2/1/2006	Duplicate of OU2AA01 2/1/2006	OU2AA01 6/14/2006	Duplicate of OU2AA01 6/14/2006	OU2AA01 9/7/2006	Duplicate of OU2AA01 9/7/2006	Field Blank OU2AA01 2/22/2007	OU2AA01 2/22/2007	Duplicate of OU2AA01 2/22/2007	OU2AA01 6/14/2007	OU2AA01 9/19/2007	OU2AA01 12/19/2007	OU2AA01 3/27/2008
Dioxane, 1,4-	NE	11.5 U	11.5 U	10.8 U	10.8 U	9.4 U	10.1 U	10.8 U	10.8 U	10.8 U	11.5 U	10.5 U	10.5 U	11.5 U	11.9 U	1.8 U	1.8 U	1.8 U	1.8 U	0.72 U	1.8 U	0.72 U
Dodecane, n-	7.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.42 J**	1.4 U	**0.56 J**	1.4 U	1.4 U	1.4 U	1.4 U
Ethanol	220	6 U	**6.8**	5.7 U	5.7 U	4.9 U	**8.7**	5.7 U	5.7 U	5.7 U	**22.6**	5.5 U	5.5 U	**22.6 J**	**6.8 J**	**30**	26 U	**25 J**	**10**	**15**	**24**	**20**
Ethylthiophene, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Ethyltoluene, p-	NE	3.9 U	3.9 U	3.7 U	3.6 U	3.2 U	3.4 U	3.7 U	3.7 U	3.6 U	3.9 U	3.6 U	3.6 U	3.9 U	4 U	**0.59 J**	**0.49 J**	**0.49 J**	0.98 U	0.98 U	**0.44 J**	**0.29 J**
Heptane, n-	5.1	3.2 U	3.3 U	3.1 U	3 U	2.7 U	2.9 U	3.1 U	3.1 U	3 U	3.2 U	3 U	3 U	3.3 U	3.4 U	**2.6**	**2.3 J**	**2.3**	0.82 U	**0.70 J**	**1.2**	**1.1**
Hexachlorobutadiene	7	34.1 U	34.1 U	32 U	32 U	27.7 U	29.9 U	32 U	32 U	32 U	34.1 U	30.9 U	30.9 U	34.1 UJ	35.2 UJ	2.1 UJ	2.1 UJ	2.1 UJ	2.1 UJ	2.1 U	2.1 U	2.1 U
Hexane, n-	3.6	2.8 U	2.8 U	2.7 U	2.6 U	2.3 U	2.5 U	2.7 U	2.7 U	2.6 U	2.8 U	2.6 U	2.6 U	2.8 U	2.9 U	**5.9**	**5.7 J**	**5.6 J**	**0.21 J**	**1.4**	**2.8**	**1.8**
Hexanone, 2-	NE	13.1 U	13.1 U	12.3 U	12.3 U	10.7 U	11.5 U	12.3 U	12.3 U	12.3 U	13.1 U	11.9 U	11.9 U	13.1 U	13.5 U	2.0 U	2.0 U	2.0 U	0.82 U	0.82 U	0.82 U	0.82 U
Indan	NE	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	15.5 U	16 U	**0.58 J**	0.97 U	**0.48 J**	0.97 U	0.97 UJ	**0.29 J**	0.97 U
Indene	NE	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	15.2 U	15.7 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	0.4	3.9 U	3.9 U	3.7 U	3.6 U	3.2 U	3.4 U	3.7 U	3.7 U	3.6 U	3.9 U	3.6 U	3.6 U	3.9 U	4 U	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	5.9	2.8 U	2.9 U	2.7 U	2.7 U	2.3 U	2.5 U	2.7 U	2.7 U	2.7 U	2.8 U	2.6 U	2.6 U	2.9 U	3 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	2.9	3.2 U	3.3 U	3.1 U	3 U	2.7 U	2.9 U	3.1 U	3.1 U	3 U	3.2 U	3 U	3 U	3.3 U	3.4 U	**0.65 J**	0.82 U	**0.45 J**	**1.2**	0.82 U	0.82 U	0.82 U
Methylene chloride	2.9	2.7 UJ	2.8 UJ	2.6 U	2.6 U	2.3 U	2.4 U	2.6 U	2.6 U	2.6 U	2.7 U	2.5 U	2.5 U	2.8 U	2.8 U	**5.9 J**	**8.0**	**7.2 J**	**2.4**	1.5 U	**1.9**	**1.5 J**
Methylnaphthalene, 1-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14 U	14 U	14 U	29 U	5.8 UJ	14 UJ	1.2 U
Methylnaphthalene, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14 U	14 U	14 U	5.8 U	14 U	14 U	1.2 U
Methylthiophene, 2-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.80 U	0.80 U	0.80 U	0.8 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.80 U	0.80 U	0.80 U	0.8 U	0.80 U	0.80 U	0.80 U
Naphthalene	10	16.8 U	16.8 U	15.7 U	15.7 U	13.6 UJ	14.7 UJ	15.7 U	15.7 U	15.7 U	16.8 U	15.2 UJ	15.2 UJ	16.8 U	17.3 U	2.6 U	**0.26 J**	**0.37 J**	5.2 UJ	1.0 UJ	**0.52 J**	1.0 U
Nonane	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**1.1**	**1.5**	**1.6**	1 U	1.0 U	**0.63 J**	**0.59 J**
Octane, n-	2.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.93**	**0.89 J**	**1.2**	0.93 U	**0.28 J**	**0.65 J**	0.93 U
Pentane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**7.3**	**6.2 J**	**6.5 J**	**0.98**	**1.6**	**5.7**	**3.1**
Propanol, 2-	NE	7.9 U	7.9 U	7.4 U	7.4 U	6.4 U	6.9 U	7.4 U	7.4 U	7.4 U	7.9 U	7.1 U	7.1 U	**9.6 J**	8.1 UJ	**4.0**	**5.2 J**	**4.8 J**	**9.1**	**1.7**	**3.4 J**	**2.5**
Propylbenzene, n-	0.5	3.9 U	3.9 U	3.7 U	3.6 U	3.2 U	3.4 U	3.7 U	3.7 U	3.6 U	3.9 U	3.6 U	3.6 U	3.9 U	4 U	NA	NA	NA	NA	NA	NA	NA
Styrene	0.6	3.4 U	3.4 U	3.2 U	3.2 U	2.8 U	3 U	3.2 U	3.2 U	3.2 U	3.4 U	3.1 U	3.1 U	3.4 U	3.5 U	**0.38 J**	**0.25 J**	**0.43 J**	0.85 U	0.85 U	**0.38 J**	0.85 U
t-Butyl alcohol	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.61 U	0.61 U	0.61 U	0.61 U	**0.18 J**	0.61 U	0.61 U
Tetrachloroethane, 1,1,2,2-	<0.25	5.4 U	5.5 U	5.2 U	5.1 U	4.5 U	4.8 U	5.2 U	5.2 U	5.1 U	5.4 U	5 U	5 U	5.5 U	5.6 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	1.6	5.4 U	5.4 U	5.2 U	5 U	4.4 U	4.7 U	5.2 U	5.2 U	5 U	5.4 U	5 U	5 U	5.4 U	5.6 U	**1.2 J**	**2.4**	**3.3**	1.4 U	**0.68 J**	**2.2**	**0.96 J**
Tetrahydrofuran	0.4	2.3 U	2.4 U	2.2 U	2.2 U	1.9 U	2.1 U	2.2 U	2.2 U	2.2 U	2.3 U	2.2 U	2.2 U	2.4 U	2.4 U	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.1 U	1.1 U	1.1 U	1.1 U	14 U	1.1 U	1.1 U
Thiophene	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	NE	3.1 U	3.2 U	3 U	2.9 U	2.6 U	2.8 U	3 U	3 U	2.9 U	3.1 U	2.9 U	2.9 U	3.2 U	3.3 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	3.6	6.1 U	6.1 U	5.8 U	5.7 U	5 U	5.4 U	5.8 U	5.8 U	5.7 U	6.1 U	5.6 U	5.6 U	6.1 U	6.3 U	**0.54 J**	**0.69 J**	**0.54 J**	**0.59 J**	**0.69 J**	**0.61 J**	1.5 U
Trichlorobenzene, 1,2,4-	4.8	23.7 U	23.7 U	22.3 U	22.3 U	19.3 U	20.8 U	22.3 U	22.3 U	22.3 U	23.7 U	21.5 U	21.5 U	23.7 UJ	24.5 UJ	1.5 UJ	1.5 UJ	1.5 UJ	3.7 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	0.7	4.3 U	4.4 U	4.1 U	4 U	3.5 U	3.8 U	4.1 U	4.1 U	4 U	4.3 U	4 U	4 U	4.4 U	4.5 U	1.1 U	1.1 U	1.1 U	1.1 UJ	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	<0.25	4.3 U	4.4 U	4.1 U	4 U	3.5 U	3.8 U	4.1 U	4.1 U	4 U	4.3 U	4 U	4 U	4.4 U	4.5 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	0.5	4.2 U	4.3 U	4.1 U	4 U	3.5 U	3.8 U	4.1 U	4.1 U	4 U	4.2 U	3.9 U	3.9 U	4.3 U	4.4 U	**1.1**	**3.0 J**	**3.1**	1.1 U	**0.43 J**	**3.5**	**0.97 J**
Trichlorofluoromethane	6.1	4.4 U	4.5 U	4.3 U	4.2 U	3.7 U	3.9 U	4.3 U	4.3 U	4.2 U	4.4 U	4.1 U	4.1 U	4.5 U	4.6 U	**1.8**	**2.1**	**2.1**	**1.9 J**	**1.5**	**1.4**	**1.3**
Trimethylbenzene, 1,2,3-	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**1.2**	**1.0**	**1.2**	0.98 U	**0.64 J**	**0.49 J**	**0.26 J**
Trimethylbenzene, 1,2,4-	2.5	3.9 U	3.9 U	3.7 U	3.6 U	3.2 U	3.4 U	3.7 U	3.7 U	3.6 U	3.9 U	3.6 U	3.6 U	3.9 UJ	4 UJ	**3.0**	**1.9**	**2.5**	0.98 U	0.98 U	0.98 U	**0.91 J**
Trimethylbenzene, 1,3,5-	1	3.9 U	3.9 U	3.7 U	3.6 U	3.2 U	3.4 U	3.7 U	3.7 U	3.6 U	3.9 U	3.6 U	3.6 U	3.9 U	4 U	**0.98**	**0.59 J**	**0.79 J**	0.98 U	0.98 U	**0.49 J**	**0.29 J**
Trimethylpentane, 2,2,4-	2	3.7 U	3.7 U	3.6 U	3.5 U	3 U	3.3 U	3.6 U	3.6 U	3.5 U	3.7 U	3.4 U	3.4 U	3.7 U	3.8 U	**4.9 J**	**4.5 J**	**4.8 J**	**0.23 J**	**1.4 J**	**1.3**	**1.0**
Undecane, n-	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.57 J**	1.3 U	**1.1 J**	6.4 UJ	**0.45 J**	**0.89 J**	**0.46 J**
Vinyl bromide	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	<0.25	2 U	2 U	1.9 U	1.9 U	1.7 U	1.8 U	1.9 U	1.9 U	1.9 U	2 U	1.9 U	1.9 U	2 U	2.1 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U

Table 5-2
Ambient Air Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Sample Name:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2AA01	OU2AA01	OU2AA02	OU2AA02	OU2AA02	OU2AA02	OU2AA02	OU2AA02	OU2AA02	OU2AA02	OU2AA02	OU2AA02	OU2AA02	OU2AA02	OU2AA03	OU2AA03	OU2AA03	OU2AA03	OU2AA03	OU2AA03	OU2AA03	OU2AA03
Sample Date:		6/23/2008	9/22/2008	5/5/2005	8/30/2005	2/1/2006	6/14/2006	9/7/2006	2/22/2007	5/24/2007	9/18/2007	12/18/2007	3/26/2008	6/23/2008	9/24/2008	5/25/2005	8/31/2005	2/2/2006	6/15/2006	9/8/2006	2/21/2007	6/14/2007	9/12/2007
BTEX (ug/m3)																							
Benzene	5.8	**1.8**	**0.57 J**	2.4 U	2.5 U	2.4 U	2.5 U	2.4 U	**5.6 J**	**0.73**	0.64 U	**1.2**	**0.64 J**	**0.96**	**0.29 J**	2.2 U	2.4 U	2.3 U	2.4 U	2.5 U	0.64 U	**0.28 J**	0.80 U
Ethylbenzene	1.9	**0.26 J**	**0.30 J**	3.2 U	3.4 U	3.3 U	3.4 U	3.2 U	**2.8 J**	0.87 U	0.87 U	**0.65 J**	**0.24 J**	0.87 U	0.87 U	3 U	3.2 U	3.1 U	3.3 U	3.4 U	0.87 U	0.87 U	**0.35 J**
Toluene	21	**1.2**	**1.8**	2.8 U	2.9 U	2.9 U	**3.1**	2.8 U	**19 J**	**4.5**	**0.90**	**11**	**0.88**	**1.0**	**1.5**	2.6 U	2.8 U	**3.2**	**4.1**	**7.2**	1.2 U	**0.44 J**	**2.2**
Xylene, m,p-	3.1	**0.48 J**	**0.69 J**	3.2 U	3.4 U	3.3 U	3.4 U	3.2 U	**8.2 J**	**0.59 J**	**0.22 J**	**1.6 J**	**0.57 J**	**0.56 J**	**0.56 J**	3 U	3.2 U	3.1 U	3.3 U	3.4 U	1.7 U	**0.3 J**	**0.87 J**
Xylene, o-	2.5	**0.22 J**	**0.26 J**	3.2 U	3.4 U	3.3 U	3.4 U	3.2 U	2.7 U	0.87 U	0.87 U	**0.52 J**	0.87 U	0.87 U	0.87 U	3 U	3.2 U	3.1 U	3.3 U	3.4 U	0.87 U	0.87 U	**0.35 J**
Xylene, total	NE	ND	**3.62**	3.2 U	3.4 U	3.3 U	3.4 U	ND	**8.2**	**0.59**	**0.22**	**2.12**	**0.57**	**0.56**	**2.35**	ND	ND	ND	ND	ND	ND	**0.3**	**1.22**
Other VOCs (ug/m3)																							
Acetaldehyde	NE	**27**	**13**	NA	NA	NA	NA	NA	2.6 UJ	17 UJ	**5.4**	1.8 U	**3.8 J**	**39**	**13**	NA	NA	NA	NA	NA	0.41 UJ	**16 J**	**6.5**
Acetone	58	**7.8**	**9.2 J**	**33.3**	**33.3**	7.1 U	**20**	**18.1**	14 U	**30 J**	**22**	**14**	**10 J**	**11**	**8.2 J**	**19.2**	**7.4**	**10.5**	**13.8**	**18.1**	6.2 U	**25**	**12**
Acrolein (propenal)	NE	**0.44 J**	0.46 U	NA	NA	NA	NA	NA	0.46 U	**0.28 J**	0.46 U	**1.2**	1.2 U	**0.48**	0.46 U	NA	NA	NA	NA	NA	0.46 U	0.46 U	0.46 U
Allyl chloride	NE	0.63 UJ	0.63 U	9.4 U	9.7 U	9.4 U	10 U	9.4 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 UJ	0.63 U	8.8 U	9.4 U	9.1 U	9.4 U	9.7 U	0.63 U	0.63 U	0.63 U
Benzothiophene	NE	1.1 U	1.1 U	NA	NA	NA	NA	NA	5.5 UJ	2.7 U	14 U	1.1 U	1.1 UJ	1.1 U	1.1 U	NA	NA	NA	NA	NA	5.5 UJ	2.7 UJ	14 U
Bromodichloromethane	NE	1.3 U	1.3 U	5 U	5.2 U	5.1 U	5.3 U	5 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	4.7 U	5 U	4.8 U	5.1 U	5.2 U	1.3 U	1.3 UJ	1.3 U
Bromoform	NE	2.1 U	2.1 U	7.6 U	8.1 U	7.9 U	8.2 U	7.6 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	7.2 U	7.6 U	7.4 U	7.9 U	8.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	0.9	0.78 U	0.78 U	2.9 U	3 U	3 U	3.1 U	2.9 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	2.7 U	2.9 U	2.8 U	3 U	3 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	NE	0.44 U	0.44 U	1.6 U	1.7 U	1.7 U	1.7 U	1.6 U	0.77 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	1.5 U	1.6 U	1.6 U	1.7 U	1.7 U	0.44 U	0.44 U	0.44 U
Butane	NE	**0.50**	**1.8**	NA	NA	NA	NA	NA	**15 J**	**1.2**	0.48 U	**4.2**	**2.5**	**0.36 J**	**0.64**	NA	NA	NA	NA	NA	2.0 U	0.48 U	**0.59**
Butanone, 2-	17	**1.4**	**1.4**	**6.2**	2.3 U	2.2 U	**7.1**	**5**	**2.1 J**	**1.5**	**0.50 J**	**2.1**	**0.88 J**	**1.2**	**0.65**	**2.8**	2.2 U	**3.5 J**	**4.4**	**3.8**	1.5 U	0.59 U	**0.71**
Carbon disulfide	NE	**0.40 J**	**0.19 J**	2.3 U	2.4 U	2.4 U	**14.6**	**2.8**	0.62 U	0.62 U	0.62 U	**0.25 J**	0.62 U	**0.59 J**	0.62 U	2.2 U	**2.6**	**6.2**	2.4 U	**2.8**	0.62 U	0.62 U	0.62 U
Carbon tetrachloride	1	**0.38 J**	**0.57 J**	4.7 U	4.9 U	4.8 U	5 U	4.7 U	1.3 U	1.3 UJ	**0.50 J**	**0.57 J**	**0.52 J**	1.3 U	**0.44 J**	4.4 U	4.7 U	4.5 U	4.8 U	4.9 U	**0.50 J**	**0.75 J**	**0.57 J**
Chlorobenzene	<0.25	0.92 U	0.92 U	3.4 U	3.6 U	3.5 U	3.6 U	3.4 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	3.2 U	3.4 U	3.3 U	3.5 U	3.6 U	0.92 U	0.92 U	0.92 U
Chloroethane	0.4	0.53 U	0.53 U	2 U	2.1 U	2 U	2.1 U	2 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	1.8 U	2 U	1.9 U	2 U	2.1 U	0.53 U	0.53 U	0.53 U
Chloroform	0.5	0.98 U	0.98 U	3.6 U	3.8 U	3.7 U	3.9 U	3.6 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	3.4 U	3.6 U	3.5 U	3.7 U	3.8 U	0.98 U	0.98 U	0.98 U
Chloromethane	4.6	**1.6**	**1.0**	6.2 U	6.4 U	6.2 U	6.6 U	6.2 U	1.0 U	**1.2**	**1.0**	**1.1**	**1.0**	**1.3**	**0.95**	5.8 U	6.2 U	6 U	6.2 U	6.4 U	0.95 U	**1**	**1.0**
Chlorotoluene, 2-	NE	1.0 U	1.0 U	NA	NA	NA	NA	NA	1.0 U	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	1.0 U	1 U	1.0 U
Cryofluorane	1.3	1.4 U	1.4 U	5.2 U	5.5 U	5.3 U	5.5 U	5.2 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	4.9 U	5.2 U	5 U	5.3 U	5.5 U	1.4 U	1.4 U	1.4 U
Cyclohexane	3	0.69 U	0.69 U	2.5 U	2.7 U	2.6 U	2.7 U	2.5 U	**1.3 J**	0.69 U	0.69 U	**0.58 J**	0.69 U	0.69 U	0.69 U	2.4 U	2.5 U	2.5 U	2.6 U	2.7 U	0.69 U	0.69 U	0.69 U
Decane, n-	3.6	1.2 U	1.2 U	NA	NA	NA	NA	NA	1.2 U	1.2 U	1.2 U	**19**	1.2 UJ	1.2 U	1.2 U	NA	NA	NA	NA	NA	1.2 U	1.2 U	1.2 U
Dibromochloromethane	NE	1.7 U	1.7 U	6.3 U	6.6 U	6.5 U	6.7 U	6.3 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6 U	6.3 U	6.1 U	6.5 U	6.6 U	1.7 U	1.7 U	1.7 U
Dibromoethane, 1,2-	<0.25	1.5 U	1.5 U	5.7 U	6 U	5.8 U	6.1 U	5.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	5.4 U	5.7 U	5.5 U	5.8 U	6 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	0.9	1.2 U	1.2 U	4.4 U	4.7 U	4.6 U	4.7 U	4.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	4.2 U	4.4 U	4.3 U	4.6 U	4.7 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,3-	0.7	1.2 U	1.2 U	4.4 U	4.7 U	4.6 U	4.7 U	4.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	4.2 U	4.4 U	4.3 U	4.6 U	4.7 U	1.2 U	1.2 U	1.2 U
Dichlorobenzene, 1,4-	0.8	1.2 U	1.2 U	4.4 U	4.7 U	4.6 U	4.7 U	4.4 U	**0.60 J**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	4.2 U	4.4 U	4.3 U	4.6 U	4.7 U	1.2 UJ	1.2 U	1.2 U
Dichlorodifluoromethane	11	**2.5**	**2.6**	3.7 U	3.9 U	3.8 U	3.9 U	3.7 U	2.7 U	**2.6**	**2.6**	**2.5**	**2.0**	**2.4**	**2.6**	3.5 U	3.7 U	3.6 U	3.8 U	3.9 U	2.3 U	**3.1**	**2.4**
Dichloroethane, 1,1-	<0.25	0.81 U	0.81 U	3 U	3.2 U	3.1 U	3.2 U	3 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	2.8 U	3 U	2.9 U	3.1 U	3.2 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	<0.25	0.81 U	0.81 U	3 U	3.2 U	3.1 U	3.2 U	3 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	2.8 U	3 U	2.9 U	3.1 U	3.2 U	0.81 U	0.81 U	0.81 U
Dichloroethene, cis-1,2-	<0.25	0.79 U	0.79 U	2.9 U	3.1 U	3 U	3.1 U	2.9 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.8 U	2.9 U	2.9 U	3 U	3.1 U	0.79 U	0.79 U	0.79 U
Dichloroethene, 1,1-	<0.25	0.79 U	0.79 U	2.9 U	3.1 U	3 U	3.1 U	2.9 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.8 U	2.9 U	2.9 U	3 U	3.1 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	<0.25	0.92 U	0.92 U	3.4 U	3.6 U	3.5 U	3.7 U	3.4 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	3.2 U	3.4 U	3.3 U	3.5 U	3.6 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	<0.25	0.91 U	0.91 U	3.4 U	3.5 U	3.4 U	3.6 U	3.4 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	3.2 U	3.4 U	3.3 U	3.4 U	3.5 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	<0.25	0.91 U	0.91 U	3.4 U	3.5 U	3.4 U	3.6 U	3.4 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	3.2 U	3.4 U	3.3 U	3.4 U	3.5 U	0.91 U	0.91 U	0.91 U

Table 5-2
Ambient Air Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2AA01 6/23/2008	OU2AA01 9/22/2008	OU2AA02 5/5/2005	OU2AA02 8/30/2005	OU2AA02 2/1/2006	OU2AA02 6/14/2006	OU2AA02 9/7/2006	OU2AA02 2/22/2007	OU2AA02 5/24/2007	OU2AA02 9/18/2007	OU2AA02 12/18/2007	OU2AA02 3/26/2008	OU2AA02 6/23/2008	OU2AA02 9/24/2008	OU2AA03 5/25/2005	OU2AA03 8/31/2005	OU2AA03 2/2/2006	OU2AA03 6/15/2006	OU2AA03 9/8/2006	OU2AA03 2/21/2007	OU2AA03 6/14/2007	OU2AA03 9/12/2007
Dioxane, 1,4-	NE	0.72 U	0.72 U	10.8 U	11.2 U	10.8 U	11.5 U	10.8 U	1.8 U	0.72 U	0.72 UJ	1.8 U	0.72 U	0.72 U	0.72 U	10.1 U	10.8 U	10.5 U	10.8 U	11.2 U	1.8 U	1.8 U	0.72 UJ
Dodecane, n-	7.6	**0.49 J**	**0.42 J**	NA	NA	NA	NA	NA	1.4 U	1.4 U	1.4 U	**51**	1.4 U	**0.56 J**	**1.8**	NA	NA	NA	NA	NA	1.4 U	1.4 U	1.4 U
Ethanol	220	**6.3**	**5.7**	**8.9**	5.8 U	5.7 U	6 U	**7.2**	20 U	**1 J**	**1.9**	**17**	**4.1 J**	**5.0**	**2.9**	5.3 U	5.7 U	5.5 U	5.7 U	**30.1**	3.5 U	**3.4 J**	**5.2**
Ethylthiophene, 2-	NE	0.92 U	0.92 U	NA	NA	NA	NA	NA	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	NA	NA	NA	NA	NA	0.92 U	0.92 U	0.92 U
Ethyltoluene, p-	NE	0.98 U	0.98 U	3.6 U	3.8 U	3.7 U	3.9 U	3.6 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	3.4 U	3.6 U	3.5 U	3.7 U	3.8 U	0.98 U	0.98 U	0.98 U
Heptane, n-	5.1	0.82 UJ	**0.45 J**	3 U	3.2 U	3.1 U	3.2 U	3 U	**3.0 J**	0.82 U	0.82 U	**1.1**	**0.32 J**	0.82 UJ	0.82 U	2.9 U	3 U	3 U	3.1 U	3.2 U	0.82 U	0.82 U	**0.45 J**
Hexachlorobutadiene	7	2.1 U	2.1 U	32 U	33.1 U	32 U	34.1 U	32 UJ	2.1 UJ	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	29.9 U	32 U	30.9 U	32 U	33.1 U	2.1 UJ	2.1 UJ	2.1 U
Hexane, n-	3.6	**0.25 J**	**0.60 J**	2.6 U	2.7 U	2.7 U	2.8 U	2.6 U	**6.2 J**	**0.43 J**	0.70 U	**0.95**	**0.43 J**	**0.21 J**	**0.28 J**	2.5 U	2.6 U	2.5 U	2.7 U	2.7 U	0.70 U	**0.18 J**	**0.74**
Hexanone, 2-	NE	0.82 U	0.82 U	12.3 U	12.7 U	12.3 U	13.1 U	12.3 U	2.0 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	11.5 U	12.3 U	11.9 U	12.3 U	12.7 U	2.0 U	0.82 U	0.82 U
Indan	NE	0.97 U	0.97 U	NA	NA	NA	NA	14.5 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	NA	NA	NA	NA	15 U	0.97 U	0.97 U	0.97 U
Indene	NE	0.95 U	0.95 U	NA	NA	NA	NA	14.3 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	NA	NA	NA	NA	14.7 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	0.4	NA	NA	3.6 U	3.8 U	3.7 U	3.9 U	3.6 U	NA	NA	NA	NA	NA	NA	NA	3.4 U	3.6 U	3.5 U	3.7 U	3.8 U	NA	NA	NA
Methyl tert-butyl ether	5.9	0.72 U	0.72 U	2.7 U	2.8 U	2.7 U	2.8 U	2.7 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	2.5 U	2.7 U	2.6 U	2.7 U	2.8 U	0.72 U	0.72 U	0.72 U
Methyl-2-pentanone, 4-	2.9	0.82 U	0.82 U	3 U	3.2 U	3.1 U	3.2 U	3 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	2.9 U	3 U	2.9 U	3.1 U	3.2 U	0.82 U	0.82 U	0.82 U
Methylene chloride	2.9	1.9 U	0.83 U	2.6 U	2.7 U	2.6 U	2.7 U	2.6 U	3.8 U	**0.57 J**	2.5 U	1.2 U	1.7 U	1.7 U	0.83 U	2.4 U	2.6 U	2.5 U	2.6 U	**3**	5.6 U	**1.5**	1.0 U
Methylnaphthalene, 1-	NE	2.9 UJ	1.2 U	NA	NA	NA	NA	NA	14 U	14 U	5.8 U	14 UJ	1.2 U	2.9 UJ	1.2 U	NA	NA	NA	NA	NA	14 U	29 U	5.8 U
Methylnaphthalene, 2-	NE	2.9 UJ	1.2 U	NA	NA	NA	NA	NA	14 U	5.8 U	14 U	14 U	1.2 U	2.9 UJ	1.2 U	NA	NA	NA	NA	NA	14 U	5.8 U	14 U
Methylthiophene, 2-	NE	0.80 U	0.80 U	NA	NA	NA	NA	NA	0.80 U	0.8 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	NA	NA	NA	NA	NA	0.80 U	0.8 U	0.80 U
Methylthiophene, 3-	NE	0.80 U	0.80 U	NA	NA	NA	NA	NA	0.80 U	0.8 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	NA	NA	NA	NA	NA	0.80 U	0.8 U	0.80 U
Naphthalene	10	1.0 U	1.0 U	15.7 UJ	16.3 U	15.7 U	16.8 UJ	15.7 U	**0.31 J**	1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	14.7 U	15.7 U	15.2 U	15.7 UJ	16.3 U	2.6 U	5.2 UJ	1.0 U
Nonane	1.2	1.0 U	1.0 U	NA	NA	NA	NA	NA	**1.2 J**	1 U	1.0 U	**0.47 J**	1.0 U	1.0 U	1.0 U	NA	NA	NA	NA	NA	1.0 U	1 U	1.0 U
Octane, n-	2.1	0.93 U	**0.23 J**	NA	NA	NA	NA	NA	**1.2 J**	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	NA	NA	NA	NA	NA	0.93 U	0.93 U	0.93 U
Pentane	NE	**0.56 J**	**1.3**	NA	NA	NA	NA	NA	**7.2 J**	**0.62**	**0.21 J**	**6.2**	**0.94 J**	**0.44 J**	**0.47 J**	NA	NA	NA	NA	NA	0.59 U	0.59 U	**0.74**
Propanol, 2-	NE	1.2 UJ	0.49 U	7.4 U	7.6 U	7.4 U	7.9 U	7.4 U	**3.8 J**	**0.62 J**	**5.6**	**4.2 J**	1.2 U	1.2 UJ	0.49 U	6.9 U	7.4 U	7.1 U	7.4 U	7.6 U	0.49 U	0.49 U	**3.8**
Propylbenzene, n-	0.5	NA	NA	3.6 U	3.8 U	3.7 U	3.9 U	3.6 U	NA	NA	NA	NA	NA	NA	NA	3.4 U	3.6 U	3.5 U	3.7 U	3.8 U	NA	NA	NA
Styrene	0.6	0.85 U	0.85 U	3.2 U	3.3 U	3.2 U	3.4 U	3.2 U	0.85 U	0.85 U	0.85 U	**0.38 J**	0.85 U	0.85 U	0.85 U	3 U	3.2 U	3.1 U	3.2 U	3.3 U	0.85 U	0.85 U	0.85 U
t-Butyl alcohol	NE	0.61 U	0.61 U	NA	NA	NA	NA	NA	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	NA	NA	NA	NA	NA	0.61 U	0.61 U	0.61 U
Tetrachloroethane, 1,1,2,2-	<0.25	1.4 U	1.4 U	5.1 U	5.4 U	5.2 U	5.4 U	5.1 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	4.8 U	5.1 U	4.9 U	5.2 U	5.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	1.6	1.4 U	1.4 U	5 U	5.3 U	5.2 U	5.4 U	5 U	**1.5 J**	1.4 U	1.4 U	**0.41 J**	1.4 U	1.4 U	1.4 U	4.7 U	5 U	4.9 U	5.2 U	5.3 U	1.4 U	1.4 U	1.4 U
Tetrahydrofuran	0.4	NA	NA	2.2 U	2.3 U	2.2 U	2.3 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	2.1 U	2.2 U	**2.1 J**	2.2 U	2.3 U	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	NE	1.1 U	1.1 U	NA	NA	NA	NA	NA	1.1 U	5.5 U	14 U	1.1 U	1.1 U	1.1 U	1.1 U	NA	NA	NA	NA	NA	1.1 U	1.1 U	14 U
Thiophene	NE	0.69 U	0.69 U	NA	NA	NA	NA	NA	0.69 U	0.69 U	0.69 UJ	0.69 U	0.69 U	0.69 U	0.69 U	NA	NA	NA	NA	NA	0.69 U	0.69 U	0.69 UJ
Trans-1,2-dichloroethene	NE	0.79 U	0.79 U	2.9 U	3.1 U	3 U	3.1 U	2.9 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	2.8 U	2.9 U	2.9 U	3 U	3.1 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	3.6	**0.46 J**	**0.54 J**	5.7 U	6 U	5.8 U	6.1 U	5.7 U	1.5 U	1.5 U	**0.69 J**	**0.54 J**	**0.53 J**	**0.46 J**	**0.54 J**	5.4 U	5.7 U	5.5 U	5.8 U	6 U	1.5 U	1.5 U	**0.61 J**
Trichlorobenzene, 1,2,4-	4.8	1.5 U	1.5 U	22.3 U	23 U	22.3 U	23.7 U	22.3 UJ	1.5 UJ	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	20.8 U	22.3 U	21.5 U	22.3 U	23 U	1.5 UJ	3.7 U	1.5 U
Trichloroethane, 1,1,1-	0.7	1.1 U	1.1 U	4 U	4.3 U	4.1 U	4.3 U	4 U	1.1 U	1.1 UJ	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	3.8 U	4 U	3.9 U	4.1 U	4.3 U	1.1 U	1.1 UJ	1.1 U
Trichloroethane, 1,1,2-	<0.25	1.1 U	1.1 U	4 U	4.3 U	4.1 U	4.3 U	4 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	3.8 U	4 U	3.9 U	4.1 U	4.3 U	1.1 U	1.1 U	1.1 U
Trichloroethene	0.5	1.1 U	1.1 U	4 U	4.2 U	4.1 U	4.2 U	4 U	**1.2 J**	1.1 U	1.1 U	**0.59 J**	1.1 U	1.1 U	1.1 U	3.8 U	4 U	3.9 U	4.1 U	4.2 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	6.1	**1.2**	**1.3**	4.2 U	4.4 U	4.3 U	4.4 U	4.2 U	**1.8 J**	**1.4**	**1.5**	**1.2**	**1.0 J**	**1.2**	**1.4**	3.9 U	4.2 U	4 U	4.3 U	4.4 U	1.4 U	**1.5 J**	**1.4**
Trimethylbenzene, 1,2,3-	0.6	0.98 U	0.98 U	NA	NA	NA	NA	NA	**1.2 J**	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	NA	NA	NA	NA	NA	0.98 U	0.98 U	**0.29 J**
Trimethylbenzene, 1,2,4-	2.5	0.98 U	0.98 U	3.6 U	3.8 U	3.7 U	3.9 U	3.6 UJ	2.8 U	0.98 U	0.98 U	**0.59 J**	0.98 U	0.98 U	0.98 U	3.4 U	3.6 U	**3.6**	3.7 U	3.8 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,3,5-	1	0.98 U	0.98 U	3.6 U	3.8 U	3.7 U	3.9 U	3.6 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	3.4 U	3.6 U	3.5 UJ	3.7 U	3.8 U	0.98 U	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	2	0.93 U	**0.37 J**	3.5 U	3.6 U	3.6 U	3.7 U	3.5 U	**5.2 J**	**1.2**	0.93 U	**0.70 J**	0.93 U	0.93 U	**0.37 J**	3.3 U	3.5 U	3.4 U	3.6 U	3.6 U	0.93 U	0.93 U	**0.56 J**
Undecane, n-	2.3	**0.45 J**	**0.32 J**	NA	NA	NA	NA	NA	1.3 U	1.3 U	1.3 U	**67**	1.3 U	1.3 U	1.3 U	NA	NA	NA	NA	NA	1.3 U	6.4 UJ	1.3 U
Vinyl bromide	NE	0.87 U	0.87 U	NA	NA	NA	NA	NA	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	NA	NA	NA	NA	NA	0.87 U	0.87 U	0.87 U
Vinyl chloride	<0.25	0.51 U	0.51 U	1.9 U	2 U	1.9 U	2 U	1.9 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	1.8 U	1.9 U	1.8 U	1.9 U	2 U	0.51 U	0.51 U	0.51 U

Table 5-2
Ambient Air Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Sample Name: / **Sample Date:**	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2AA03 12/19/2007	OU2AA03 3/27/2008	OU2AA03 6/18/2008	OU2AA03 9/16/2008	OU2AA04 2/21/2007	OU2AA04 9/18/2007	OU2AA04 12/19/2007	OU2AA04 3/27/2008	OU2AA04 6/19/2008	OU2AA04 9/23/2008
BTEX (ug/m3)											
Benzene	5.8	**3.0**	**2.1**	0.64 UJ	**0.26 J**	0.70 U	0.64 U	**1.5**	**2.0**	**0.77 J**	**0.35 J**
Ethylbenzene	1.9	**1.8**	**0.82 J**	0.87 U	0.87 U	0.87 U	0.87 U	**0.39 J**	**0.65 J**	**0.30 J**	0.87 U
Toluene	21	**8.9**	**6.7**	0.75 U	**1.4 J**	1.1 U	**0.68 J**	**2.6**	**4.7**	**1.9**	**1.3**
Xylene, m,p-	3.1	**5.7**	**2.1**	1.7 U	**0.56 J**	1.7 U	**0.22 J**	**1.0 J**	**2.0**	**0.65 J**	**0.61 J**
Xylene, o-	2.5	**2.0**	**0.89**	0.87 U	**0.22 J**	0.87 U	0.87 U	**0.39 J**	**0.65 J**	**0.22 J**	0.87 U
Xylene, total	NE	**7.7**	**2.99**	ND	**2.44**	ND	**0.22**	**1.39**	**2.65**	**0.87**	**2.26**
Other VOCs (ug/m3)											
Acetaldehyde	NE	1.8 U	**12 J**	**0.86 J**	**39 J**	0.58 UJ	**15**	1.8 U	**13 J**	**43**	**24**
Acetone	58	**13**	**14 J**	1.2 U	**7.6 J**	6.4 U	**9.4**	**8.0**	**10 J**	**11**	**8.6**
Acrolein (propenal)	NE	0.46 U	**0.49 J**	0.46 U	0.46 U	0.46 U	0.46 U	0.46 U	**0.30 J**	**0.37 J**	**0.18 J**
Allyl chloride	NE	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Benzothiophene	NE	1.1 U	1.1 U	1.1 U	1.1 U	5.5 UJ	14 U	1.1 U	1.1 U	1.1 UJ	1.1 U
Bromodichloromethane	NE	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	NE	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	0.9	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
Butadiene, 1,3-	NE	0.44 U	**0.15 J**	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Butane	NE	**8.4**	**4.8**	0.48 U	**0.40 J**	2.8 U	**0.57**	**3.1**	**4.1**	**1.0**	**0.71**
Butanone, 2-	17	**1.0**	**1.7**	0.59 U	**1.0 J**	1.5 U	**2.2**	**0.71**	**1.3 J**	**1.8**	**0.94**
Carbon disulfide	NE	0.62 U	0.62 U	0.62 U	**0.16 J**	0.62 U	0.62 U	0.62 U	0.62 U	0.62 U	**0.19 J**
Carbon tetrachloride	1	**0.50 J**	**0.61 J**	1.3 U	**0.50 J**	**0.44 J**	**0.63 J**	**0.50 J**	**0.55 J**	**0.50 J**	**0.50 J**
Chlorobenzene	<0.25	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Chloroethane	0.4	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
Chloroform	0.5	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Chloromethane	4.6	**1.1**	**1.0**	0.41 U	**1.1 J**	1.0 U	**1.0**	**0.99**	**1.1**	**1.0**	**0.99**
Chlorotoluene, 2-	NE	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cryofluorane	1.3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Cyclohexane	3	**0.86**	**0.89**	0.69 U	0.69 U	0.69 U	0.69 U	**0.31 J**	**0.40 J**	0.69 U	0.69 U
Decane, n-	3.6	**0.70 J**	**0.49 J**	1.2 U	**1.0 J**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	**0.58 J**
Dibromochloromethane	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
Dibromoethane, 1,2-	<0.25	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Dichlorobenzene, 1,2-	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
Dichlorobenzene, 1,3-	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
Dichlorobenzene, 1,4-	0.8	1.2 U	1.2 U	1.2 U	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
Dichlorodifluoromethane	11	**2.6**	**2.6**	0.99 U	**3.2 J**	2.5 U	**2.6**	**2.2**	**2.0**	**2.4**	**2.9**
Dichloroethane, 1,1-	<0.25	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethane, 1,2-	<0.25	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U	0.81 U
Dichloroethene, cis-1,2-	<0.25	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloroethene, 1,1-	<0.25	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Dichloropropane, 1,2-	<0.25	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Dichloropropene, cis-1,3	<0.25	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U
Dichloropropene, trans-1,3	<0.25	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U	0.91 U

Table 5-2
Ambient Air Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Sample Name: / Sample Date:	NYSDOH Background Outdoor Air 95th Percentile[1]	OU2AA03 12/19/2007	OU2AA03 3/27/2008	OU2AA03 6/18/2008	OU2AA03 9/16/2008	OU2AA04 2/21/2007	OU2AA04 9/18/2007	OU2AA04 12/19/2007	OU2AA04 3/27/2008	OU2AA04 6/19/2008	OU2AA04 9/23/2008
Dioxane, 1,4-	NE	1.8 U	0.72 U	0.72 U	0.72 U	1.8 U	0.72 UJ	1.8 U	0.72 U	0.72 U	0.72 U
Dodecane, n-	7.6	1.4 U	**0.66 J**	1.4 U	**3.4 J**	1.4 U	1.4 U	1.4 U	1.4 U	**0.35 J**	**0.56 J**
Ethanol	220	**19**	**21**	1.9 U	**5.4 J**	3.9 U	**9.2**	5.5 U	**12**	**8.0**	**5.1**
Ethylthiophene, 2-	NE	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U	0.92 U
Ethyltoluene, p-	NE	**0.59 J**	**0.26 J**	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Heptane, n-	5.1	**1.9**	**1.0**	0.82 U	0.82 U	0.82 U	0.82 U	**0.57 J**	**1.2**	**0.25 J**	**0.33 J**
Hexachlorobutadiene	7	2.1 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
Hexane, n-	3.6	**3.2**	**1.8**	0.70 U	**0.28 J**	0.70 U	**1.2**	**1.2**	**1.5**	**0.56 J**	**0.39 J**
Hexanone, 2-	NE	0.82 U	0.82 U	0.82 U	0.82 U	2.0 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Indan	NE	**0.34 J**	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U	0.97 U
Indene	NE	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Isopropyl benzene	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	5.9	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 UJ	0.72 U
Methyl-2-pentanone, 4-	2.9	0.82 U	**0.28 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
Methylene chloride	2.9	0.69 U	**1.8**	1.7 U	0.83 U	6.1 U	2.5 U	0.69 U	**0.85 J**	1.1 U	0.76 U
Methylnaphthalene, 1-	NE	14 UJ	1.2 U	2.9 U	1.2 U	14 U	5.8 U	14 UJ	1.2 U	2.9 UJ	1.2 U
Methylnaphthalene, 2-	NE	14 U	1.2 U	2.9 UJ	1.2 U	14 U	14 U	14 U	1.2 U	2.9 UJ	1.2 U
Methylthiophene, 2-	NE	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Methylthiophene, 3-	NE	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U	0.80 U
Naphthalene	10	**0.37 J**	1.0 U	1.0 U	1.0 U	2.6 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Nonane	1.2	**0.68 J**	**0.39 J**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.29 J**	1.0 U	**0.52 J**
Octane, n-	2.1	**0.65 J**	**0.35 J**	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	**0.31 J**	0.93 U	0.93 U
Pentane	NE	**6.5**	**2.8**	0.59 U	**0.50 J**	0.77 U	0.59 U	**2.3**	**2.3**	**0.88**	**0.71**
Propanol, 2-	NE	**1.1 J**	**3.0**	1.2 UJ	0.49 U	0.49 U	**0.56**	0.49 U	**1.9**	**0.84 J**	0.49 U
Propylbenzene, n-	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.6	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
t-Butyl alcohol	NE	0.61 U	**0.31 J**	0.61 U	0.61 U	0.61 U	**0.18 J**	0.61 U	**0.32 J**	0.61 U	0.61 U
Tetrachloroethane, 1,1,2,2-	<0.25	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
Tetrachloroethene	1.6	**0.41 J**	**1.4**	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	**0.51 J**	1.4 U	**0.81 J**
Tetrahydrofuran	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	NE	**0.44 J**	1.1 U	1.1 U	1.1 U	1.1 U	14 U	1.1 U	1.1 U	1.1 U	1.1 U
Thiophene	NE	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 UJ	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	NE	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	3.6	**0.54 J**	1.5 U	1.5 U	**1.2 J**	1.5 U	**0.69 J**	**0.69 J**	**0.47 J**	**0.46 J**	**0.69 J**
Trichlorobenzene, 1,2,4-	4.8	1.5 U	1.5 U	1.5 U	1.5 U	1.5 UJ	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	0.7	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethane, 1,1,2-	<0.25	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	0.5	1.1 U	**1.3**	1.1 U	1.1 U	1.1 U	**0.27 J**	1.1 U	**0.87 J**	1.1 U	1.1 U
Trichlorofluoromethane	6.1	**1.3**	**1.2**	1.1 U	**1.8 J**	1.5 U	**1.4**	**1.2**	**1.2**	**1.3**	**1.5**
Trimethylbenzene, 1,2,3-	0.6	**0.64 J**	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,2,4-	2.5	**2.1**	**0.66 J**	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	**0.60 J**	0.98 U	0.98 U
Trimethylbenzene, 1,3,5-	1	**0.59 J**	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	2	**2.0**	**0.81 J**	0.93 U	**0.37 J**	0.93 U	0.93 U	**0.37 J**	**0.94**	**0.47 J**	**0.37 J**
Undecane, n-	2.3	**0.38 J**	**0.62 J**	1.3 U	**5.8 J**	1.3 U	1.3 U	1.3 U	**0.33 J**	1.3 U	**0.45 J**
Vinyl bromide	NE	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	<0.25	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U

Table 5-2
Ambient Air Analytical Data
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 2 (OU-2)

Notes:

ug/m3 - micrograms per cubic meter
BTEX - benzene, toluene, ethlybenzene, and xylene
VOCs - volatile organic compounds

[1] Source: New York State Department of Health (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. Background values for naphthalene are from the NYSDOH 1997 Control Home Database presented in Table C3 of the NYSDOH 2006 Guidance.

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

J - estimated value
U - indicates not detected to the reporting limit for organic analysis and the method detection limit for inorganic analysis
UJ - not detected at or above the reporting limit shown and the reporting limit is estimated

Bolding indicates a detected result value
Shading and bolding indicates that the detected result value exceeds NYSDOH 95th percentile

Table 6-1
Water Level Measurements and Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 4 (OU-4)

Well ID	Date of Measurement	Time of Measurement	Well Casing Diameter (inches)	Well Elevation (feet above MSL)[1]	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
WCMW-01S	8/5/2008	NM	1.00	18.18	4.34	13.84	
WCMW-01I	8/5/2008	NM	1.00	17.99	4.22	13.77	
WCMW-01D	8/5/2008	NM	1.00	17.69	4.03	13.66	
WCMW-02S	8/5/2008	NM	1.00	15.34	2.75	12.59	Measurements taken after heavy rain.
WCMW-02I	8/5/2008	NM	1.00	15.23	2.59	12.64	Measurements taken after heavy rain.
WCMW-02D	8/5/2008	NM	1.00	15.15	2.22	12.93	Measurements taken after heavy rain.
WCMW-03S	8/5/2008	NM	2.00	17.15	3.31	13.84	
WCMW-03I	8/5/2008	NM	2.00	17.20	3.44	13.76	
WCMW-03I2	8/5/2008	NM	2.00	17.12	3.43	13.69	
WCMW-04S	8/5/2008	NM	2.00	19.27	5.78	13.49	
WCMW-04I	8/5/2008	NM	2.00	19.21	5.57	13.64	
WCMW-04I2	8/5/2008	NM	2.00	19.16	5.71	13.45	
WCMW-05S	8/5/2008	NM	2.00	18.46	4.87	13.59	
WCMW-05I	8/5/2008	NM	2.00	18.27	4.70	13.57	
WCMW-05I2	8/5/2008	NM	2.00	18.39	4.74	13.65	
WCMW-06S	8/5/2008	NM	2.00	14.78	1.38	13.40	
WCMW-06I	8/5/2008	NM	2.00	14.92	1.61	13.31	
WCMW-06I2	8/5/2008	NM	2.00	15.08	1.71	13.37	
WCMW-07S	8/5/2008	NM	2.00	NS	NM	NC	
WCMW-07I	8/5/2008	NM	2.00	NS	NM	NC	
WCMW-07I2	8/5/2008	NM	2.00	NS	NM	NC	
WCMW-08S	8/5/2008	NM	2.00	17.65	3.51	14.14	
WCMW-08I	8/5/2008	NM	2.00	17.72	3.59	14.13	
WCMW-08I2	8/5/2008	NM	2.00	17.76	3.65	14.11	
WCMW-09S	8/5/2008	NM	2.00	18.03	4.09	13.94	
WCMW-10S	8/6/2008	NM	2.00	17.44	3.75	13.69	
WCMW-10D	8/6/2008	NM	2.00	17.36	3.62	13.74	
WCMW-11S	8/5/2008	NM	2.00	NS	NM	NC	
WCMW-11I	8/5/2008	NM	2.00	NS	NM	NC	
WCMW-11D	8/5/2008	NM	2.00	NS	NM	NC	
WCMW-12S	8/5/2008	NM	2.00	16.88	4.06	12.82	
WCMW-12I	8/5/2008	NM	2.00	17.19	4.37	12.82	
WCMW-12D	8/5/2008	NM	2.00	17.15	4.34	12.81	
WCMW-13S	8/5/2008	NM	2.00	15.11	2.40	12.71	
WCMW-13I	8/5/2008	NM	2.00	15.41	2.67	12.74	
WCMW-13D	8/5/2008	NM	2.00	15.38	2.61	12.77	
WCMW-14S	8/5/2008	NM	2.00	15.68	2.16	13.52	
WCMW-14I	8/5/2008	NM	2.00	15.34	1.88	13.46	
WCMW-14I2	8/5/2008	NM	2.00	15.33	1.84	13.49	
WCMW-14D	8/5/2008	NM	2.00	15.63	2.15	13.48	
WCMW-16S	8/5/2008	NM	2.00	17.45	3.21	14.24	
WCMW-16I	8/5/2008	NM	2.00	17.33	3.10	14.23	
WCMW-16I2	8/6/2008	NM	2.00	17.25	3.04	14.21	
BBSW-14*	8/6/2008	NM	NA	15.05	2.69	12.36	Watchogue Creek at Union Blvd.

