

March 31, 2009

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Re: Bay Shore/Brightwaters Former MGP Site  
Quarterly Operations, Maintenance & Monitoring Program  
Q4 2008 Report

Dear Mr. Omorogbe:

Enclosed, please find one (1) hardcopy and one (1) electronic copy on compact disc (CD) of the following report:

*“Bay Shore/Brightwaters Former MGP Site  
Quarterly Operations, Maintenance & Monitoring Report  
Fourth Quarter (Q4) 2008”*

By copy of this letter, the above-referenced document has also been forwarded to the parties named below.

If you have any questions, feel free to contact me at (516) 545-2586.

Sincerely,

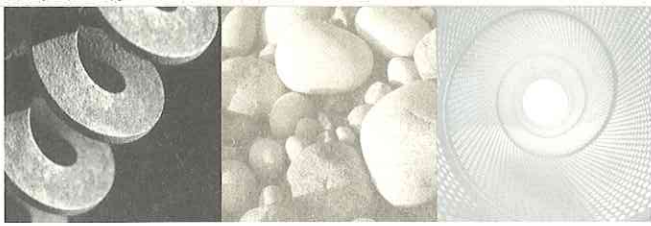


William J. Ryan  
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Enclosures

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A. Juchatz, SCDEE  
R. Paulsen, SCDHS  
T. Leissing, NGRID

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Quarterly Operations, Maintenance & Monitoring Report  
Fourth Quarter (Q4) 2008

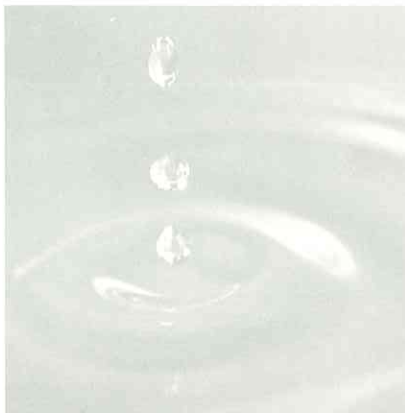
## Bay Shore/Brightwaters Former MGP Site

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

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# 1. Introduction

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This report presents the fourth quarter 2008 (Q4 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 liquid (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 the LIRR tracks (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: Three additional groundwater treatment systems utilizing oxygen injection technology were installed within the OU-2 groundwater plume in 2008. System start-up is scheduled for Q1 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-3 Storm Sewer Rehabilitation IRM: Sections of the storm water collection network located within OU-3 were rehabilitated in Q4 2008. This included the replacement of catch basins and the cured in-place lining of drainage piping that is located within the OU-3 groundwater plume.

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

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### 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 in-between recovery operations enables the DNAPL to settle into a discrete layer which is then for more efficient recovery.

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

#### 2.1.2 Current Site Activity

The following DNAPL recovery and non-aqueous phase liquid (NAPL) monitoring events occurred during Q4 2008.

- **DNAPL Recovery:** The DNAPL recovery system in BBRW-02 was operated on the following dates:
  - October 2, 2008 – DNAPL Recovery, Scheduled Operation 49
  - October 24, 2008 – DNAPL Recovery, Scheduled Operation 50
  - November 21, 2008 – DNAPL Recovery, Scheduled Operation 51
  - December 23, 2008 – DNAPL Recovery, Scheduled Operation 52

- **NAPL Gauging:** Wells BBRW-02 through BBRW-05, BMW-05D, and BMW-22D were gauged for the presence of LNAPL and DNAPL on the following dates:
  - October 6, 13, 20, 24, and 29, 2008
  - November 10, 14, 21, and 26, 2008
  - December 4, 12, 19, and 24, 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 11 gallons of DNAPL were recovered during Q4 2008.
- **Table 2-2 Summary of Measured DNAPL Thickness** – provides NAPL thickness in existing NAPL gauging wells BBRW-02 through BBRW-05, BMW-05D, BMW-20D, and BMW-22D. The average DNAPL thicknesses measured in BBRW-02 has decreased slightly from Q3 2008 to Q4 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 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 decreasing recovery. DNAPL recovery thickness and the amount of DNAPL recovered have been inconsistent since the change in operational schedule.

### **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 operational schedule will be adjusted if a significant change in the DNAPL recovery rate continues.
- 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 Q4 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:
  - October 31, 2008
  - November 26, 2008
  - December 23, and 31, 2008
- **System Operation Monitoring:** The oxygen injections 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:
  - November 3, and 24, 2008
  - December 24, 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 Q4 2008:
  - DO concentrations ranged between 0 and 28 milligrams per liter (mg/L) in all downgradient monitoring wells and 0.8 and 28 mg/L in shallow and intermediate zones;
  - ORP values were elevated in several downgradient monitoring wells. ORP values ranged between -120 and 180 millivolts (mV);
  - pH varied between 5.04 and 6.69 Standard Units (SU) in downgradient monitoring wells;
  - Conductivity in downgradient monitoring wells ranged between 0.142 and 6.69 milli-Siemen per centimeter (mS/cm); and
  - Temperature ranged between 12.1 and 17.9 degrees Celsius (deg C), typical for Q4 conditions.
  