Notes:

1 - Well Elevations obtained from 2007 Survey and reference NVGD88 datum

NS - 2007 Survey Data Not Available

-- Not Available

NM - Not Measured

NC - Not Calculated

* - Surface Water Gauging Station

Table 6-2
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operable Unit No. 4 (OU-4)

Well Identification	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)										
		November-99	June-02	November-02	March-03	July-03	September-03	January-04	April-04	June-04	October-04	February-05
WCMW-01S	2.0 - 12.0	NM	13.89	14.15	15.01	14.66	13.92	14.21	15.27	13.62	14.09	14.89
WCMW-01I	35.0 - 45.0	NM	14.01	14.22	14.72	14.59	13.98	14.22	15.26	13.66	14.10	14.78
WCMW-01D	64.0 - 72.0	NM	14.00	14.12	14.89	14.59	13.97	14.31	15.24	13.63	14.09	13.89
WCMW-02S	3.0 - 13.0	NM	12.96	13.12	13.53	13.45	12.92	13.09	14.00	12.66	13.03	14.07
WCMW-02I	34.5 - 44.5	NM	12.86	13.03	13.43	13.34	12.86	13.01	13.96	12.56	12.95	13.52
WCMW-02D	62.0 - 72.0	NM	12.92	13.10	13.64	13.44	12.90	12.75	14.01	12.61	12.98	13.46
WCMW-03S	4.83 - 9.83	NM	NM	13.96	14.67	14.48	13.75	NM	15.04	13.44	13.96	14.64
WCMW-03I	19.4 - 24.4	NM	NM	14.15	14.71	14.58	13.93	NM	15.16	13.61	14.05	14.69
WCMW-03I2	28.55 - 33.55	NM	NM	13.98	14.52	14.41	13.76	NM	14.98	13.46	13.89	14.50
WCMW-04S	1.5 - 11.5	NM	NM	13.97	14.50	14.36	13.70	NM	15.06	13.39	13.83	14.46
WCMW-04I	19.0 - 24.0	NM	NM	13.94	14.49	14.36	13.70	NM	15.00	13.41	13.83	14.47
WCMW-04I2	29.85 - 34.85	NM	NM	14.05	14.58	14.43	13.79	NM	15.07	13.48	13.88	14.55
WCMW-05S	1.4 - 11.4	NM	NM	14.20	14.68	14.46	13.82	NM	15.05	13.48	13.97	14.66
WCMW-05I	19.61 - 24.61	NM	NM	13.98	14.51	14.40	13.76	NM	14.99	13.44	13.89	14.52
WCMW-05I2	29.46 - 34.46	NM	NM	14.02	14.54	14.43	13.81	NM	15.02	13.48	13.92	14.57
WCMW-06S	2.0 - 12.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-06I	19.55 - 24.55	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-06I2	29.83 - 34.83	NM	NM	13.86	14.33	14.21	13.60	NM	14.79	13.27	13.74	14.39
WCMW-08S	4.2 - 9.2	NM	NM	14.55	15.14	15.02	14.32	14.57	15.59	14.00	14.45	15.11
WCMW-08I	19.2 - 24.2	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-08I2	26.9 - 31.9	NM	NM	14.55	15.13	15.05	14.33	14.59	15.61	14.03	14.47	15.14
WCMW-09S	5.0 - 15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-10S	15.0 - 20.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-10D	40.0 - 50.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-11S**	5.0 - 15.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-11I**	25.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-11D**	50.0 - 60.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-12S	3.0 - 13.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-12I	25.0 - 30.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-12D	65.0 - 70.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-13S	3.0 - 13.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-13I	25.0 - 30.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-13D	65.0 - 70.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-14S	2.0 - 12.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-14I	20.0 - 25.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-14I2	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-14D	67.0 - 72.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-16S	2.0 - 12.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-16I	20.0 - 25.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-16I2	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Table 6-2
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operable Unit No. 4 (OU-4)

Well Identification	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)										
		May-05	August-05	November-05	February-06	May-06	July/Aug-06	November-06	January-07	May-07	July/Aug-07	Oct/Nov-07
WCMW-01S	2.0 - 12.0	14.61	13.45	15.05	14.87	14.51	14.20	14.61	14.59	14.83	14.09	13.51
WCMW-01I	35.0 - 45.0	14.61	13.37	15.05	14.88	14.52	14.19	14.65	14.64	14.87	14.14	13.53
WCMW-01D	64.0 - 72.0	14.71	13.41	15.07	NM	14.51	14.18	14.63	14.53	14.84	14.14	13.55
WCMW-02S	3.0 - 13.0	13.44	12.25	13.69	13.53	13.22	12.95	13.39	13.35	13.60	12.95	12.35
WCMW-02I	34.5 - 44.5	13.41	12.28	13.75	13.61	13.28	12.98	13.43	13.41	13.67	12.98	12.34
WCMW-02D	62.0 - 72.0	13.55	12.34	13.84	13.64	13.32	12.98	13.47	13.44	13.70	13.02	12.39
WCMW-03S	4.83 - 9.83	14.41	13.42	15.03	14.87	14.52	14.23	14.61	14.57	14.83	14.09	13.43
WCMW-03I	19.4 - 24.4	14.55	13.32	14.96	14.80	14.43	14.11	14.55	14.56	14.80	14.06	13.41
WCMW-03I2	28.55 - 33.55	14.38	13.30	14.95	14.79	14.42	14.10	14.55	14.54	14.79	14.05	13.40
WCMW-04S	1.5 - 11.5	14.32	13.10	14.73	14.59	14.23	13.90	14.36	14.33	14.58	13.83	13.18
WCMW-04I	19.0 - 24.0	14.33	13.10	14.73	14.59	14.23	13.90	14.36	14.35	14.59	13.84	13.20
WCMW-04I2	29.85 - 34.85	14.45	13.21	14.83	14.64	14.32	13.99	14.45	14.43	14.70	13.94	13.29
WCMW-05S	1.4 - 11.4	14.39	13.18	14.85	14.70	14.31	13.99	14.48	14.43	14.67	13.92	13.25
WCMW-05I	19.61 - 24.61	14.37	13.16	14.81	14.65	14.29	13.97	14.42	14.40	14.66	13.92	13.27
WCMW-05I2	29.46 - 34.46	14.41	13.17	14.84	14.68	14.33	13.98	14.46	14.44	14.70	13.95	13.31
WCMW-06S	2.0 - 12.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	13.03
WCMW-06I	19.55 - 24.55	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	13.02
WCMW-06I2	29.83 - 34.83	14.22	12.98	14.62	NM	14.12	NM	NM	14.25	14.45	13.69	13.07
WCMW-08S	4.2 - 9.2	15.01	13.73	15.43	15.26	14.92	14.58	14.99	15.01	15.29	14.52	13.82
WCMW-08I	19.2 - 24.2	NM	NM	NM	NM	NM	14.60	15.03	15.03	15.28	14.51	13.85
WCMW-08I2	26.9 - 31.9	15.03	13.77	15.44	15.27	14.92	14.59	15.02	15.02	15.28	14.52	13.82
WCMW-09S	5.0 - 15.0	NM	NM	NM	15.05	14.71	14.39	14.81	14.82	15.08	14.32	13.64
WCMW-10S	15.0 - 20.0	NM	NM	NM	NM	NM	NM	NM	14.57	17.44	NM	13.47
WCMW-10D	40.0 - 50.0	NM	NM	NM	14.82	14.46	14.14	NM	14.57	17.36	NM	13.42
WCMW-11S**	5.0 - 15.0	NM	NM	NM	15.84	NM	NM	NM	NM	NM	NM	NM
WCMW-11I**	25.0 - 35.0	NM	NM	NM	15.84	NM	NM	NM	NM	NM	NM	NM
WCMW-11D**	50.0 - 60.0	NM	NM	NM	15.81	NM	NM	NM	NM	NM	NM	NM
WCMW-12S	3.0 - 13.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-12I	25.0 - 30.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-12D	65.0 - 70.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-13S	3.0 - 13.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-13I	25.0 - 30.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-13D	65.0 - 70.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-14S	2.0 - 12.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-14I	20.0 - 25.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-14I2	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-14D	67.0 - 72.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-16S	2.0 - 12.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-16I	20.0 - 25.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WCMW-16I2	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Table 6-2
Historic Calculated Groundwater Elevations
Bay Shore/Brightwaters Former MGP Site
Operable Unit No. 4 (OU-4)

Well Identification	Screen Interval (feet bgs)	Groundwater Elevations in Feet Above Mean Sea Level (MSL)					
		January-08	May-08	August-08	Minimum	Average	Maximum
WCMW-01S	2.0 - 12.0	14.28	14.79	13.84	13.45	14.37	15.27
WCMW-01I	35.0 - 45.0	14.30	14.88	13.77	13.37	14.37	15.26
WCMW-01D	64.0 - 72.0	14.28	14.87	13.66	13.41	14.31	15.24
WCMW-02S	3.0 - 13.0	13.07	13.54	12.59	12.25	13.20	14.07
WCMW-02I	34.5 - 44.5	13.11	13.62	12.64	12.28	13.17	13.96
WCMW-02D	62.0 - 72.0	13.16	13.65	12.93	12.34	13.22	14.01
WCMW-03S	4.83 - 9.83	14.28	14.79	13.84	13.42	14.31	15.04
WCMW-03I	19.4 - 24.4	14.22	14.78	13.76	13.32	14.33	15.16
WCMW-03I2	28.55 - 33.55	14.17	14.77	13.69	13.30	14.25	14.98
WCMW-04S	1.5 - 11.5	13.97	14.57	13.49	13.10	14.11	15.06
WCMW-04I	19.0 - 24.0	14.02	14.59	13.64	13.10	14.12	15.00
WCMW-04I2	29.85 - 34.85	14.12	14.67	13.45	13.21	14.20	15.07
WCMW-05S	1.4 - 11.4	14.14	14.64	13.59	13.18	14.22	15.05
WCMW-05I	19.61 - 24.61	14.07	14.62	13.57	13.16	14.17	14.99
WCMW-05I2	29.46 - 34.46	14.08	14.66	13.65	13.17	14.20	15.02
WCMW-06S	2.0 - 12.0	13.83	14.38	13.40	13.03	13.66	14.38
WCMW-06I	19.55 - 24.55	13.82	14.36	13.31	13.02	13.63	14.36
WCMW-06I2	29.83 - 34.83	13.83	14.39	13.37	12.98	13.96	14.79
WCMW-08S	4.2 - 9.2	14.64	15.26	14.14	13.73	14.75	15.59
WCMW-08I	19.2 - 24.2	14.66	15.27	14.13	13.85	14.71	15.28
WCMW-08I2	26.9 - 31.9	14.74	15.25	14.11	13.77	14.77	15.61
WCMW-09S	5.0 - 15.0	14.45	15.04	13.94	13.64	14.57	15.08
WCMW-10S	15.0 - 20.0	14.18	14.80	13.69	13.47	14.69	17.44
WCMW-10D	40.0 - 50.0	14.18	14.80	13.74	13.42	14.61	17.36
WCMW-11S**	5.0 - 15.0	NM	NC	NC	15.84	15.84	15.84
WCMW-11I**	25.0 - 35.0	NM	NC	NC	15.84	15.84	15.84
WCMW-11D**	50.0 - 60.0	NM	NC	NC	15.81	15.81	15.81
WCMW-12S	3.0 - 13.0	NM	13.77	12.82	12.82	13.30	13.77
WCMW-12I	25.0 - 30.0	NM	13.76	12.82	12.82	13.29	13.76
WCMW-12D	65.0 - 70.0	NM	13.78	12.81	12.81	13.30	13.78
WCMW-13S	3.0 - 13.0	NM	13.59	12.71	12.71	13.15	13.59
WCMW-13I	25.0 - 30.0	NM	13.68	12.74	12.74	13.21	13.68
WCMW-13D	65.0 - 70.0	NM	13.71	12.92	12.92	13.32	13.71
WCMW-14S	2.0 - 12.0	NM	14.57	13.80	13.80	14.19	14.57
WCMW-14I	20.0 - 25.0	NM	14.53	13.50	13.50	14.02	14.53
WCMW-14I2	30.0 - 35.0	NM	14.53	13.18	13.18	13.86	14.53
WCMW-14D	67.0 - 72.0	NM	14.56	12.42	12.42	13.49	14.56
WCMW-16S	2.0 - 12.0	NM	15.29	14.35	14.35	14.82	15.29
WCMW-16I	20.0 - 25.0	NM	15.28	14.29	14.29	14.79	15.28
WCMW-16I2	30.0 - 35.0	NM	15.25	14.56	14.56	14.91	15.25

Notes:
NM - not measured
bgs - below ground surface
NC - not calculated
Well Elevations obtained from 2007 Survey and reference NVGD88 datum
** 2007 Groundwater Elevation Data not Available. Groundwater elevation data presented is in reference to the NGVD29 Datum
* Surface Water Gauging Station

Table 6-3
Summary of Historic Total BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Report
Operable Unit No. 4 (OU-4)

Well No.	Screen Interval (feet)	Total BTEX Groundwater Concentration (ug/l)												
		Sampling Date												
		2002		2003			2004				2005			
		June/July	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
WCMW-01D	64.0 - 74.0	0	0	--	0	--	--	0	0	--	--	--	--	--
WCMW-01I	35.0 - 45.0	0	0	0	0	0	--	0	0	--	0	--	--	--
WCMW-01S	2.0 - 12.0	5	1	0	0	0	0	0	11	0	0	0	10	0
WCMW-02D	62.0 - 72.0	0	0	--	--	--	--	0	0	--	--	--	--	--
WCMW-02I	34.5 - 44.5	0	0	0	0	0	--	0	0	--	--	--	--	--
WCMW-02S	3.0 - 13.0	6	0	0	0	0	0	0	0	--	0	--	--	--
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-03S	4.83 - 9.83	--	10	12	25	0	10	25	14	0	42	14	23	10
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-04S	1.5 - 11.5	--	33	0	15	16	12	0	10	40	0	16	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-05S	1.4 - 11.4	--	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	--	--	--	--	--
WCMW-06S	2.0 - 12.0	--	0	0	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-07S	2.76 - 12.76	--	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-08S	4.2 - 9.2	--	0	0	0	0	--	0	0	--	--	--	--	--
WCMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11D	50.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 6-3
Summary of Historic Total BTEX Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Report
Operable Unit No. 4 (OU-4)

Well No.	Screen Interval (feet)	Total BTEX Groundwater Concentration (ug/l)															
		Sampling Date															
		2006				2007				2008			Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep					
WCMW-01D	64.0 - 74.0	0	--	--	--	0	--	0	2	0	0	0	0	2	0	0	2
WCMW-01I	35.0 - 45.0	0	--	--	--	0	--	0	1	0	0	0	0	1	0	0	1
WCMW-01S	2.0 - 12.0	0	0	23	0	0	0	13	9	2	0	12	0	23	3	0	23
WCMW-02D	62.0 - 72.0	0	--	--	--	0	--	0	0	0	0	0	0	0	0	0	0
WCMW-02I	34.5 - 44.5	0	--	--	--	0	--	0	0	0	0	0	0	0	0	0	0
WCMW-02S	3.0 - 13.0	0	0	0	0	0	0	4	6	0	0	2	0	6	1	0	6
WCMW-03I	19.4 - 24.4	--	0	--	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-03I2	28.55 - 33.55	--	0	--	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-03S	4.83 - 9.83	--	0	22	20	0	12	32	0	20	21	25	0	42	15	0	42
WCMW-04I	19.0 - 24.0	--	--	--	0	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-04I2	29.85 - 34.85	--	--	--	0		--	0	0	0	0	0	0	0	0	0	0
WCMW-04S	1.5 - 11.5	11	10	31	16	0	12	23	25	6	22	24	0	40	14	0	40
WCMW-05I	19.61 - 24.61	--	0	--	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-05I2	29.46 - 34.46	--	0	--	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-05S	1.4 - 11.4	--	0	--	--	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-06S	2.0 - 12.0	--	--	--	--	0	0	0	0	0	0	0	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-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-08I	19.2 - 24.2	--	--	--	--	--	--	0	0	0	--	0	0	0	0	0	0
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	--	0	0	0	--	0	0	0	0	0	0
WCMW-08S	4.2 - 9.2	0	--	--	--	--	--	0	0	0	--	0	0	0	0	0	0
WCMW-09S	5.0 - 15.0	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	1	0	0	1
WCMW-10S	15.0 - 20.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
WCMW-11D	50.0 - 60.0	0	--	0	--	--	--	--	--	--	0	--	0	0	0	0	0
WCMW-11I	25.0 - 35.0	0	--	0	--	--	--	--	--	--	0	--	0	0	0	0	0
WCMW-11S	5.0 - 15.0	80	--	148	--	--	--	--	--	--	53	--	53	148	94	53	148
WCMW-12D	65.0 - 70.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	0	0	1	0	0	0	0	1
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0

NOTES:
BTEX - benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs
-- = Not Analyzed/Applicable
ug/l - Micrograms per liter
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
Peristaltic pump results are shown on this table

Table 6-4
Summary of Historic Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 4 (OU-4)

Well No.	Screen Interval	Total PAH Groundwater Concentrations (ug/l)												
		Sampling Date												
		2002		2003			2004				2005			
	(feet)	June/July	Nov/Dec	Feb-Apr	Jul/Aug	Sept/Oct	Feb/Mar	Apr/May	Jul/Aug	Nov/Dec	Feb/Mar	June	August	Nov/Dec
WCMW-01D	64.0 - 74.0	45	35	--	0	--	--	0	0	--	--	--	--	--
WCMW-01I	35.0 - 45.0	2	2	0	0	0	--	0	0	--	0	--	--	--
WCMW-01S	2.0 - 12.0	33	756	24	10	117	0	19	228	240	0	51	298	14
WCMW-02D	62.0 - 72.0	0	0	--	--	--	--	0	0	--	--	--	--	--
WCMW-02I	34.5 - 44.5	0	4	0	0	0	--	0	0	--	--	--	--	--
WCMW-02S	3.0 - 13.0	79	125	0	0	62	0	0	44	--	15	--	--	--
WCMW-03I	19.4 - 24.4	--	268	1,120	1,100	1,004	1,243	1261	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-03S	4.83 - 9.83	--	74	393	419	481	34	293	458	350	235	171	800	376
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-04S	1.5 - 11.5	--	1,080	141	69	270	50	0	219	836	17	136	204	153
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-05S	1.4 - 11.4	--	0	31	0	0	0	10	0	14	12	--	--	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-06S	2.0 - 12.0	--	39	0	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-07S	2.76 - 12.76	--	0	0	0	56	--	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-08S	4.2 - 9.2	--	0	0	0	0	--	0	0	--	--	--	--	--
WCMW-09S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10D	40.0 - 50.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-10S	15.0 - 20.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11D	50.0 - 60.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11I	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-11S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 6-4
Summary of Historic Total PAH Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 4 (OU-4)

Well No.	Screen Interval	Total PAH Groundwater Concentrations (ug/l)															
		Sampling Date															
		2006				2007				2008			Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
	(feet)	March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep					
WCMW-01D	64.0 - 74.0	0	--	--	--	0	--	0	0	0	0	0	0	45	7	0	45
WCMW-01I	35.0 - 45.0	0	--	--	--	0	--	0	0	0	0	2	0	2	0	0	2
WCMW-01S	2.0 - 12.0	0	10	340	130	78	291	203	345	47	9	353	0	756	141	0	756
WCMW-02D	62.0 - 72.0	0	--	--	--	0	--	0	0	0	0	1	0	0	0	0	1
WCMW-02I	34.5 - 44.5	0	--	--	--	0	--	0	0	0	0	1	0	4	0	0	4
WCMW-02S	3.0 - 13.0	0	0	30	0	0	0	77	101	0	4	51	0	125	28	0	125
WCMW-03I	19.4 - 24.4	--	1,770	--	--	--	--	255	315	939	134	290	134	1,770	996	134	1,770
WCMW-03I2	28.55 - 33.55	--	83	--	--	--	--	5	37	6	0	25	0	402	150	0	402
WCMW-03S	4.83 - 9.83	--	242	339	233	198	240	305	44	122	12	102	12	800	277	12	800
WCMW-04I	19.0 - 24.0	--	--	--	144	--	--	142	94	70	66	96	0	221	110	0	221
WCMW-04I2	29.85 - 34.85	--	--	--	0	--	--	0	0	0	0	0	0	95	9	0	95
WCMW-04S	1.5 - 11.5	116	57	264	445	95	214	194	326	186	72	337	0	1,080	234	0	1,080
WCMW-05I	19.61 - 24.61	--	286	--	--	--	--	242	287	162	153	121	153	338	247	121	338
WCMW-05I2	29.46 - 34.46	--	0	--	--	--	--	7	31	0	0	39	0	214	19	0	214
WCMW-05S	1.4 - 11.4	--	0	--	--	0	0	3	3	5	3	4	0	31	5	0	31
WCMW-06I	19.55 - 24.55	--	--	--	--	--	--	52	0	0	0	0	0	52	5	0	52
WCMW-06I2	29.83 - 34.83	--	--	--	--	--	--	0	11	0	0	0	0	11	1	0	11
WCMW-06S	2.0 - 12.0	--	--	--	--	0	0	1	0	0	4	0	0	39	3	0	39
WCMW-07I	18.9 - 23.9	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-07I2	28.95 - 33.95	--	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0
WCMW-07S	2.76 - 12.76	--	--	--	--	--	--	--	--	--	--	--	0	56	11	0	56
WCMW-08I	19.2 - 24.2	--	--	--	--	--	--	0	0	0	--	0	0	0	0	0	0
WCMW-08I2	26.9 - 31.9	--	--	--	--	--	--	0	0	0	--	0	0	0	0	0	0
WCMW-08S	4.2 - 9.2	0	--	--	--	--	--	0	0	0	--	0	0	0	0	0	0
WCMW-09S	5.0 - 15.0	0	0	0	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-10D	40.0 - 50.0	0	0	0	--	--	--	0	0	0	0	0	0	0	0	0	0
WCMW-10S	15.0 - 20.0	0	0	21	0	0	0	0	0	0	0	0	0	21	2	0	21
WCMW-11D	50.0 - 60.0	0	--	0	--	--	--	--	--	--	0	--	0	0	0	0	0
WCMW-11I	25.0 - 35.0	0	--	0	--	--	--	--	--	--	0	--	0	0	0	0	0
WCMW-11S	5.0 - 15.0	1,037	--	590	--	--	--	--	--	--	705	--	590	1,037	777	590	1,037
WCMW-12D	65.0 - 70.0	--	--	--	--	--	--	--	--	0	0	1	0	0	0	0	1
WCMW-12I	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-12S	3.0 - 13.0	--	--	--	--	--	--	--	--	2	5	4	2	5	4	2	5
WCMW-13D	65.0 - 70.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-13I	25.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-13S	3.0 - 13.0	--	--	--	--	--	--	--	--	0	0	1	0	0	0	0	1
WCMW-14D	67.0 - 72.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-14I	20.0 - 25.0	--	--	--	--	--	--	--	--	16	77	0	16	77	47	0	77
WCMW-14I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	70	0	0	0	0	70
WCMW-14S	2.0 - 12.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-16I	20.0 - 25.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-16I2	30.0 - 35.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0
WCMW-16S	2.0 - 12.0	--	--	--	--	--	--	--	--	4	28	57	4	28	16	4	57

NOTES:
PAH - polycyclic aromatic hydrocarbon
-- = Not Analyzed/Applicable
ug/l - Micrograms per liter
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.
Peristaltic pump results are shown on this table.

Table 6-5
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 4 (OU-4)

Operable Unit:		OU4	OU4	OU4	OU4	OU4	OU4	OU4
Well ID:		WCMW-01D	WCMW-01I	WCMW-01S	WCMW-02D	WCMW-02I	WCMW-02S	WCMW-03I
Screened Interval (feet):	**NYS**	64-74	35-45	2-12	62-72	34.5-44.5	3-13	19.4-24.4
Date Sampled:	**AWQS**	9/15/2008	9/15/2008	9/15/2008	9/19/2008	9/19/2008	9/19/2008	9/16/2008
BTEX (ug/l)								
Benzene	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	10 U	10 U	**8**	10 U	10 U	**1 J**	10 U
Xylene, m,p-	5	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	**3 J**	10 U	10 U	**1 J**	10 U
Total BTEX	NE	ND	ND	**12**	ND	ND	**2**	ND
Other VOCs (ug/l)								
Acetone	50	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U
Butanone, 2-	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isopropyl benzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	10	10 U	10 U	10 U	10 UJ	10 UJ	**6 J**	10 UJ
Naphthalene	10	10 U	10 U	**90**	10 U	10 U	**5**	**460**
Propylbenzene, n-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	**3 J**
Tetrahydrofuran	50	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	5	10 U	10 U	**7 J**	10 U	10 U	10 U	**9**
Trimethylbenzene, 1,2,4-	5	10 U	10 U	**14**	10 U	10 U	10 U	**22**
Trimethylpentane, 2,2,4-	NE	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Non-carcinogenic PAHs (ug/l)								
Acenaphthene	20	10 U	10 U	**120**	10 U	10 U	**29**	**32**
Acenaphthylene	NE	10 U	10 U	**70**	10 U	10 U	**8**	**120**
Anthracene	50	10 U	10 U	**10**	10 U	10 U	**2 J**	**12**
Fluoranthene	50	10 U	10 U	**2 J**	10 U	10 U	**2 J**	**3 J**
Fluorene	50	10 U	10 U	**26**	10 U	10 U	**6**	**70**
Methylnaphthalene, 2-	NE	10 U	10 U	**6**	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	**2 J**	**54**	**1 J**	10 U	**2 J**	10 U
Phenanthrene	50	10 U	10 U	**62**	10 U	10 U	10 U	**49**
Pyrene	50	10 U	10 U	**3 J**	10 U	10 U	**2 J**	**4 J**
Total Noncarcinogenic PAHs	NE	ND	**2**	**353**	**1**	ND	**51**	**290**
Carcinogenic PAHs (ug/l)								
Chrysene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)								
Total PAHs	NE	ND	**2**	**353**	**1**	ND	**51**	**290**

Table 6-5
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 4 (OU-4)

Operable Unit:		OU4	OU4	OU4	OU4	OU4	OU4	OU4
Well ID:		WCMW-03I2	WCMW-03S	WCMW-04I	WCMW-04I2	WCMW-04S	WCMW-05I	WCMW-05I2
Screened Interval (feet):	**NYS**	28.55-33.55	4.83-9.83	19-24	19-24	1.5-11.5	19.61-24.61	19.61-24.61
Date Sampled:	**AWQS**	9/16/2008	9/17/2008	9/16/2008	9/16/2008	9/17/2008	9/19/2008	9/19/2008
BTEX (ug/l)								
Benzene	1	10 U	**7**	10 U	10 U	**2 J**	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	10 U	**9**	10 U	10 U	**14**	10 U	10 U
Xylene, m,p-	5	10 U	**3 J**	10 U	10 U	**1 J**	10 U	10 U
Xylene, o-	5	10 U	**6**	10 U	10 U	**7**	10 U	10 U
Total BTEX	NE	ND	**25**	ND	ND	**24**	ND	ND
Other VOCs (ug/l)								
Acetone	50	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Butanone, 2-	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Isopropyl benzene	5	10 U	**3 J**	10 U	10 U	**5**	10 U	10 U
Methyl tert-butyl ether	10	**2 J**	**2 J**	10 UJ	10 UJ	**1 J**	**130 J**	**1 J**
Naphthalene	10	10 U	**120**	**20**	10 U	**67**	**38**	**8**
Propylbenzene, n-	5	10 U	10 U	10 U	10 U	**3 J**	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Tetrahydrofuran	50	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	**1 J**	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	5	10 U	**20**	10 U	10 U	**33**	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	**26**	10 U	10 U	**52**	**3 J**	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Non-carcinogenic PAHs (ug/l)								
Acenaphthene	20	10 U	**73**	**9**	10 U	**170**	**12**	**3 J**
Acenaphthylene	NE	10 U	**6**	**35**	10 U	**48**	**29**	**14**
Anthracene	50	**5**	**2 J**	**5 J**	10 U	**6**	**9**	10 U
Fluoranthene	50	**5**	**3 J**	**1 J**	10 U	**1 J**	**3 J**	10 U
Fluorene	50	10 U	**10**	**14**	10 U	**41**	**27**	**6**
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	**3 J**	**13**
Naphthalene	10	10 U	**2 J**	**4 J**	10 U	**33**	10 U	**3 J**
Phenanthrene	50	**6**	10 U	**27**	10 U	**36**	**34**	10 U
Pyrene	50	**6**	**6**	**1 J**	10 U	**2 J**	**4 J**	10 U
Total Noncarcinogenic PAHs	NE	**22**	**102**	**96**	ND	**337**	**121**	**39**
Carcinogenic PAHs (ug/l)								
Chrysene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)								
Total PAHs	NE	**22**	**102**	**96**	ND	**337**	**121**	**39**

Table 6-5
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 4 (OU-4)

Operable Unit:		OU4	OU4	OU4	OU4	OU4	OU4	OU4
Well ID:		WCMW-05S	WCMW-06I	WCMW-06I2	WCMW-06S	WCMW-08I	WCMW-08I2	WCMW-08S
Screened Interval (feet):	**NYS**	1.4-11.4	19.55-24.55	29.83-34.83	2-12	19.2-24.2	26.9-31.9	4.2 - 9.2
Date Sampled:	**AWQS**	9/19/2008	9/24/2008	9/24/2008	9/24/2008	9/15/2008	9/15/2008	9/16/2008
BTEX (ug/l)								
Benzene	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND
Other VOCs (ug/l)								
Acetone	50	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U
Butanone, 2-	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isopropyl benzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	10	**1 J**	**6 J**	10 UJ	**3 J**	10 U	**2 J**	10 UJ
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Propylbenzene, n-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Tetrahydrofuran	50	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ
Non-carcinogenic PAHs (ug/l)								
Acenaphthene	20	**4 J**	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Noncarcinogenic PAHs	NE	**4**	ND	ND	ND	ND	ND	ND
Carcinogenic PAHs (ug/l)								
Chrysene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)								
Total PAHs	NE	**4**	ND	ND	ND	ND	ND	ND

Table 6-5
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 4 (OU-4)

Operable Unit:		OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Well ID:		WCMW-09S	WCMW-10D	WCMW-10S	WCMW-12D	WCMW-12I	WCMW-12S	WCMW-13D	WCMW-13I
Screened Interval (feet):	NYS	5.0 - 15.0	40-50	15-20	67-72	25-30	3-13	65-70	25-30
Date Sampled:	AWQS	9/29/2008	9/25/2008	9/25/2008	9/22/2008	9/22/2008	9/22/2008	9/23/2008	9/23/2008
BTEX (ug/l)									
Benzene	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND
Other VOCs (ug/l)									
Acetone	50	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U
Butanone, 2-	50	10 U	10 U		10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Dichloroethene, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isopropyl benzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	10	10 UJ	**1 J**	10 UJ	10 UJ	**2 J**	**30 J**	10 U	**1 J**
Naphthalene	10	**6**	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U
Propylbenzene, n-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrahydrofuran	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Non-carcinogenic PAHs (ug/l)									
Acenaphthene	20	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U
Fluorene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U
Phenanthrene	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50	10 U	10 U	10 U	10 U	10 U	**2 J**	10 U	10 U
Total Noncarcinogenic PAHs	NE	ND	ND	ND	**1**	ND	**4**	ND	ND
Carcinogenic PAHs (ug/l)									
Chrysene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND
Total PAHs (ug/l)									
Total PAHs	NE	ND	ND	ND	**1**	ND	**4**	ND	ND

Table 6-5
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 4 (OU-4)

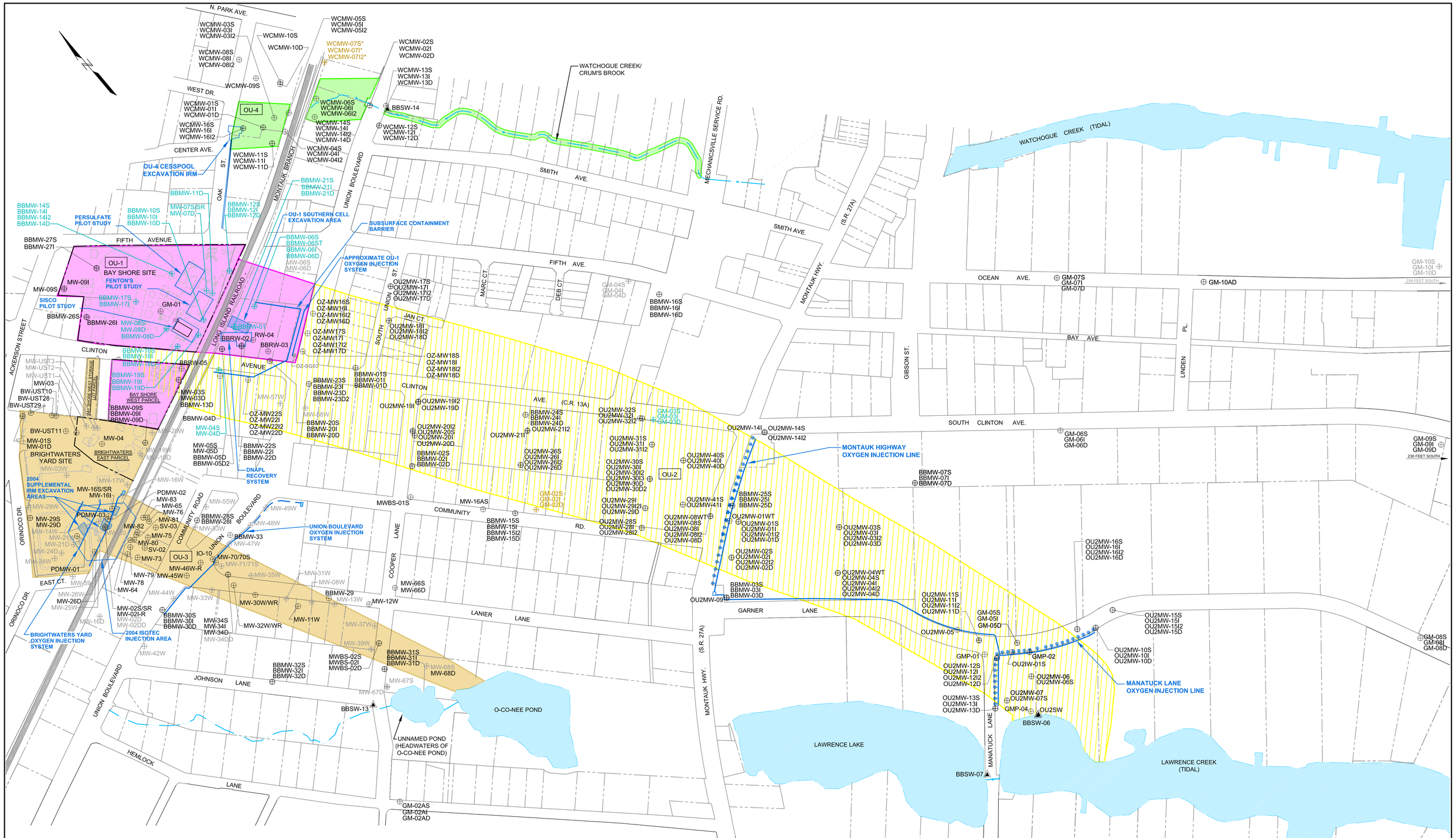
Operable Unit:		OU4	OU4	OU4	OU4	OU4	OU4	OU4	OU4
Well ID:		WCMW-13S	WCMW-14D	WCMW-14I	WCMW-14I2	WCMW-14S	WCMW-16I	WCMW-16I2	WCMW-16S
Screened Interval (feet):	NYS	3-13	67-72	20-25	30-35	2-12	20-25	30-35	2-12
Date Sampled:	AWQS	9/23/2008	9/24/2008	9/24/2008	9/24/2008	9/24/2008	9/15/2008	9/16/2008	9/15/2008
BTEX (ug/l)									
Benzene	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Toluene	5	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total BTEX	NE	**1**	ND	ND	ND	ND	ND	ND	ND
Other VOCs (ug/l)									
Acetone	50	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ
Butanone, 2-	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Dichloroethane, 1,1-	5	**1 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isopropyl benzene	5	**3 J**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	10	**4 J**	10 UJ	**92 J**	**2 J**	10 UJ	10 U	10 UJ	10 U
Naphthalene	10	**100**	10 U	**15**	**26**	10 U	10 U	10 U	10 U
Propylbenzene, n-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Tetrahydrofuran	50	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	5	**5**	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	**18**	10 U	**2 J**	**2 J**	10 U	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U
Non-carcinogenic PAHs (ug/l)									
Acenaphthene	20	10 U	10 U	10 U	**7**	10 U	10 U	10 U	**5 J**
Acenaphthylene	NE	10 U	10 U	10 U	**32**	10 U	10 U	10 U	**2 J**
Anthracene	50	10 U	10 U	10 U	**2 J**	10 U	10 U	10 U	**10**
Fluoranthene	50	10 U	10 U	10 U	**1 J**	10 U	10 U	10 U	**8**
Fluorene	50	10 U	10 U	10 U	**9**	10 U	10 U	10 U	**2 J**
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenanthrene	50	10 U	10 U	10 U	**17**	10 U	10 U	10 U	**18**
Pyrene	50	**1 J**	10 U	10 U	**2 J**	10 U	10 U	10 U	**11**
Total Noncarcinogenic PAHs	NE	**1**	ND	ND	**70**	ND	ND	ND	**56**
Carcinogenic PAHs (ug/l)									
Chrysene	0.002	10 U	10 U	10 U	10 U	10 U	10 U	10 U	**1 J**
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	1
Total PAHs (ug/l)									
Total PAHs	NE	**1**	ND	ND	**70**	ND	ND	ND	**57**

Table 6-5
Summary of Expanded Groundwater Analytical Results
Bay Shore/Brightwaters Former MGP Site
Operations, Maintenance and Monitoring Program
Operable Unit No. 4 (OU-4)

NOTES:

BTEX - benzene, toluene, ethylbenzene, and xylenes (a subset of VOCs)
VOCs - volatile organic compounds
SVOCs - semivolatile organic compounds
PAHs - polycyclic aromatic hydrocarbons
ug/l - micrograms per liter or parts per billion (ppb)
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
NA - not analyzed
NE - not established
ND - not detected; total concentration is listed as ND because no compounds were detected in the group
Bolding indicates the compound was detected
Shading indicates an exceedance of established NYS AWQS
U - indicates not detected at or above the reporting limit shown
J - estimated value
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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LEGEND:

GM-02AS	ACTIVE MONITORING WELL LOCATION
MW-67D	DESTROYED MONITORING WELL LOCATION
BBMW-21S	ABANDONED MONITORING WELL LOCATION
GM-02S	ACTIVE BUT UNAVAILABLE FOR SAMPLING MONITORING WELL LOCATION
WCMW-07S*	CONDITION UNKNOWN
BBSW-06	SURFACE WATER GAUGING STATION LOCATION

OU2MW-01S EXISTING MONITORING WELL CLUSTER LOCATION
OU2MW-01I S=SHALLOW
OU2MW-01I2 I=INTERMEDIATE
OU2MW-01D I2= INTERMEDIATE TWO
D=DEEP

0 150 300
SCALE, FEET

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BAY SHORE, NEW YORK

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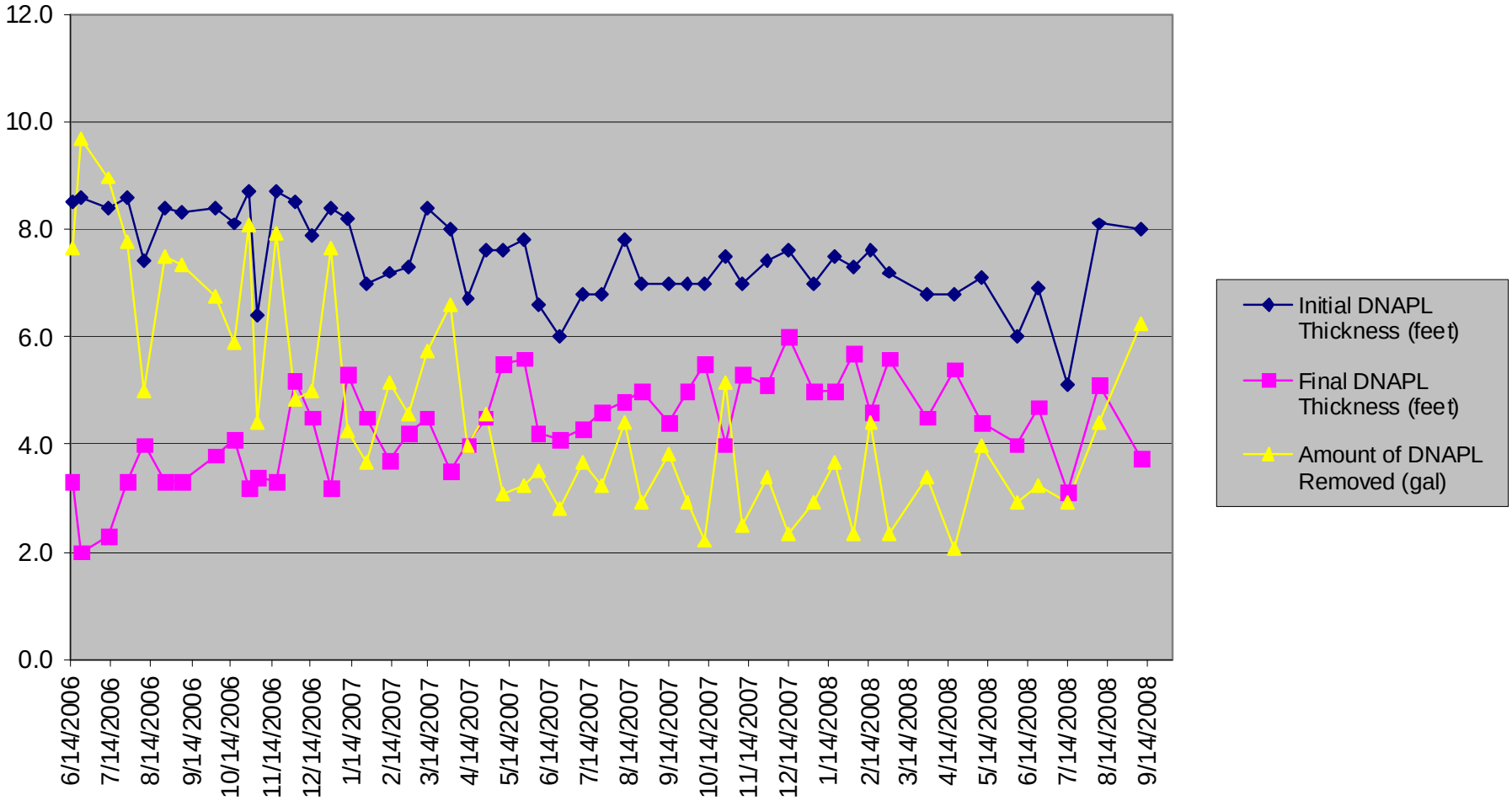
MONITORING WELL AND SURFACE WATER GAUGING STATION LOCATION MAP

December 2008 Figure 1

I:\GEI\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\Figs\ Bay-wells PLATE Q3-08.dwg \Dec 17, 2008

DNAPL Recovery Data BBRW-02



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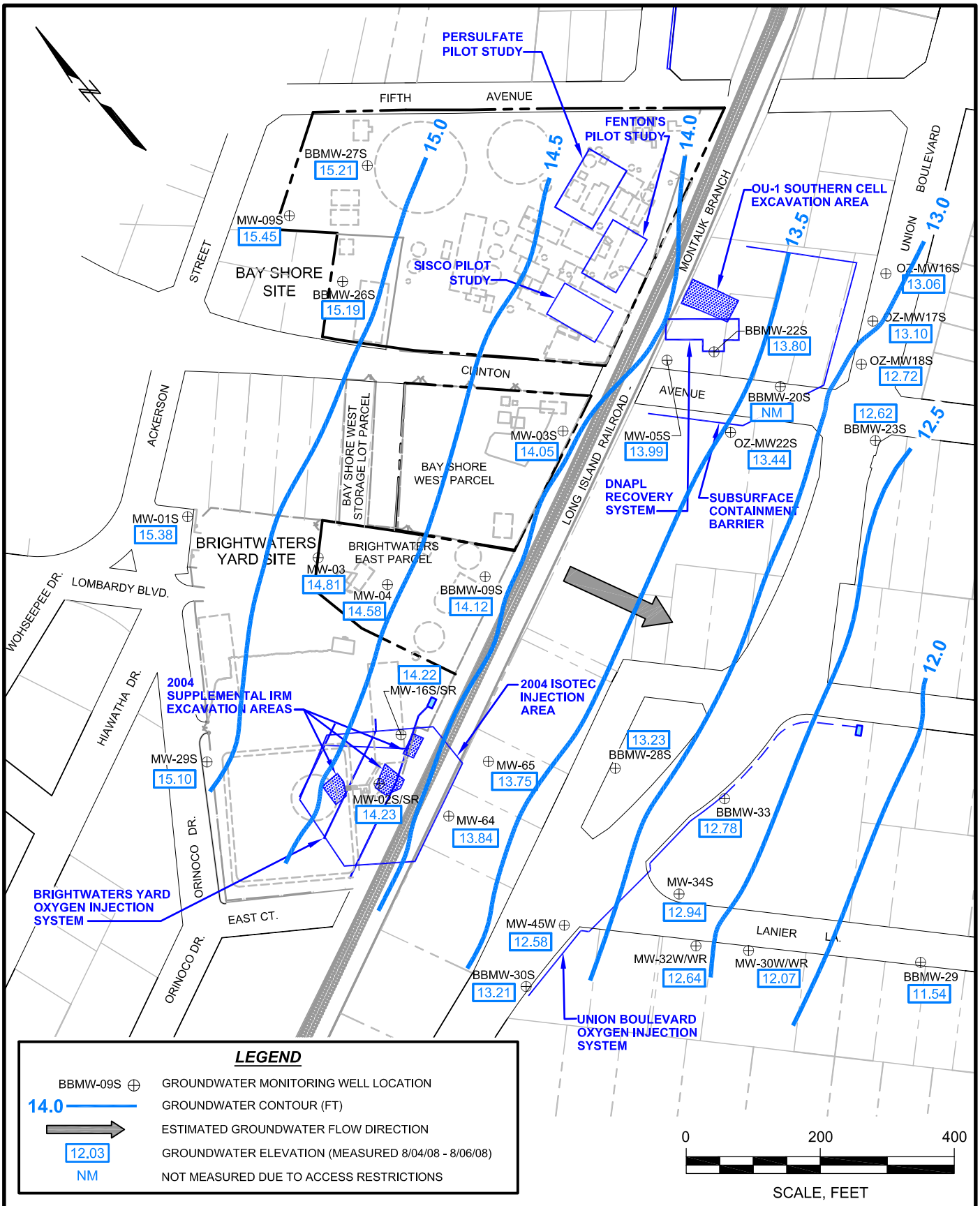
DNAPL RECOVERY DATA
BBRW-02

Project 061140-8-1707 | December 2008 | Figure 2

I:\GEI\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\OMM Graphs\ Bay Shore-DNAPL Recovery Well Graph.dwg \Dec 18, 2008



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BAY SHORE, NEW YORK

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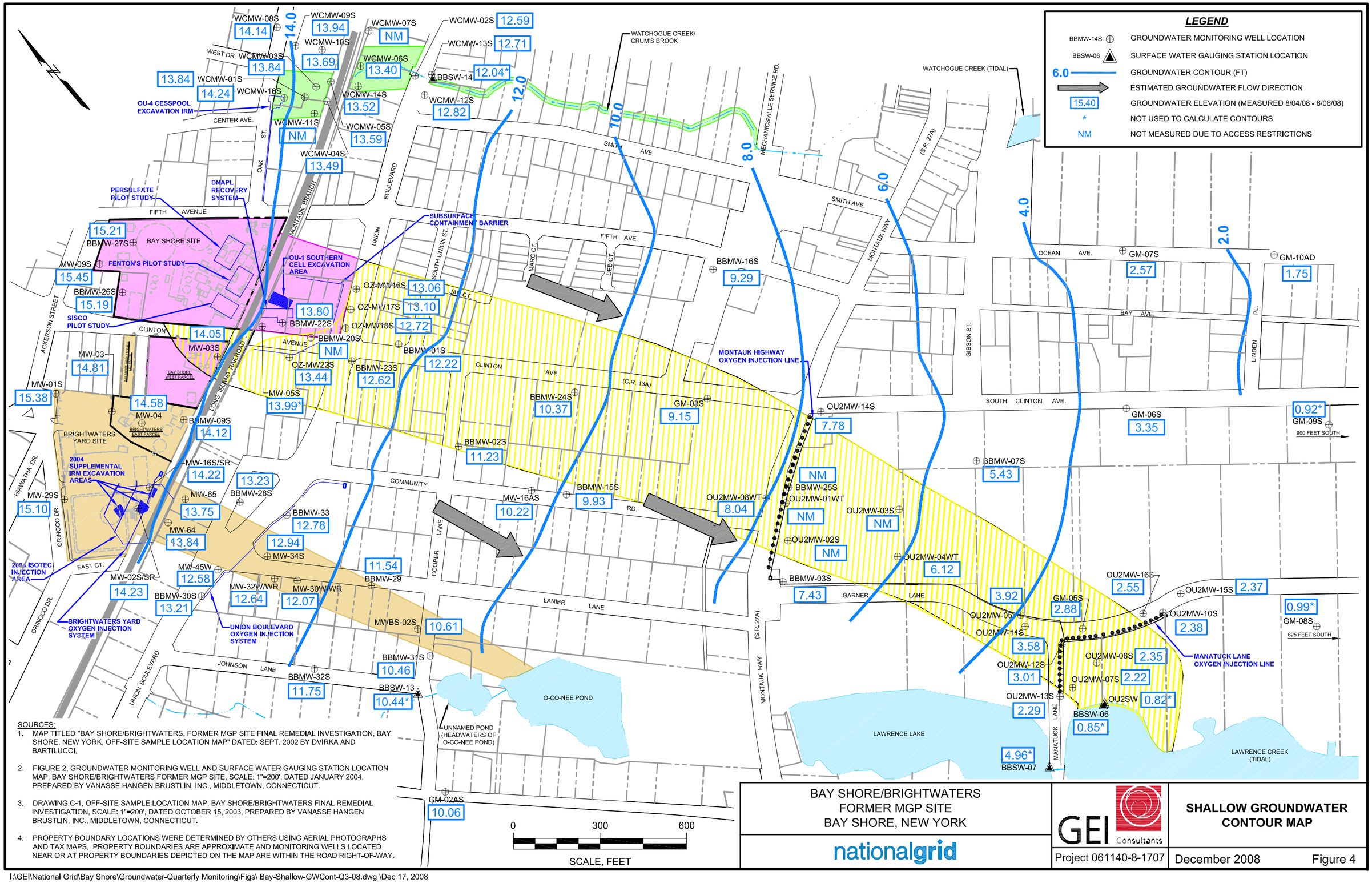
ON-SITE
SHALLOW GROUNDWATER
CONTOUR MAP

Project 061140-8-1707 | December 2008 | Figure 3

KEYSPAN\BAYSHORE\GROUNDWATER\BAY-ONSITE-SGWC-7-07.dwg



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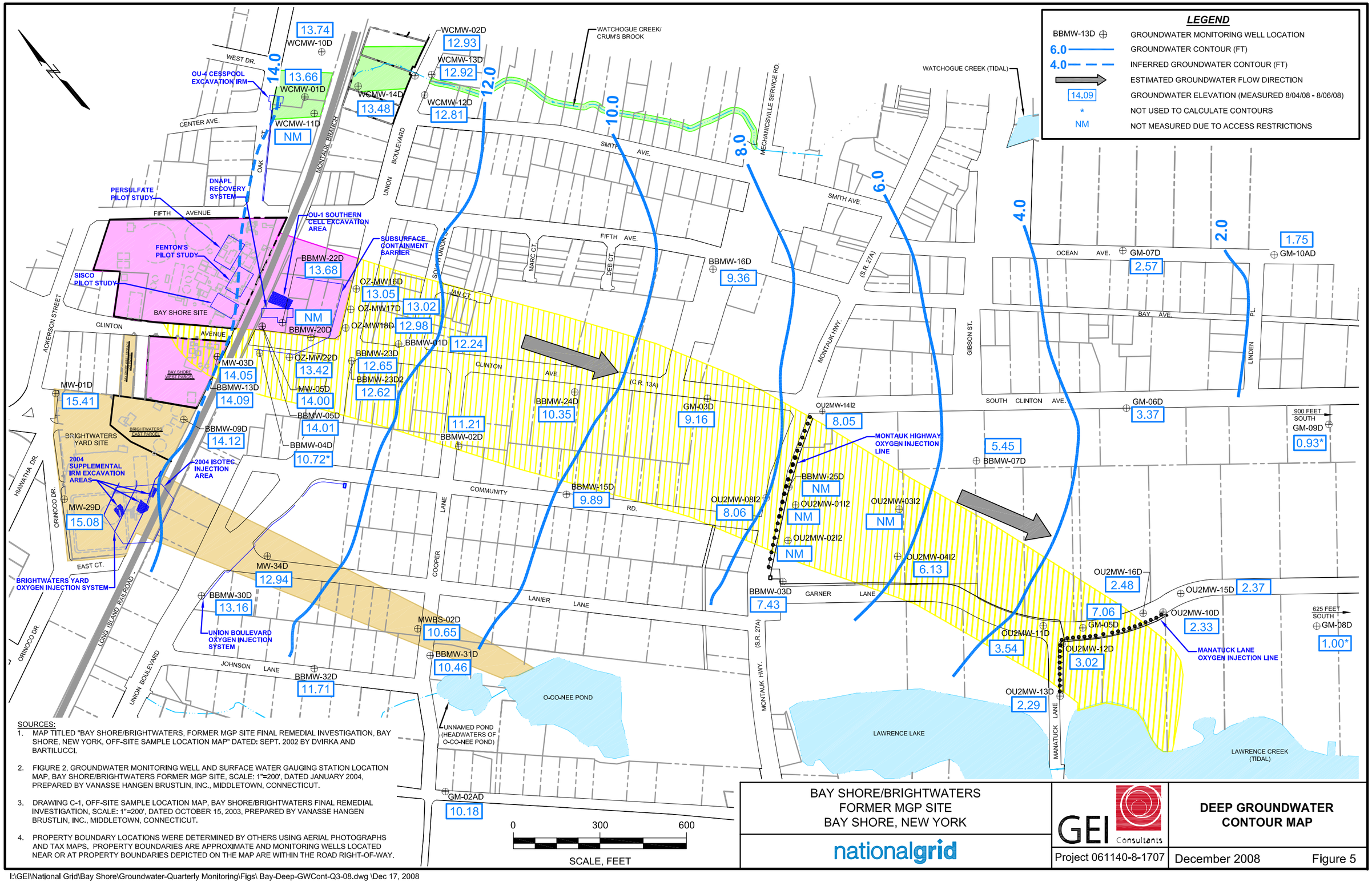
SHALLOW GROUNDWATER CONTOUR MAP