- **Figure 6 OU-1 Oxygen Injection Line Groundwater Data** – provides a 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 457 lbs of oxygen have been injected during Q4 2008 and a total of 1,381 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 Q4 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 17 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 Q4 2008.

- Depth to groundwater measurements were obtained on November 3 and 4, 2008 from the following 33 monitoring wells: BMW-05D, BMW-05D2; BMW-13D, BMW-20I, BMW-22S, BMW-22I, BMW-22D; BMW-26S, BMW-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 November 17 and 26, 2008; and December 10, 11, 12, 16, and 17, 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 5 of the 25 wells were analyzed for BTEX and MTBE by United States Environmental Protection Agency (EPA) Method 8260 and for PAHs by EPA Method 8270. Groundwater samples from the remaining 20 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 Q4 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 Q4 2008 shallow groundwater elevation contours for OU-1 and OU-3.
- **Figure 4 – Shallow Groundwater Contour Map** – provides the Q4 2008 shallow groundwater elevation contours for OU-1, OU-2, OU-3 and OU-4.
- **Figure 5 – Deep Groundwater Contour Map** – provides the Q4 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 0.0026 feet/foot. The groundwater elevation in OU-1 monitoring wells during the Q4 2008 event were an average of 0.05 feet higher than the Q3



2008 groundwater elevations and an average of 0.51 feet higher than the Q4 2007 groundwater elevations.

### **2.3.4 Groundwater Analytical Data**

The groundwater analytical results for groundwater monitoring wells located in OU-1 and sampled in Q4 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 Q4 2008 groundwater analytical results for monitoring wells located in OU-1 for each of the analyzed compounds detected in Q4 2008.
- **Table 2-9 Summary of Expanded Groundwater Analytical Results** – provides the Q4 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 Q4 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 Q4 2008 were sampled in at least one previous Q4 sampling event. Eight of these nine monitoring wells had sufficient data available (greater than one historic sampling event) to calculate the standard deviation and mean historical Q4 concentrations (exclusive of the Q4 2008 data). The Q4 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 Q4 data for total BTEX are shown below. The table below provides the total BTEX concentrations measured in Q4 2008 and the mean and standard deviation calculated for the historical Q4 total BTEX values. The resultant statistical range (the mean concentration plus or minus 2 standard deviations) is also presented.

Well No.	Screen Interval (ft-bgs)	Total BTEX Concentration (ug/L)				
		Q4 2008	Historical Q4 Mean	Historical Q4 Standard Deviation	Statistical Q4 Range	
					Minimum	Maximum
BBMW-05D	64.0 - 74.0	1,414	619	646	-674	1,911
BBMW-20I	35.0 - 45.0	8	109	74	-40	257
BBMW-22D	64.0 - 74.0	2,835	4,077	1,345	1,387	6,767
BBMW-22I	30.0 - 40.0	42	29	5	19	38
BBMW-22S	5.0 - 10.0	10,770	15,817	9,395	-2,972	34,606
MW-05D	35.5 - 45.5	5	10	20	-29	49
MW-05S	4.0 - 14.0	2,304	24,363	7,140	10,083	38,642
MW-09S	4.0 - 14.0	0	7	15	-22	36

Six of the eight OU-1 Q4 2008 total BTEX concentrations fall within two standard deviations of the mean historical Q4 total BTEX concentration. The concentration in well BBMW-22I of 42 ug/L was slightly above two standard deviations of the mean historical Q4 concentration. The concentration in MW-05S was well below two standard deviations of the mean historical Q4 total BTEX concentration and is the lowest concentration recorded during the historical monitoring period.

When the same analysis is performed for the entire OU-1 data set, independent of the quarter the data was collected, all of the Q4 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-MW18D, where the Q4 concentration is within one order of magnitude of historical concentrations and , OZMW-22S, where the concentration is greater than two standard deviations below the mean historical total BTEX concentration. These results indicate that no statistically significant changes in the BTEX concentration were detected in Q4 2008 for the majority of wells where sufficient data was available to perform statistical 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 Q4 data for total PAHs are shown in the table below. This table provides the total PAH concentrations measured in Q4 2008 and the mean and standard deviation calculated for the Q4 historical total PAH concentrations. The resultant statistical range (the mean concentration plus or minus 2 standard deviations) is also presented.