December 2008 Figure 4

I:\GEI\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\Figs\ Bay-Shallow-GWCont-Q3-08.dwg \Dec 17, 2008



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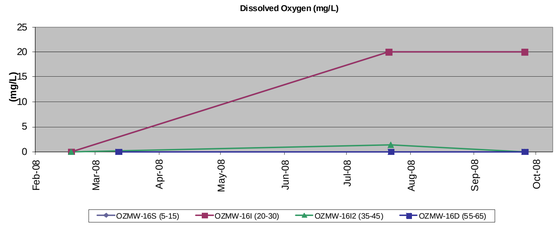
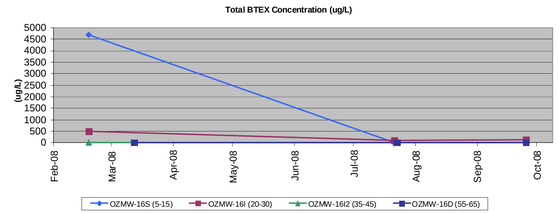
DEEP GROUNDWATER CONTOUR MAP

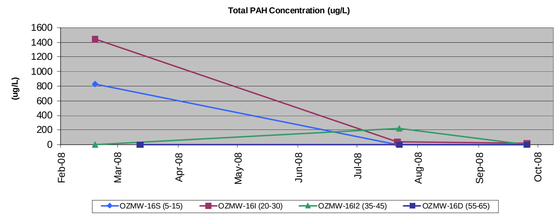
December 2008 Figure 5

I:\GEI\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\Figs\ Bay-Deep-GWCont-Q3-08.dwg \Dec 17, 2008

OUZMW-16







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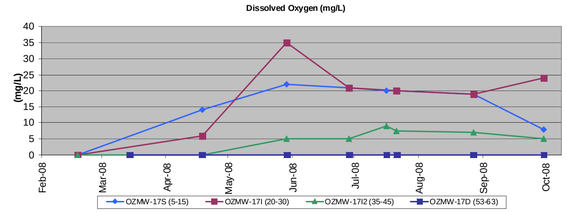

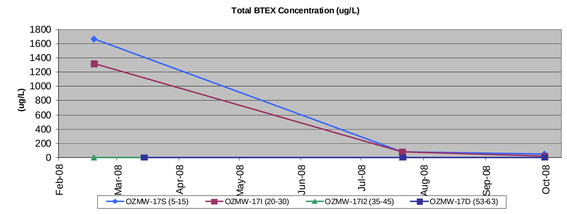

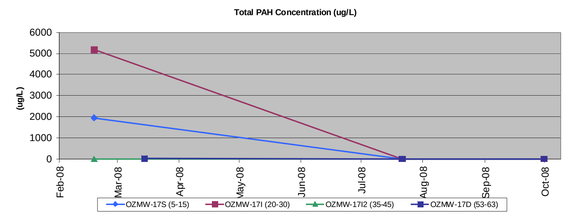

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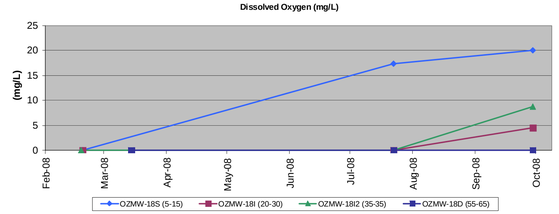

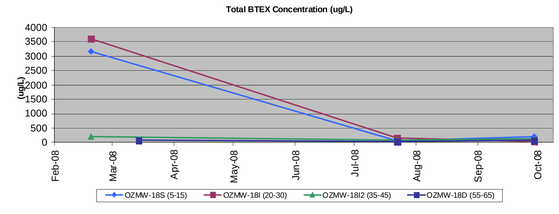

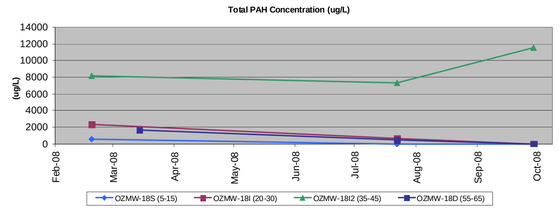

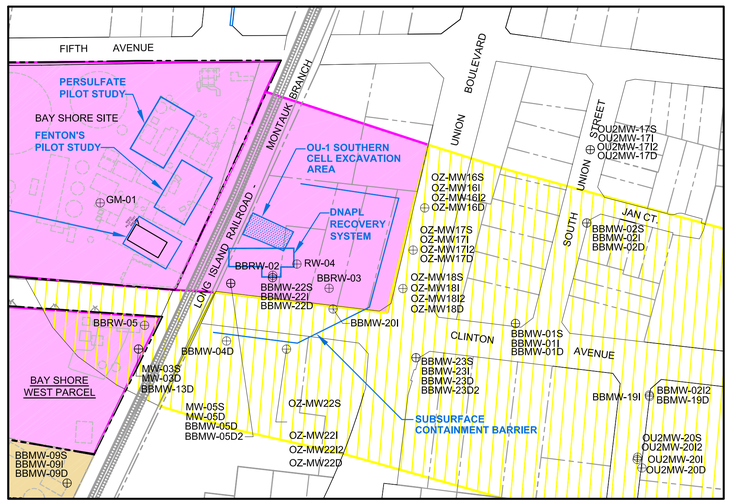

LEGEND:

⊕ OU2MW-08 WT,S,I,I2,D — ACTIVE MONITORING WELL LOCATION; WATER TABLE, SHALLOW, INTERMEDIATE, INTERMEDIATE 2, DEEP

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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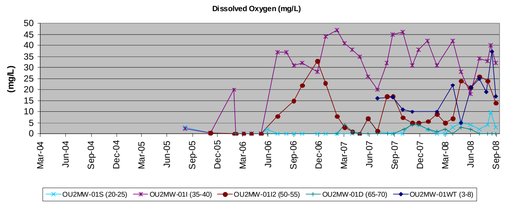
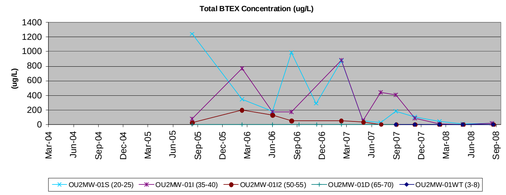
OPERABLE UNIT (OU)-1
OXYGEN INJECTION LINE
GROUNDWATER DATA

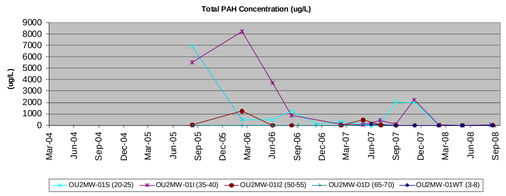
December 2008 — Figure 6

I:\GEI\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\OMM Graphs\ Bay Shore-Graphs Q-3 2008.dwg \Dec 22, 2008

OU2MW-01







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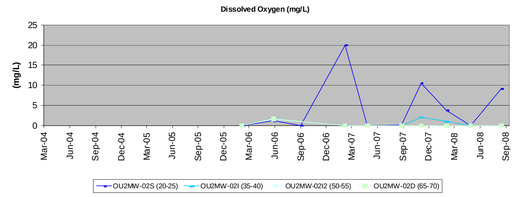

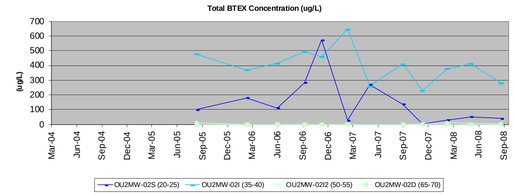

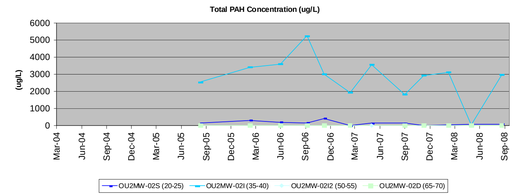

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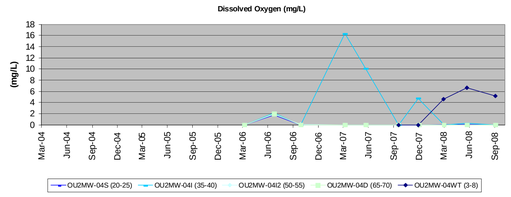

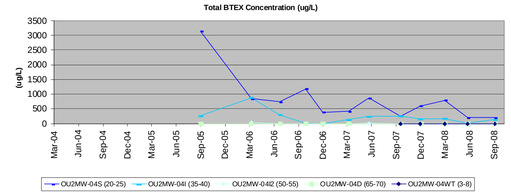

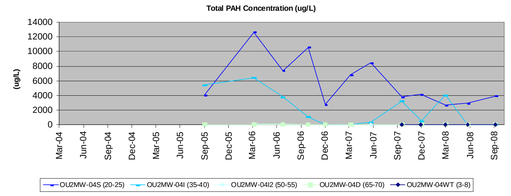

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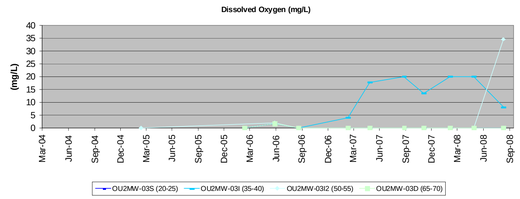

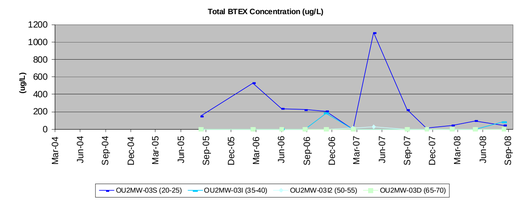

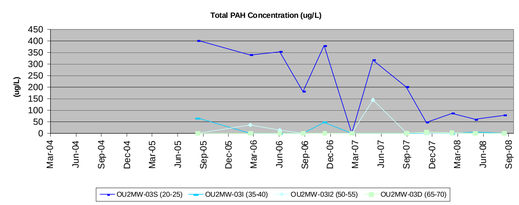

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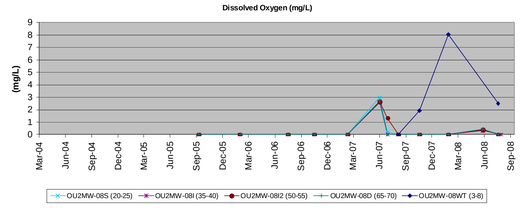
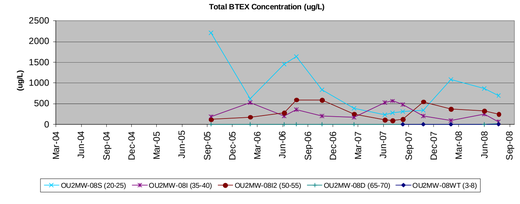
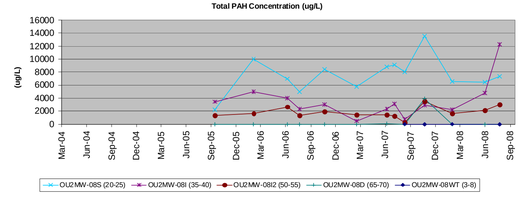
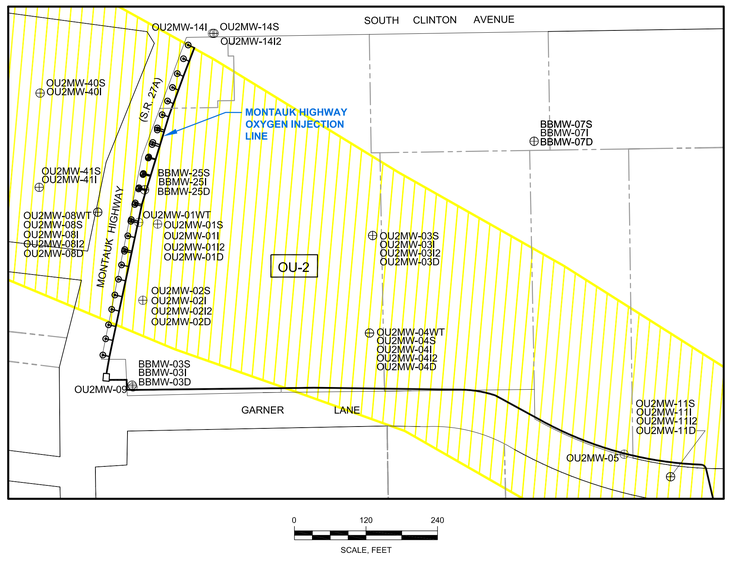




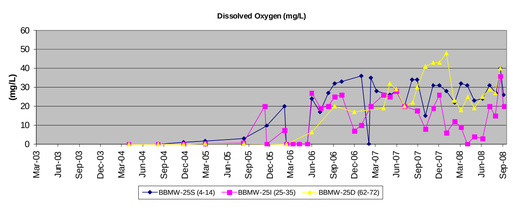


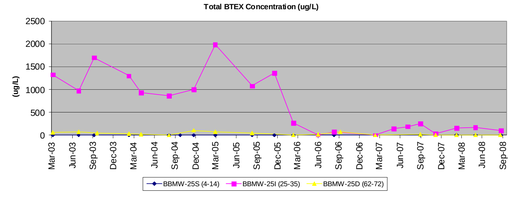


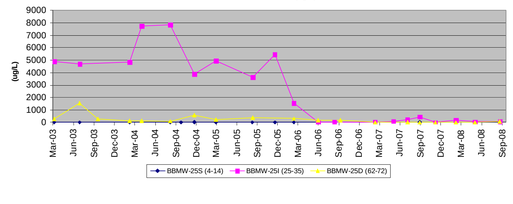
LEGEND:

⊕ OU2MW-08 WT,S,I,I2,D — ACTIVE MONITORING WELL LOCATION WATER TABLE, SHALLOW, INTERMEDIATE, INTERMEDIATE 2, DEEP

BBMW-25







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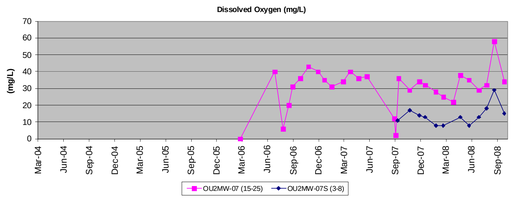
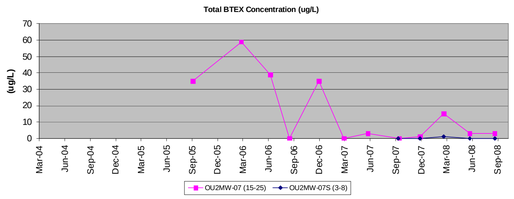
MONTAUK HIGHWAY OXYGEN INJECTION LINE GROUNDWATER DATA

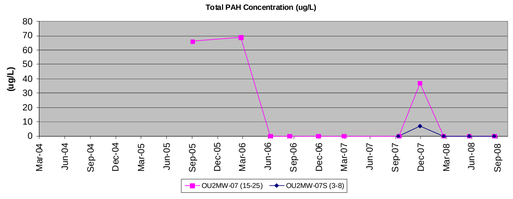
December 2008 — Figure 7

I:\GEI\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\OMM Graphs\ Bay Shore-Graphs Q-3 2008.dwg \Dec 22, 2008

OU2MW-07







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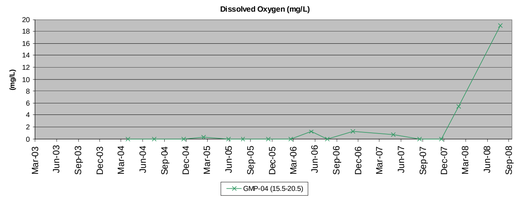

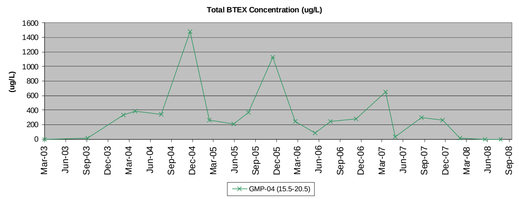

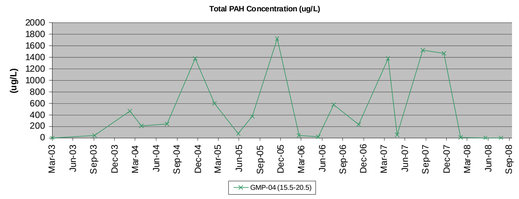

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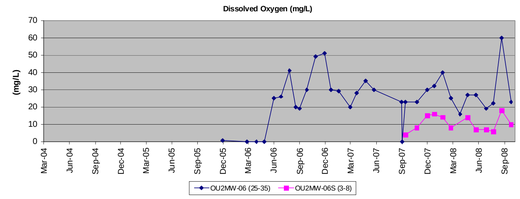

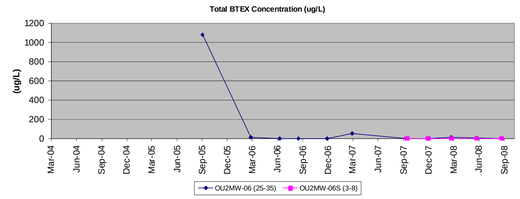

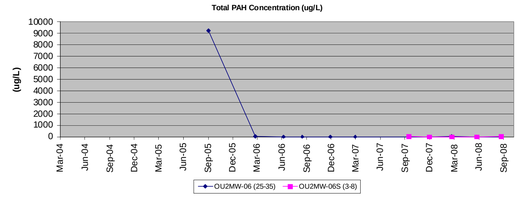

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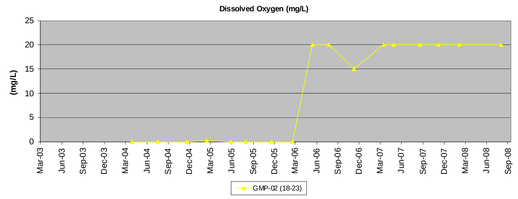

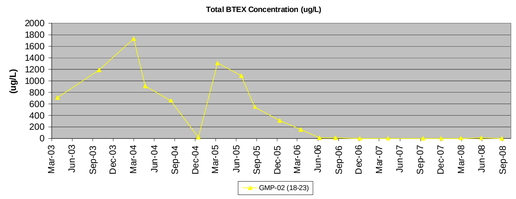

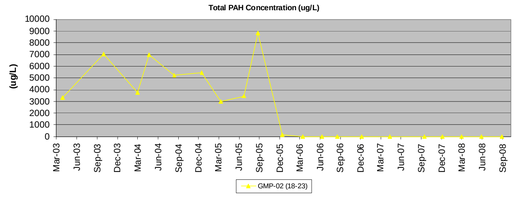

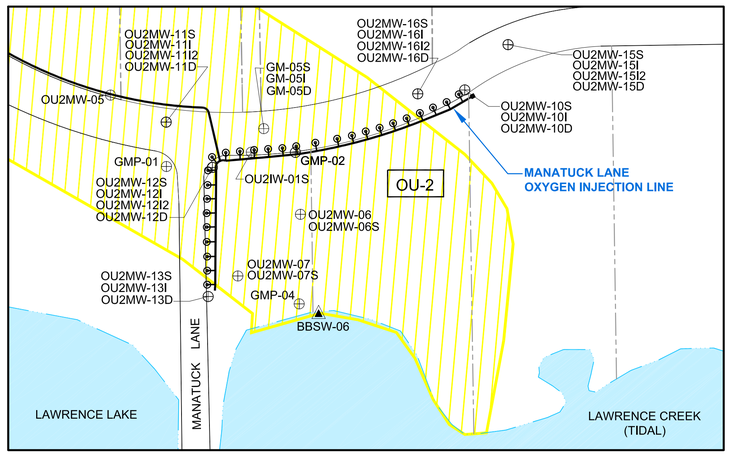

LEGEND:

⊕ S,I,I2,D	ACTIVE MONITORING WELL LOCATION SHALLOW, INTERMEDIATE, INTERMEDIATE 2, DEEP
▲ BBSW-06	SURFACE WATER GAUGING STATION LOCATION

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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4. PROPERTY BOUNDARY LOCATIONS WERE DETERMINED BY OTHERS USING AERIAL PHOTOGRAPHS AND TAX MAPS. PROPERTY BOUNDARIES ARE APPROXIMATE AND MONITORING WELLS LOCATED NEAR OR AT PROPERTY BOUNDARIES DEPICTED ON THE MAP ARE WITHIN THE ROAD RIGHT-OF-WAY.

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BAY SHORE, NEW YORK

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MANATUCK LANE
OXYGEN INJECTION LINE
GROUNDWATER DATA

December 2008 Figure 8

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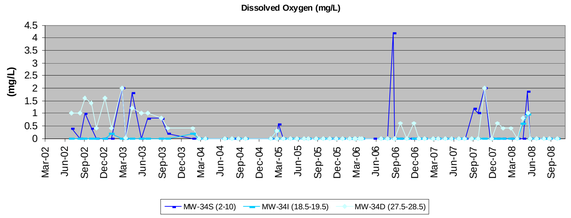
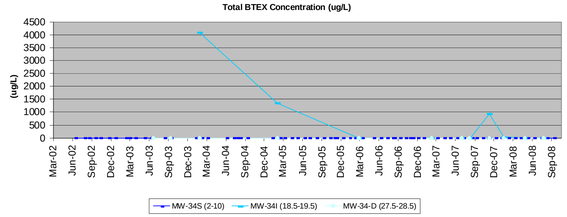
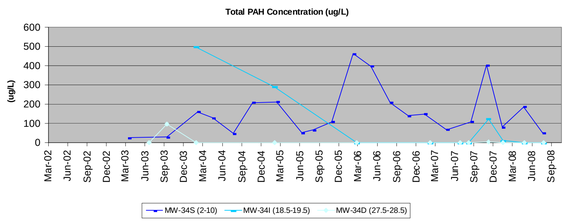
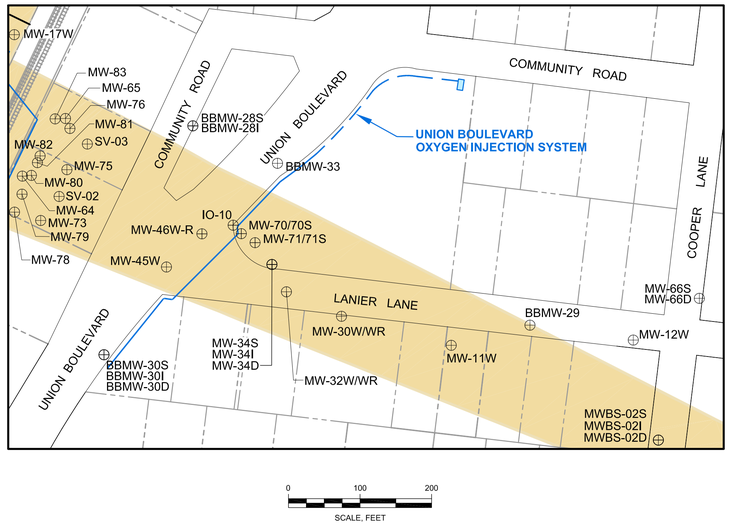
MW-34S, MW-34I, MW-34D





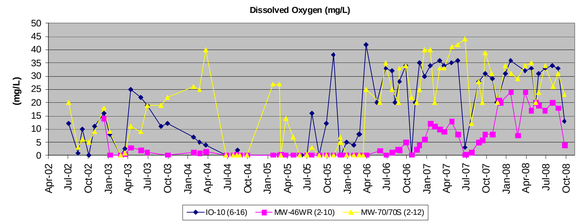


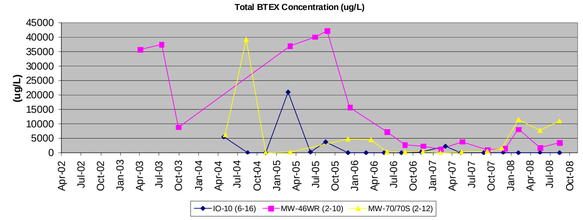


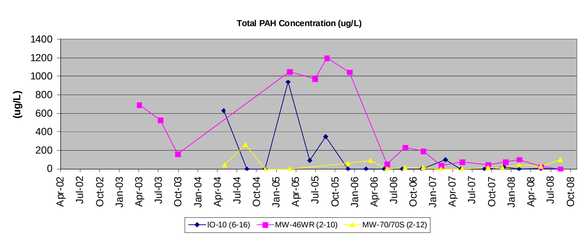
LEGEND:

⊕ OU2MW-01 S,I,I2,D	ACTIVE MONITORING WELL LOCATION USED SHALLOW, INTERMEDIATE, INTERMEDIATE 2, DEEP

IO-10, MW-46WR, MW-70/70S







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, NEW YORK

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UNION BOULEVARD
OXYGEN INJECTION SYSTEM
GROUNDWATER DATA

December 2008 Figure 9

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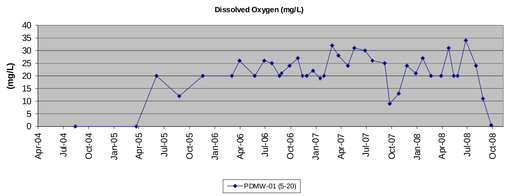
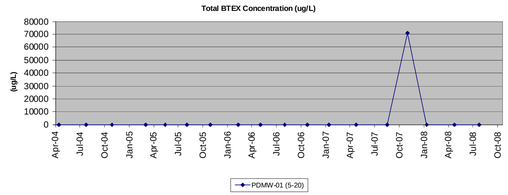
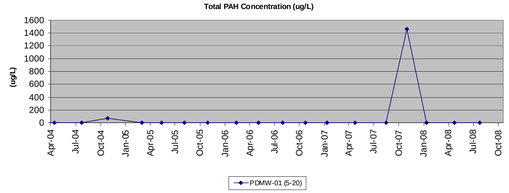
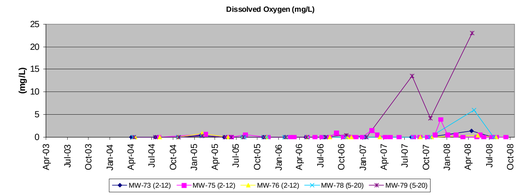
PDMW-01

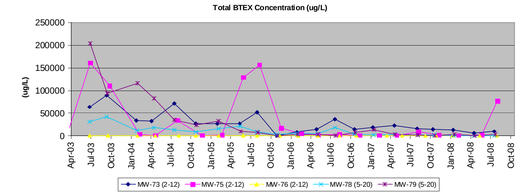


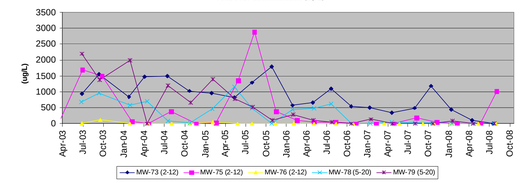




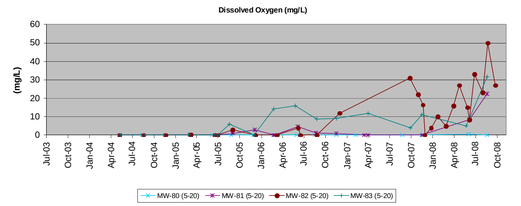
MW-73, MW-75, MW-76, MW-78, MW-79

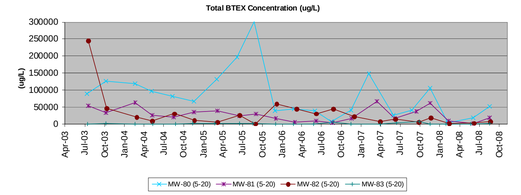


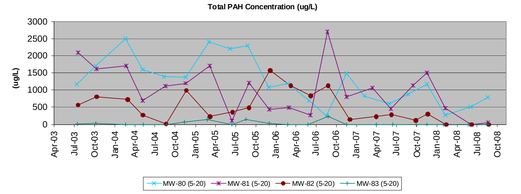




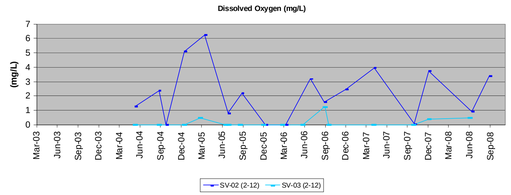
MW-80, MW-81, MW-82, MW-83

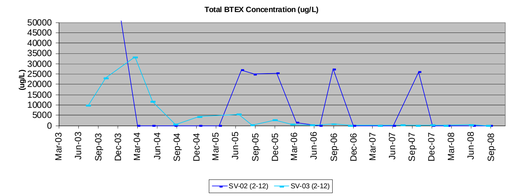


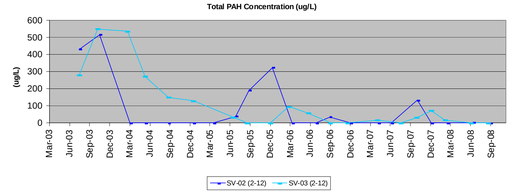


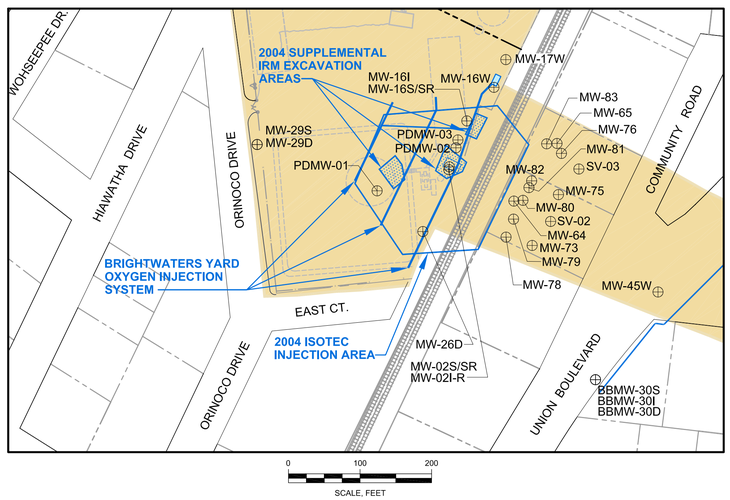


SV-02, SV-03





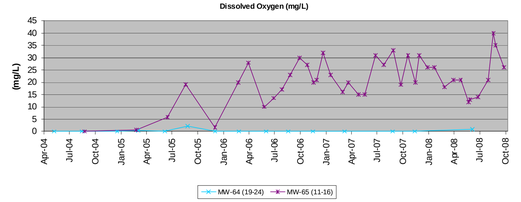


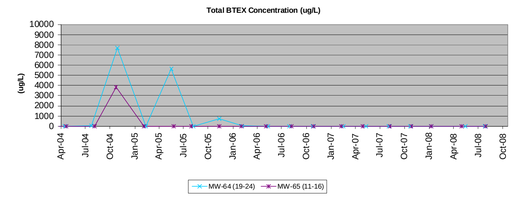


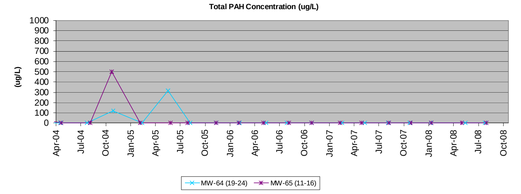
LEGEND:

⊕MW-83 S,I,I2,D	ACTIVE MONITORING WELL LOCATION USED SHALLOW, INTERMEDIATE, INTERMEDIATE 2, DEEP

MW-64, MW-65







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BRIGHTWATERS YARD OXYGEN INJECTION SYSTEM GROUNDWATER DATA

December 2008 — Figure 10

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Appendices A, B, C and D (electronic only)

Appendix A: OU-1 Oxygen Injection System OM&M Data

Appendix B: OU-2 Oxygen Injection System OM&M Data

Appendix C: OU-3 Oxygen Injection Systems OM&M Data

Appendix D: Soil Vapor Analytical Results

Appendix A
Table A-1
Operational Data
OU-1 South Oxygen Injection System
Operations, Maintenance and Monitoring Program
Bay Shore/Brightwaters Former MGP Site
Operational Unit No. 1 (OU-1)

Weight of Oxygen Injected through Q2 2007

514 lbs

	Operational Days		Oxygen Injected Per Month (Lbs)
Month 1	Jul-08	31	146
Month 2	Aug-08	31	146
Month 3	Sep-08	30	118
Total Operational Days In Q3 2008		92	
Total Oxygen in Q3 2008 (Lbs)			409.67
Running Total Through Q3 2008 (Lbs)			923.67

			7/28/2008						8/27/2008						10/1/2008					
			O2%					95						95						95
			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	41	26	36.272	72.543	17	31.7	0.384	30	41.852	83.704	17	31.7	0.443	30	41.852	83.704	17	31.7	0.443
	Point 4	26	28	31.944	63.888	6.5	21.2	0.226	25	28.522	57.043	6.5	21.2	0.202	25	28.856	57.712	7	21.7	0.209
	Point 5	41	26	34.211	68.422	13.5	28.2	0.322	30	39.122	78.245	13	27.7	0.362	30	39.474	78.948	13.5	28.2	0.372
	Point 8	26	28	31.944	63.888	6.5	21.2	0.226	25	28.522	57.043	6.5	21.2	0.202	24	27.702	55.403	7.0	21.7	0.201
	Point 9	41	28	36.842	73.685	13.5	28.2	0.347	30	39.122	78.245	13.0	27.7	0.362	30	39.474	78.948	13.5	28.2	0.372
	Point 12	26	28	32.319	64.637	7.0	21.7	0.234	25	28.522	57.043	6.5	21.2	0.202	24	28.019	56.038	7.5	22.2	0.208
	Point 13	41	28	37.168	74.335	14.0	28.7	0.356	30	39.474	78.948	13.5	28.2	0.372	28	37.168	74.335	14	28.7	0.356
	Point 16	26	26	30.354	60.708	7.5	22.2	0.225	25	28.856	57.712	7	21.7	0.209	24	27.702	55.403	7	21.7	0.201
Total Oxygen Injected per Day (LBS)			**2.322**						**2.355**						**2.362**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (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 2	26	26	30.010	60.020	7.0	21.7	0.218	25	28.856	57.712	7.0	21.7	0.209	19	22.056	44.113	7.3	21.95	0.162
	Point 3	41	26	36.272	72.543	17.0	31.7	0.384	30	41.852	83.704	17.0	31.7	0.443	20	27.901	55.803	17	31.7	0.296
	Point 6	26	26	30.010	60.020	7.0	21.7	0.218	25	28.856	57.712	7.0	21.7	0.209	19	22.056	44.113	7.25	21.95	0.162
	Point 7	41	26	34.211	68.422	13.5	28.2	0.322	30	39.122	78.245	13.0	27.7	0.362	18	23.684	47.369	13.5	28.2	0.223
	Point 10	26	28	32.689	65.378	7.5	22.2	0.242	25	28.856	57.712	7.0	21.7	0.209	17	19.847	39.694	7.5	22.2	0.147
	Point 11	41	30	39.474	78.948	13.5	28.2	0.372	30	39.122	78.245	13	27.7	0.362	15	19.737	39.474	13.5	28.2	0.186
	Point 14	26	28	32.689	65.378	7.5	22.2	0.242	25	28.856	57.712	7	21.7	0.209	19	22.182	44.363	7.5	22.2	0.165
	Point 15	41	30	39.822	79.645	14.0	28.7	0.382	30	39.122	78.245	13	27.7	0.362	17	22.566	45.132	14	28.7	0.216
Total Oxygen Injected per Day (LBS)			**2.380**						**2.366**						**1.556**					
System Total Per Day (LBS)			**4.70**						**4.72**						**3.92**					

* Injection points were intentionally turned off due to construction within the vicinity of the injection point.

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen
CV/D (V) = Volume of oxygen injected
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = Mass of Oxygen
Temperature = Degrees Rankine
R = Constant (0.73)

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 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 10AM

(Keep repeating cycle for coarse of day)

Appendix B
Table B-1
Operational Data
Garner Lane Oxygen Injection System
Operations, Maintenance, and Monitoring Program
Bay Shore/Brightwaters Former MGP Site
Operational Unit No. 2 (OU-2)

Weight of Oxygen Injected through Q2 2008: 7,167 lbs

	Operational Days		Oxygen Injected Per Month
Month 1	Jul-08	31	301
Month 2	Aug-08	31	315
Month 3	Sep-08	30	262

Total Operational Days In Q3 2008: 92
Total Oxygen in Q3 2008 (Lbs): 878.90
Running Total Through Q3 2008 (Lbs): 8,045.90

Notes:

SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen (Flow meters are calibrated for air)
CF/D (V) = Volume of oxygen injected per day
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = Mass of Oxygen
Temperature = Degrees Rankine
R = Constant (0.73)

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 at 7AM
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 1100PM
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 1216AM to 100PM
(Keep repeating cycle for coarse of day)

			7/24/2008						8/26/2008						9/30/2008					
		O2%	95						95						95					
		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	24	28.950	30.880	9	23.7	0.122	24	28.950	30.880	9	23.7	0.122	23	28.323	30.211	10	24.7	0.125
	Point 2	25	24	28.333	30.222	8	22.7	0.115	26	30.354	32.378	7.5	22.2	0.120	24	28.333	30.222	8	22.7	0.115
	Point 3	25	25	29.186	31.132	7.5	22.2	0.115	26	30.354	32.378	7.5	22.2	0.120	25	29.513	31.481	8	22.7	0.119
	Point 4	25	24	27.702	29.548	7	21.7	0.107	25	28.856	30.780	7	21.7	0.112	24	28.333	30.222	8	22.7	0.115
	Point 5	25	24	27.702	29.548	7	21.7	0.107	25	28.856	30.780	7	21.7	0.112	22	25.972	27.703	8	22.7	0.105
	Point 6	25	24	28.333	30.222	8	22.7	0.115	26	30.694	32.740	8	22.7	0.124	24	28.643	30.553	8.5	23.2	0.118
	Point 7	25	24	27.702	29.548	7	21.7	0.107	24	27.702	29.548	7	21.7	0.107	24	28.019	29.887	7.5	22.2	0.111
	Point 8	25	24	28.019	29.887	7.5	22.2	0.111	27	31.164	33.242	7	21.7	0.121	24	28.333	30.222	8	22.7	0.115
	Point 9	50	28	40.275	42.960	19	33.7	0.242	30	43.152	46.029	19	33.7	0.259	30	43.471	46.369	19.5	34.2	0.265
	Point 10	25	25	28.856	30.780	7	21.7	0.112	25	28.856	30.780	7	21.7	0.112	22	25.972	27.703	8	22.7	0.105
Total Oxygen Injected per Day (LBS)			**1.253**						**1.308**						**1.292**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (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	20	23.085	24.624	7	21.7	0.089	22	25.684	27.396	7.5	22.2	0.102	20	23.611	25.185	8	22.7	0.096
	Point 12	50	30	43.152	46.029	19	33.7	0.259	32	46.029	49.097	19	33.7	0.276	26	37.675	40.186	19.5	34.2	0.230
	Point 13	25	20	23.085	24.624	7	21.7	0.089	22	25.393	27.086	7	21.7	0.098	20	23.611	25.185	8	22.7	0.096
	Point 14	68	25	40.001	42.668	27	41.7	0.297	32	51.202	54.615	27	41.7	0.380	28	44.801	47.788	27	41.7	0.333
	Point 15	25	20	23.611	25.185	8	22.7	0.096	24	28.333	30.222	8	22.7	0.115	20	23.611	25.185	8	22.7	0.096
	Point 16	50	20	28.768	30.686	19	33.7	0.173	24	34.522	36.823	19	33.7	0.207	25	35.960	38.357	19	33.7	0.216
	Point 17	25	20	23.611	25.185	8	22.7	0.096	24	28.019	29.887	7.5	22.2	0.111	20	23.611	25.185	8	22.7	0.096
	Point 18	66	28	45.335	48.358	28	42.7	0.345	40	66.264	70.682	30	44.7	0.528	30	49.698	53.011	30	44.7	0.396
	Point 19	25	20	23.085	24.624	7	21.7	0.089	24	27.702	29.548	7	21.7	0.107	20	23.611	25.185	8	22.7	0.096
	Point 20	50	25	35.960	38.357	19	33.7	0.216	30	43.152	46.029	19	33.7	0.259	25	35.960	38.357	19	33.7	0.216
Total Oxygen Injected per Day (LBS)			**1.749**						**2.183**						**1.868**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
MID PLUME Injection Bank 3	Point 21	27	30	35.416	37.777	8	22.7	0.143	28	33.055	35.259	8	22.7	0.134	24	28.643	30.553	8.5	23.2	0.118
	Point 22	65.5	22	36.035	38.438	29	43.7	0.281	32	51.202	54.615	27	41.7	0.380	20	32.946	35.143	29.5	44.2	0.259
	Point 23	25	24	28.019	29.887	7.5	22.2	0.111	26	30.354	32.378	7.5	22.2	0.120	22	25.972	27.703	8	22.7	0.105
	Point 24	50	28	40.275	42.960	19	33.7	0.242	30	43.152	46.029	19	33.7	0.259	25	35.960	38.357	19	33.7	0.216
	Point 25	25	22	25.972	27.703	8	22.7	0.105	24	27.702	29.548	7	21.7	0.107	21	24.791	26.444	8	22.7	0.100
	Point 26	25	28	32.689	34.868	7.5	22.2	0.129	30	34.627	36.936	7	21.7	0.134	25	29.186	31.132	7.5	22.2	0.115
	Point 27	25	25	28.856	30.780	7	21.7	0.112	28	32.319	34.473	7	21.7	0.125	24	27.702	29.548	7	21.7	0.107
	Point 28	25	22	25.393	27.086	7	21.7	0.098	26	30.010	32.011	7	21.7	0.116	22	25.684	27.396	7.5	22.2	0.102
	Point 29	25	24	28.333	30.222	8	22.7	0.115	28	32.319	34.473	7	21.7	0.125	22	25.972	27.703	8	22.7	0.105
	Point 30	25	26	30.010	32.011	7	21.7	0.116	25	28.856	30.780	7	21.7	0.112	20	23.085	24.624	7	21.7	0.089
Total Oxygen Injected per Day (LBS)			**1.451**						**1.612**						**1.318**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
TAIL PLUME Injection Bank 4	Point 1	25	30	36.188	38.600	9	23.7	0.153	30	36.188	38.600	9	23.7	0.153	26	32.017	34.152	10	24.7	0.141
	Point 2	27	30	36.567	39.005	9.5	24.2	0.158	30	36.943	39.406	10	24.7	0.163	26	32.340	34.496	10.5	25.2	0.145
	Point 3	30	30	38.410	40.970	12	26.7	0.183	30	38.410	40.970	12	26.7	0.183	25	32.008	34.142	12	26.7	0.152
	Point 4	35	30	39.822	42.477	14	28.7	0.204	30	38.410	40.970	12	26.7	0.183	25	32.895	35.088	13.5	28.2	0.165
	Point 5	35	30	39.822	42.477	14	28.7	0.204	30	38.048	40.585	11.5	26.2	0.178	24	31.298	33.384	13	27.7	0.154
	Point 6	40	30	41.187	43.932	16	30.7	0.225	32	43.932	46.861	16	30.7	0.240	25	34.600	36.907	16.5	31.2	0.192
	Point 7	45	32	46.029	49.097	19	33.7	0.276	30	42.507	45.341	18	32.7	0.248	24	34.522	36.823	19	33.7	0.207
	Point 8	45	32	46.029	49.097	19	33.7	0.276	30	42.507	45.341	18	32.7	0.248	23	32.589	34.761	18	32.7	0.190
	Point 9	45	33	47.467	50.632	19	33.7	0.285	30	42.507	45.341	18	32.7	0.248	24	34.006	36.273	18	32.7	0.198
	Point 10	45	32	46.029	49.097	19	33.7	0.276	30	42.507	45.341	18	32.7	0.248	23	33.083	35.289	19	33.7	0.199
Total Oxygen Injected per Day (LBS)			**2.240**						**2.090**						**1.745**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (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	33.7	0.259	30	43.152	46.029	19	33.7	0.259	28	38.441	41.003	16	30.7	0.210
	Point 12	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Point 13	45	30	43.152	46.029	19	33.7	0.259	30	43.152	46.029	19	33.7	0.259	29	41.714	44.495	19	33.7	0.250
	Point 14	40	30	41.187	43.932	16	30.7	0.225	30	41.187	43.932	16	30.7	0.225	26	35.985	38.383	16.5	31.2	0.200
	Point 15	35	30	39.822	42.477	14	28.7	0.204	30	39.822	42.477	14	28.7	0.204	27	35.840	38.229	14	28.7	0.183
	Point 16	35	30	40.510	43.211	15	29.7	0.214	30	40.510	43.211	15	29.7	0.214	29	39.814	42.468	16	30.7	0.218
	Point 17	35	33	43.805	46.725	14	28.7	0.224	30	39.822	42.477	14	28.7	0.204	29	37.129	39.605	12	26.7	0.177
	Point 18	35	33	43.805	46.725	14	28.7	0.224	30	39.822	42.477	14	28.7	0.204	27	35.527	37.895	13.5	28.2	0.179
	Point 19	35	30	39.822	42.477	14	28.7	0.204	32	42.477	45.309	14	28.7	0.217	28	37.168	39.645	14	28.7	0.190
	Point 20	30	30	38.410	40.970	12	26.7	0.183	30	37.684	40.196	11	25.7	0.173	25	31.403	33.497	11	25.7	0.144
Total Oxygen Injected per Day (LBS)			**1.996**						**1.959**						**1.751**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (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	30	38.410	40.970	12	26.7	0.183	28	35.171	37.516	11	25.7	0.161	21	26.379	28.137	11	25.7	0.121
	Point 23	30	30	38.410	40.970	12	26.7	0.183	30	37.684	40.196	11	25.7	0.173	21	26.379	28.137	11	25.7	0.121
	Point 24	25	30	35.416	37.777	8	22.7	0.143	30	35.416	37.777	8	22.7	0.143	22	26.538	28.307	9	23.7	0.112
	Point 25	25	30	39.822	42.477	14	28.7	0.204	30	41.852	44.642	17	31.7	0.236	22	31.172	33.250	18	32.7	0.182
	Point 26	25	30	36.943	39.406	10	24.7	0.163	30	36.188	38.600	9	23.7	0.153	22	27.092	28.898	10	24.7	0.119
	Point 27	25	30	36.188	38.600	9	23.7	0.153	30	36.188	38.600	9	23.7	0.153	22	27.092	28.898	10	24.7	0.119
	Point 27A	26	30	37.684	40.196	11	25.7	0.173	30	37.684	40.196	11	25.7	0.173	20	25.122	26.797	11	25.7	0.115
	Point 27B	35	28	37.168	39.645	14	28.7	0.190	30	39.822	42.477	14	28.7	0.204	20	26.548	28.318	14	28.7	0.136
	Point 27C	35	24	32.408	34.569	15	29.7	0.172	30	39.822	42.477	14	28.7	0.204	18	24.306	25.927	15	29.7	0.129
Total Oxygen Injected per Day (LBS)			**1.028**						**1.019**						**0.774**					
System Total Per Day (LBS)			**9.72**						**10.17**						**8.75**					

Appendix C
Table C-1
Operational Data
Union Boulevard Oxygen Injection System
Operations, Maintenance and Monitoring Program
Bay Shore/Brightwaters Former MGP Site
Operational Unit No. 3 (OU-3)

Weight of Oxygen Injected through Q2 2008

3,352 lbs

	Operational Days		Oxygen Injected Per Month (Lbs)
Month 1	Jul-08	31	125
Month 2	Aug-08	31	130
Month 3	Sep-08	19	79
Total Operational Days In Q3 2008			81
Total Oxygen in Q3 2008 (Lbs)			333.50
Running Total Through Q3 2008 (Lbs)			3,685.50

			7/9/2008						7/28/2008						10/3/2008					
	O2%		95						95						95					
	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	-	34	37.863	75.727	5.5	20.2	0.256	32	35.636	71.272	5.5	20.2	0.241	31	34.947	69.894	6	20.7	0.242
	Point 2	-	34	37.863	75.727	5.5	20.2	0.256	32	36.074	72.149	6.0	20.7	0.249	31	34.947	69.894	6	20.7	0.242
	Point 3	-	34	37.863	75.727	5.5	20.2	0.256	34	38.329	76.658	6.0	20.7	0.265	31	34.947	69.894	6	20.7	0.242
	Point 4	-	38	42.838	85.677	6.0	20.7	0.296	36	40.584	81.168	6.0	20.7	0.281	31	34.947	69.894	6.0	20.7	0.242
	Point 5	-	38	42.318	84.636	5.5	20.2	0.286	34	37.863	75.727	5.5	20.2	0.256	32	35.636	71.272	5.5	20.2	0.241
	Point 6	-	36	40.584	81.168	6.0	20.7	0.281	36	40.584	81.168	6.0	20.7	0.281	31	35.158	70.315	6.3	20.95	0.246
	Point 7	-	34	38.789	77.579	6.5	21.2	0.275	36	41.071	82.142	6.5	21.2	0.291	38	43.353	86.705	6.5	21.2	0.307
	Point 8	-	30	34.226	68.452	6.5	21.2	0.242	30	34.627	69.254	7.0	21.7	0.251	44	50.786	101.573	7	21.7	0.368
Total Oxygen Injected per Day (LBS)			**2.146**						**2.114**						**2.129**					
		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 2	Point 9	-	30	33.820	67.640	6.0	20.7	0.234	34	38.329	76.658	6.0	20.7	0.265	33	37.202	74.404	6.0	20.7	0.257
	Point 10	-	32	36.074	72.149	6.0	20.7	0.249	36	41.071	82.142	6.5	21.2	0.291	32	36.508	73.015	6.5	21.2	0.259
	Point 11	-	32	35.636	71.272	5.5	20.2	0.241	34	37.863	75.727	5.5	20.2	0.256	33	36.750	73.500	5.5	20.2	0.248
	Point 12	-	32	36.074	72.149	6.0	20.7	0.249	36	40.584	81.168	6.0	20.7	0.281	32	36.074	72.149	6.0	20.7	0.249
	Point 13	-	34	37.863	75.727	5.5	20.2	0.256	36	40.091	80.181	5.5	20.2	0.271	34	37.863	75.727	5.5	20.2	0.256
	Point 14	-	30	32.993	65.986	5.0	19.7	0.217	32	35.636	71.272	5.5	20.2	0.241	33	37.202	74.404	6.0	20.7	0.257
	Point 15	-	30	32.993	65.986	5.0	19.7	0.217	32	35.636	71.272	5.5	20.2	0.241	32	35.636	71.272	5.5	20.2	0.241
	Point 16	-	30	32.993	65.986	5.0	19.7	0.217	33	36.292	72.584	5.0	19.7	0.239	32	35.636	71.272	5.5	20.2	0.241
Total Oxygen Injected per Day (LBS)			**1.880**						**2.083**						**2.007**					
System Total Per Day (LBS)			**4.03**						**4.20**						**4.14**					

Notes:
SCFH (M) = Measured flow rate
SCFH (C*) = Flow rate converted for oxygen
CV/D (V) = Volume of oxygen injected
PSI (M) = Measured pressure
PSIa (P) = Pressure converted to atmospheric pressure.
n = PV/RT = Mass of Oxygen
Temperature = Degrees Rankine
R = Constant (0.73)

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 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 10AM

(Keep repeating cycle for coarse of day)

Appendix C
Table C-2
Operational Data
Brightwaters Oxygen Injection System
Operations, Maintenance, and Monitoring Program
Bay Shore/Brightwaters Former MGP Site
Operational Unit No. 3 (OU-3)

Weight of Oxygen Injected through Q2 2008 5,816 lbs

	Operational Days		Oxygen Injected Per Month (Lbs)
Month 1	Jul-08	24	129
Month 2	Aug-08	0	0
Month 3	Sep-08	0	0
Total Operational Days In Q3 2008		24	
Total Oxygen in Q3 2008 (Lbs)			129.16
Running Total Through Q3 2008 (Lbs)			5,945.16

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 = Mass of Oxygen
Temperature = Degrees Rankine
R = Constant (0.73)
NA* - System Not Operational

System Operating Specs
Total of 4 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 at 7AM
Bank 1 finishes injection at 716AM
System is recharging 716AM to 830AM

Bank 2 starts injection at 830AM
Bank 2 finishes injection at 846AM
System is recharging 846AM to 1000AM
Bank 3 starts injection at 1000AM
Bank 3 finishes injection at 1016AM
System is recharging from 1016AM to 1130AM
Bank 4 starts injection at 1130AM

Bank 4 Finishes injection at 1146AM

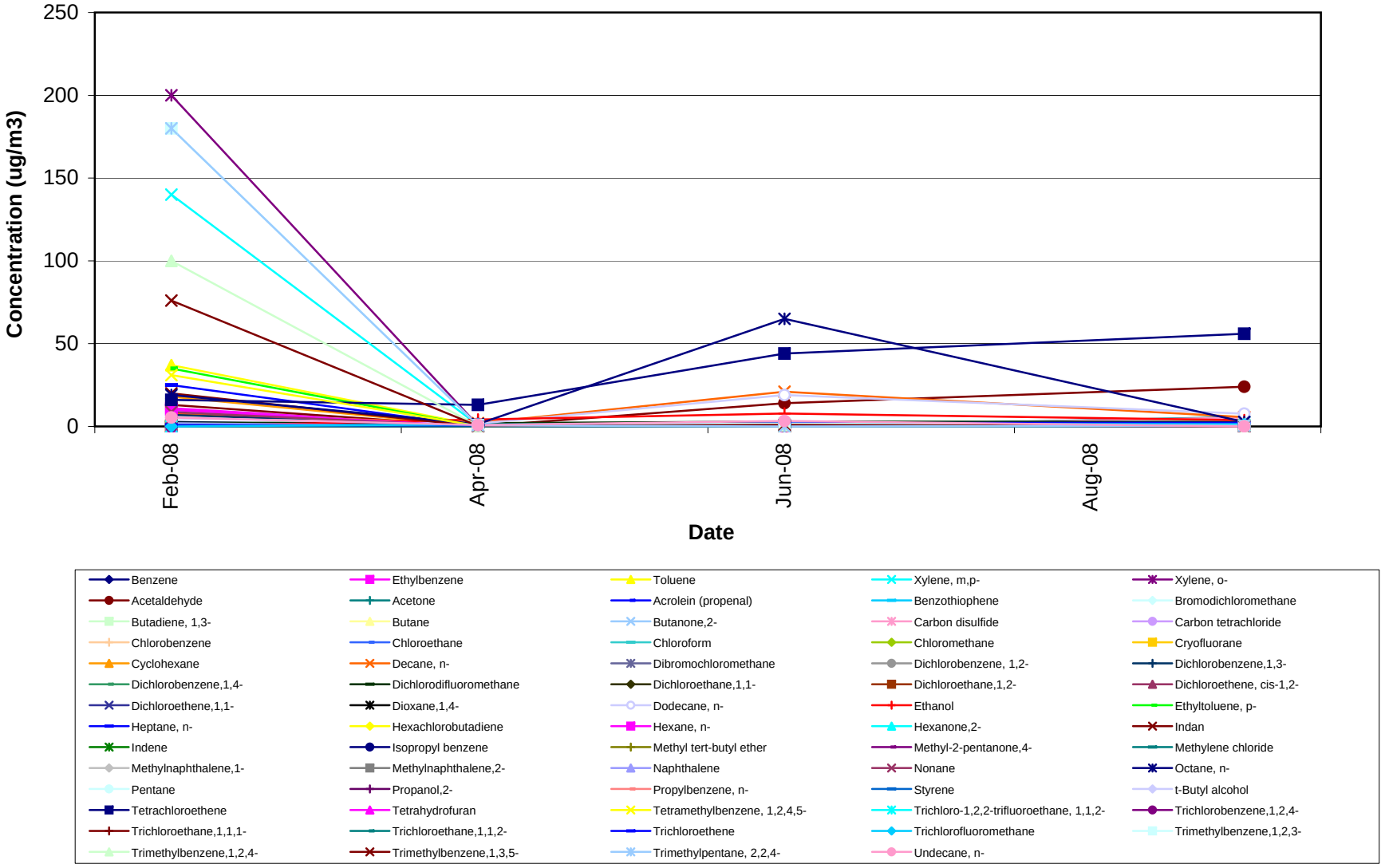
System is recharging from 1146AM to 100PM

(Keep repeating cycle for coarse of day)

			7/2/2008						NA*						NA*					
		O2%	95						95						95					
		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	-	36	39.591	42.231	5.0	19.7	0.139		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 2	-	40	43.429	46.324	4.5	19.2	0.149		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 3	-	40	43.429	46.324	4.5	19.2	0.149		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 4	-	40	44.545	47.515	5.5	20.2	0.160		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 5	-	40	42.859	45.717	4.0	18.7	0.143		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 6	-	38	41.257	44.008	4.5	19.2	0.141		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 7	-	40	44.545	47.515	5.5	20.2	0.160		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 8	-	36	41.553	44.323	7.0	21.7	0.161		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 9	-	36	41.553	44.323	7.0	21.7	0.161		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 10	-	36	40.091	42.763	5.5	20.2	0.144		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
Total Oxygen Injected per Day (LBS)			**1.506**						**0.000**						**0.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 2	Point 11	-	32	37.359	39.849	7.5	22.2	0.148		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 12	-	30	32.571	34.743	4.5	19.2	0.111		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 13	-	32	35.636	38.012	5.5	20.2	0.128		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 14	-	34	37.392	39.885	5.0	19.7	0.131		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 15	-	36	41.071	43.809	6.5	21.2	0.155		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 16	-	34	39.244	41.860	7.0	21.7	0.152		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 17	-	32	36.508	38.941	6.5	21.2	0.138		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 18	-	31	34.947	37.277	6.0	20.7	0.129		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 19	-	32	36.936	39.398	7.0	21.7	0.143		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 20	-	34	38.329	40.884	6.0	20.7	0.141		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
Total Oxygen Injected per Day (LBS)			**1.377**						**0.000**						**0.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 3	Point 21	-	40	45.634	48.677	6.5	21.2	0.172		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 22	-	40	45.634	48.677	6.5	21.2	0.172		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 23	-	40	45.093	48.099	6.0	20.7	0.166		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 24	-	42	47.348	50.504	6.0	20.7	0.175		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 25	-	38	42.838	45.694	6.0	20.7	0.158		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 26	-	40	45.093	48.099	6.0	20.7	0.166		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 27	-	40	43.990	46.923	5.0	19.7	0.154		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 28	-	38	41.791	44.577	5.0	19.7	0.147		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 29	-	40	44.545	47.515	5.5	20.2	0.160		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 30	-	40	44.545	47.515	5.5	20.2	0.160		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
Total Oxygen Injected per Day (LBS)			**1.632**						**0.000**						**0.000**					
		Depth	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2
Injection Bank 4	Point 31	-	40	45.093	48.099	6.0	20.7	0.166		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 32	-	40	43.990	46.923	5.0	19.7	0.154		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 10A	-	42	49.582	52.888	8.0	22.7	0.201		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 11A	-	40	47.221	50.369	8.0	22.7	0.191		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
	Point 11B	-	40	43.990	46.923	5.0	19.7	0.154		0.000	0.000		14.7	0.000		0.000	0.000		14.7	0.000
Total Oxygen Injected per Day (LBS)			**0.867**						**0.000**						**0.000**					
System Total Per Day (LBS)			**5.38**						**0.00**						**0.00**					

Appendix D
Soil Vapor Analytical Results
Operable Unit No. 1
Bay Shore/Brightwaters Former MGP Site

OU1SG06



Appendix D
Soil Vapor Analytical Results
Operable Unit No.1
Bay Shore/Brightwaters Former MGP Site

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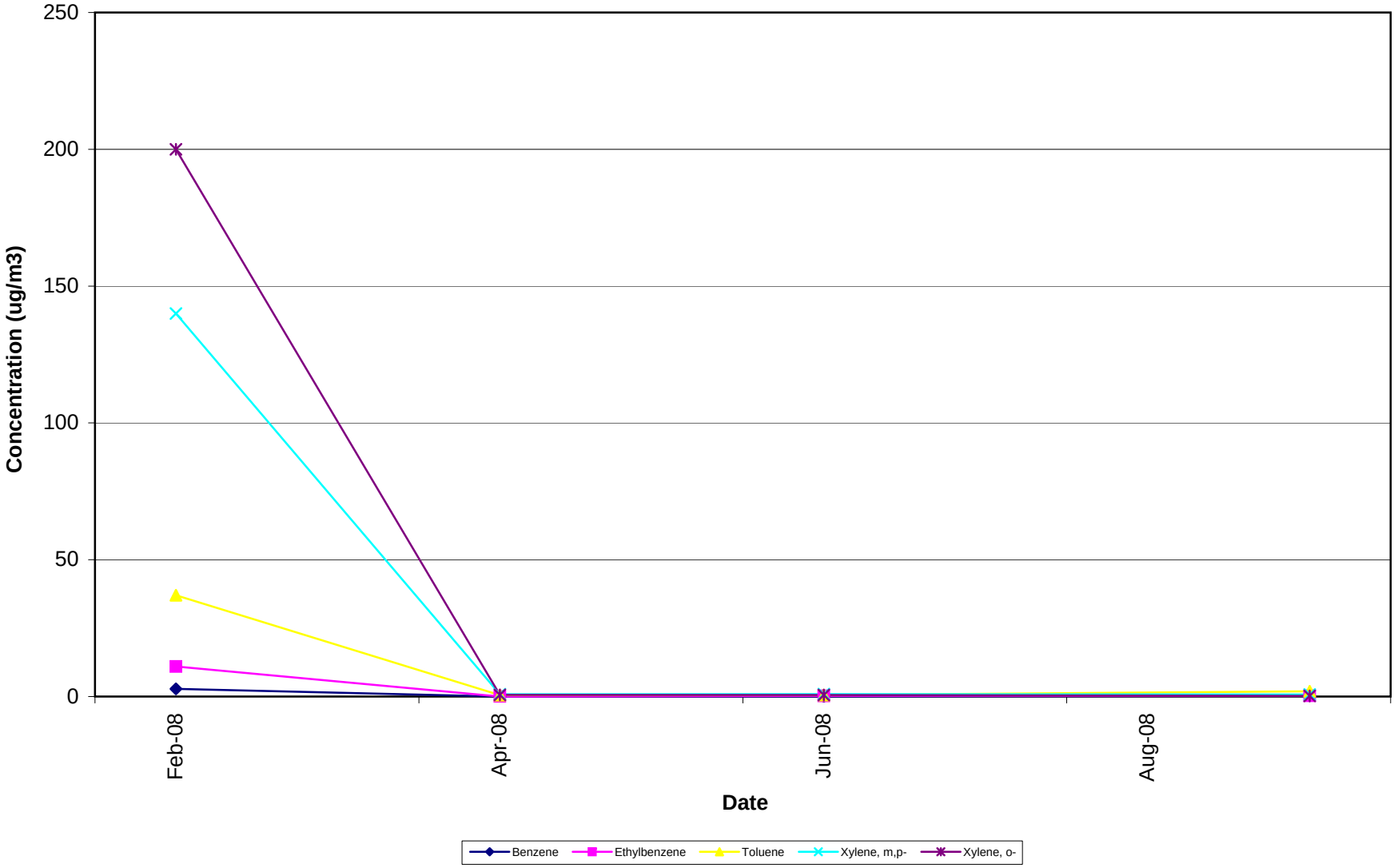
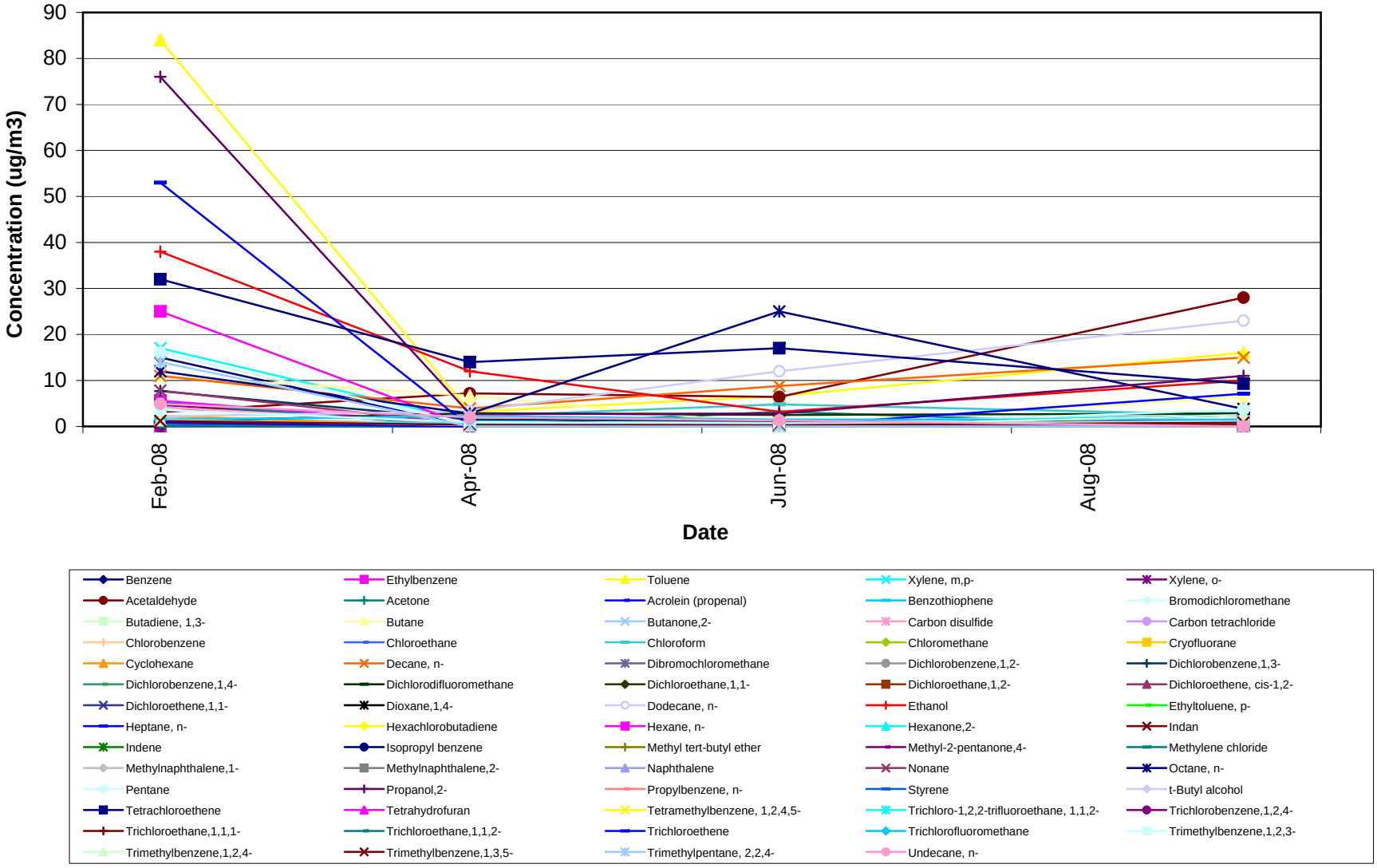


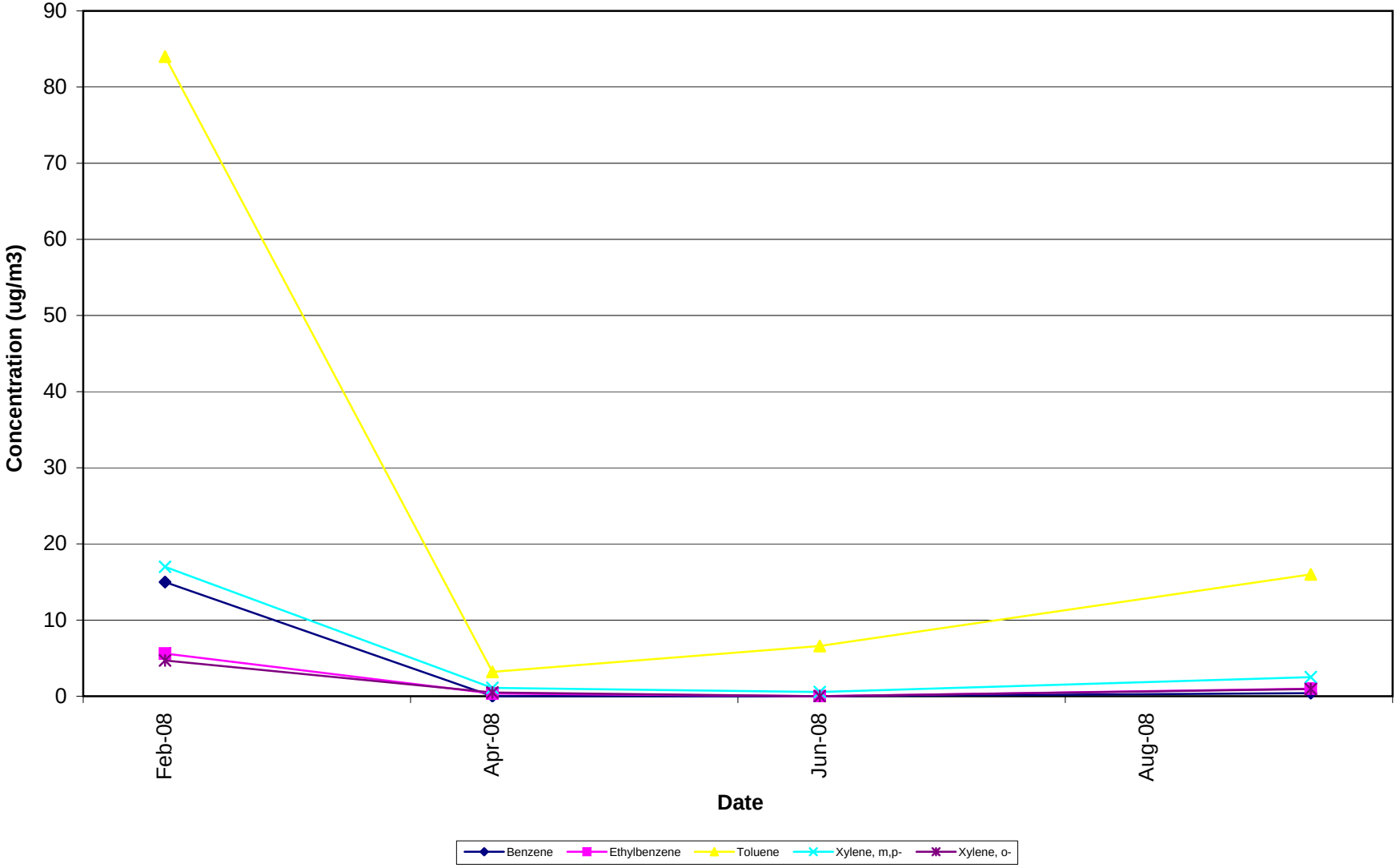
Appendix D
Soil Vapor Analytical Results
Operable Unit No.1
Bay Shore/Brightwaters Former MGP Site

OU1SG07



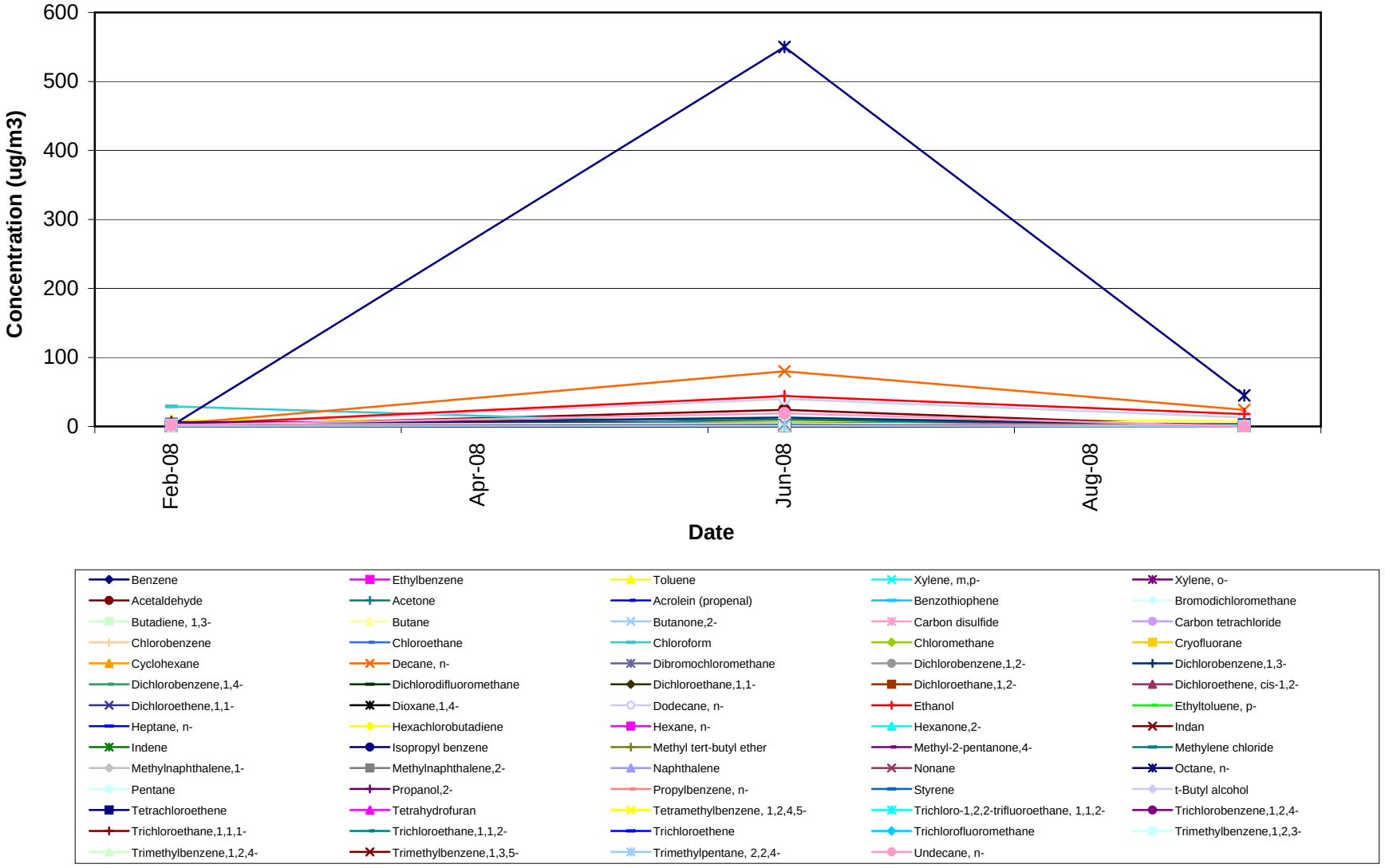
Appendix D
Soil Vapor Analytical Results
Operable Unit No.1
Bay Shore/Brightwaters Former MGP Site

OU1SG07 BTEX



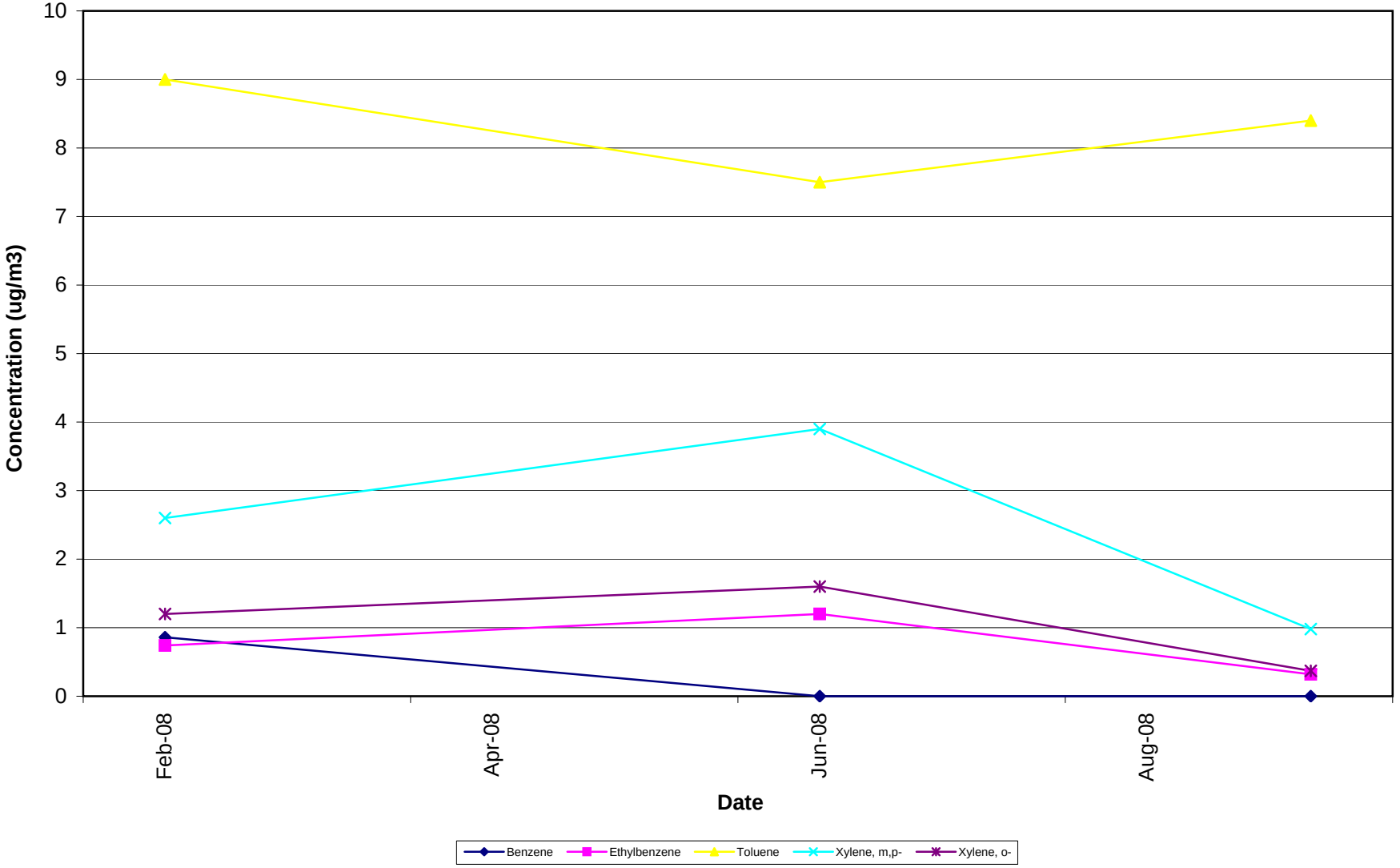
Appendix D
Soil Vapor Analytical Results
Operable Unit No.1
Bay Shore/Brightwaters Former MGP Site

OU1SG08



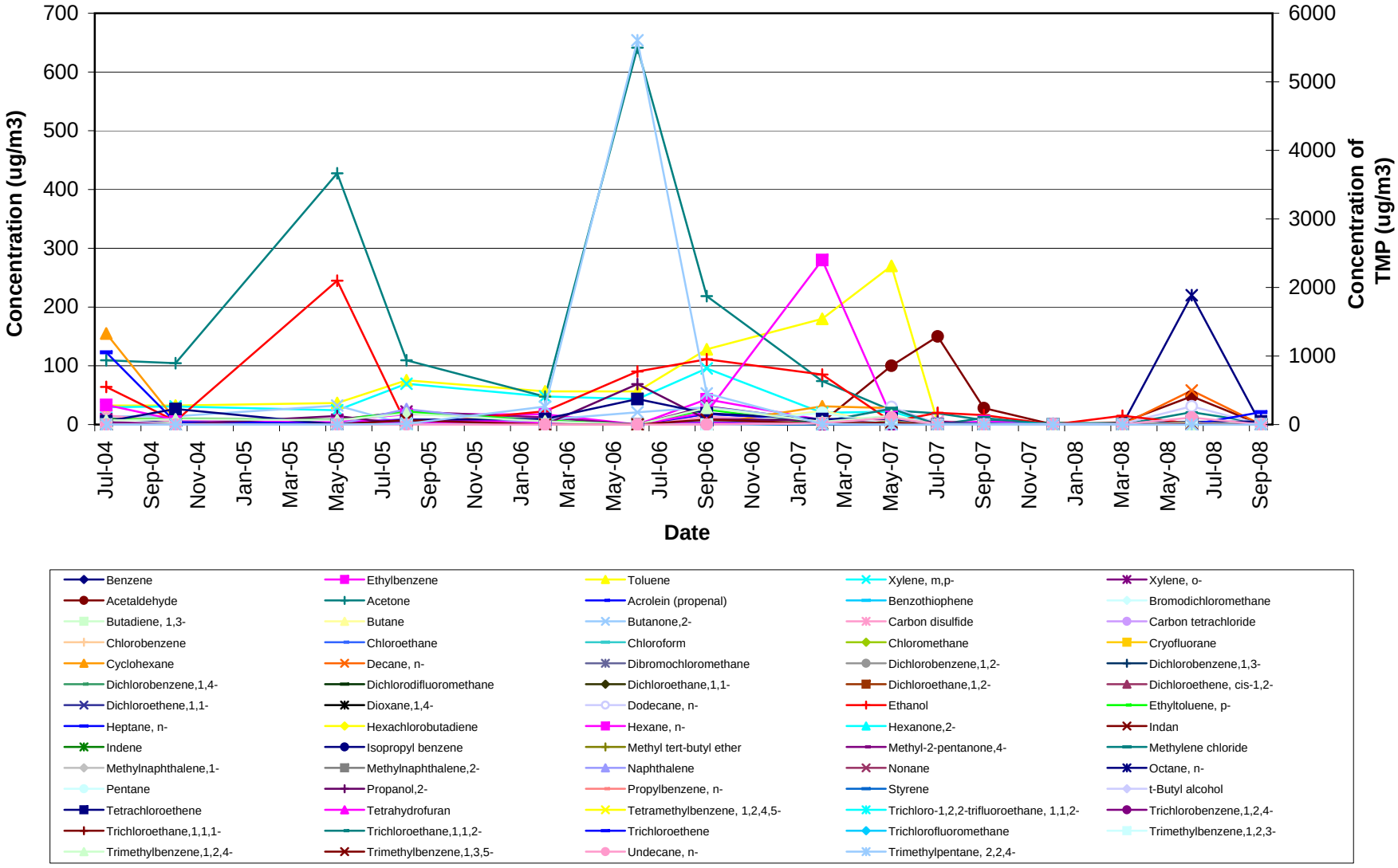
Appendix D
Soil Vapor Analytical Results
Operable Unit No.1
Bay Shore/Brightwaters Former MGP Site

OU1SG08 BTEX



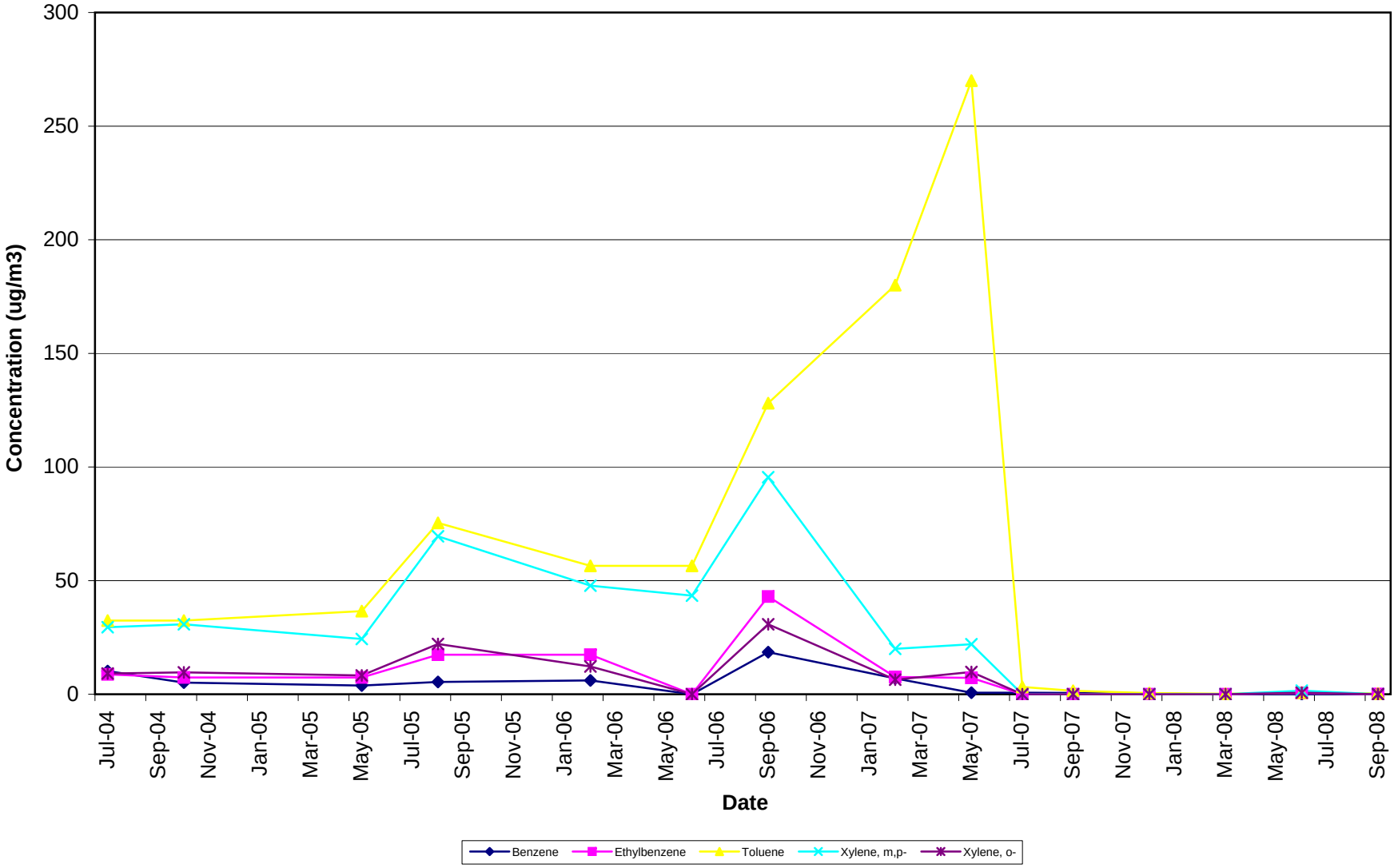
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG01



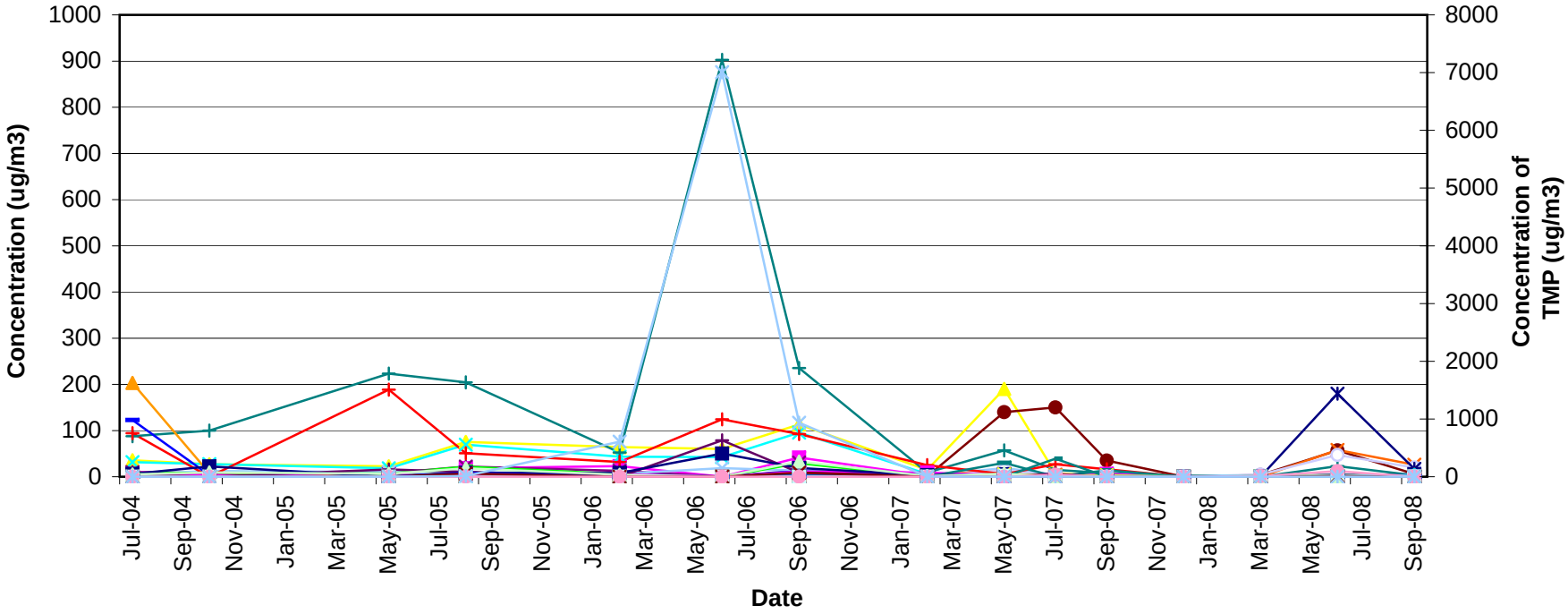
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

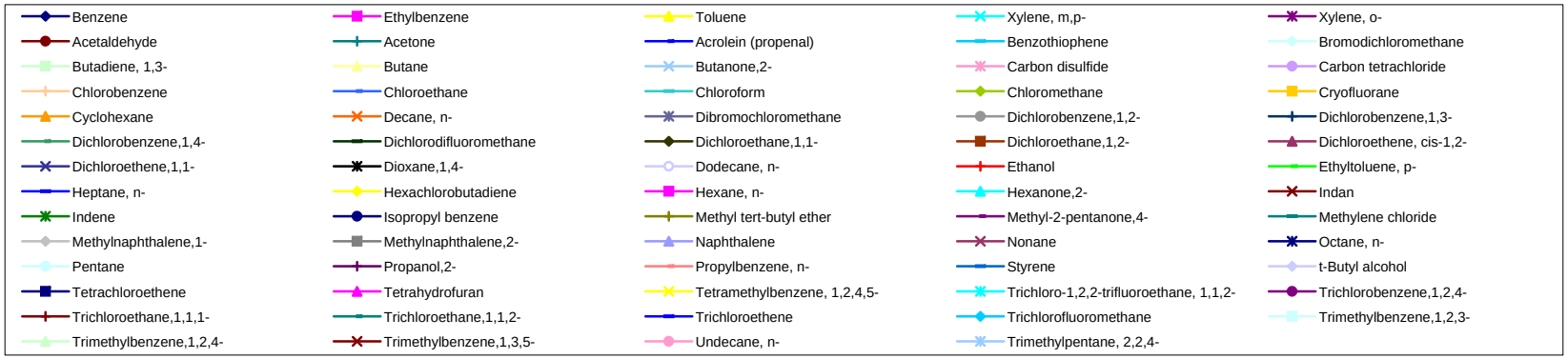
OU2SG01 BTEX



Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

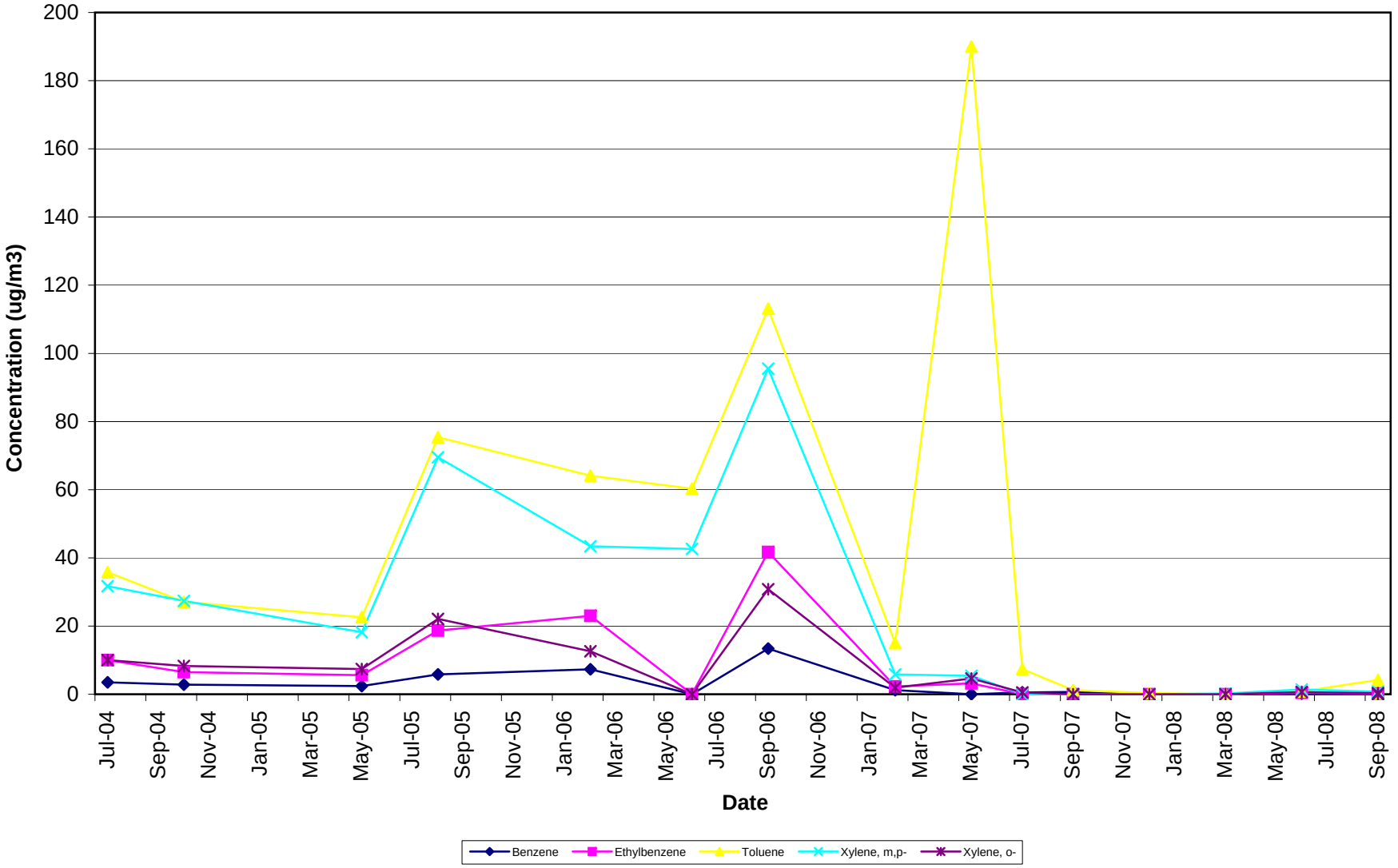
OU2SG02





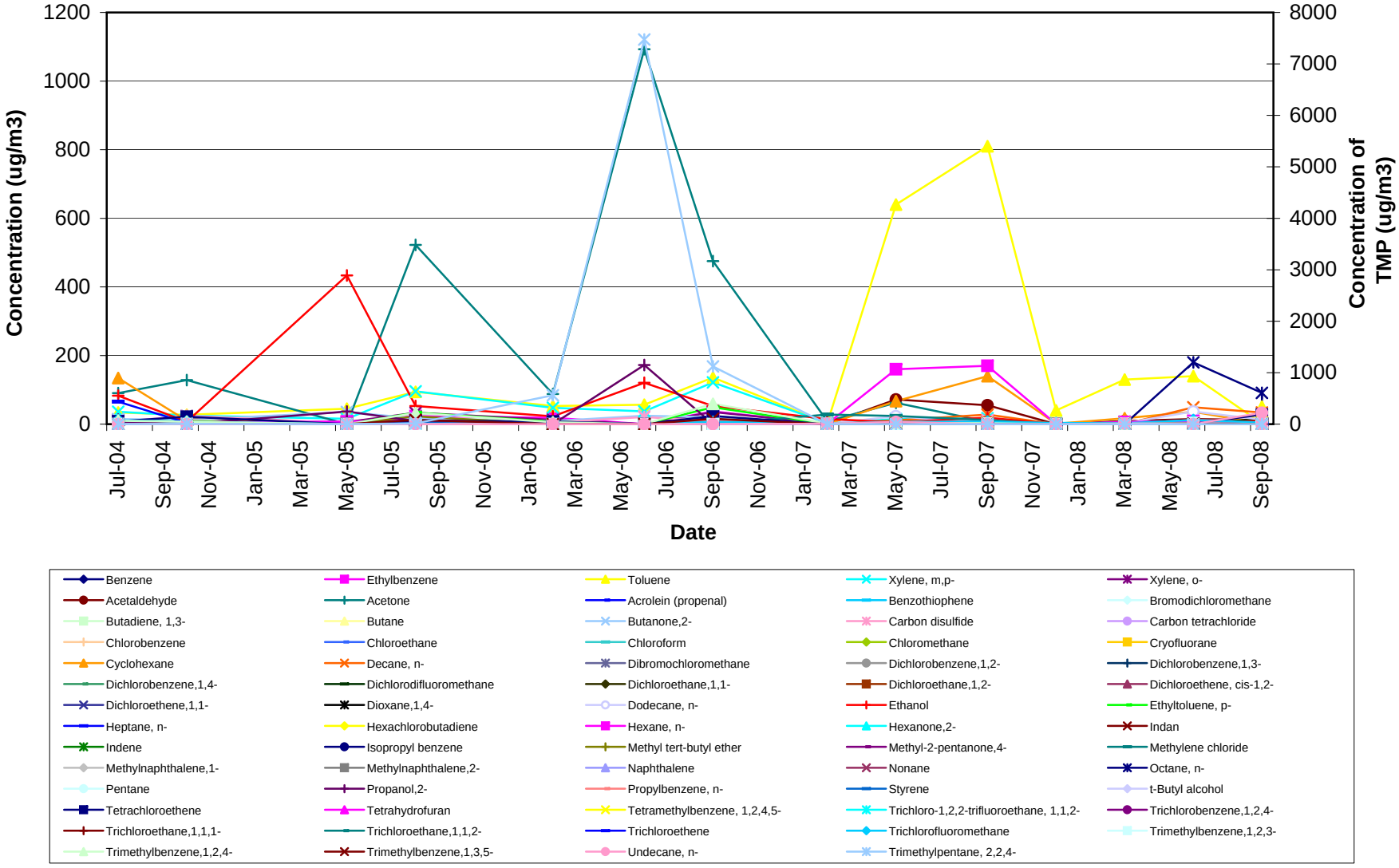
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG02 BTEX



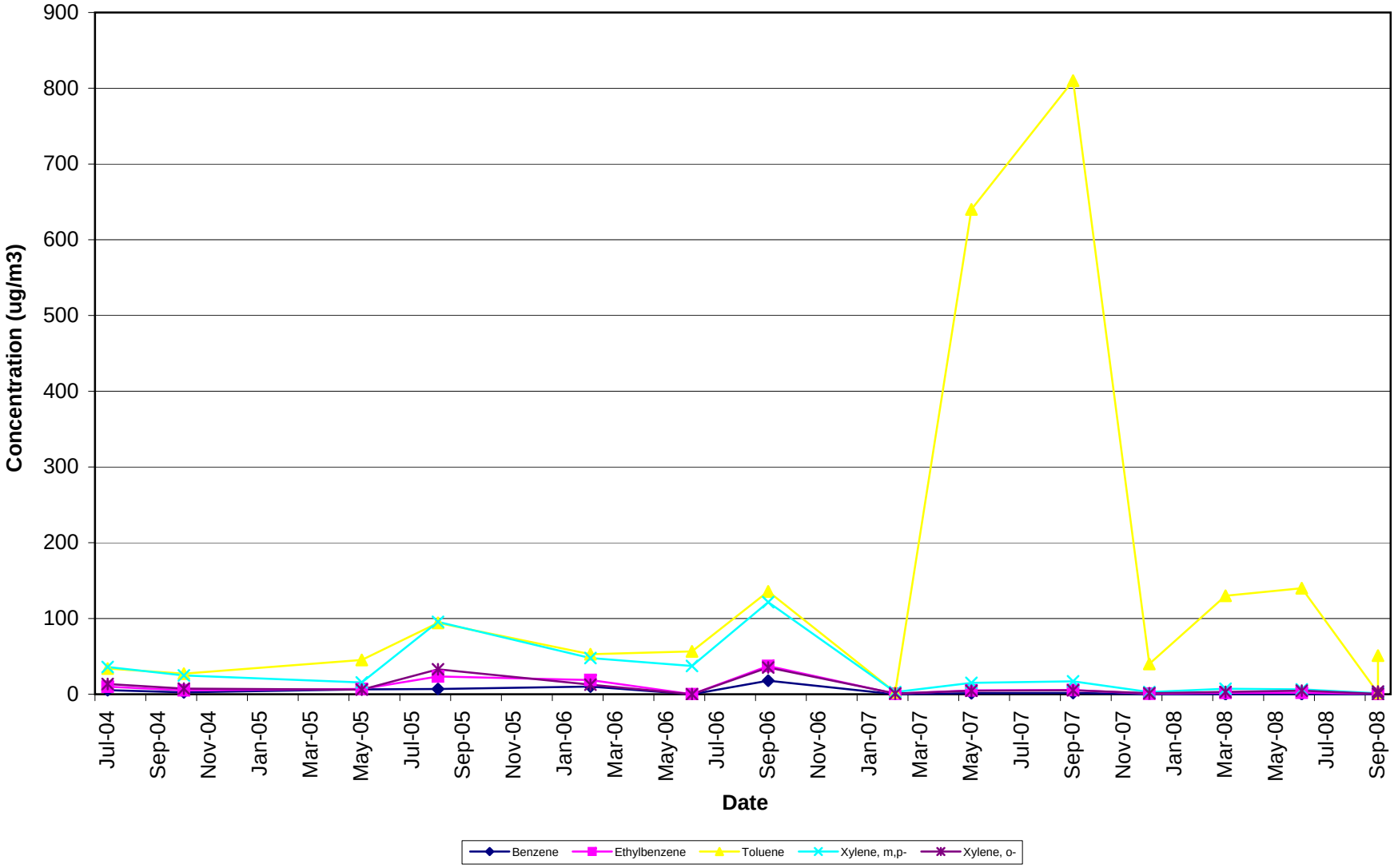
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG03



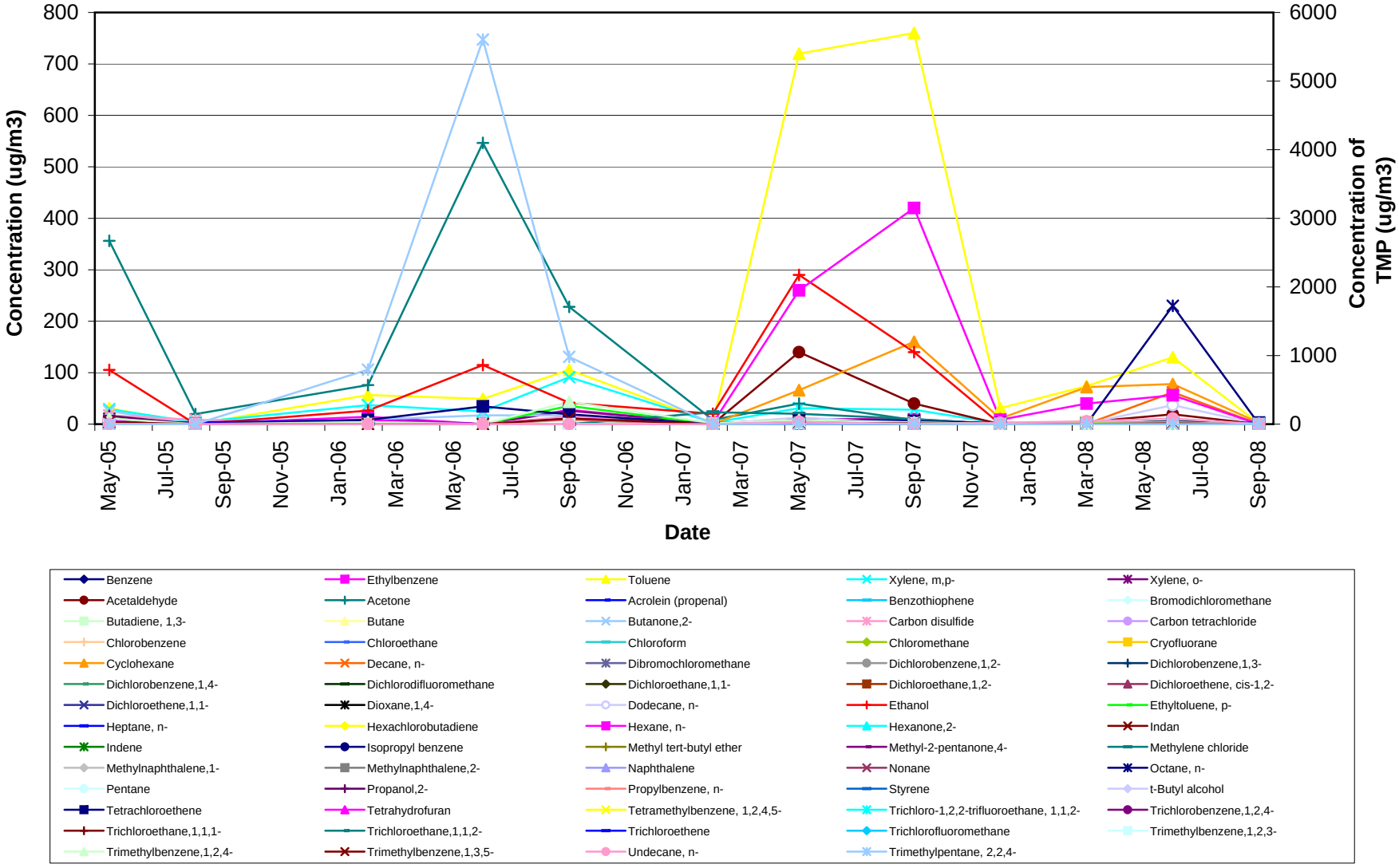
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG03 BTEX



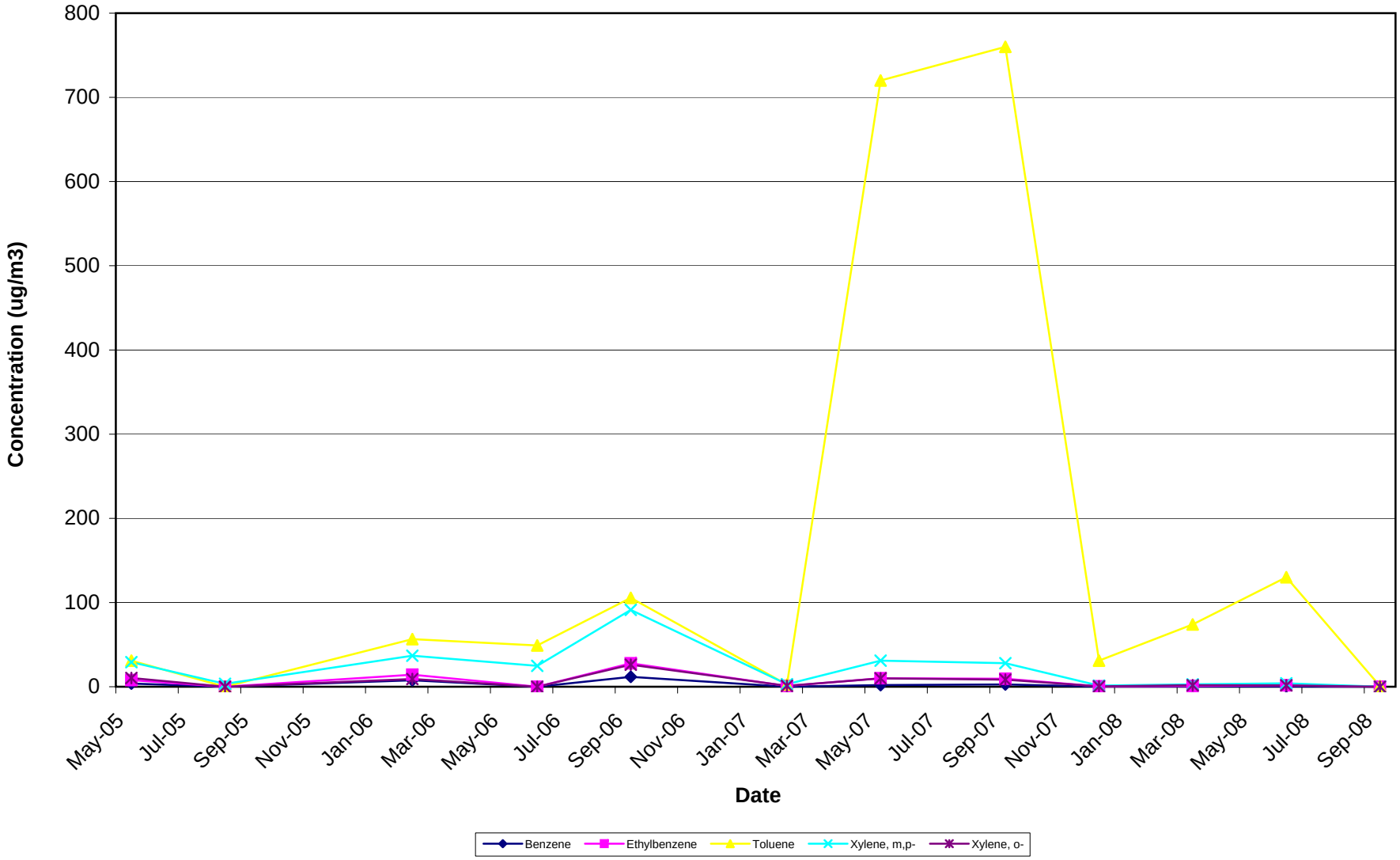
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG04



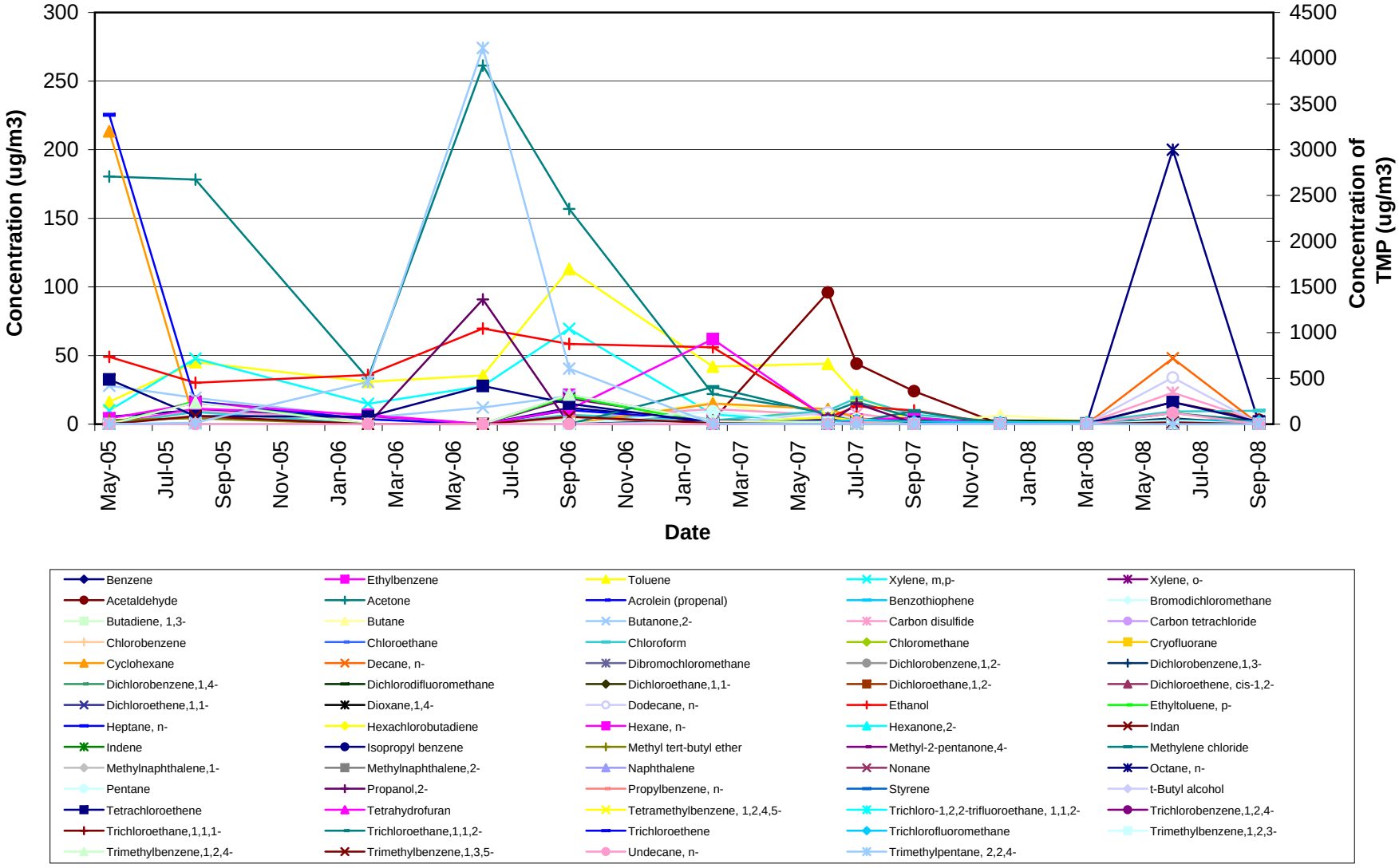
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG04 BTEX



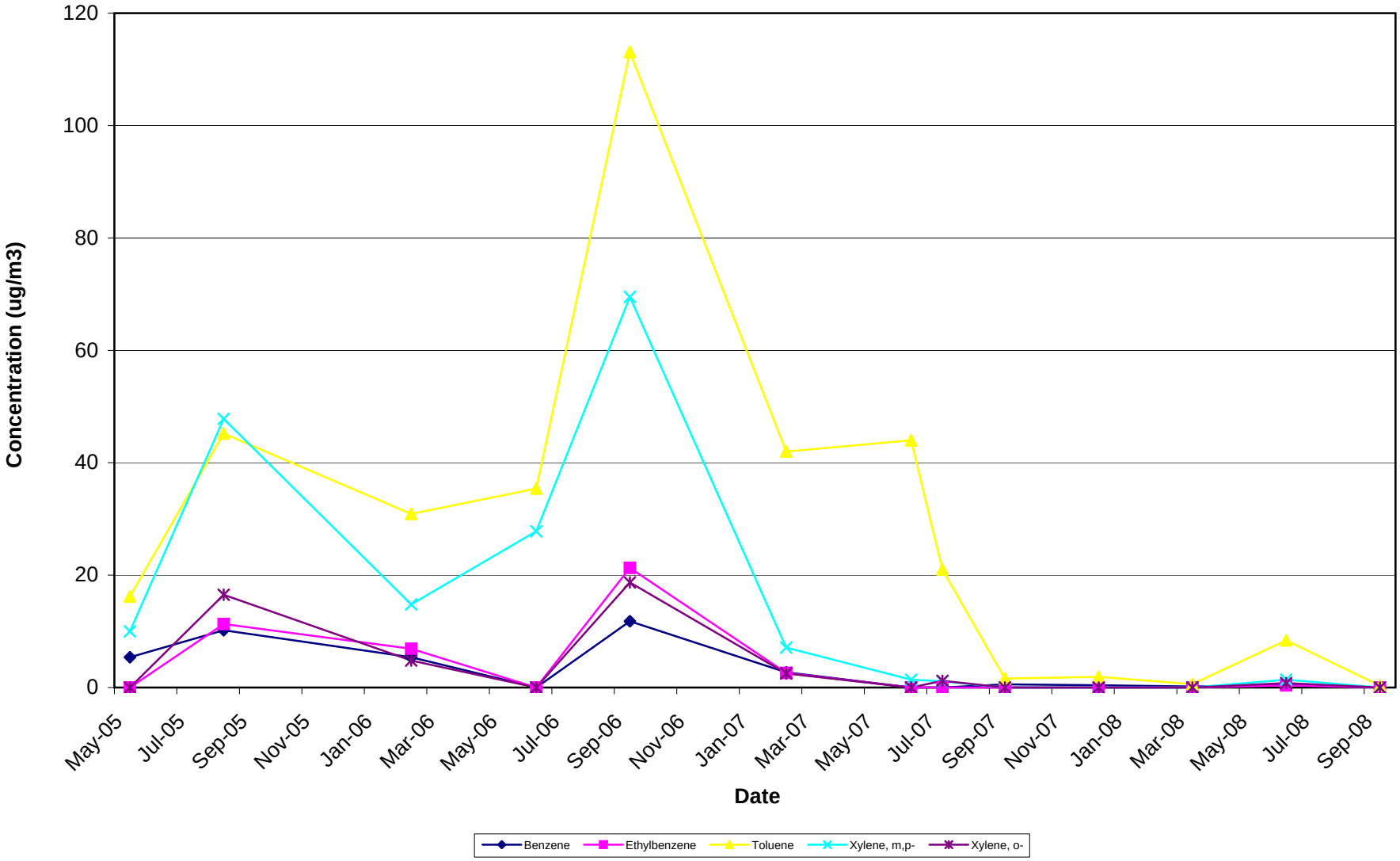
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG05



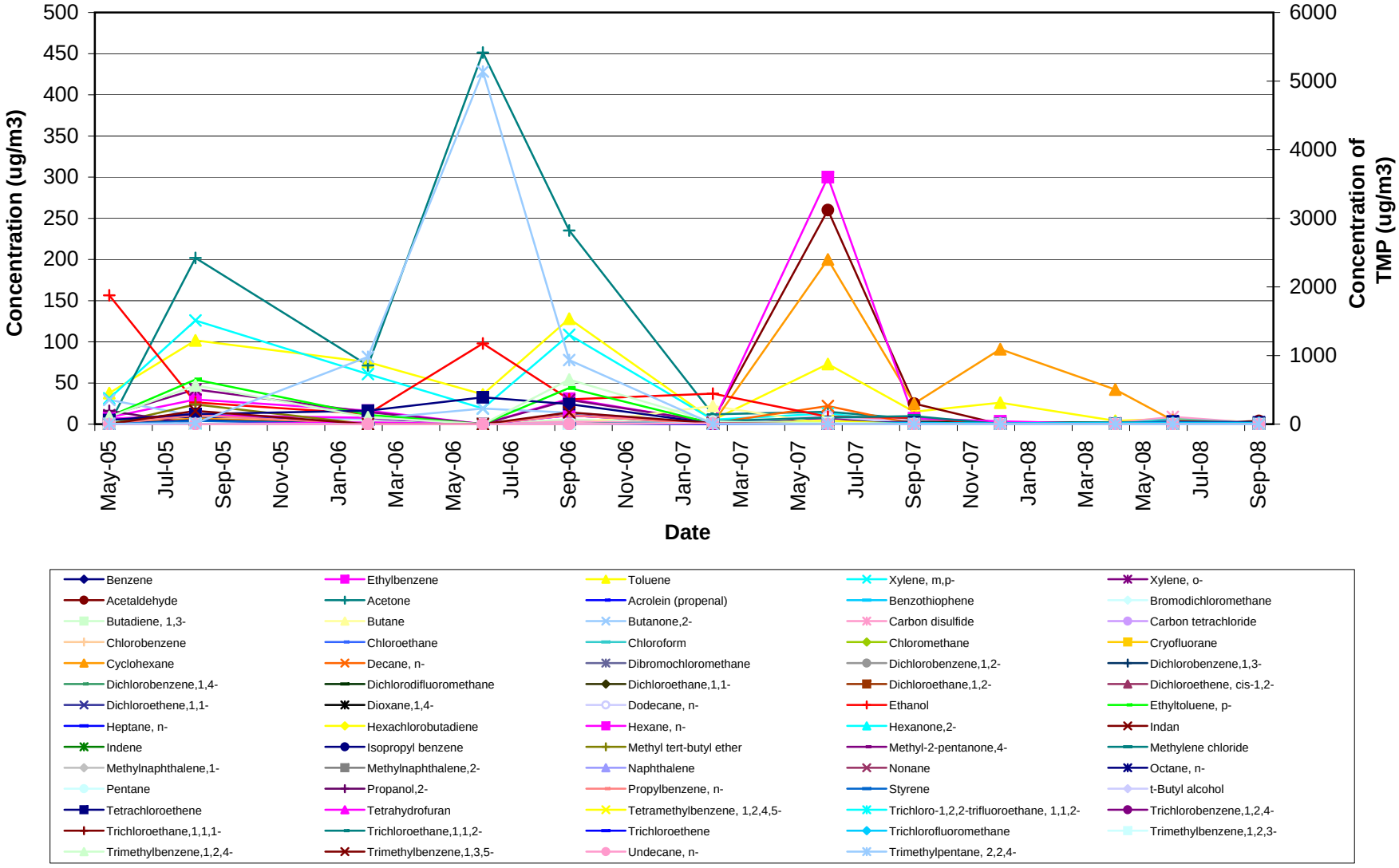
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG05 BTEX



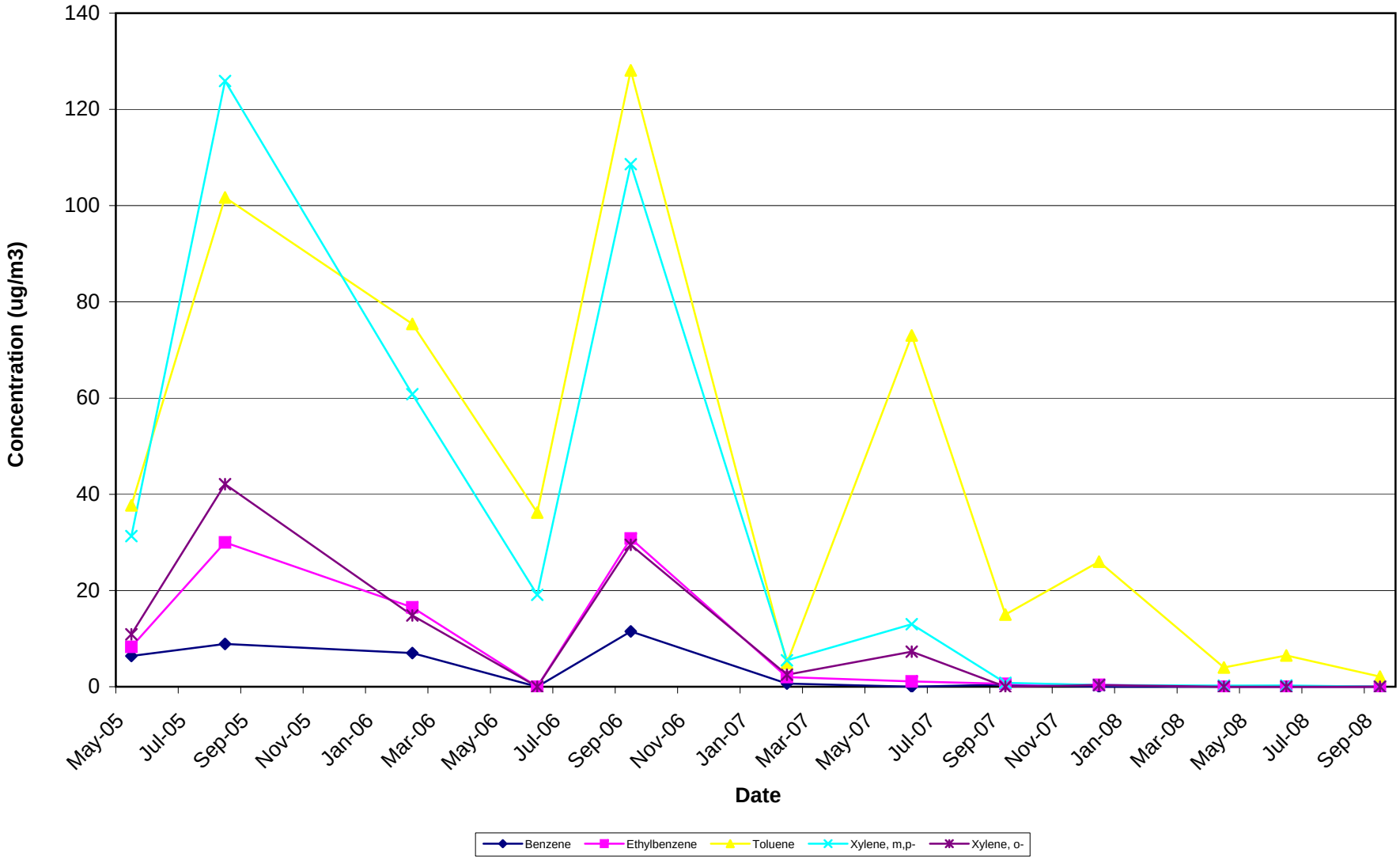
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG06



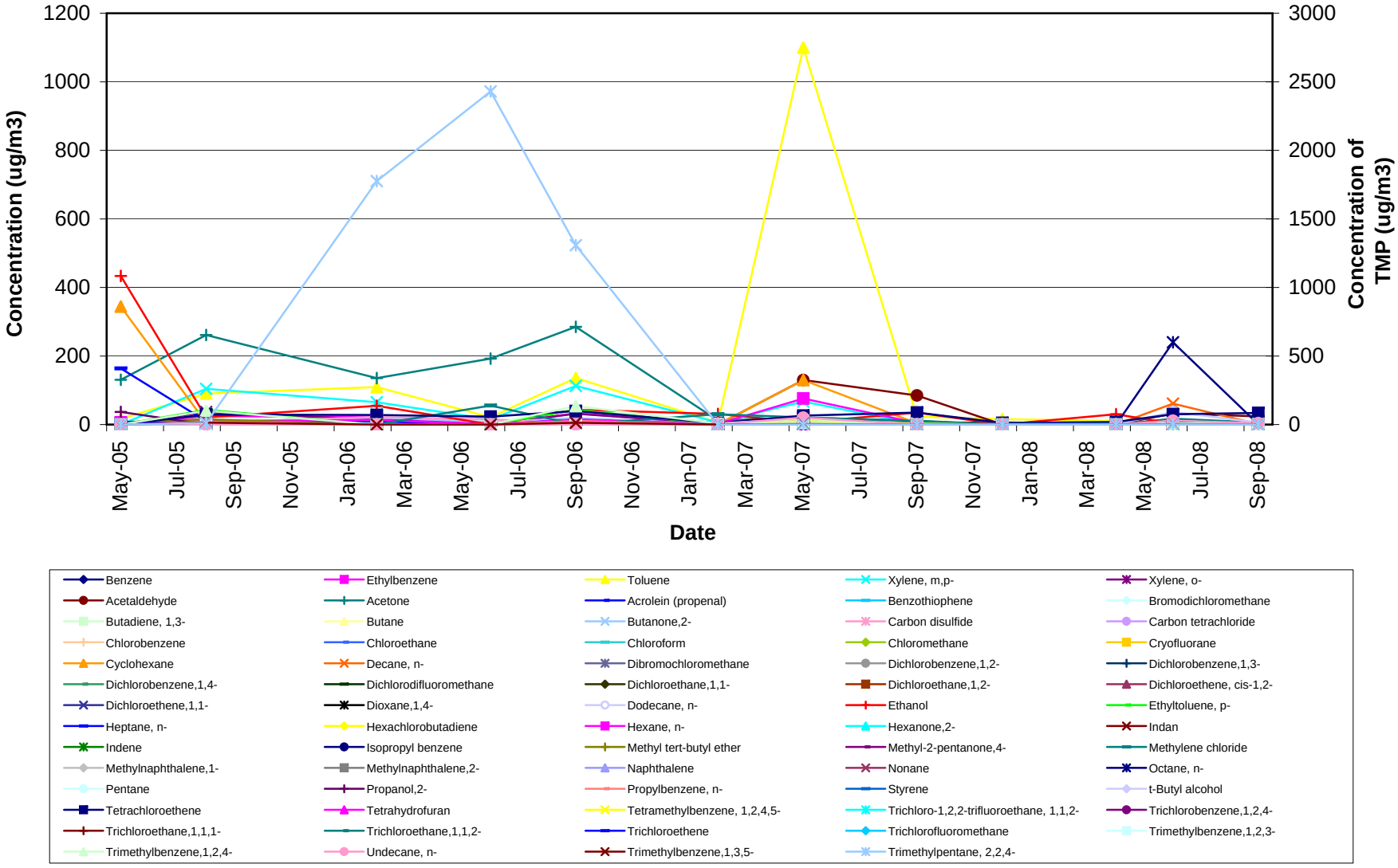
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG06 BTEX



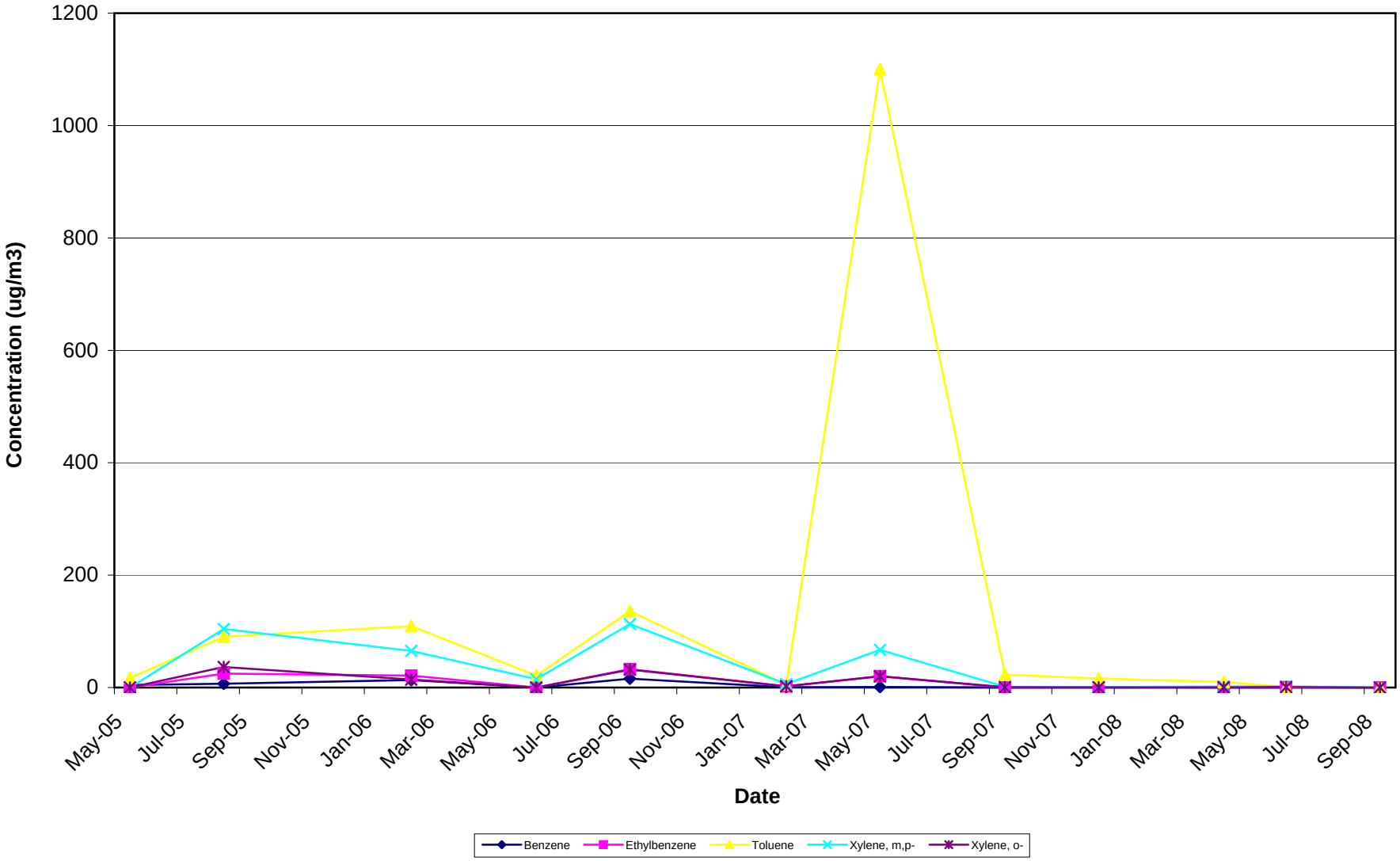
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG07



Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG07 BTEX



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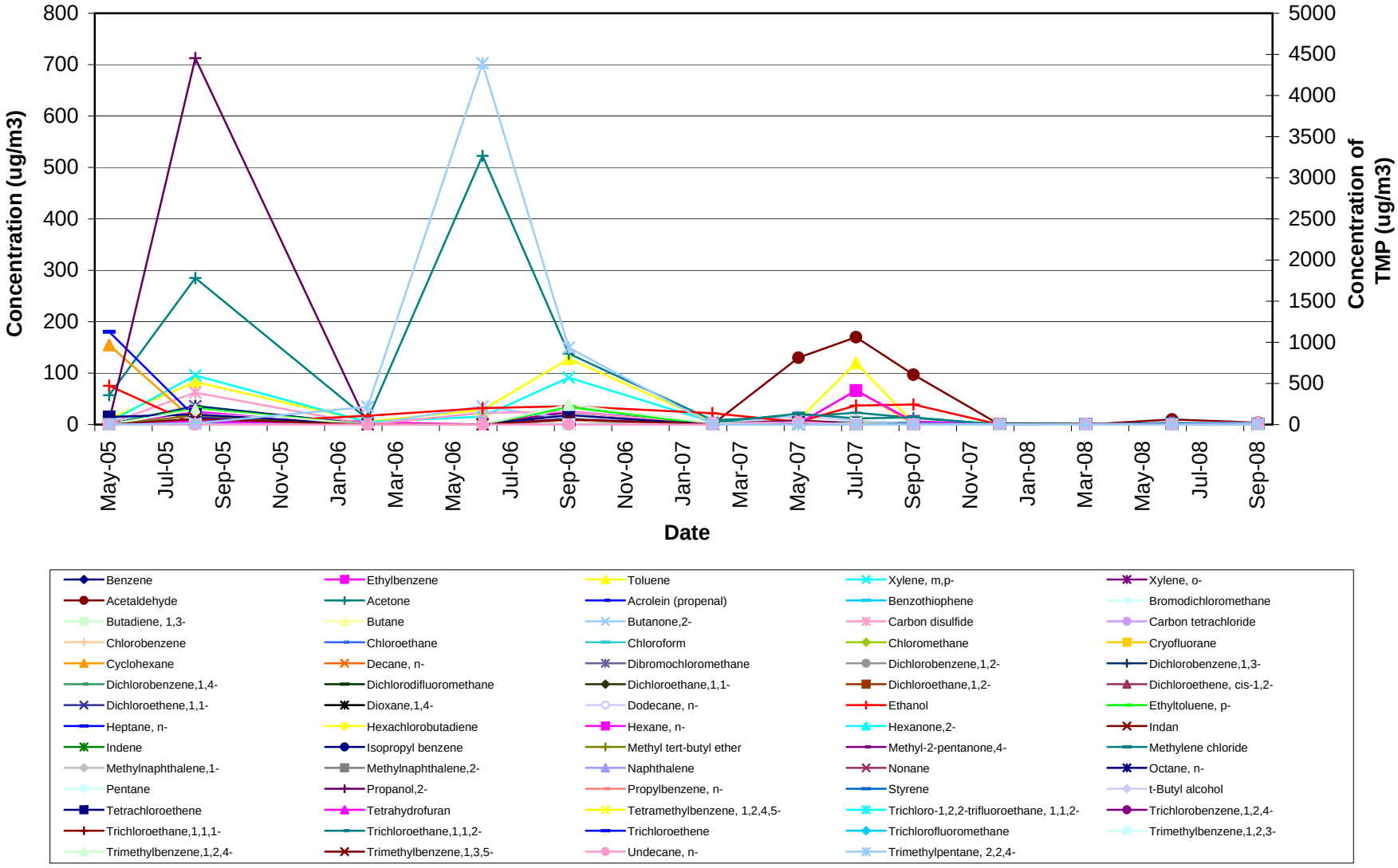
Appendix D SV GraphsQ308

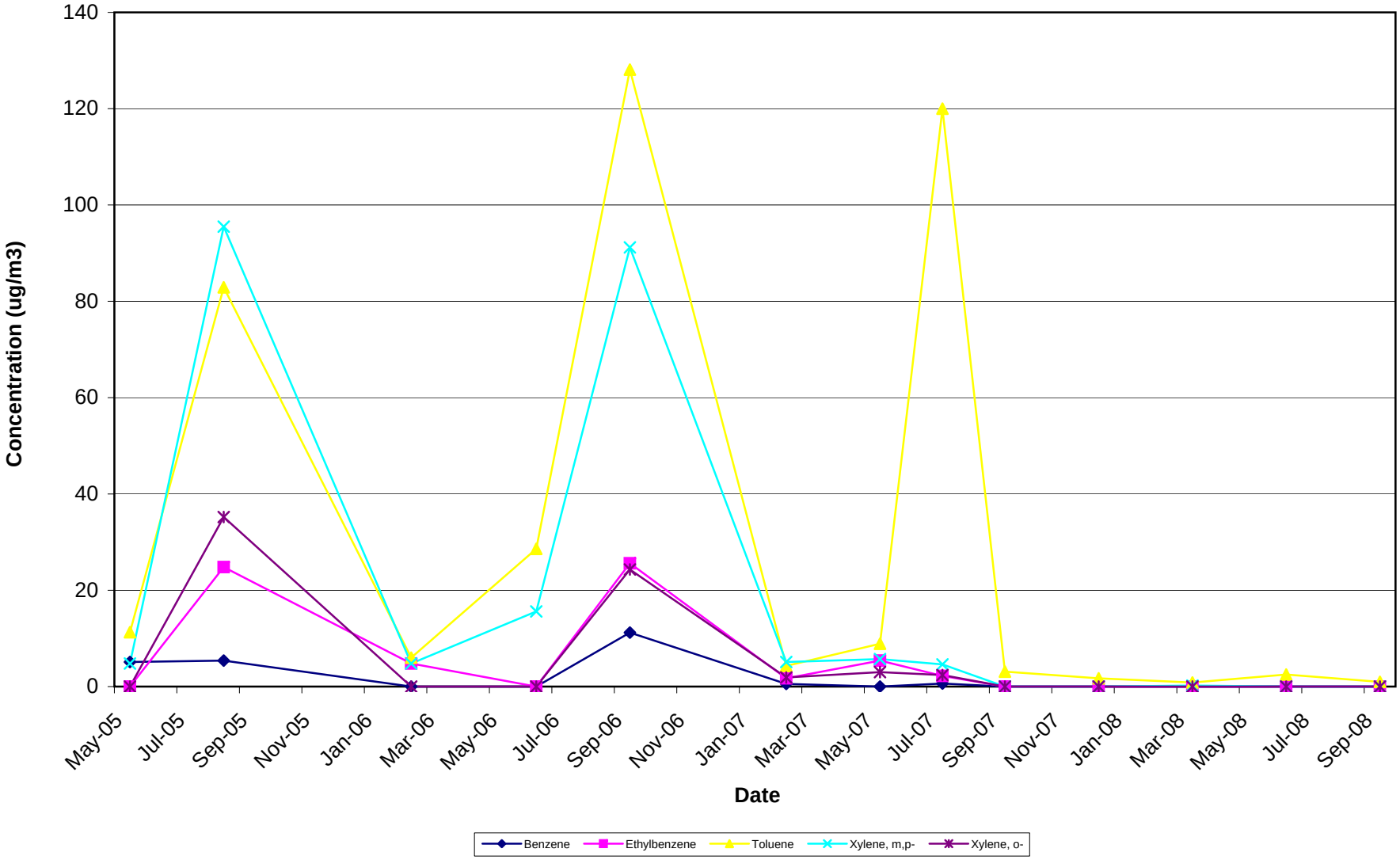
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG08



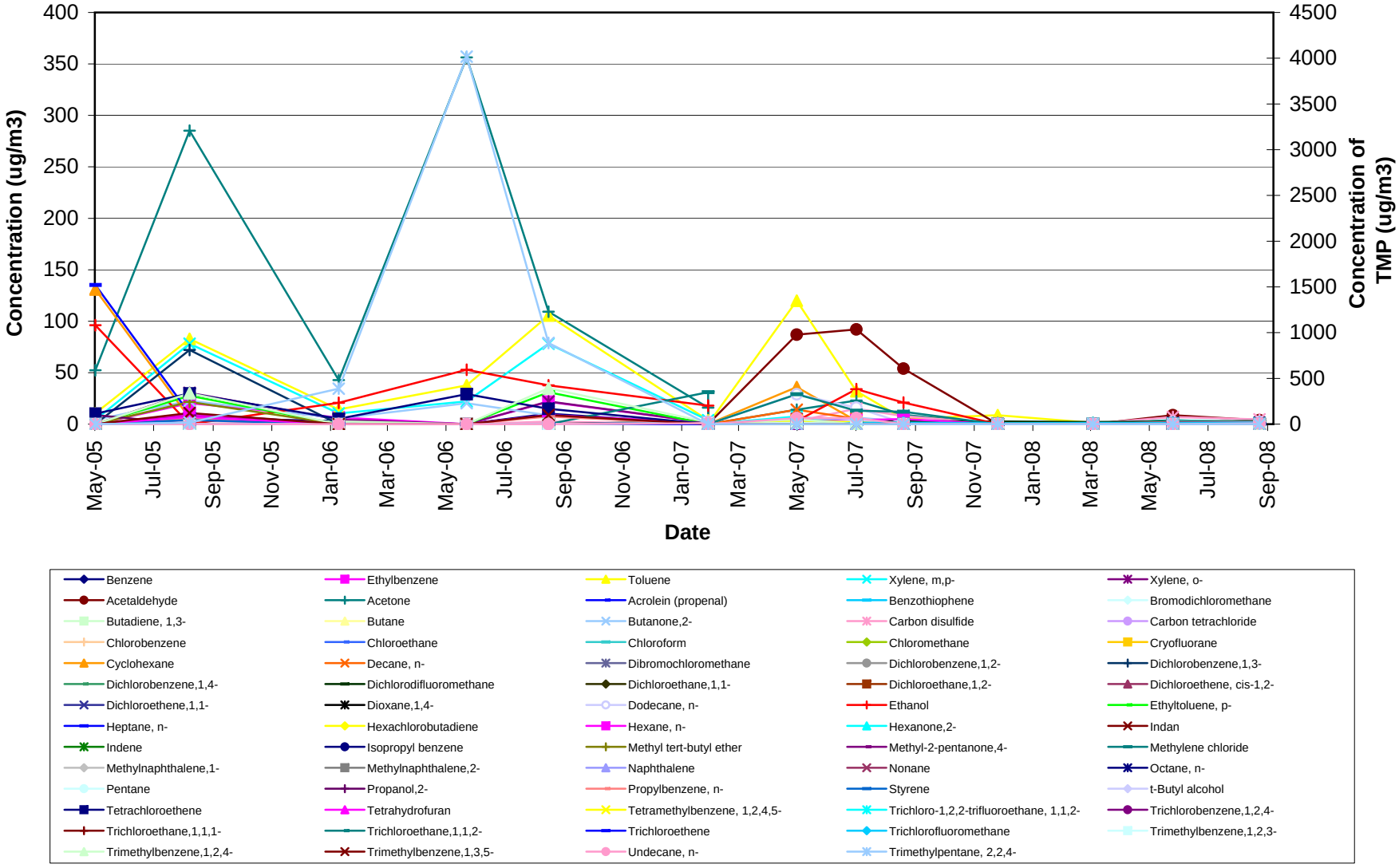
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG08 BTEX



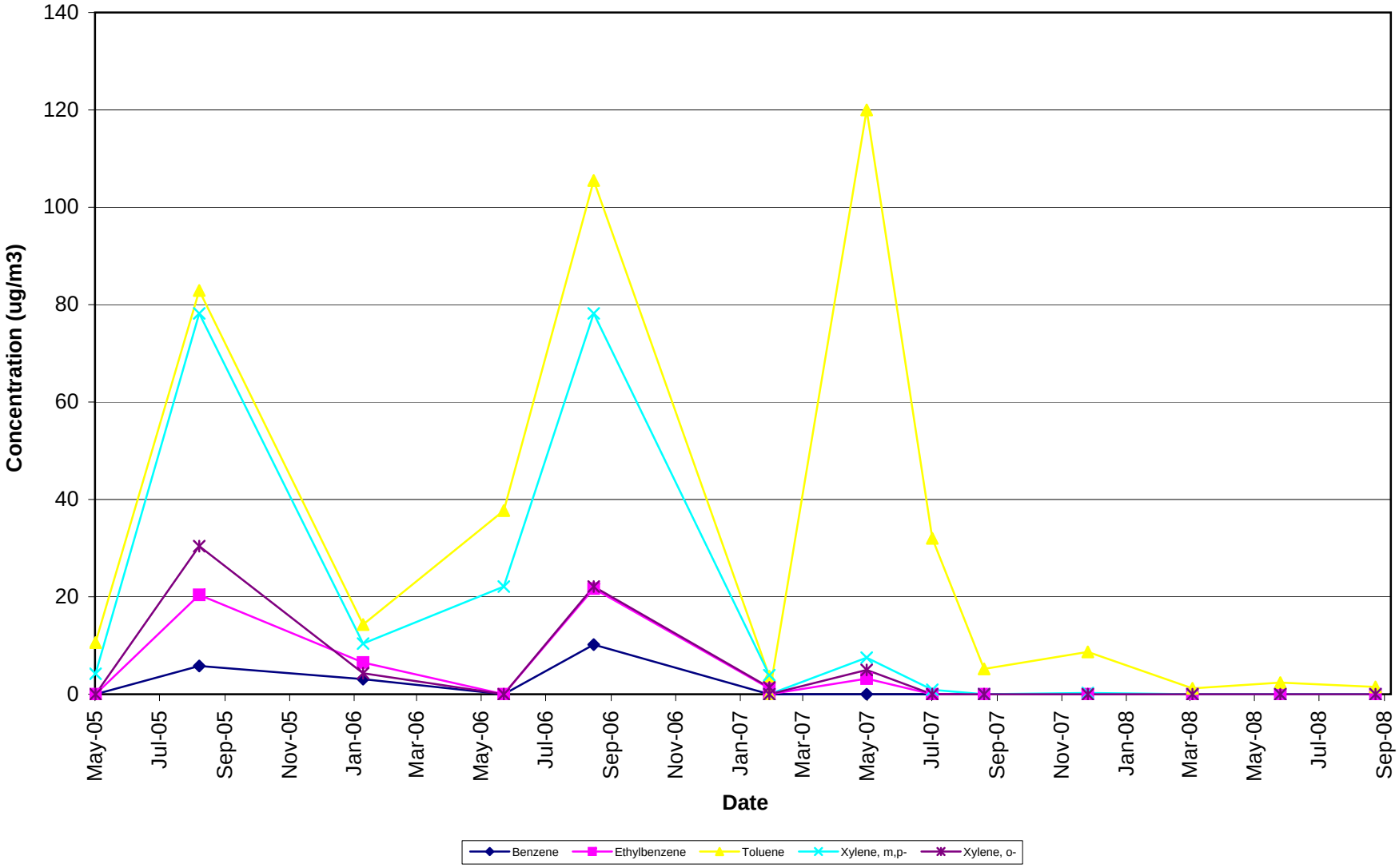
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG09



Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG09 BTEX



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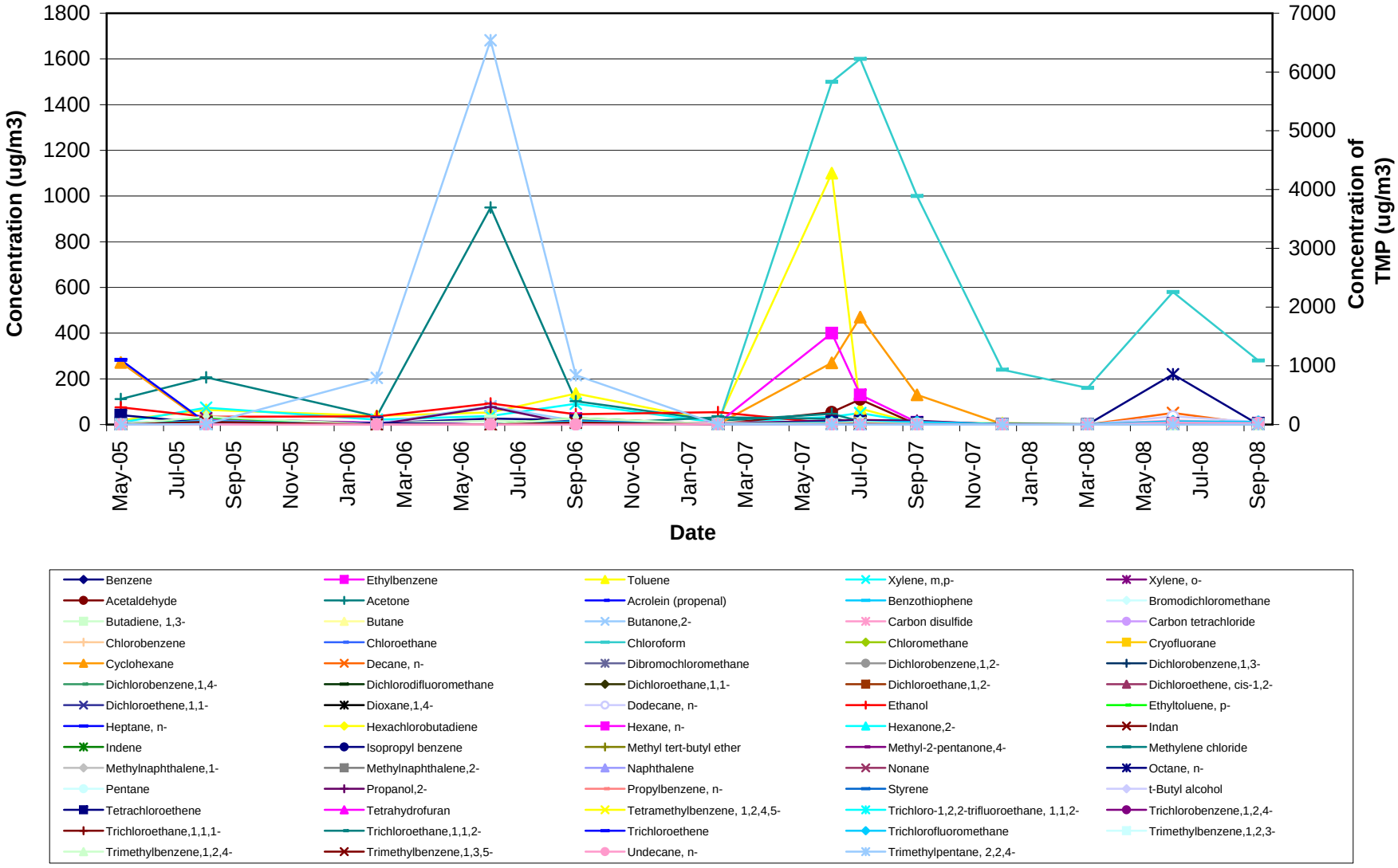
Appendix D SV GraphsQ308

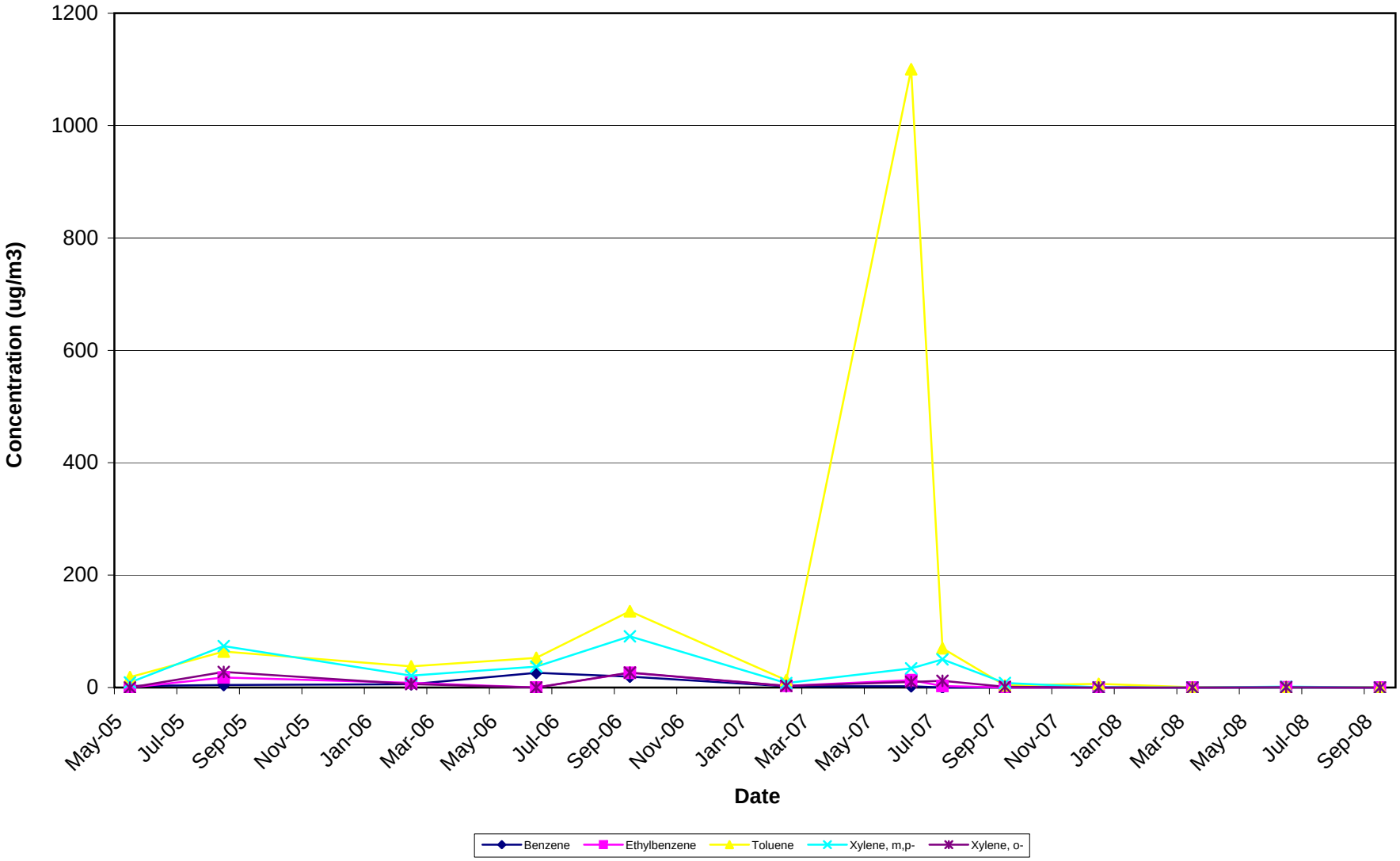
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG10



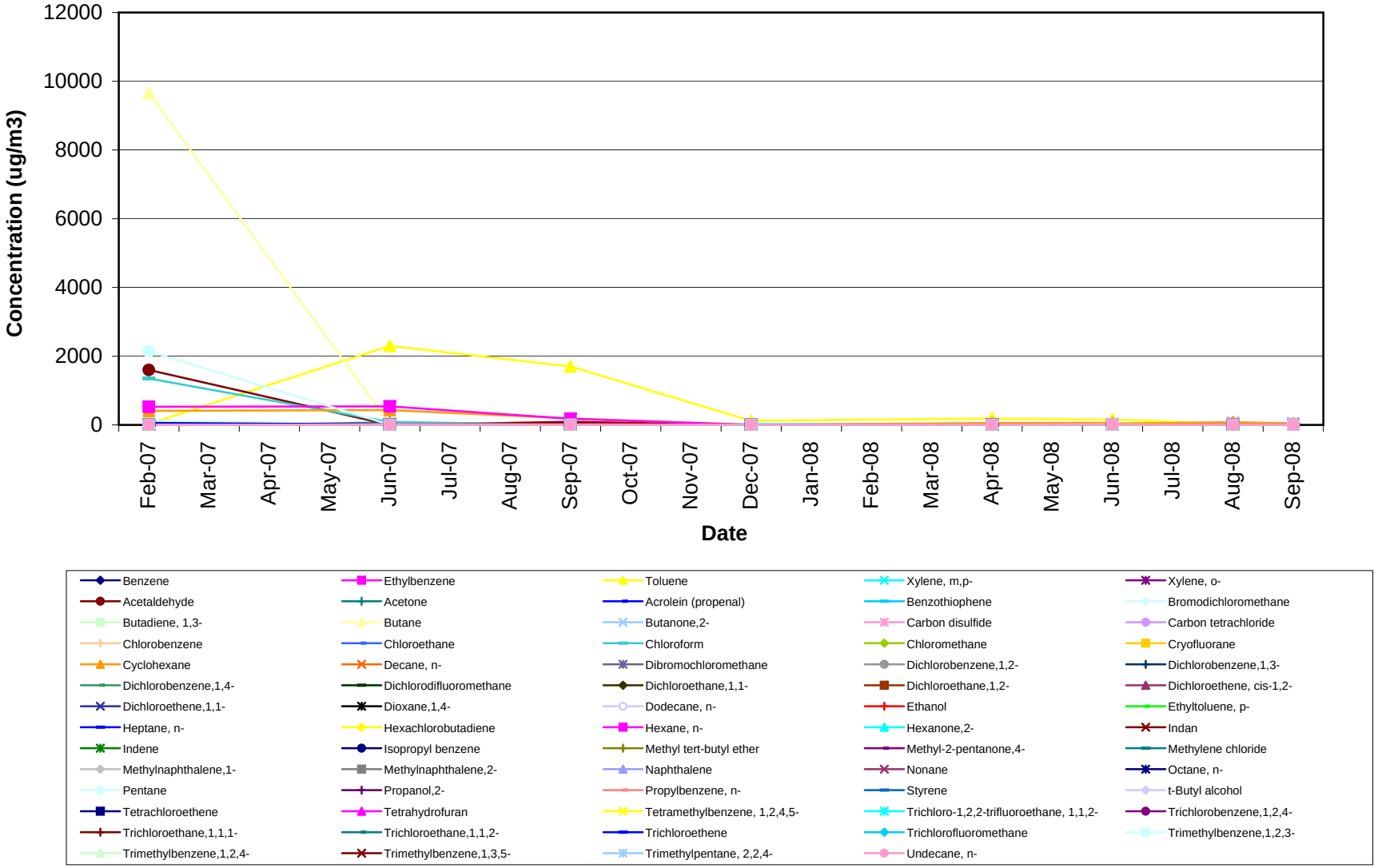
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG10 BTEX



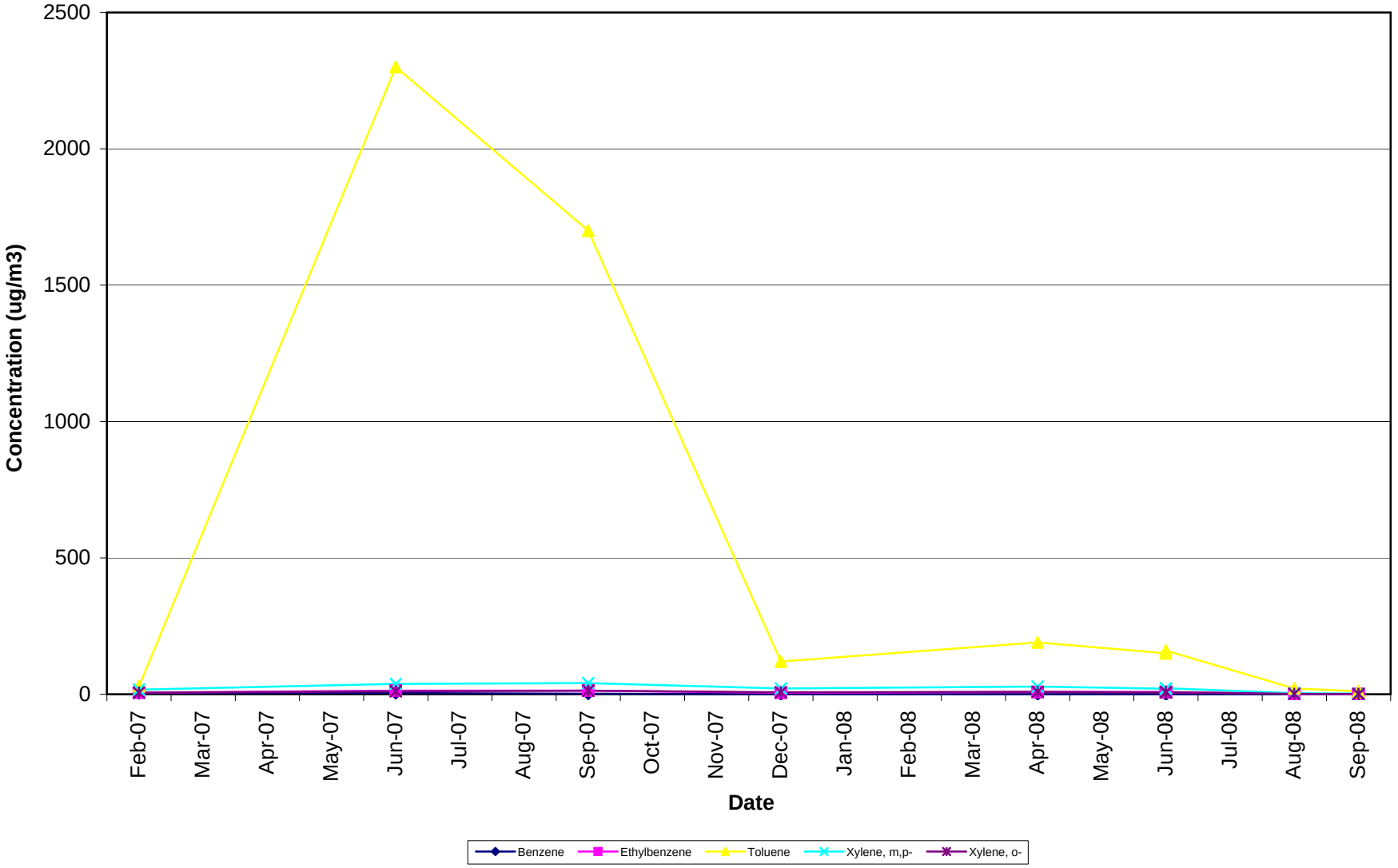
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG11



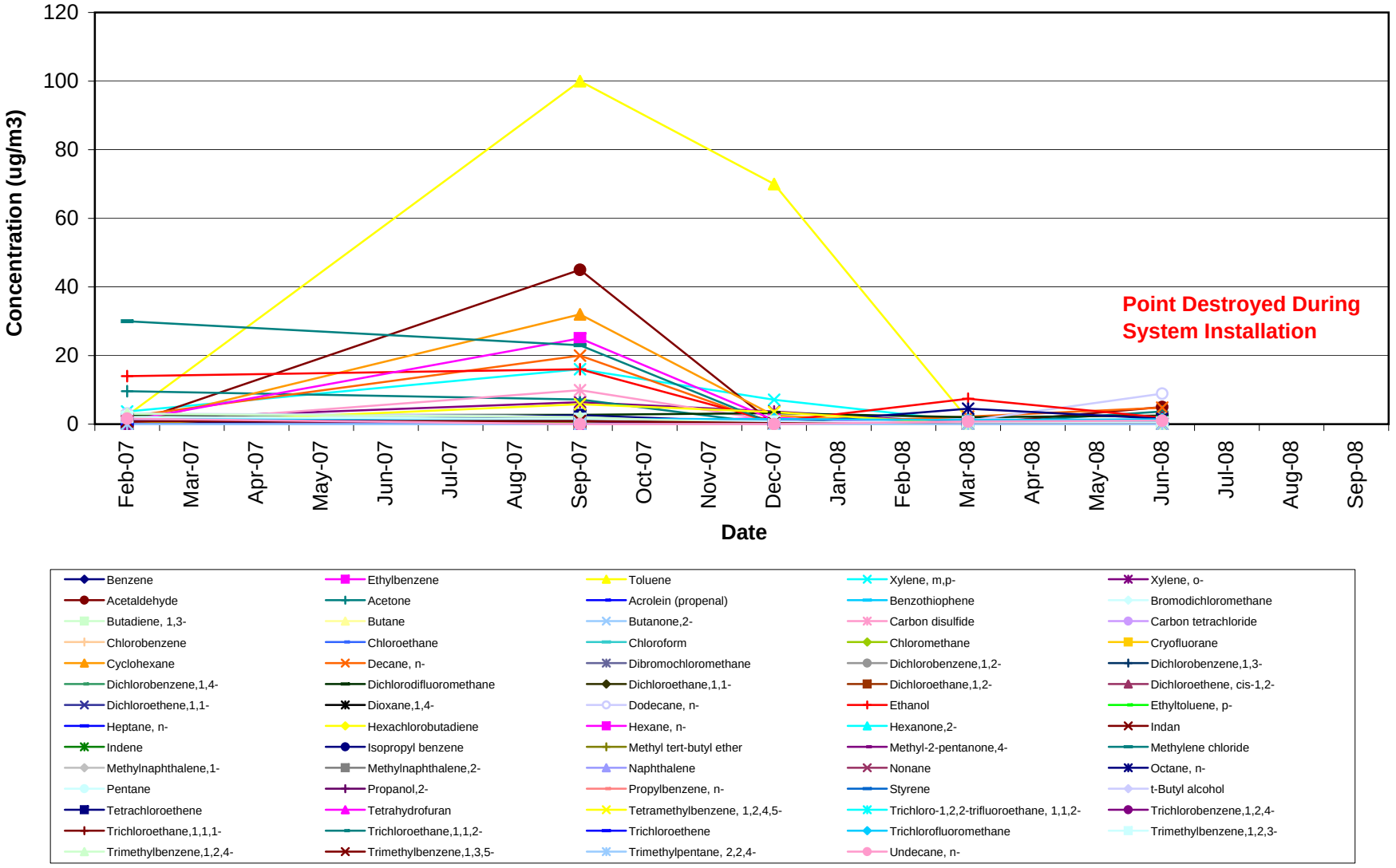
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG11 BTEX



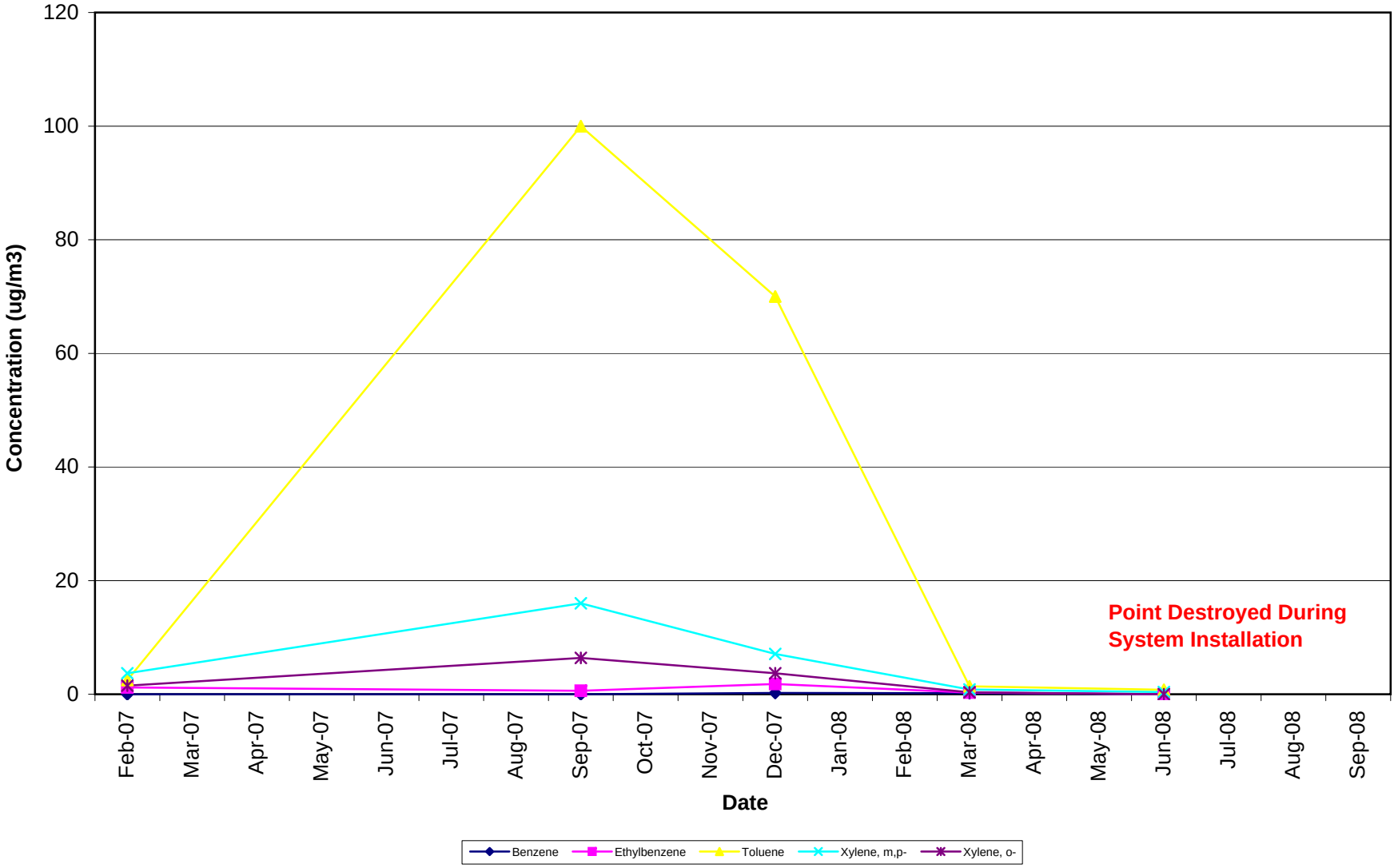
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG12



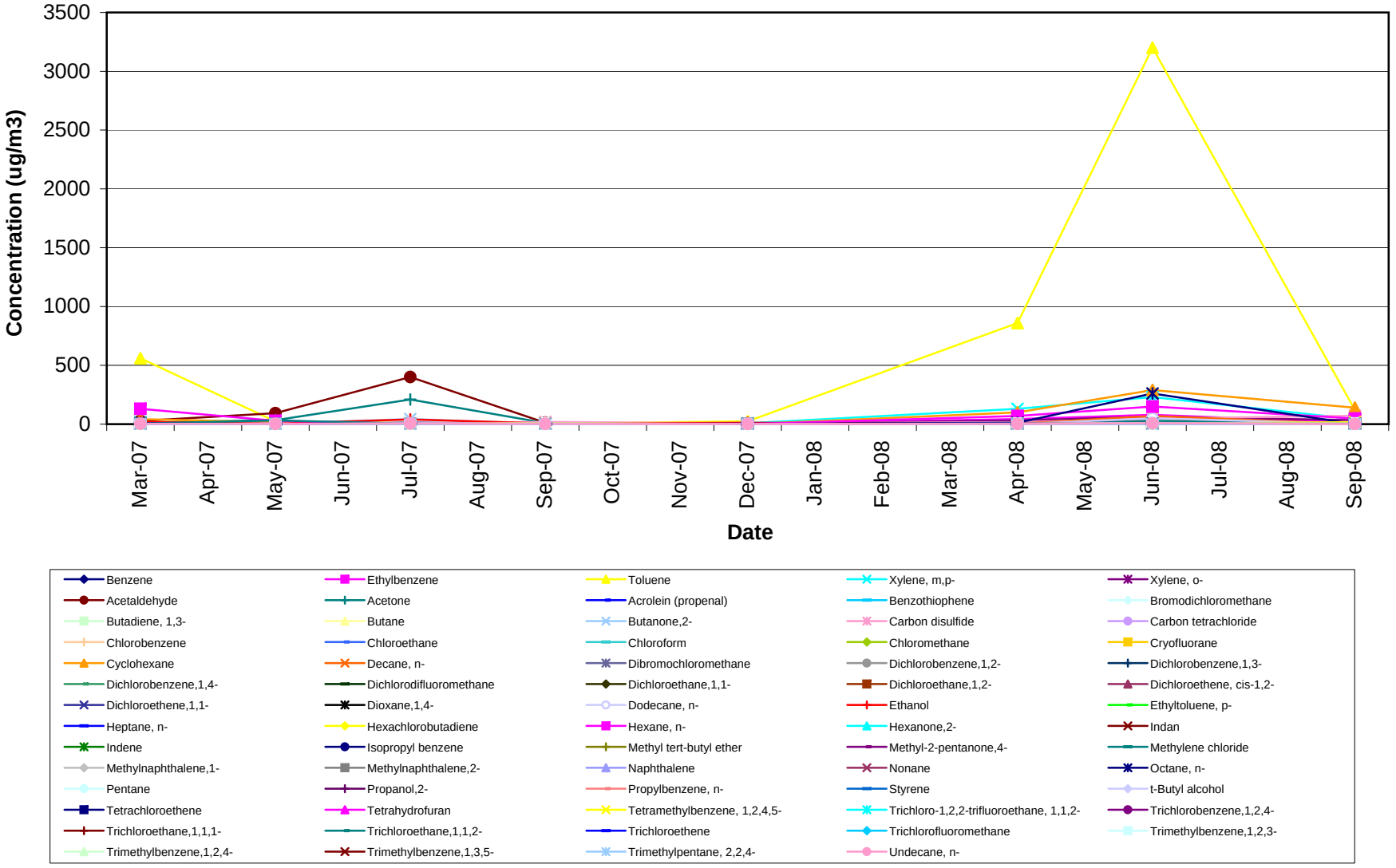
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG12 BTEX



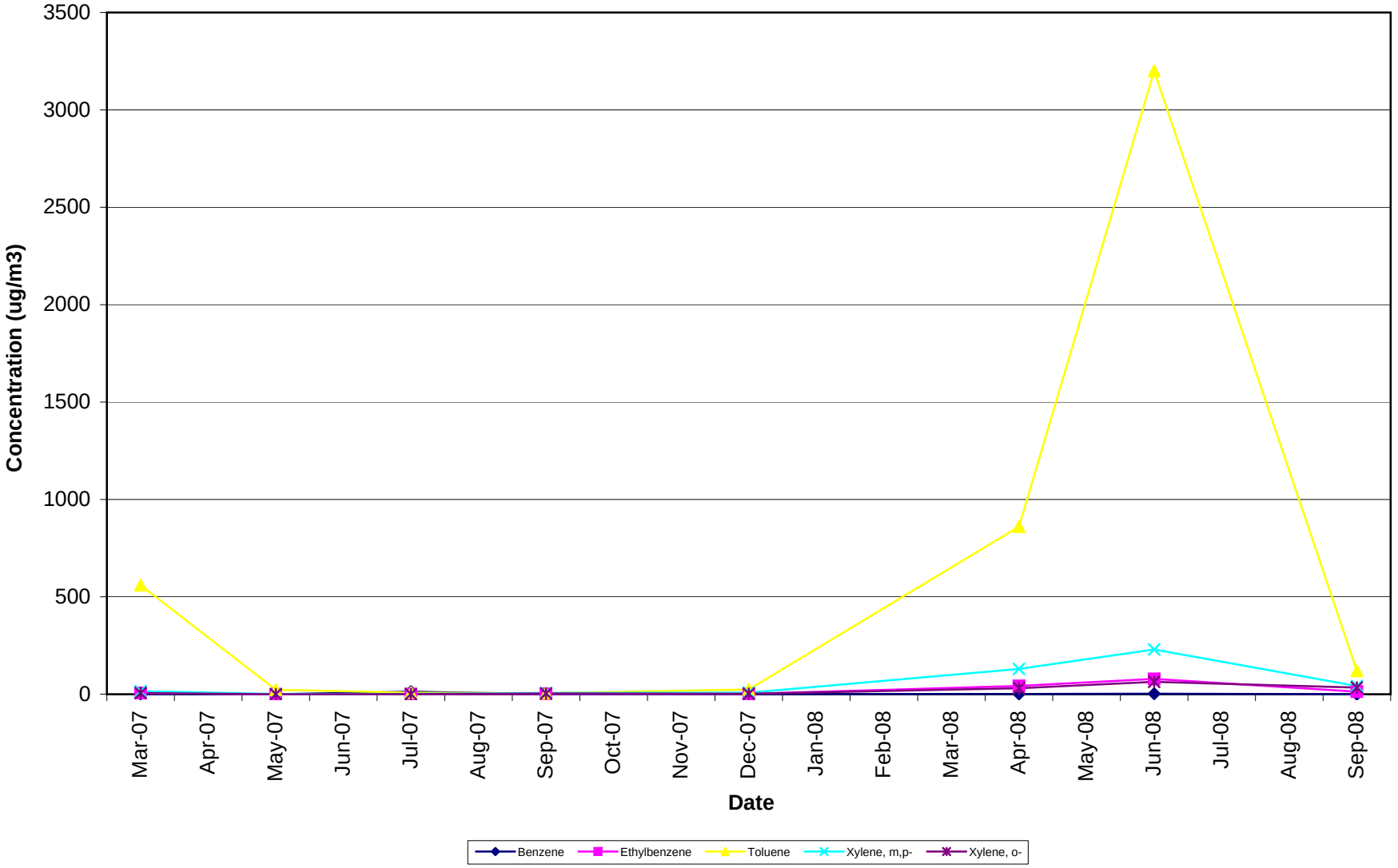
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG13



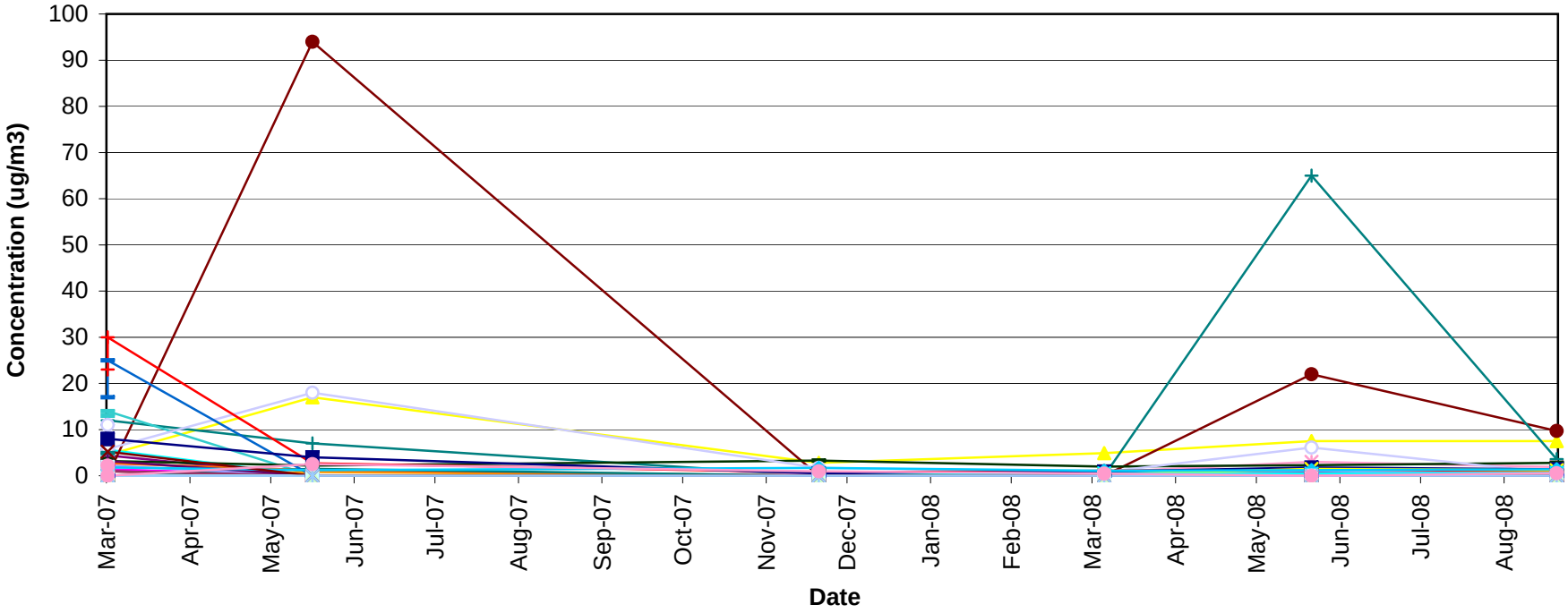
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG13 BTEX



Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

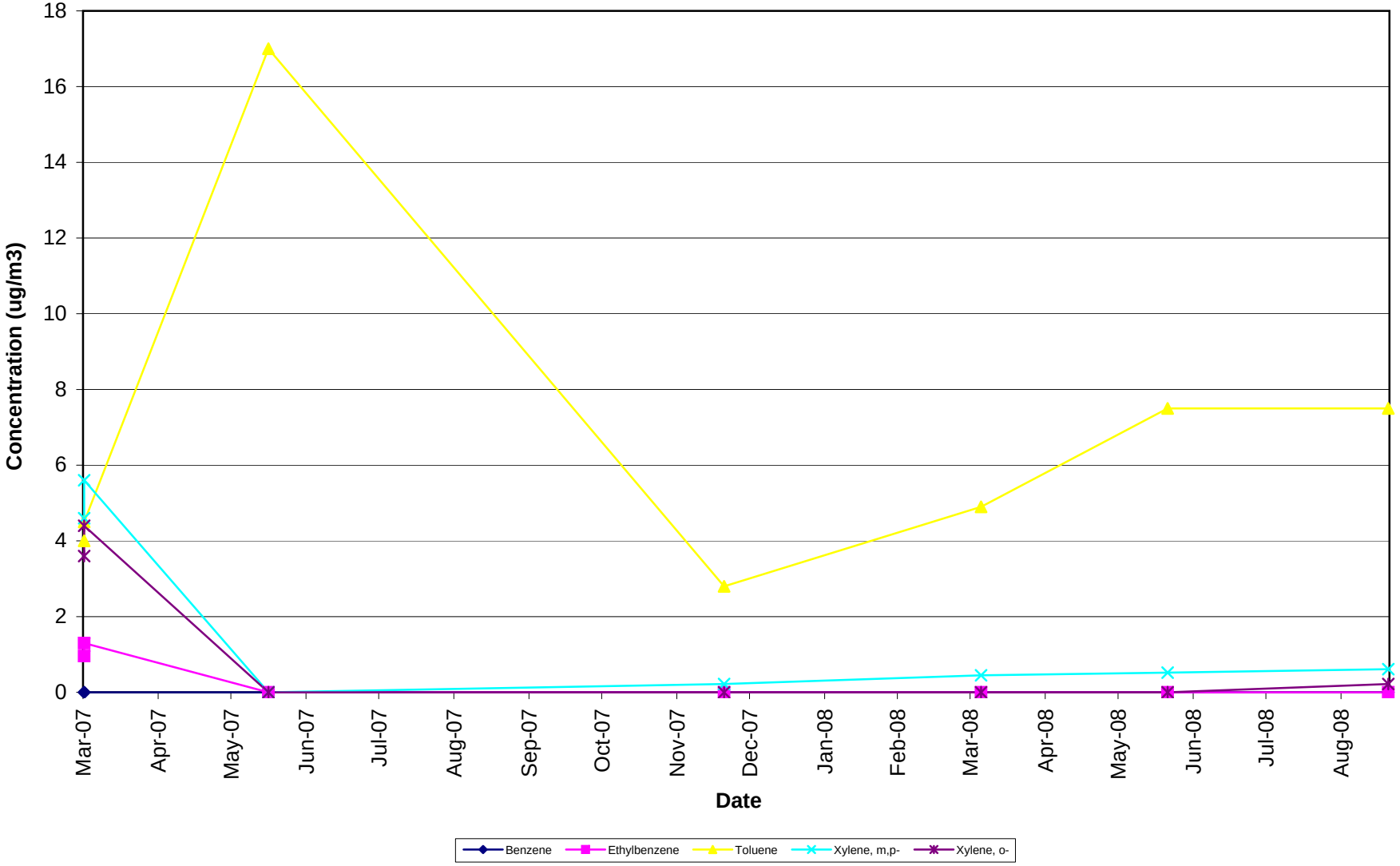
OU2SG14



Benzene	Ethylbenzene	Toluene	Xylene, m,p-	Xylene, o-
Acetaldehyde	Acetone	Acrolein (propenal)	Benzothiophene	Bromodichloromethane
Butadiene, 1,3-	Butane	Butanone,2-	Carbon disulfide	Carbon tetrachloride
Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cryofluorane
Cyclohexane	Decane, n-	Dibromochloromethane	Dichlorobenzene,1,2-	Dichlorobenzene,1,3-
Dichlorobenzene,1,4-	Dichlorodifluoromethane	Dichloroethane,1,1-	Dichloroethane,1,2-	Dichloroethene, cis-1,2-
Dichloroethene,1,1-	Dioxane,1,4-	Dodecane, n-	Ethanol	Ethyltoluene, p-
Heptane, n-	Hexachlorobutadiene	Hexane, n-	Hexanone,2-	Indan
Indene	Isopropyl benzene	Methyl tert-butyl ether	Methyl-2-pentanone,4-	Methylene chloride
Methylnaphthalene,1-	Methylnaphthalene,2-	Naphthalene	Nonane	Octane, n-
Pentane	Propanol,2-	Propylbenzene, n-	Styrene	t-Butyl alcohol
Tetrachloroethene	Tetrahydrofuran	Tetramethylbenzene, 1,2,4,5-	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Trichlorobenzene,1,2,4-
Trichloroethane,1,1,1-	Trichloroethane,1,1,2-	Trichloroethene	Trichlorofluoromethane	Trimethylbenzene,1,2,3-
Trimethylbenzene,1,2,4-	Trimethylbenzene,1,3,5-	Trimethylpentane, 2,2,4-	Undecane, n-	

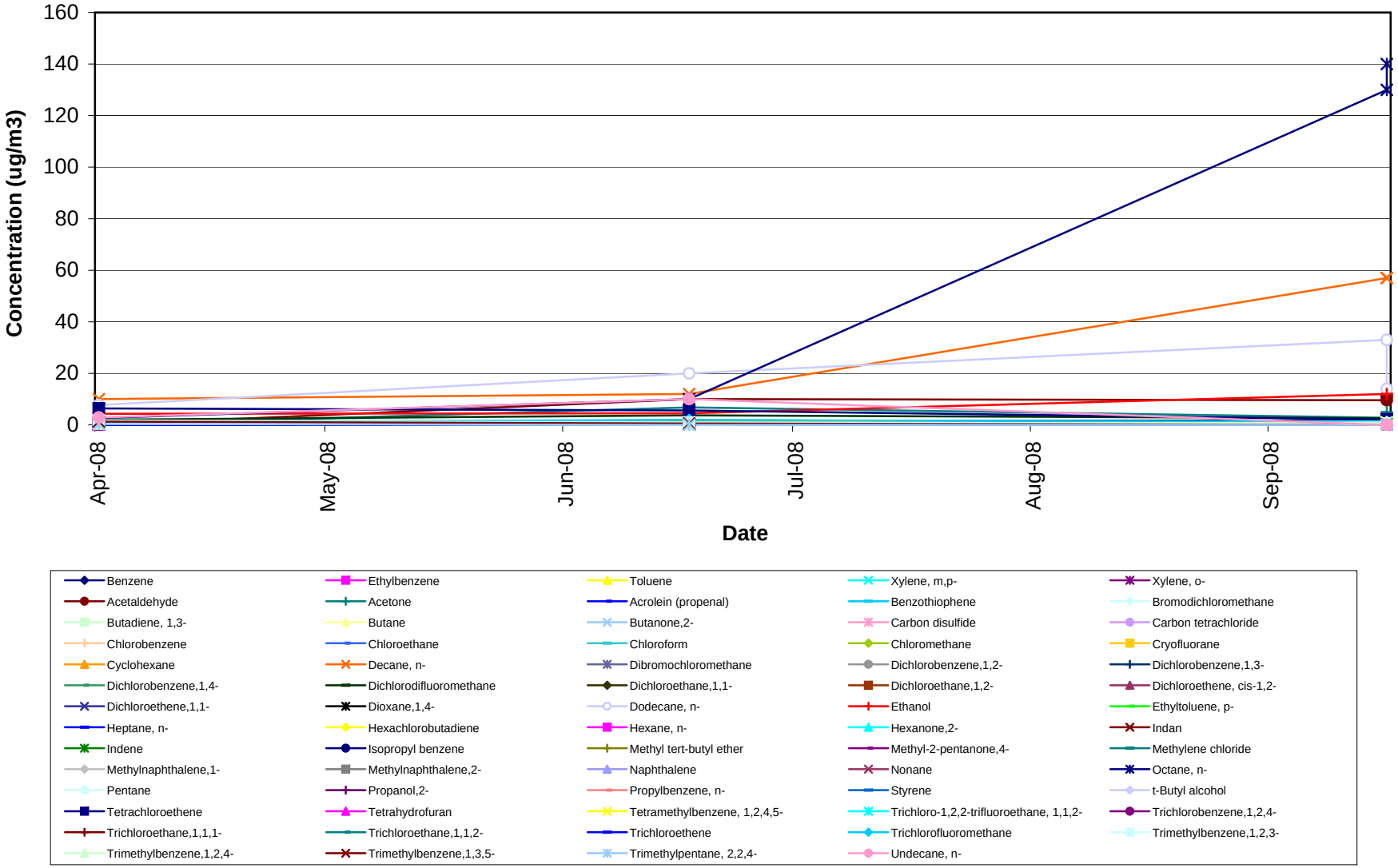
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG14 BTEX



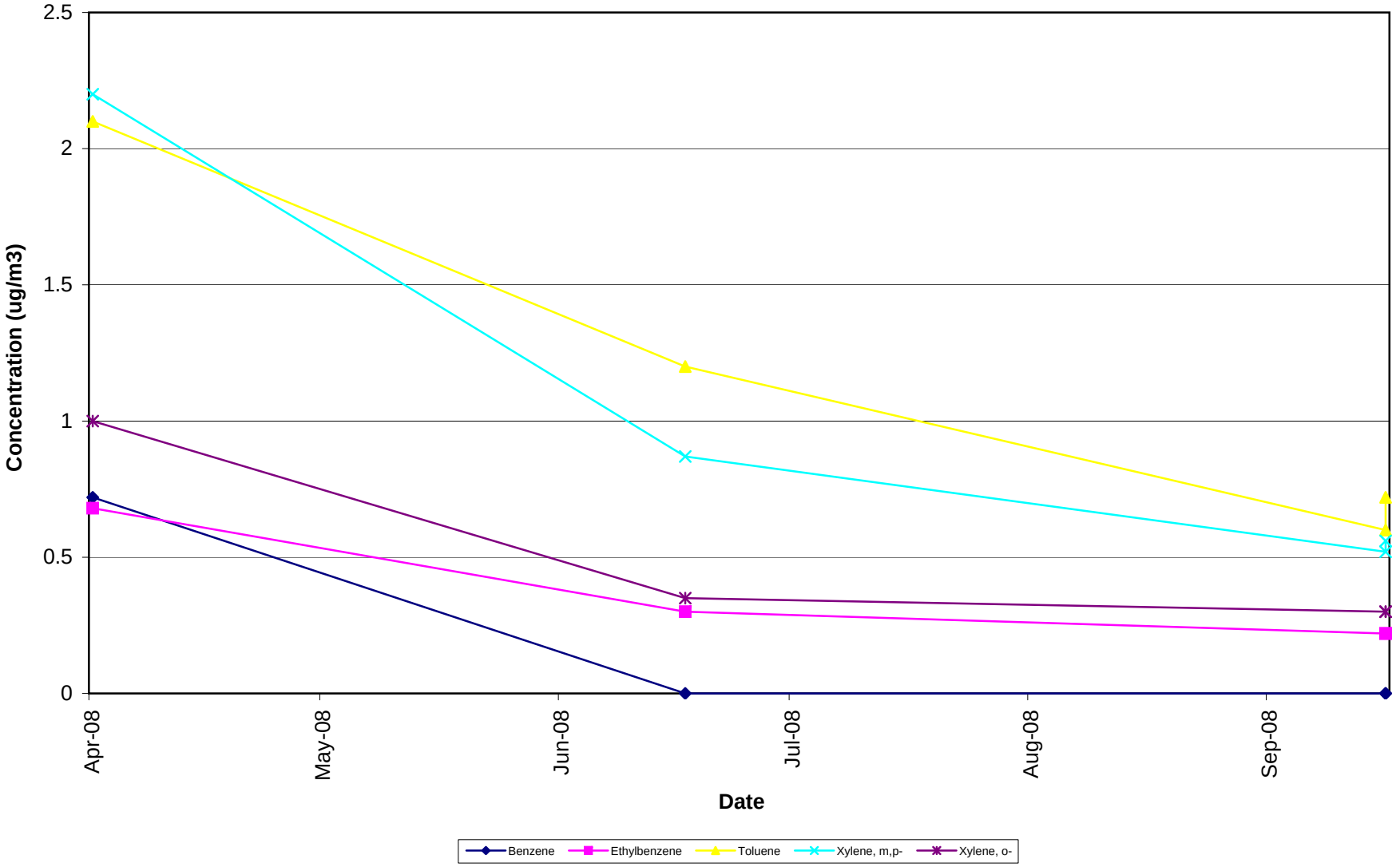
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG15



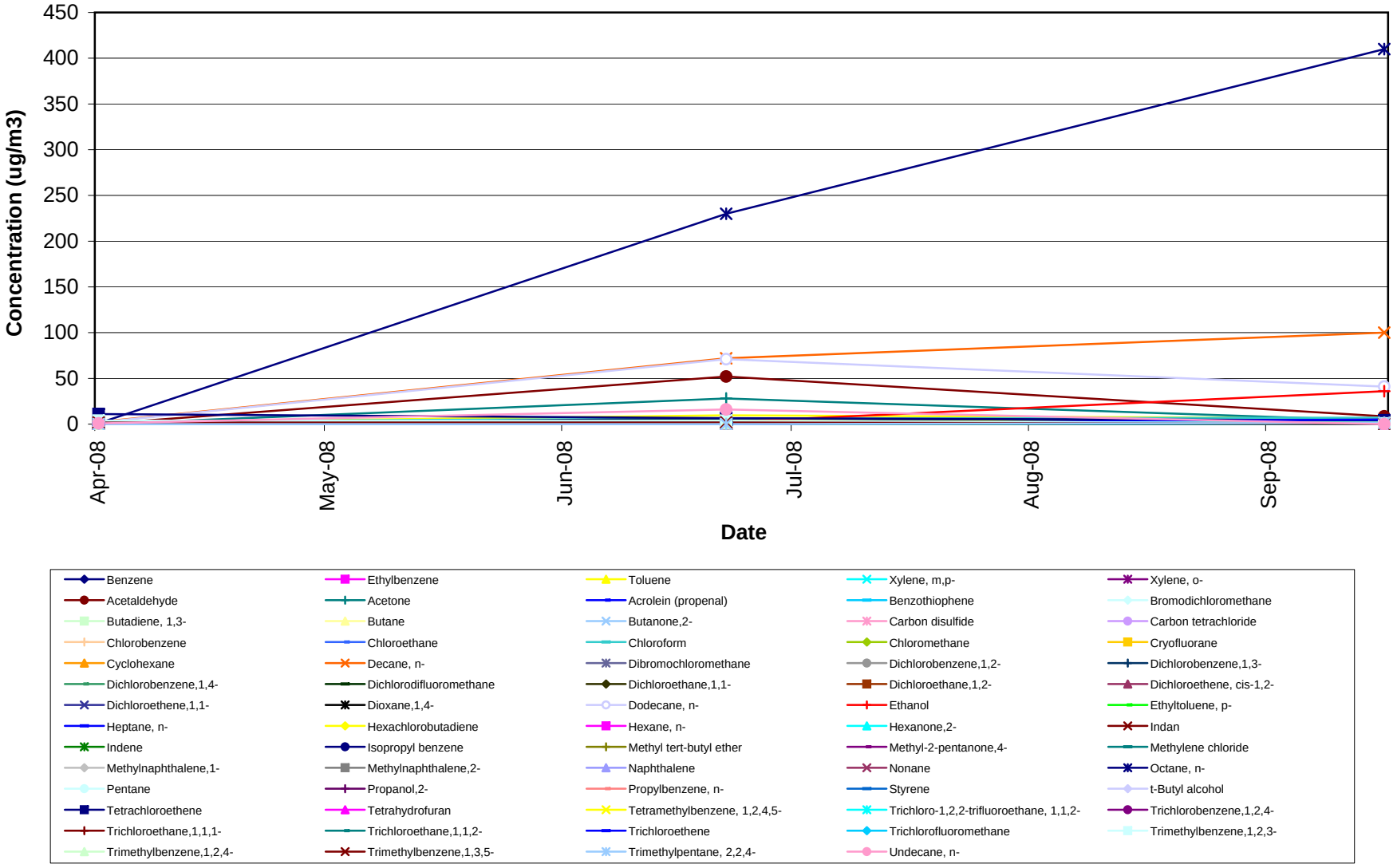
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG15 BTEX



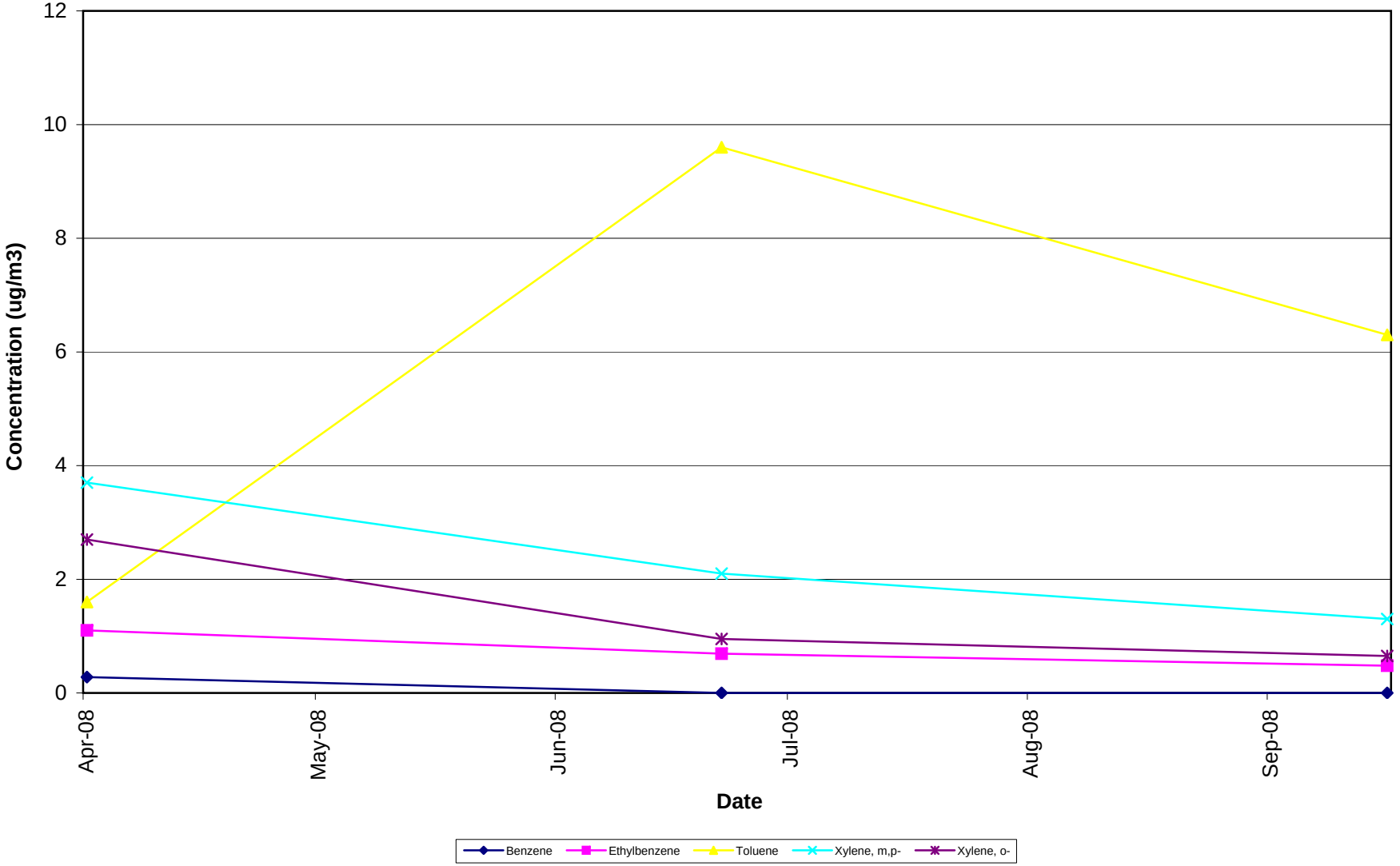
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG16



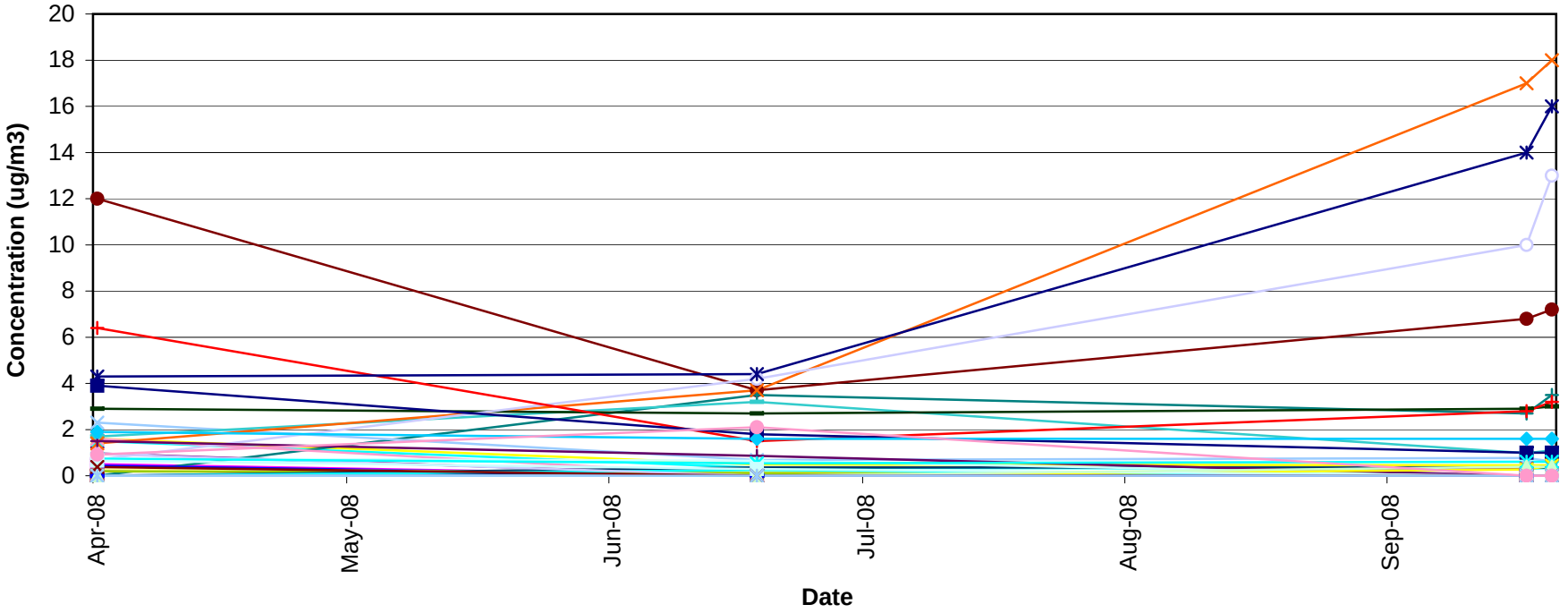
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

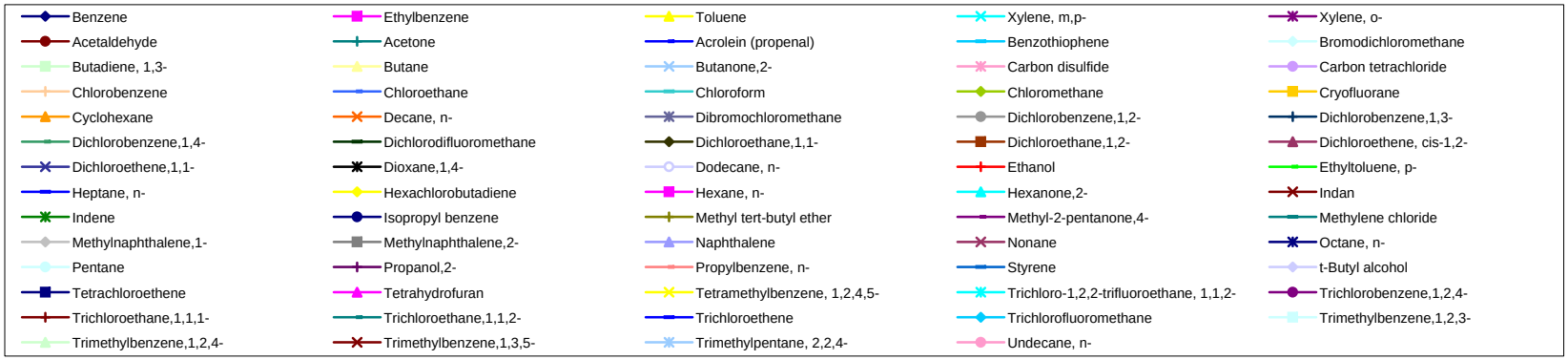
OU2SG16 BTEX



Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

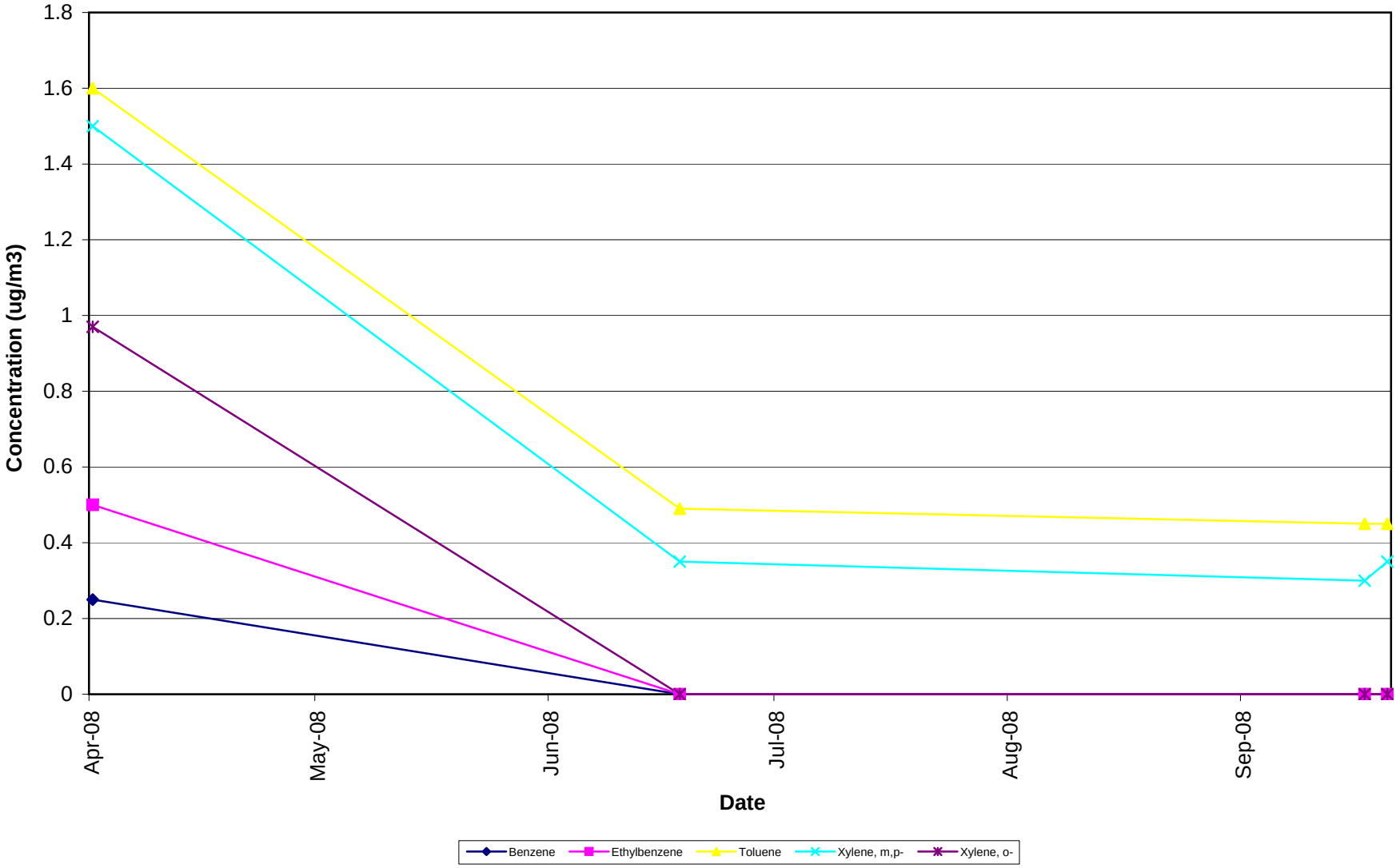
OU2SG17





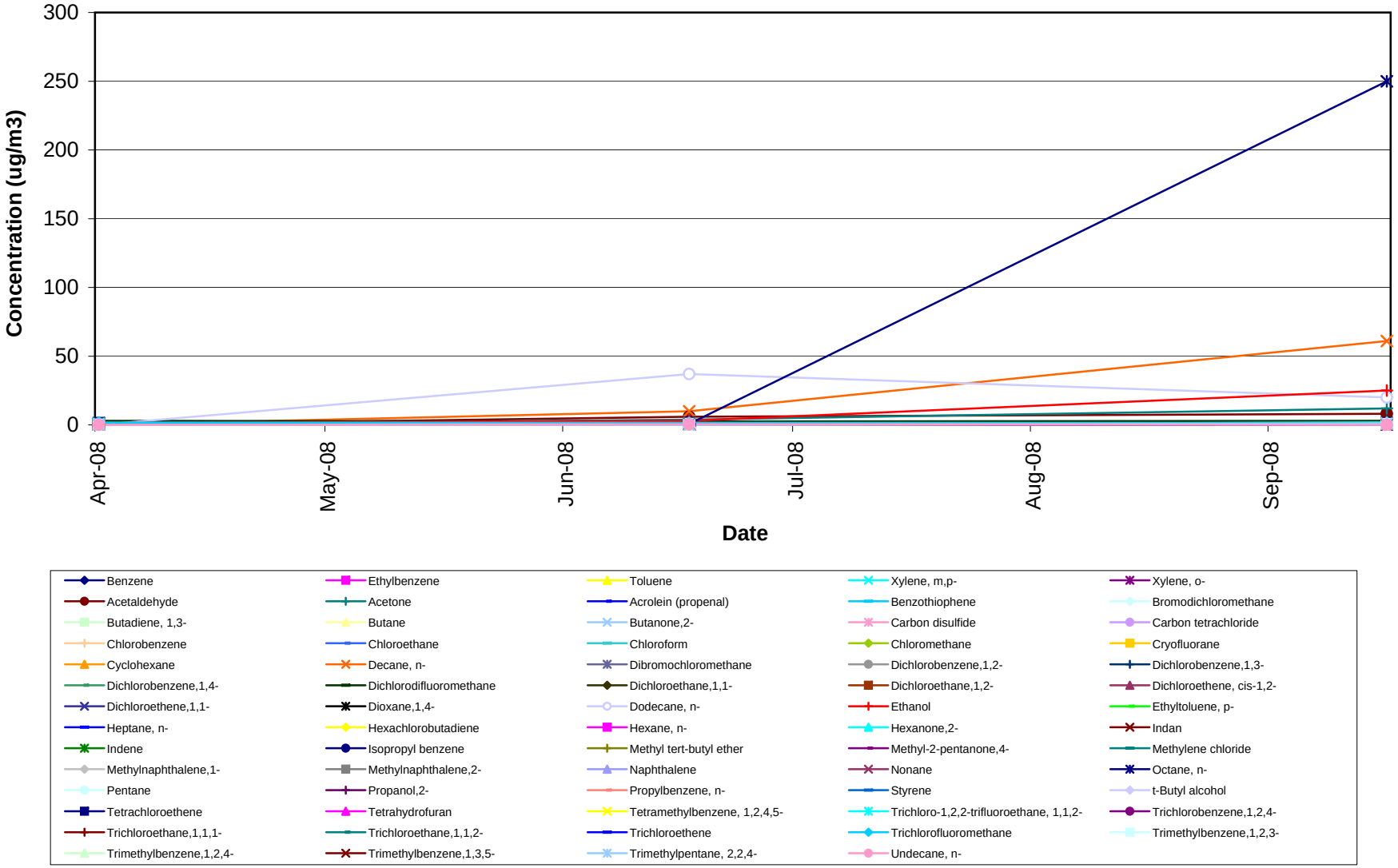
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG17 BTEX



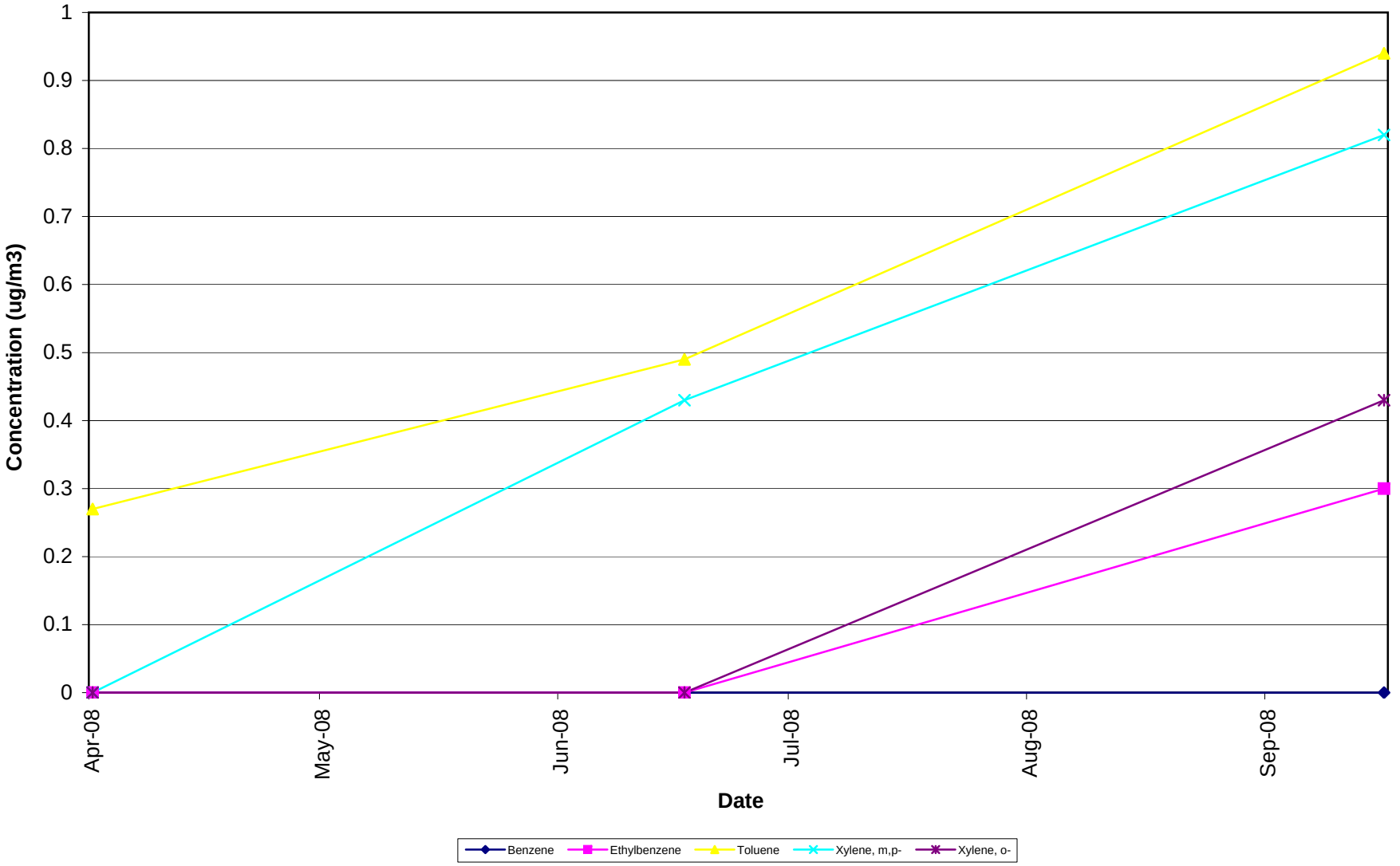
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG18



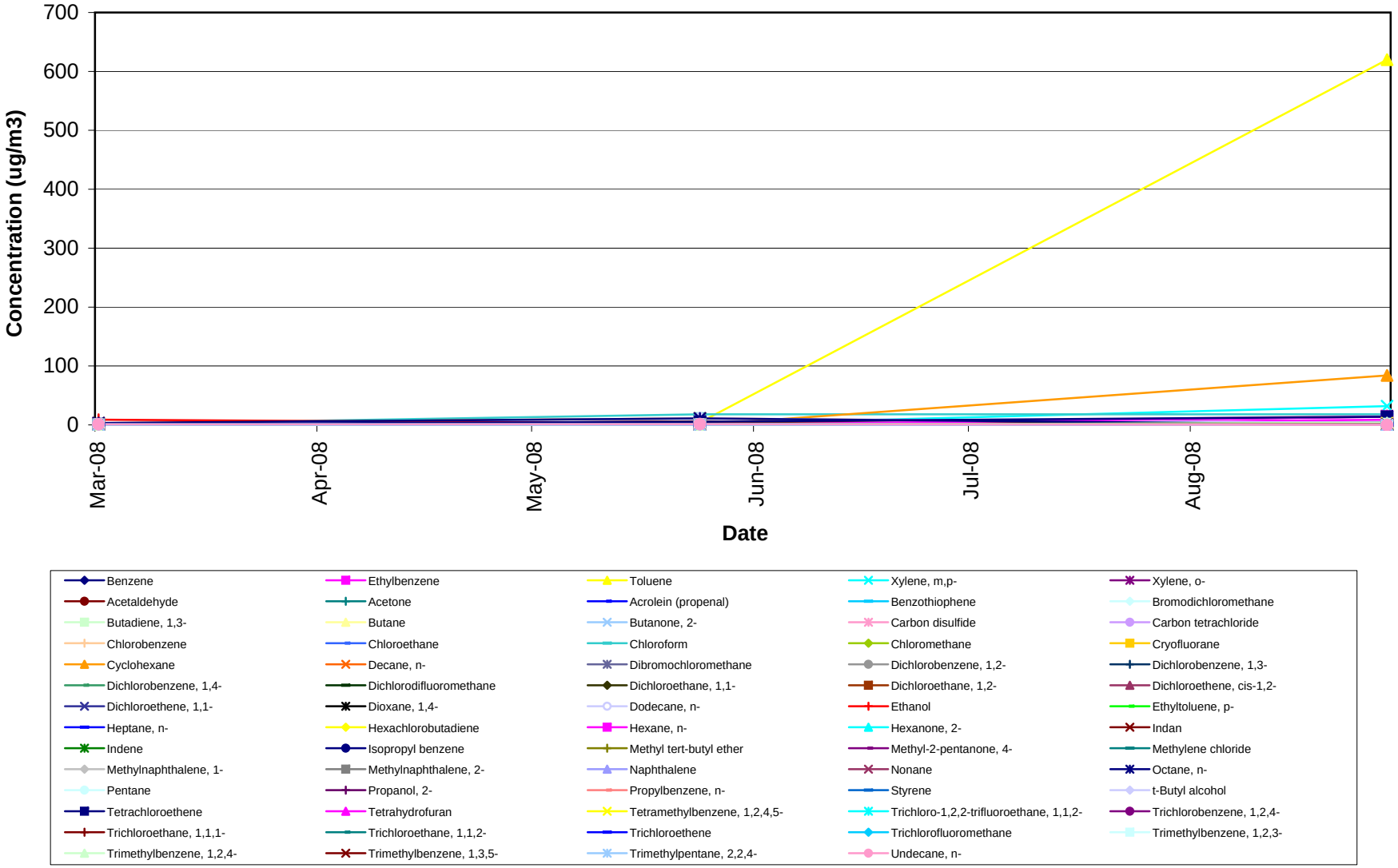
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG18 BTEX



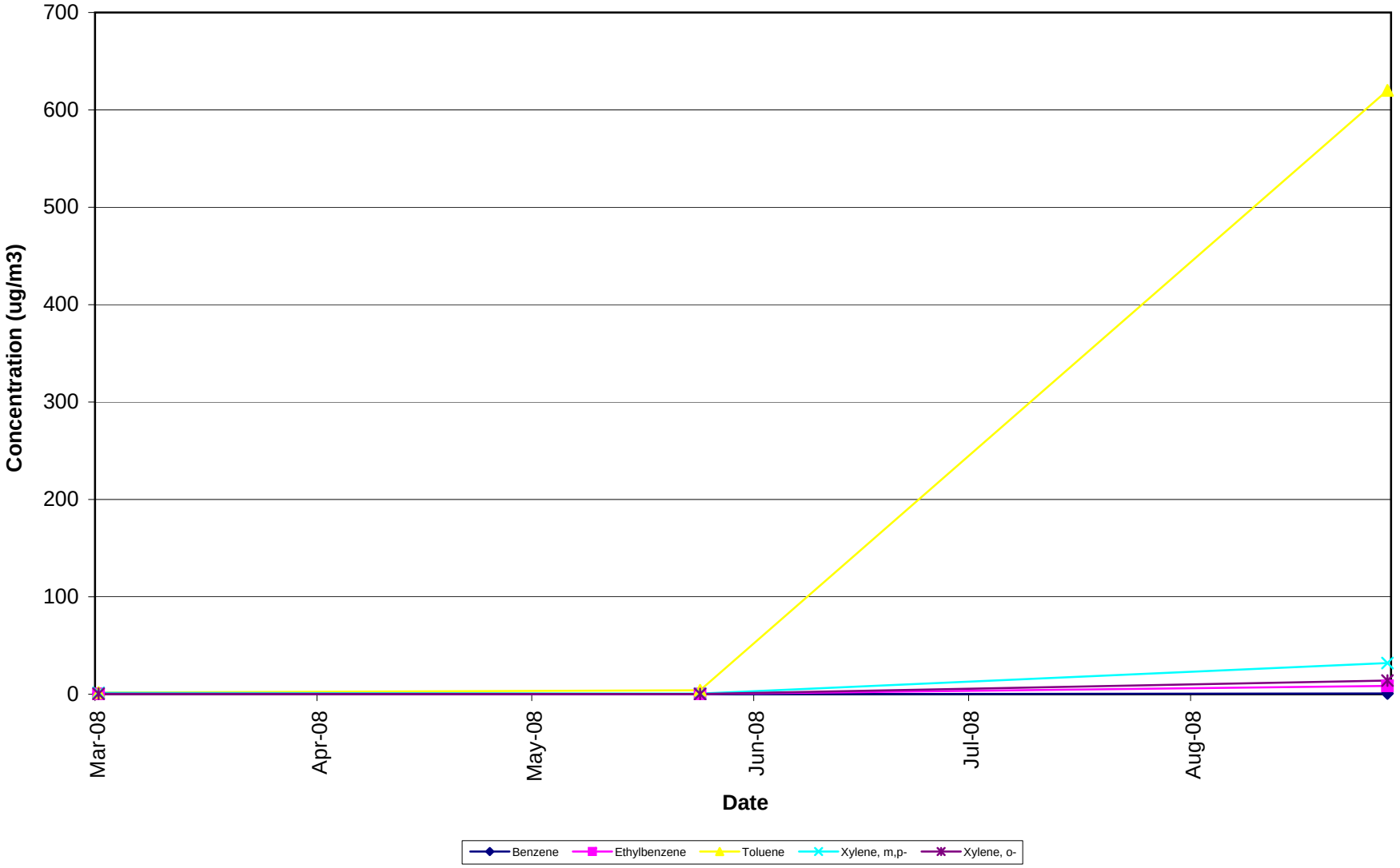
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG22



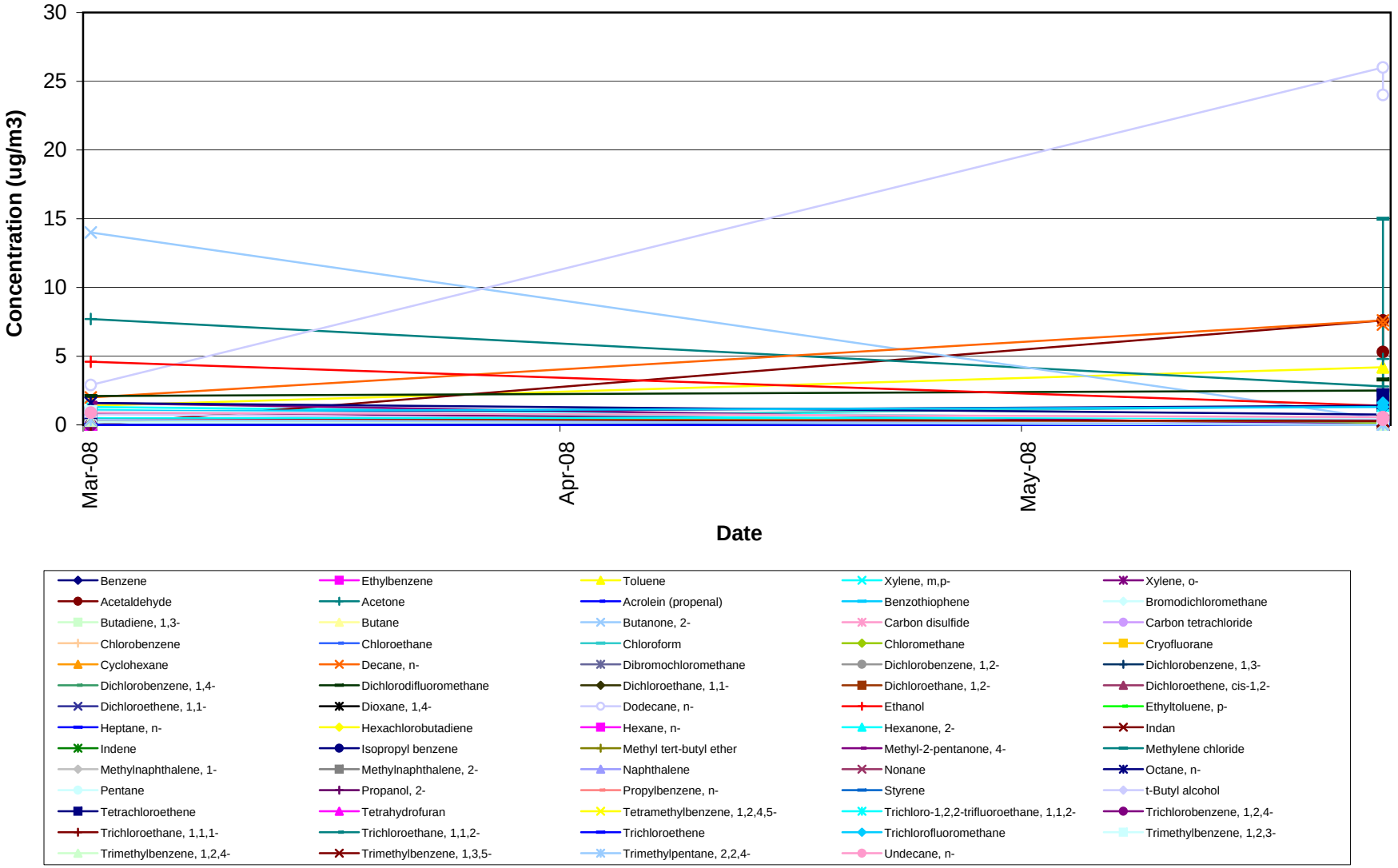
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG22 BTEX



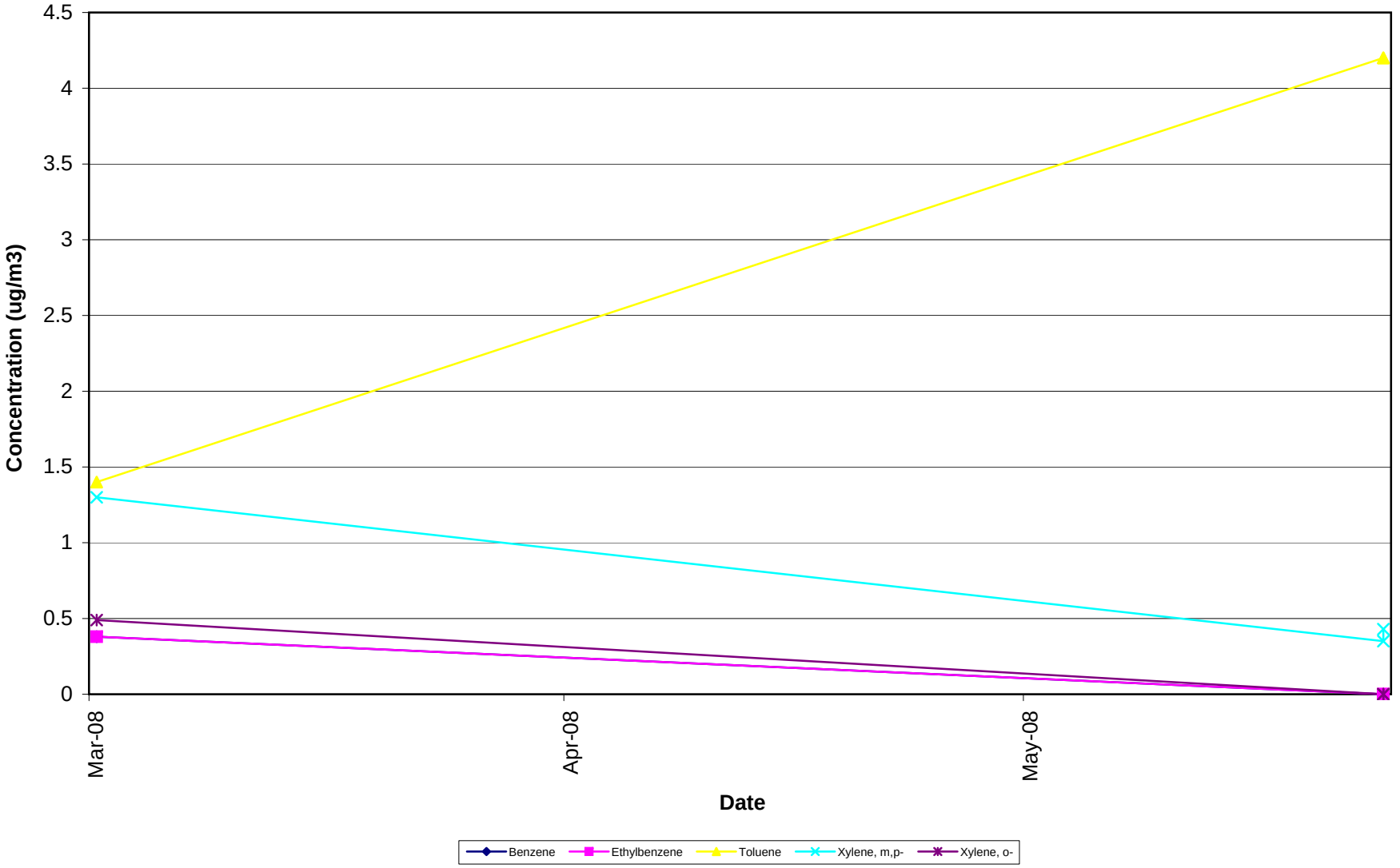
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG23



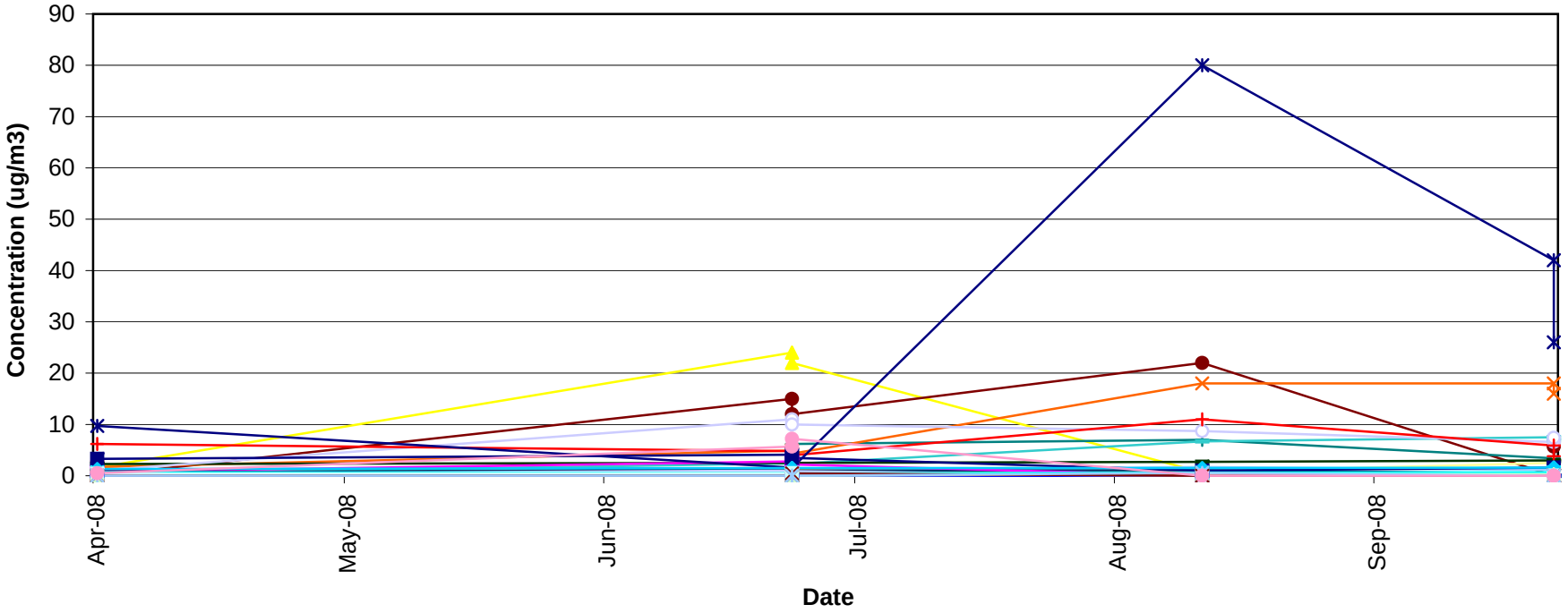
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG23 BTEX



Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

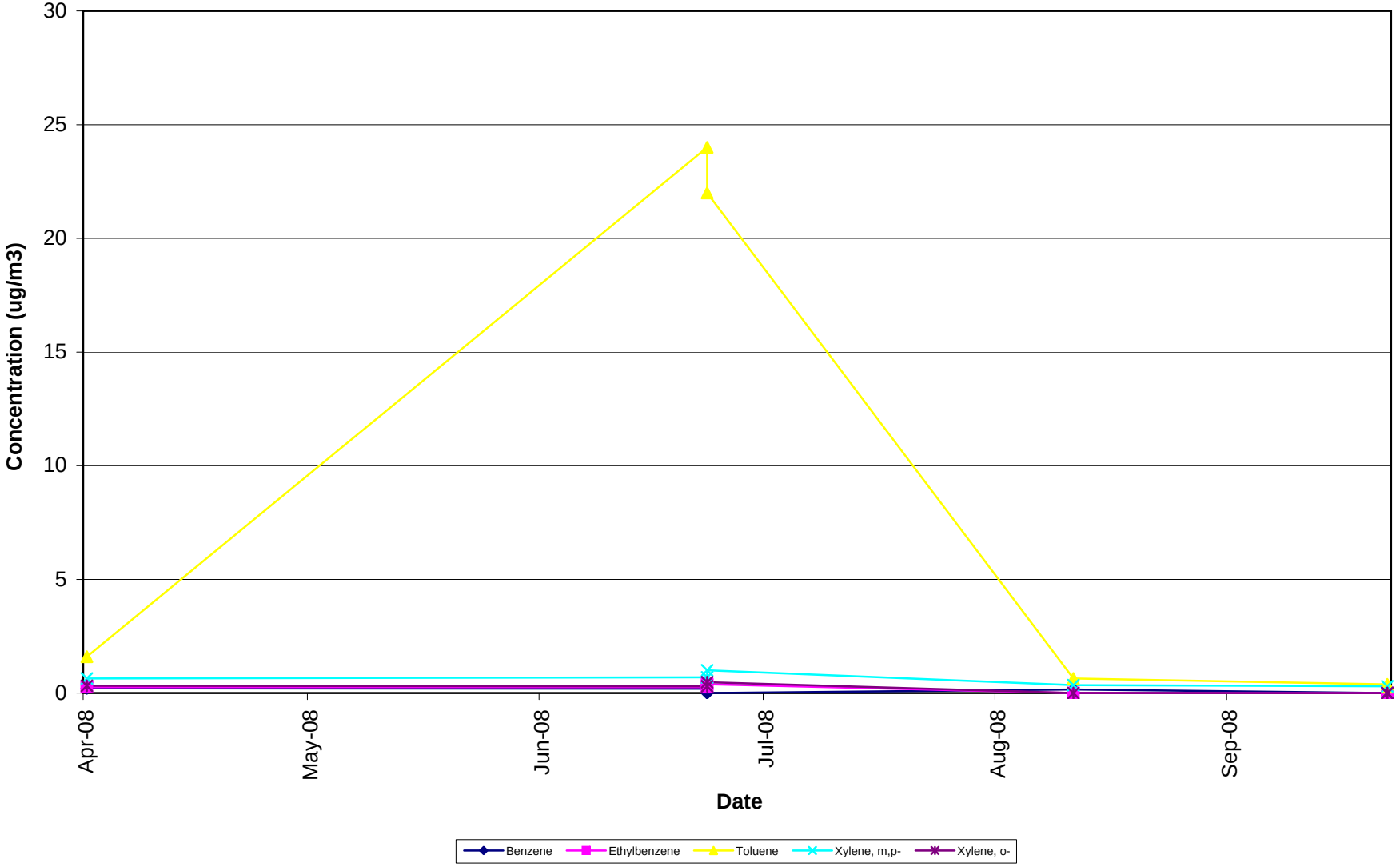
OU2SG24



Benzene	Ethylbenzene	Toluene	Xylene, m,p-	Xylene, o-
Acetaldehyde	Acetone	Acrolein (propenal)	Benzothiophene	Bromodichloromethane
Butadiene, 1,3-	Butane	Butanone, 2-	Carbon disulfide	Carbon tetrachloride
Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cryofluorane
Cyclohexane	Decane, n-	Dibromochloromethane	Dichlorobenzene, 1,2-	Dichlorobenzene, 1,3-
Dichlorobenzene, 1,4-	Dichlorodifluoromethane	Dichloroethane, 1,1-	Dichloroethane, 1,2-	Dichloroethene, cis-1,2-
Dichloroethene, 1,1-	Dioxane, 1,4-	Dodecane, n-	Ethanol	Ethyltoluene, p-
Heptane, n-	Hexachlorobutadiene	Hexane, n-	Hexanone, 2-	Indan
Indene	Isopropyl benzene	Methyl tert-butyl ether	Methyl-2-pentanone, 4-	Methylene chloride
Methylnaphthalene, 1-	Methylnaphthalene, 2-	Naphthalene	Nonane	Octane, n-
Pentane	Propanol, 2-	Propylbenzene, n-	Styrene	t-Butyl alcohol
Tetrachloroethene	Tetrahydrofuran	Tetramethylbenzene, 1,2,4,5-	Trichloro-1,2,2-trifluoroethane, 1,1,2-	Trichlorobenzene, 1,2,4-
Trichloroethane, 1,1,1-	Trichloroethane, 1,1,2-	Trichloroethene	Trichlorofluoromethane	Trimethylbenzene, 1,2,3-
Trimethylbenzene, 1,2,4-	Trimethylbenzene, 1,3,5-	Trimethylpentane, 2,2,4-	Undecane, n-	

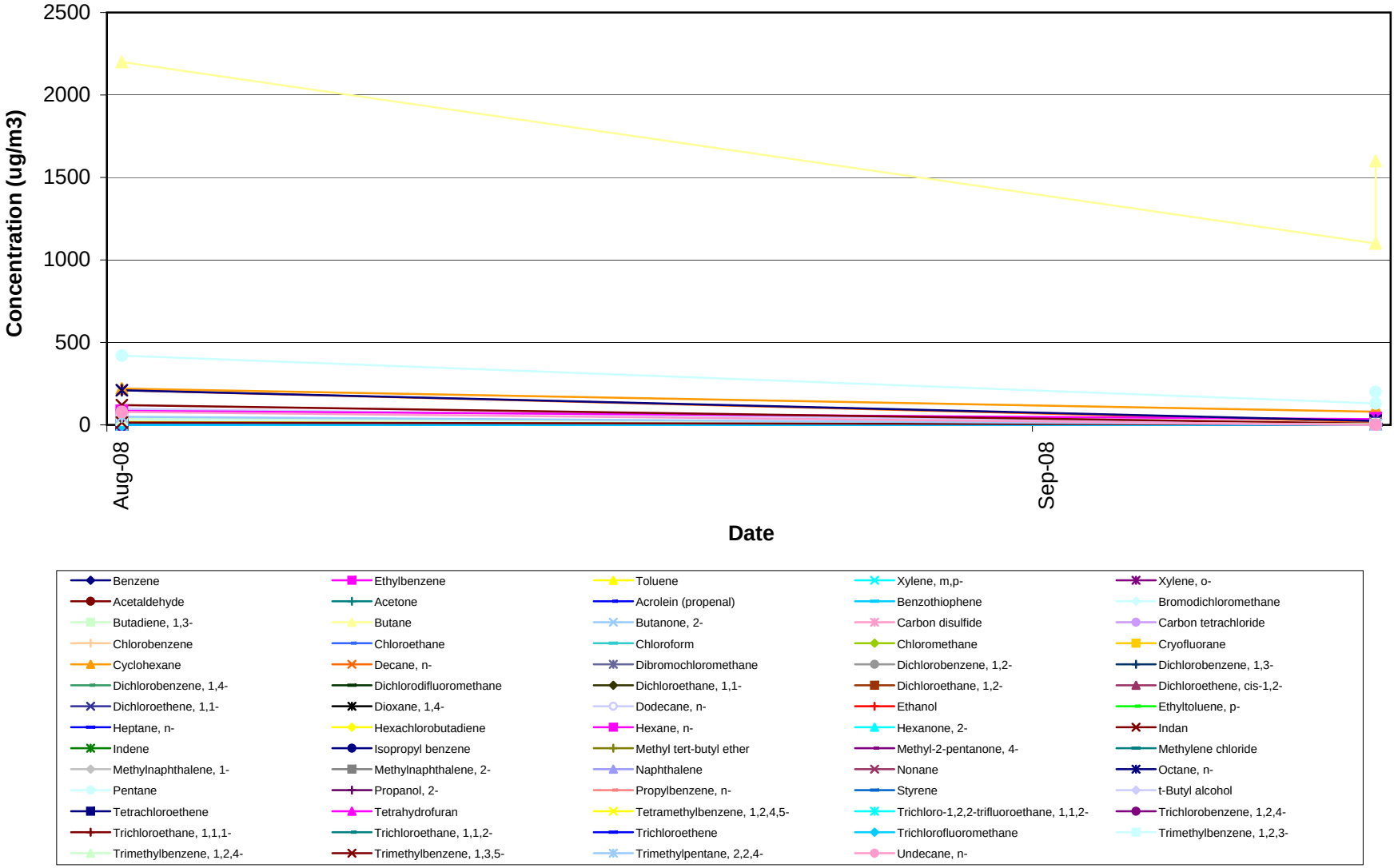
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG24 BTEX



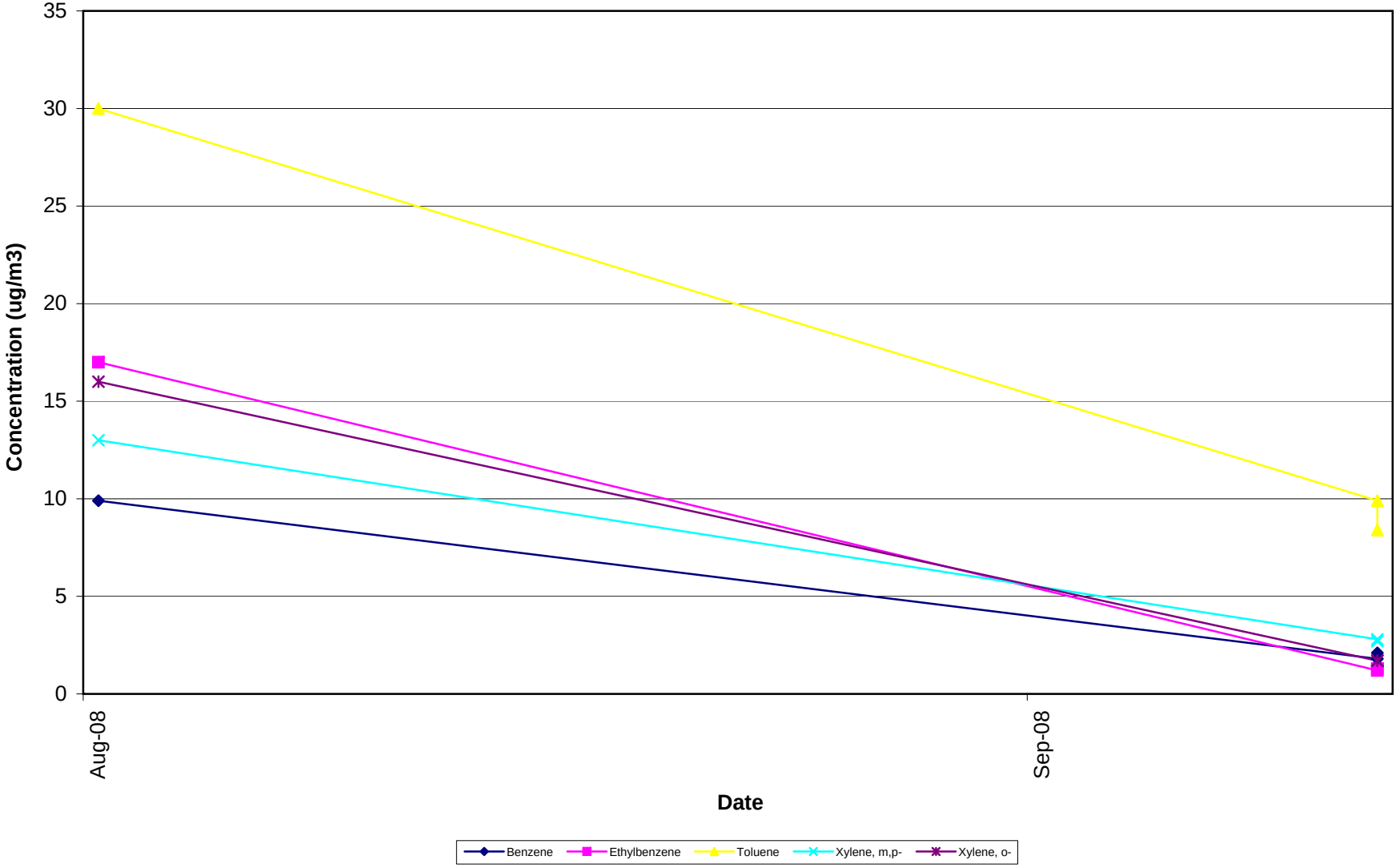
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG25



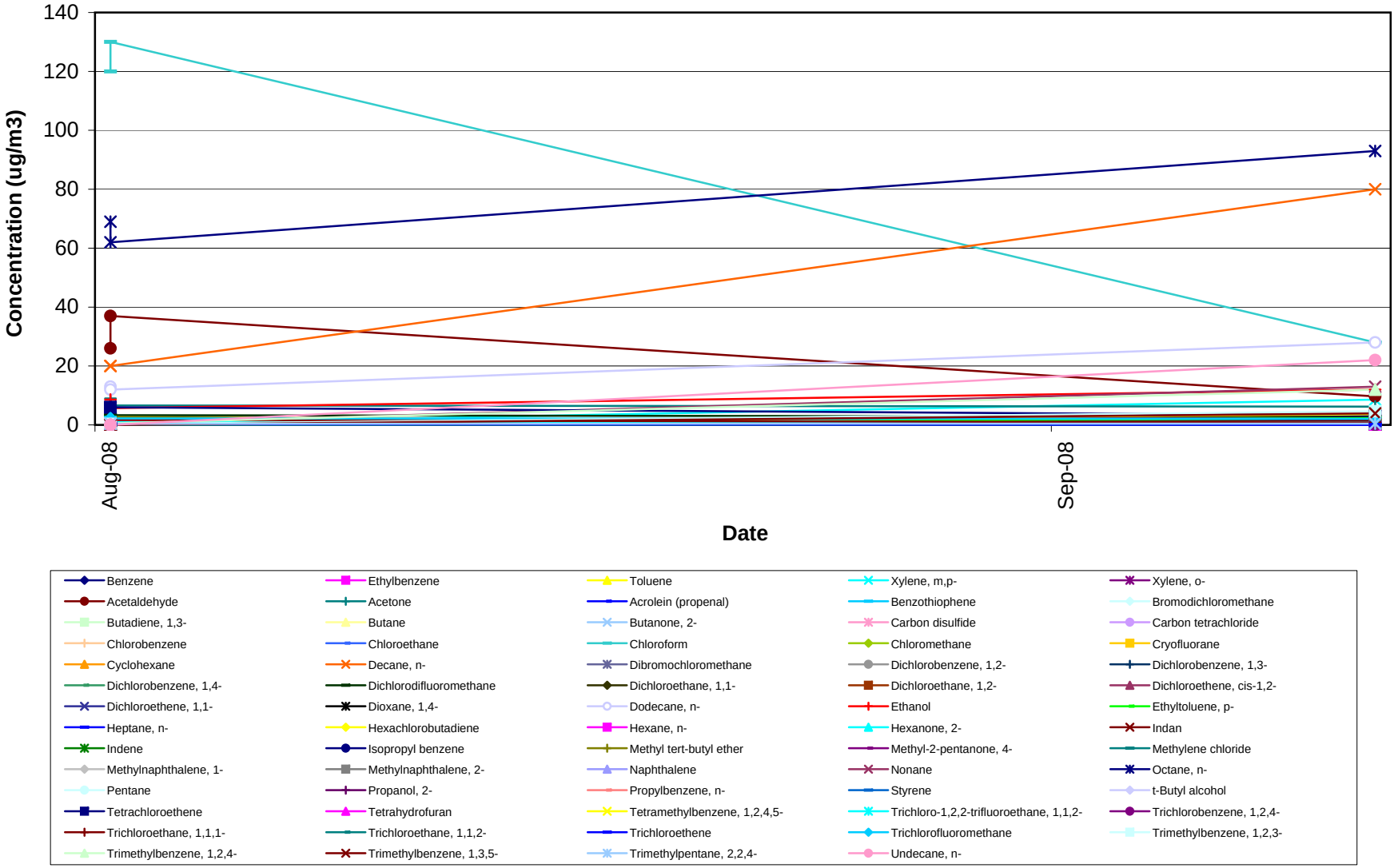
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG25 BTEX



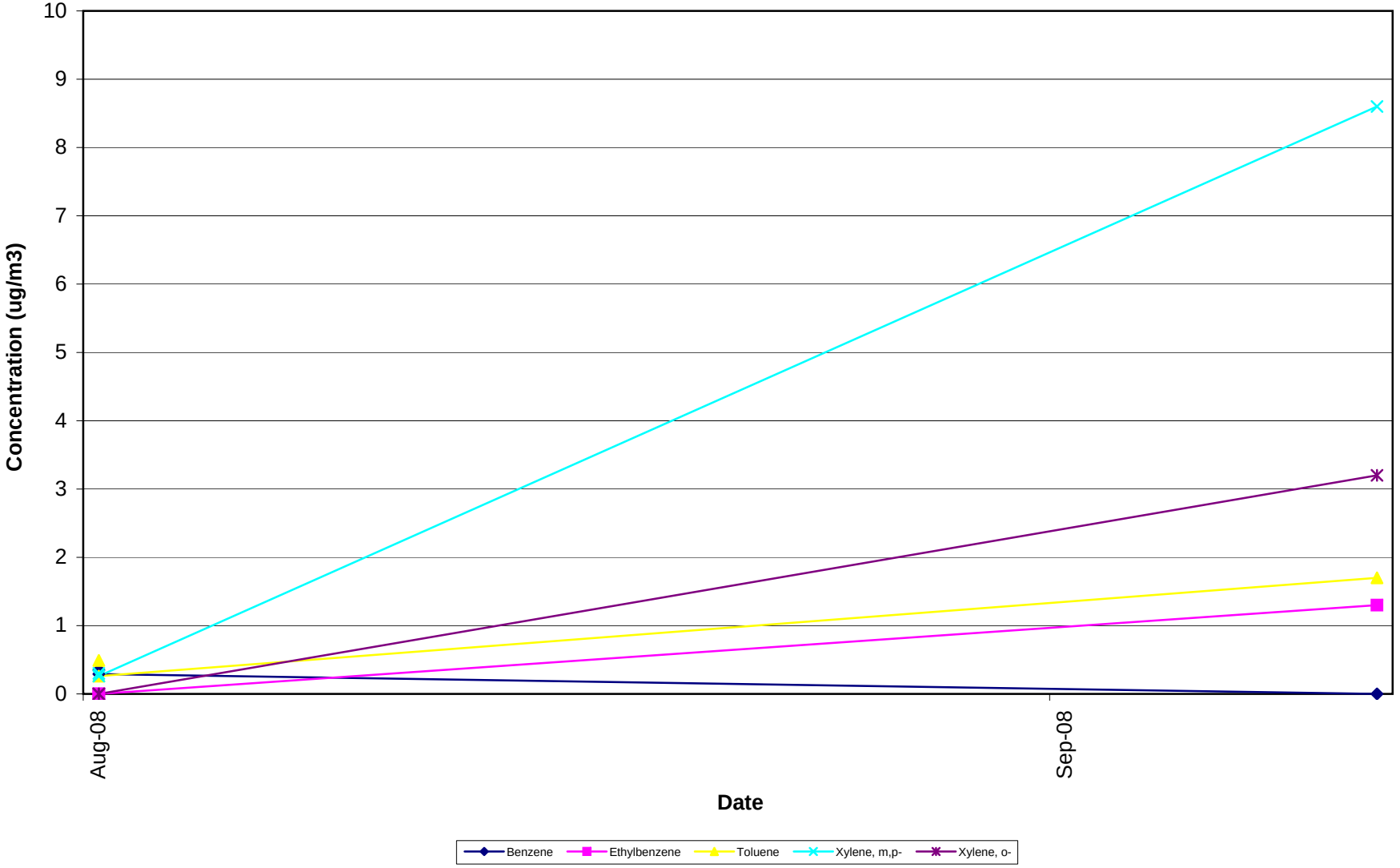
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG26



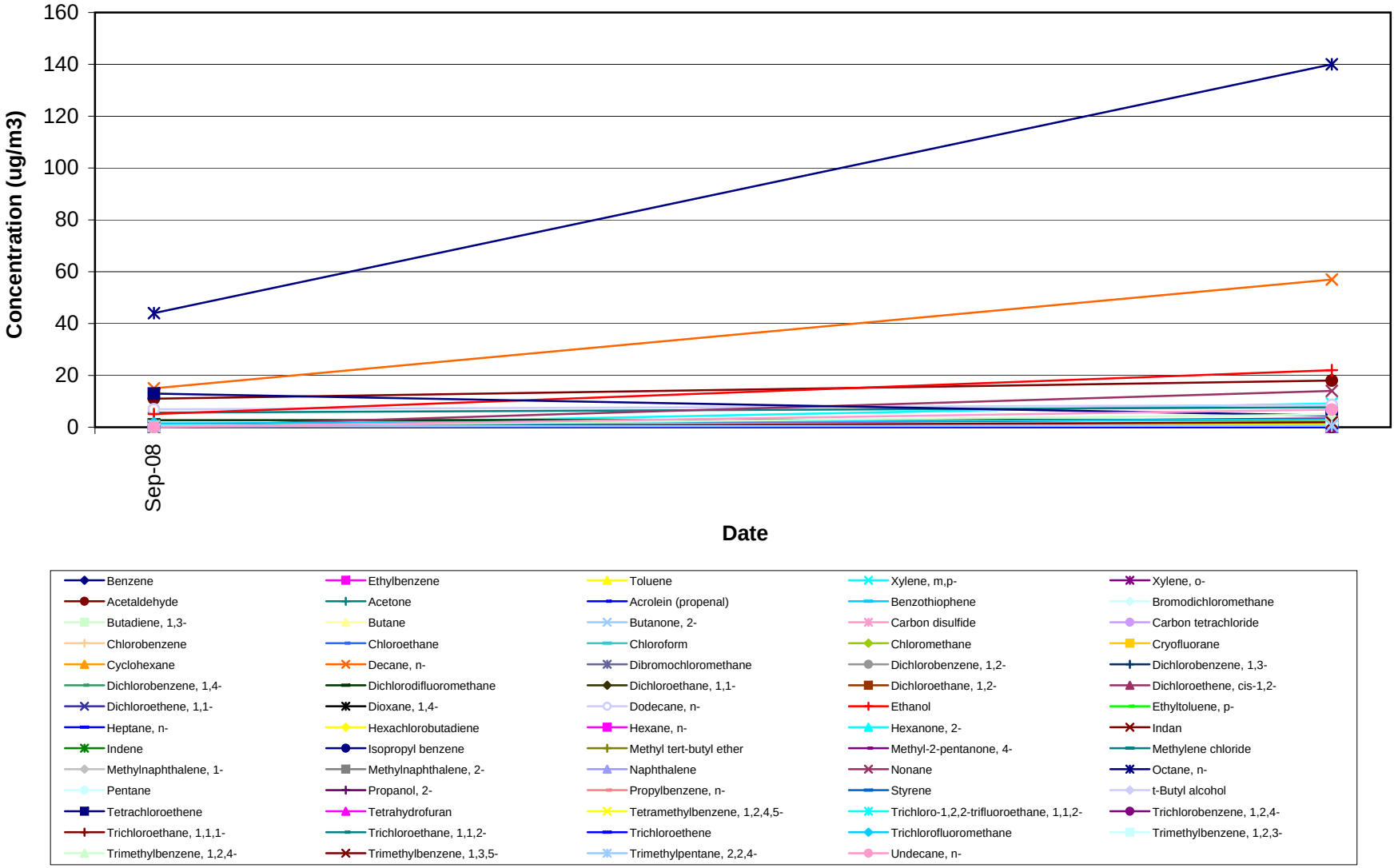
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG26 BTEX



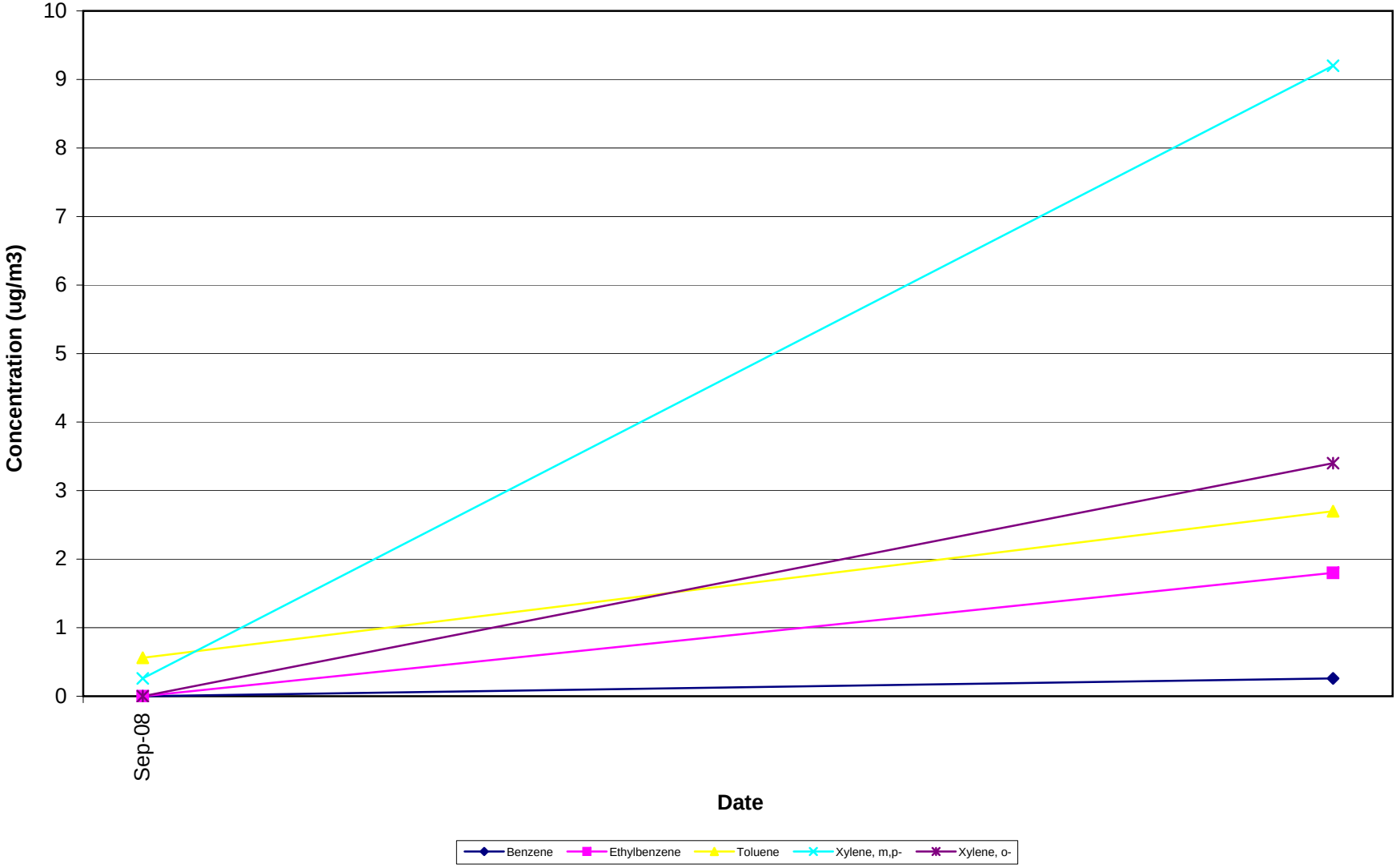
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG29



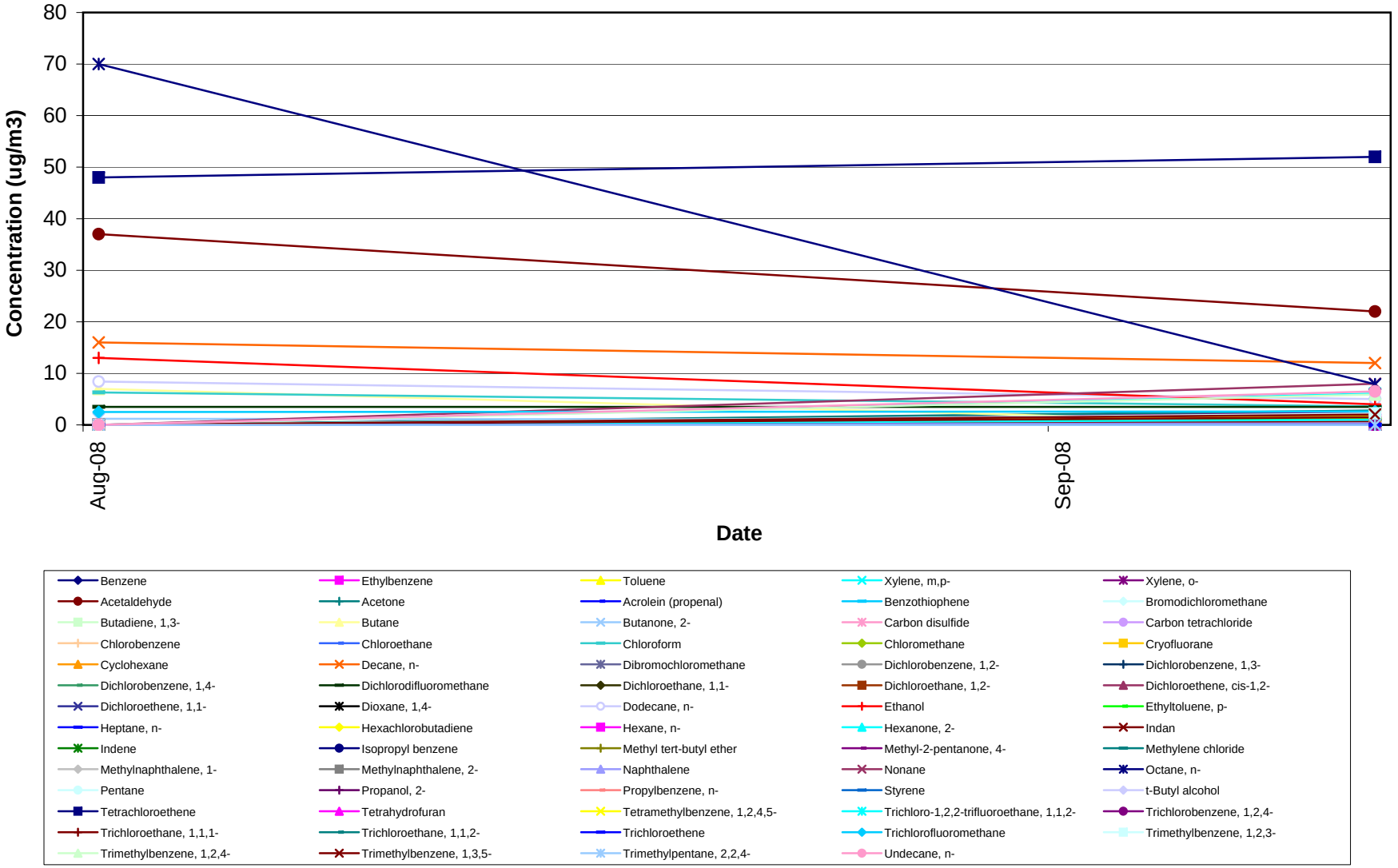
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG29 BTEX



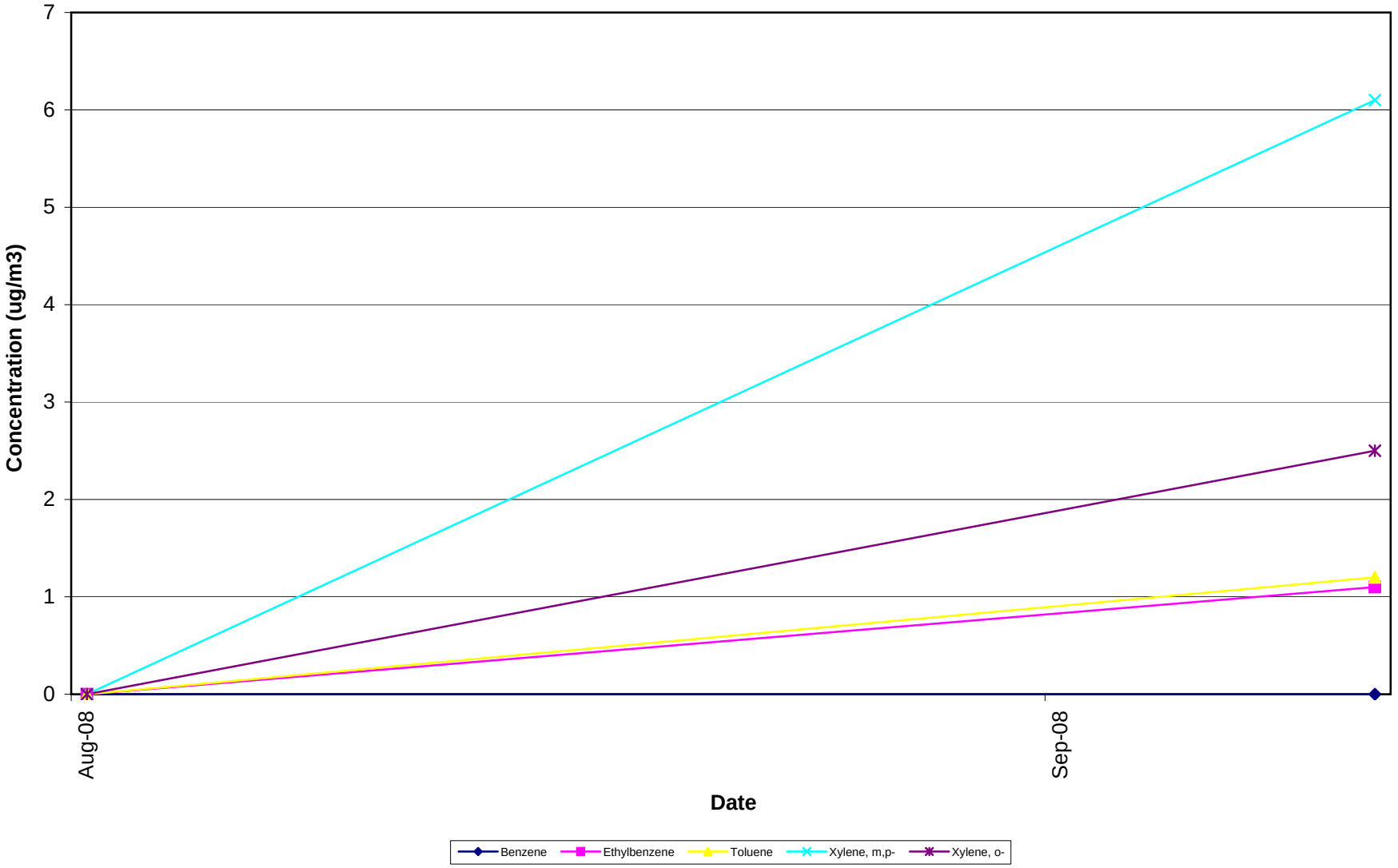
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG30



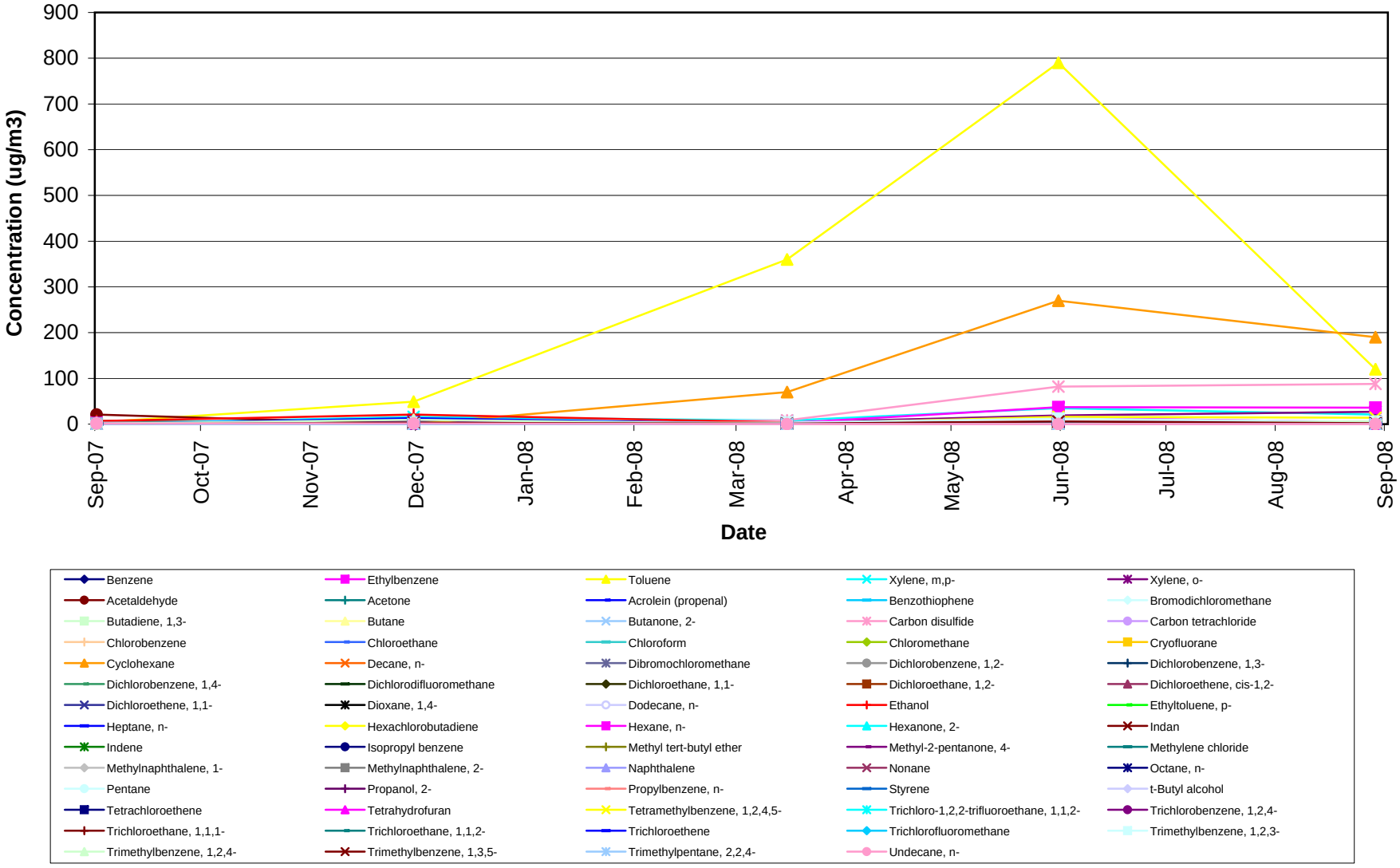
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU2SG30 BTEX



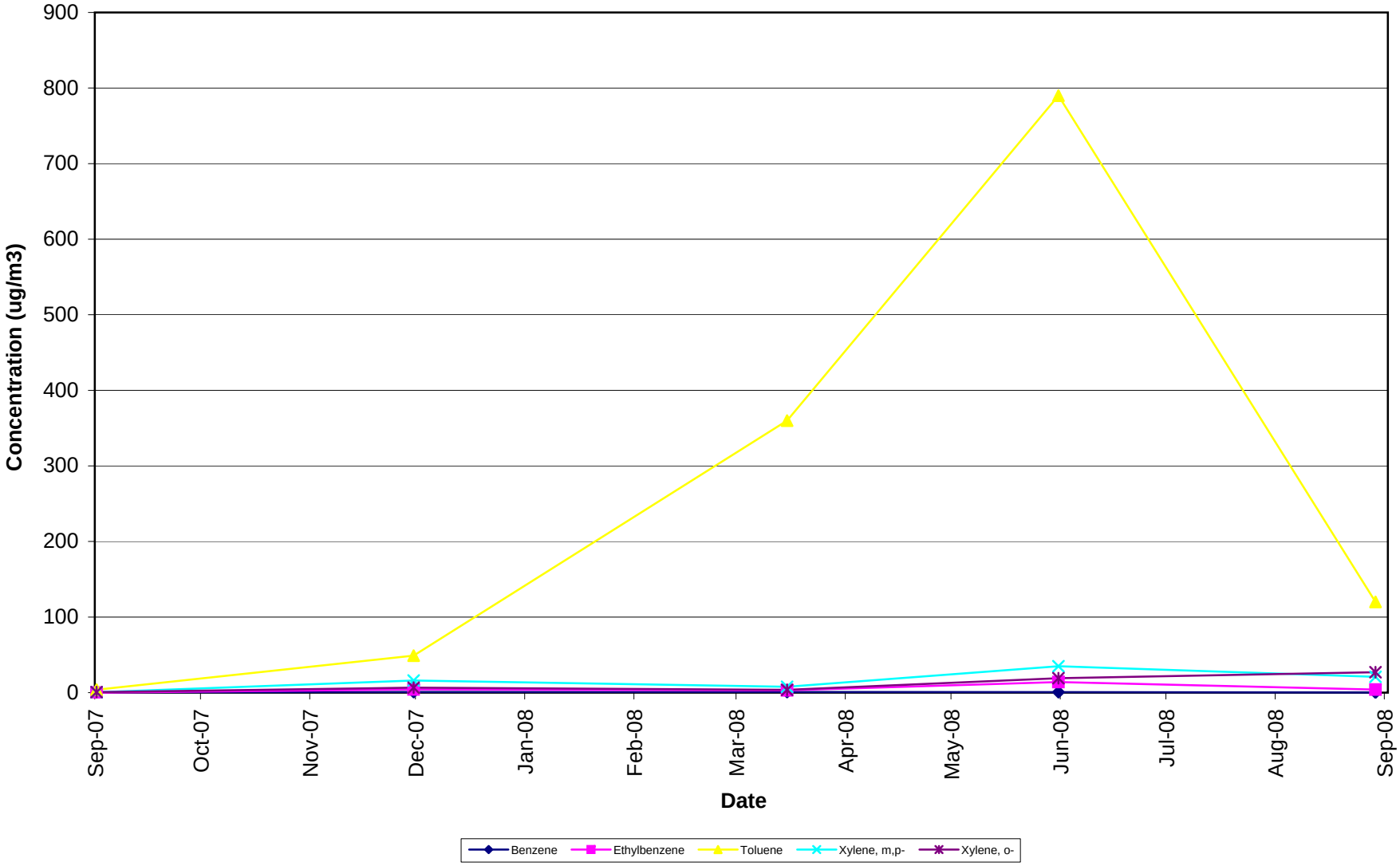
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 1
Bay Shore/Brightwaters Former MGP Site

OZSG01



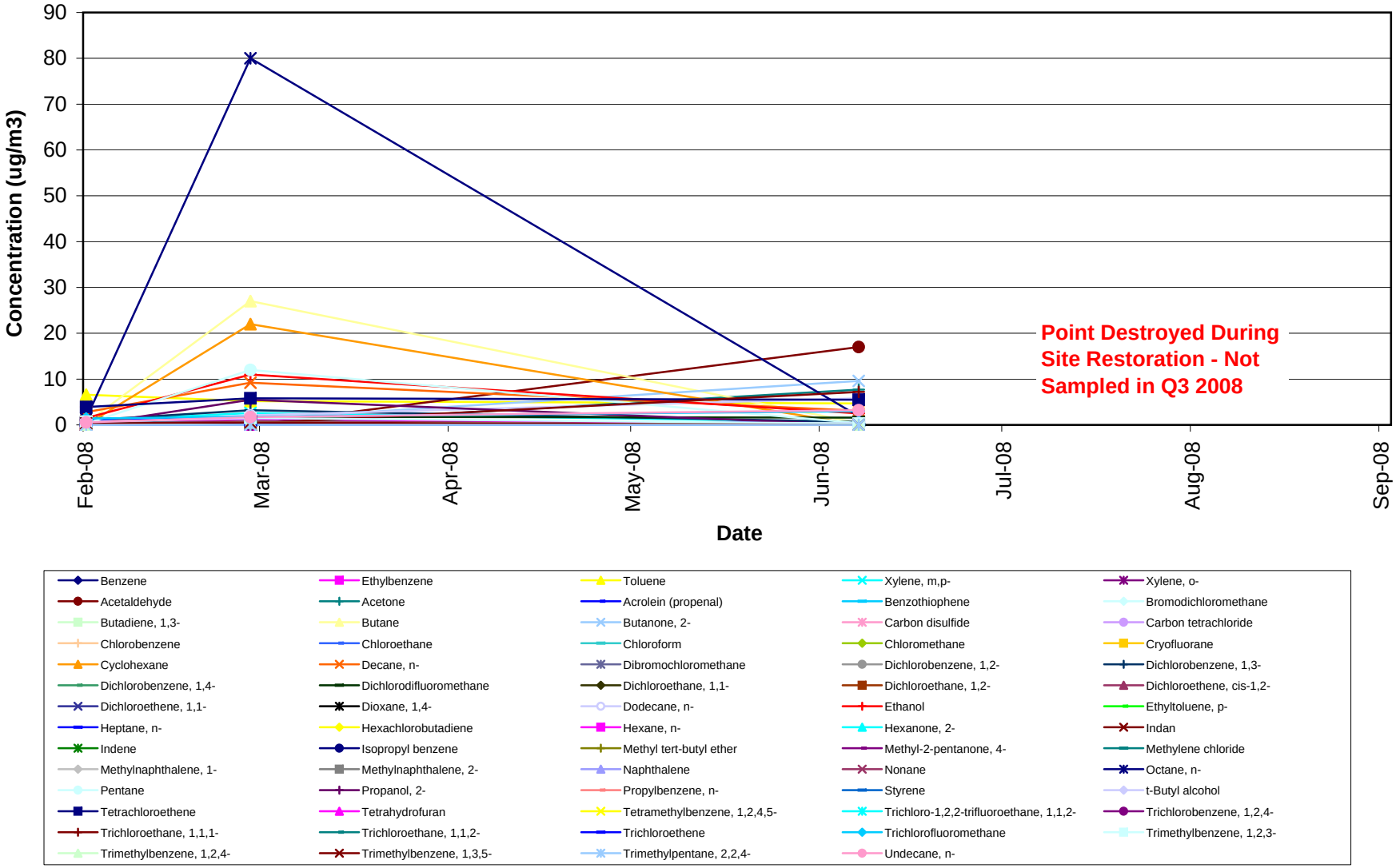
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 1
Bay Shore/Brightwaters Former MGP Site

OZSG01 BTEX



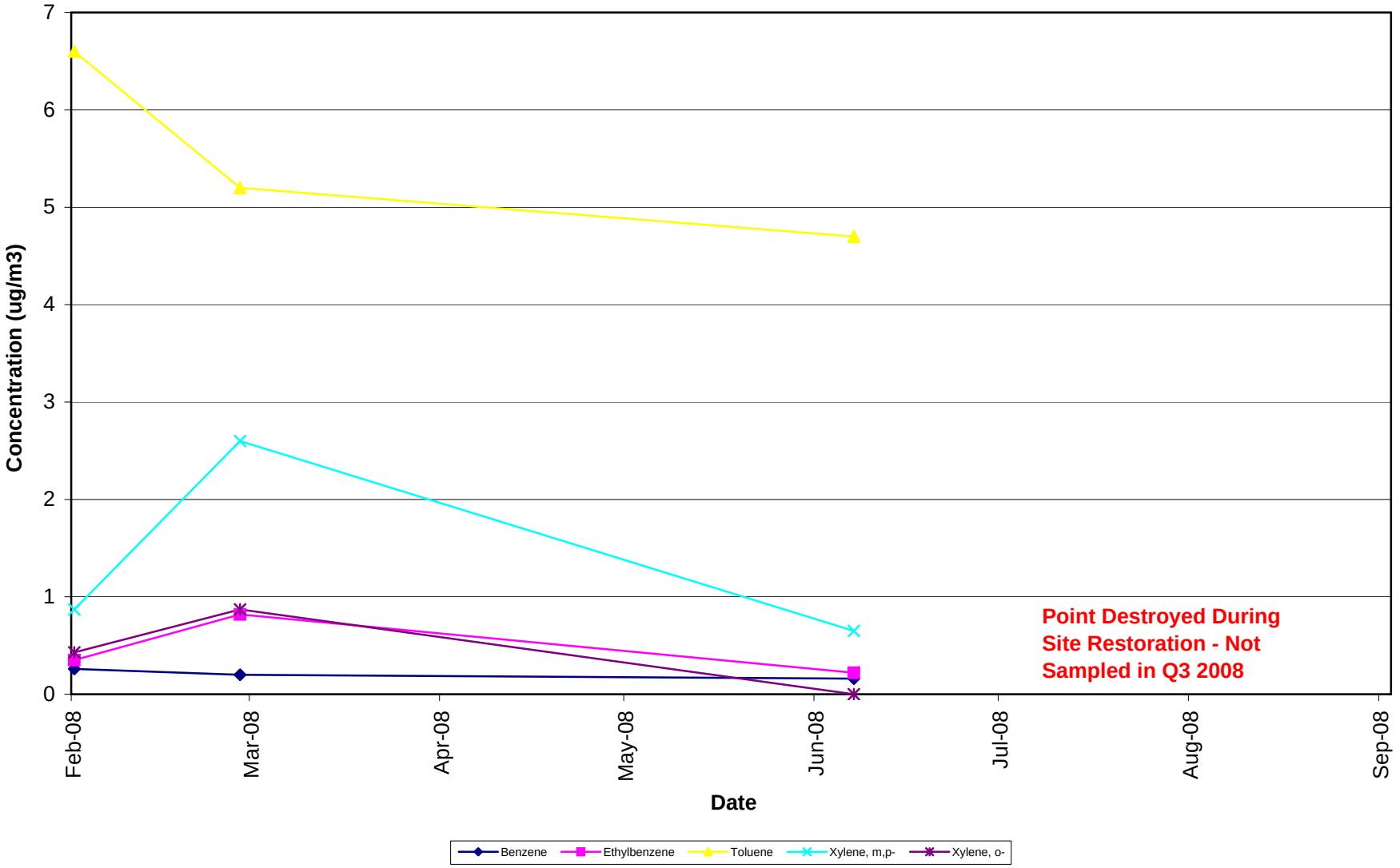
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 1
Bay Shore/Brightwaters Former MGP Site

OZSG02



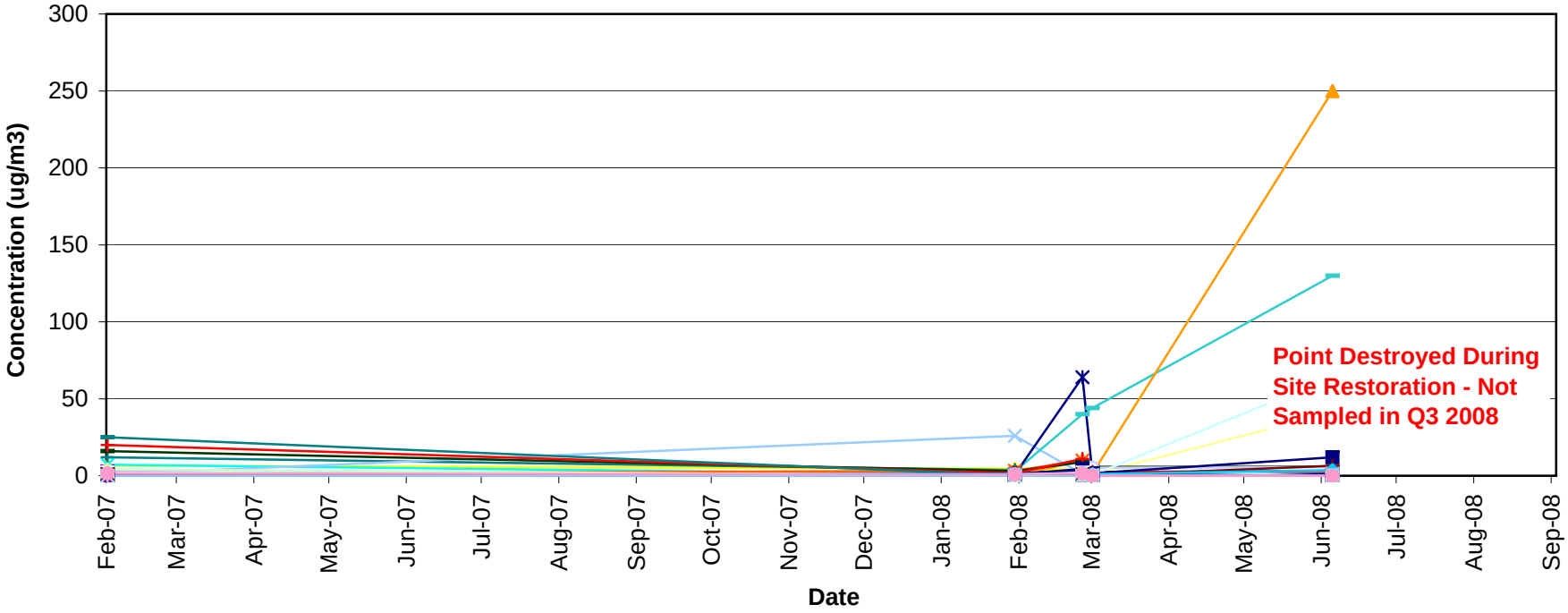
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 1
Bay Shore/Brightwaters Former MGP Site

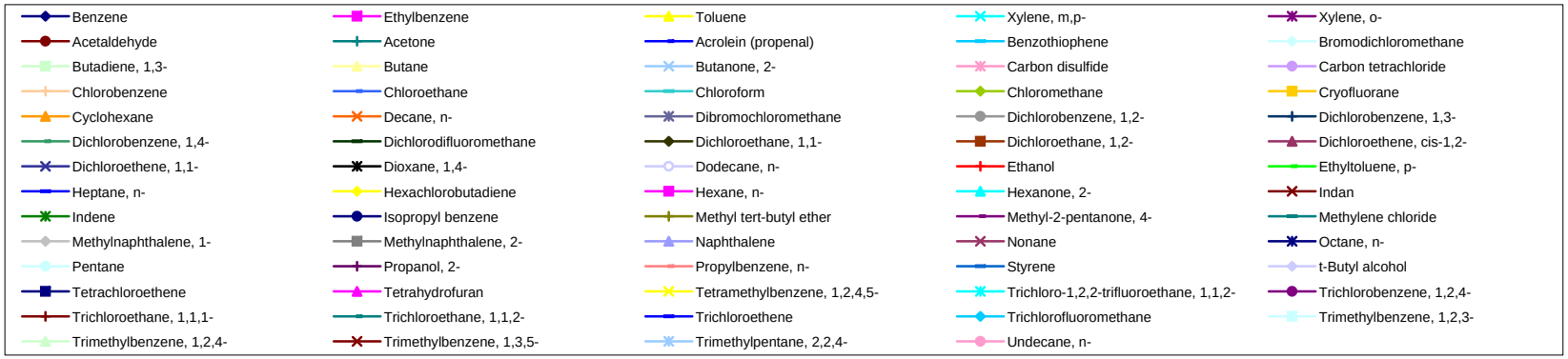
OZSG02 BTEX



Appendix D
Soil Vapor Analytical Results
Operable Unit No. 1
Bay Shore/Brightwaters Former MGP Site

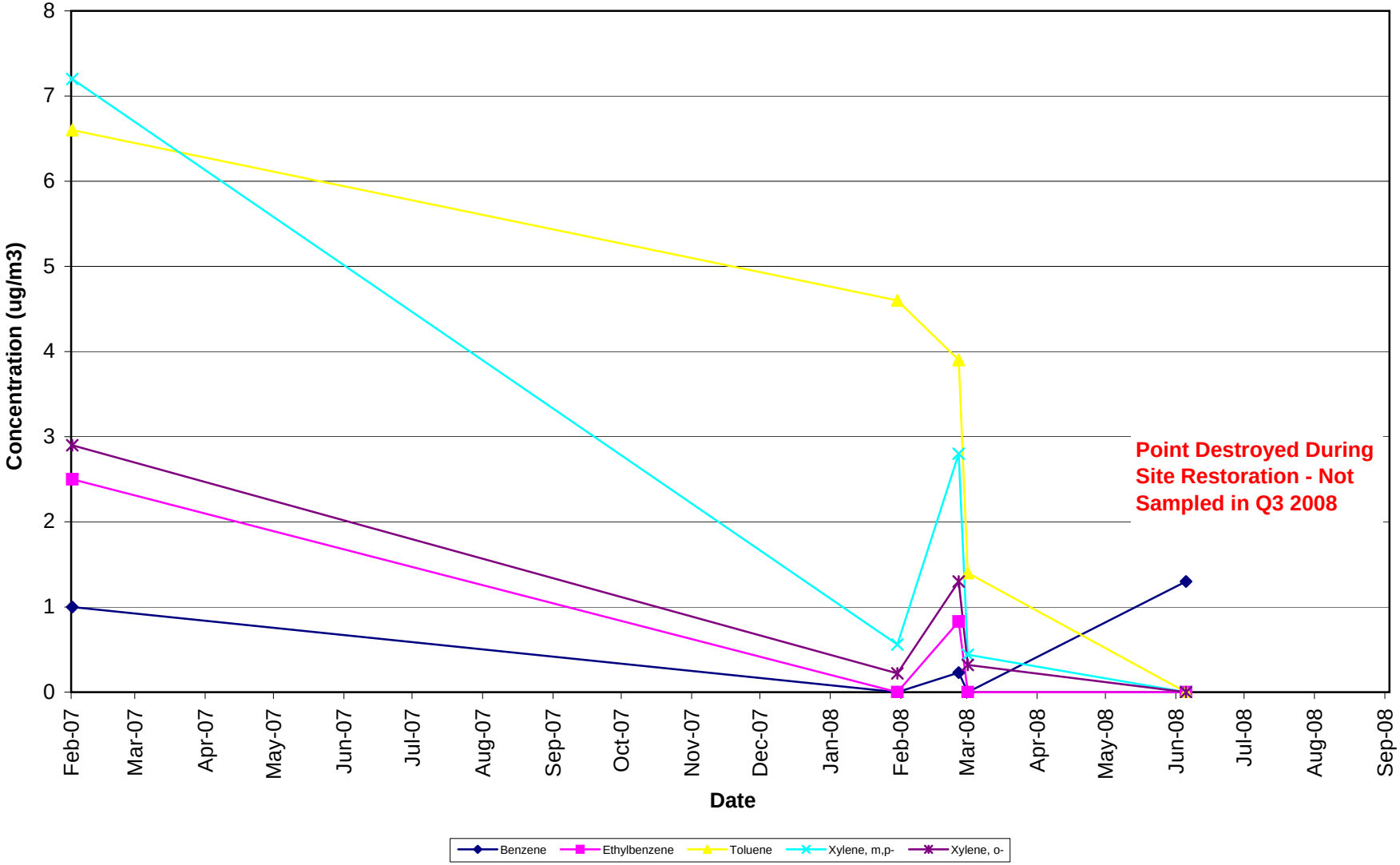
OZSG03





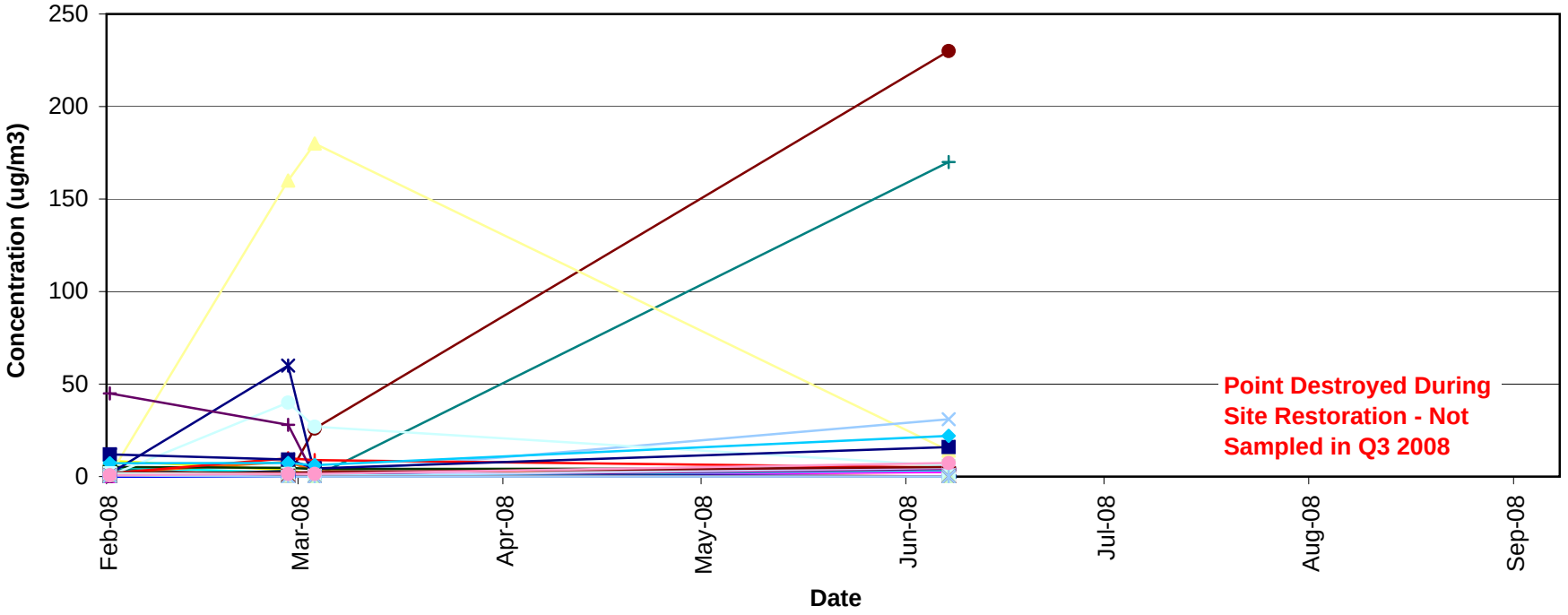
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 1
Bay Shore/Brightwaters Former MGP Site

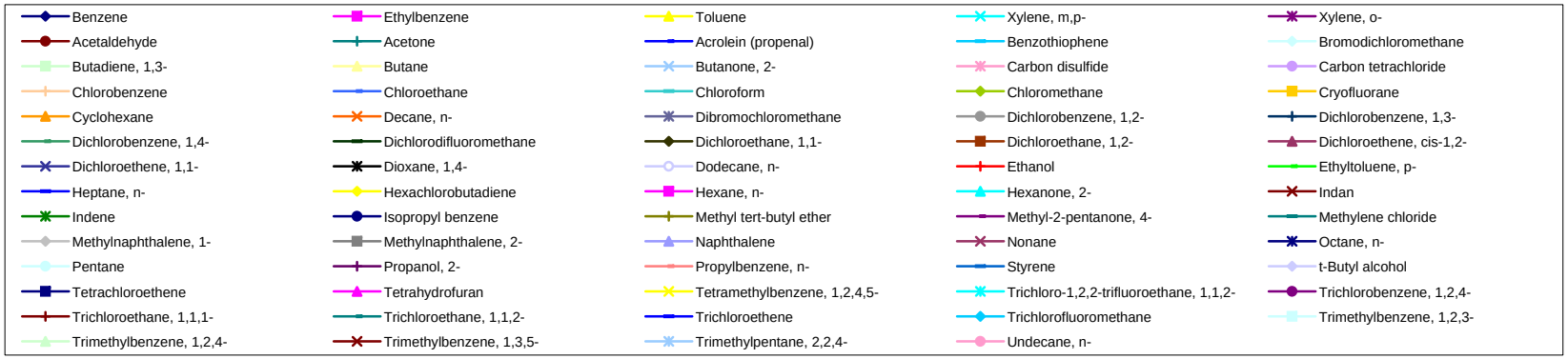
OZSG03 BTEX



Appendix D
Soil Vapor Analytical Results
Operable Unit No. 1
Bay Shore/Brightwaters Former MGP Site

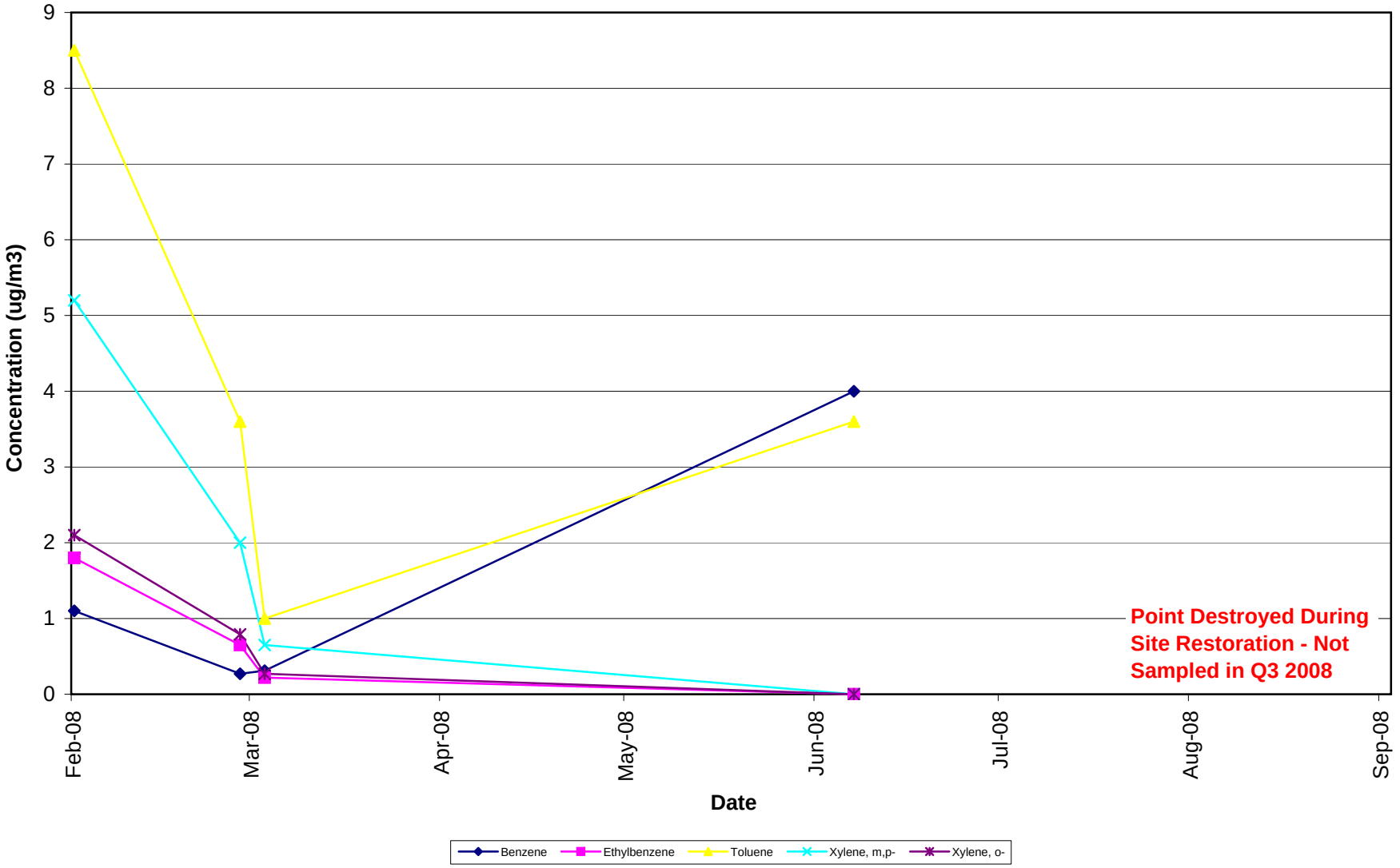
OZSG04





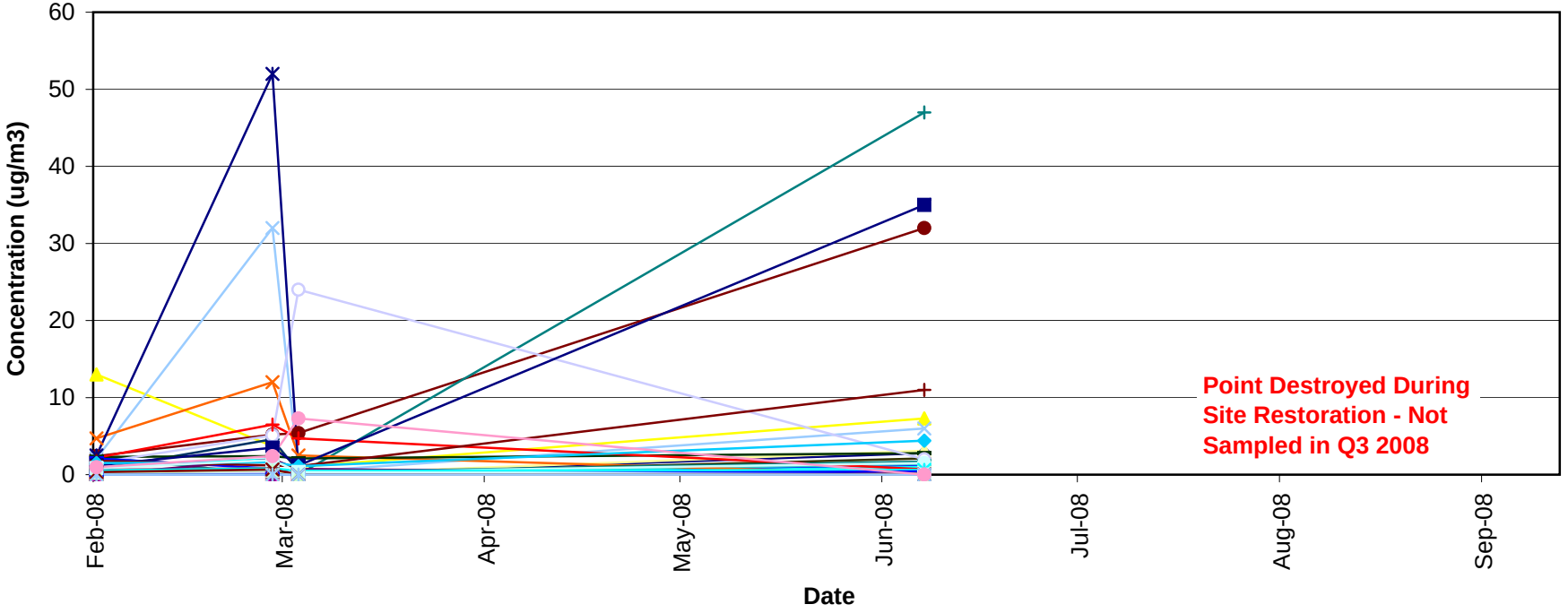
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 1
Bay Shore/Brightwaters Former MGP Site

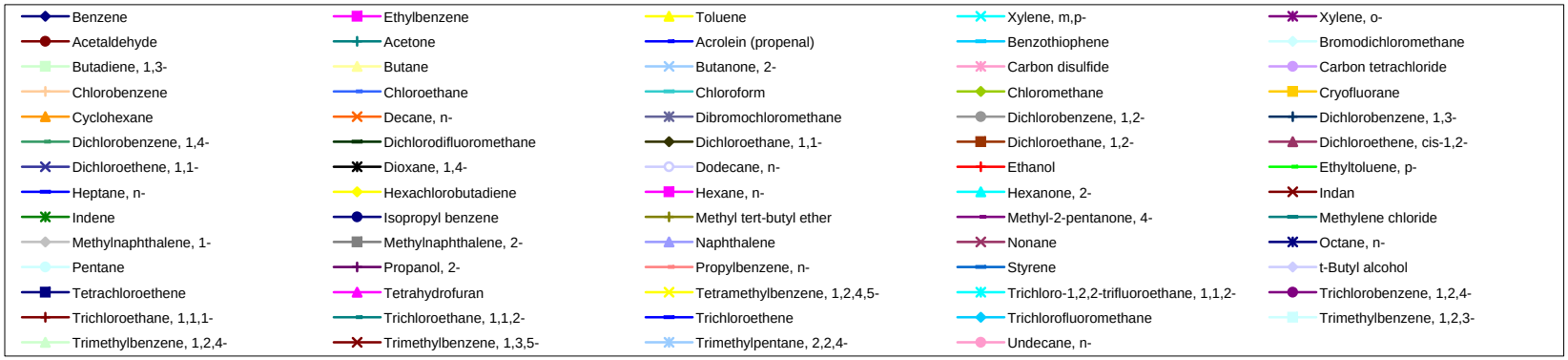
OZSG04 BTEX



Appendix D
Soil Vapor Analytical Results
Operable Unit No. 1
Bay Shore/Brightwaters Former MGP Site

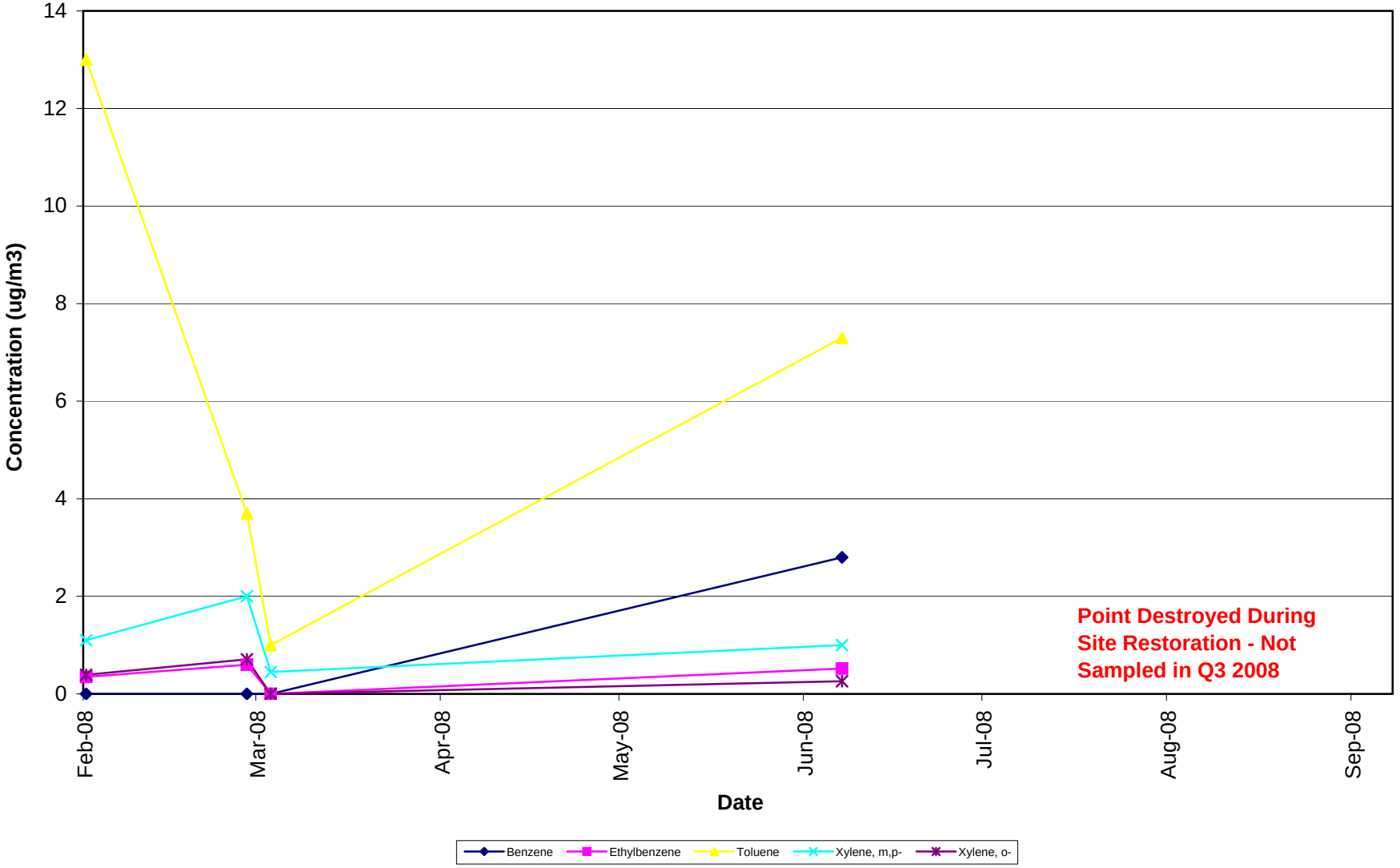
OZSG05





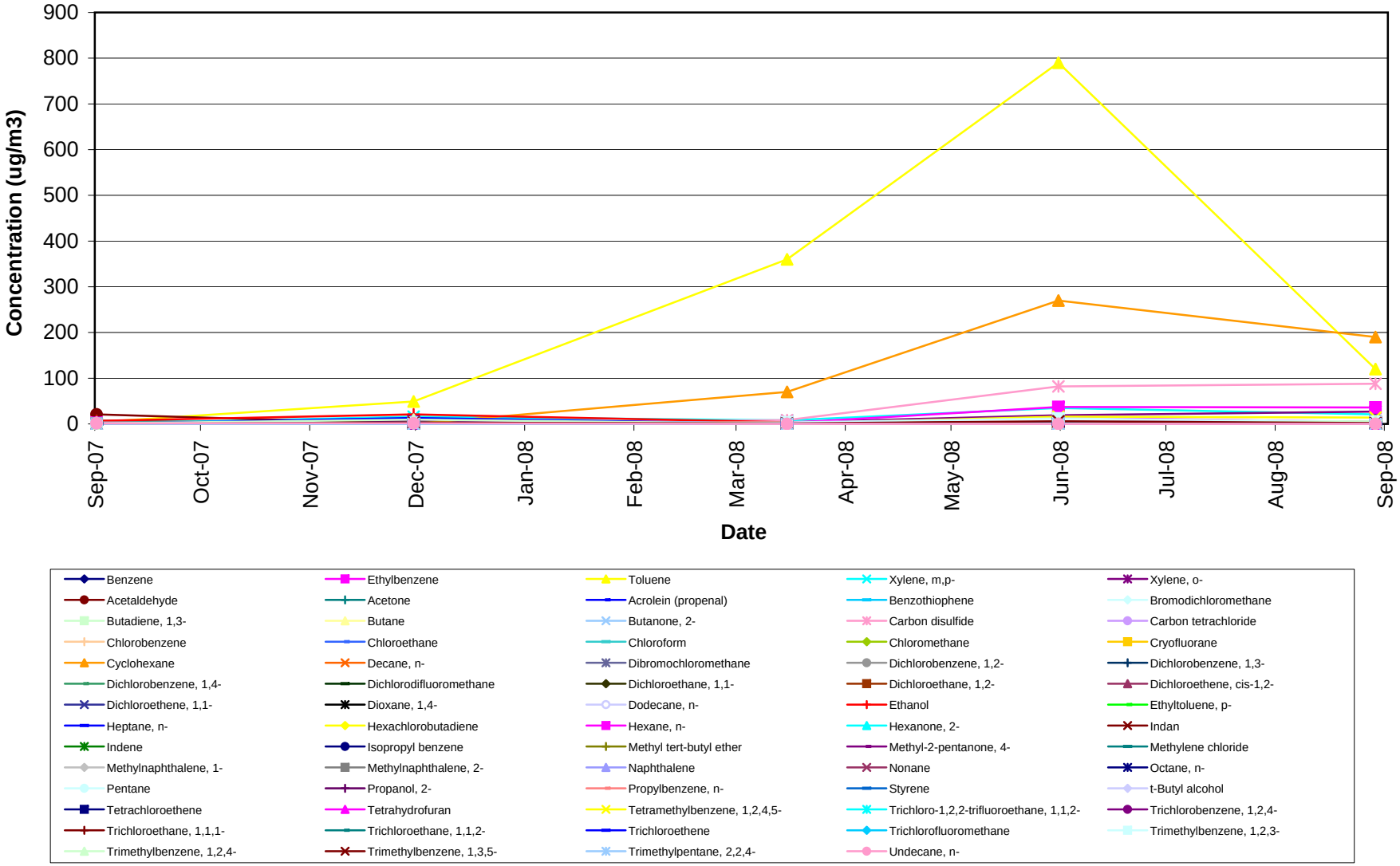
Appendix D
Soil Vapor Analytical Results
Operable Unit No. 1
Bay Shore/Brightwaters Former MGP Site

OZSG05 BTEX



Appendix D
Soil Vapor Analytical Results
Operable Unit No. 3
Bay Shore/Brightwaters Former MGP Site

OU3SG01



Appendix D
Soil Vapor Analytical Results
Operable Unit No. 2
Bay Shore/Brightwaters Former MGP Site

OU3SG01 BTEX