Well No.	Screen Interval (ft-bgs)	Total PAH Concentration (ug/L)				
		Q4 2008	Historical Q4 Mean	Historical Q4 Standard Deviation	Statistical Q4 Range	
					Minimum	Maximum
BBMW-05D	64.0 - 74.0	1,165	2,203	957	288	4,118
BBMW-20I	35.0 - 45.0	165	5,684	3,697	-1,710	13,078
BBMW-22D	64.0 - 74.0	5,681	8,662	206	8,249	9,075
BBMW-22I	30.0 - 40.0	4,680	6,606	1,971	2,663	10,549
BBMW-22S	5.0 - 10.0	1,972	3,890	812	2,265	5,514
MW-05D	35.5 - 45.5	107	3,342	1,903	-464	7,148
MW-05S	4.0 - 14.0	7	2,037	678	681	3,393
MW-09S	4.0 - 14.0	0	19	37	-55	93

The Q4 2008 PAH concentration was within two standard deviations of the historical Q4 mean PAH concentration for five of the eight wells, where sufficient data was available to perform the statistical analysis. The PAH concentration of wells, BMW-22D, BMW-22S, and MW-05S were greater than two standard deviations below the historical Q4 PAH concentrations indicating a reduction in Q4 PAH concentration at these locations.

When the same analysis is performed on the entire OU-1 data set, independent of the quarter the data was collected, the Q4 2008 total PAH concentrations were within 2 standard deviations of the overall historical mean PAH concentrations for all wells with the exception of OZMW-22D, where the concentration rose from below detection levels to 49 ug/L between Q3 and Q4 2008 (**Table 2-7**). These results indicate that no statistically significant changes in the total PAH concentration were detected in Q4 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 and finally, a fourth round was completed near the end of Q4 2008. The previous total BTEX and PAH concentrations in these wells for February/March 2008, July 2008, September 2008 and November/December 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/Mar. 2008	July 2008	Sept. 2008	Nov/Dec 2008	Feb/Mar. 2008	July 2008	Sept. 2008	Nov/Dec. 2008
OZMW-16D	55.0 - 65.0	0	0	0	0	1	0	0	0
OZMW-16I	20.0 - 30.0	512	105	136	189	1,447	39	22	440
OZMW-16I2	35.0 - 45.0	3	4	8	2	0	219	0	159
OZMW-16S	5.0 - 15.0	4,685	0	0	0	830	2	0	0
OZMW-17D	53.0 - 63.0	0	0	0	0	27	0	0	3
OZMW-17I	20.0 - 30.0	1,316	82	23	40	5,197	5	0	0
OZMW-17I2	35.0 - 45.0	0	0	0	0	7	0	2	0
OZMW-17S	5.0 - 15.0	1,664	78	52	25	1,963	1	0	0
OZMW-18D	55.0 - 65.0	77	31	79	147	1,684	461	108	1,279
OZMW-18I	20.0 - 30.0	3,600	169	25	84	2,312	625	7	600
OZMW-18I2	35.0 - 45.0	201	95	75	123	8,178	7,353	11,417	10,065
OZMW-18S	5.0 - 15.0	3,160	54	212	24	569	15	0	2

The results of the four rounds of sampling indicate that the total BTEX and PAH concentrations have been reduced in the majority of the wells excluding of OZMW-16I2

(variations in PAHs), OZMW-18D (increase of BTEX, variations in PAHs) 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, and OZMW-18I). The OU-1 oxygen injection system performance data for the four quarters of operation are summarized in **Section 2.2**. The results of this analysis for OU-1 indicate that the total BTEX and total PAH concentrations detected in Q4 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**

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### **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 Q4 2008.

- **Monthly Groundwater Parameter Monitoring:** On a monthly basis, seven monitoring wells downgradient of the oxygen injection lines (OU2MW-06, OU2MW-07, BMW-25S, BMW-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:
  - October 28, and 29 2008
  - November 20, 21, and 22, 2008
  - December 17, 24, and 31, 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:
  - October 27, 2008
  - November 20, 2008
  - December 15, 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.

### 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 Q4 2008:
  - DO concentrations remained elevated in downgradient monitoring wells. DO concentrations ranged between 0 and 43 mg/L;
  - ORP remained elevated in select downgradient monitoring wells. ORP ranged between -126 and 210 mV;
  - pH remained consistent. pH varied between 4.80 and 7.02 SU in downgradient monitoring wells;
  - Conductivity in downgradient monitoring wells remained consistent and has ranged between 0.046 and 0.0930 mS/cm; and
  - Temperature ranged between 5.3 and 15.7 deg C, typical for Q4 conditions.
- **Table 3-2 Summary Groundwater Parameter Data – Manatuck Lane Oxygen Injection Line** – provides the historic conductivity, DO, ORP, pH and temperature data for wells downgradient of the Manatuck Lane oxygen injection line. The data presented in this table indicate that for Q4 2008:
  - DO concentrations remained elevated in downgradient monitoring wells. DO concentrations ranged between 4 and 36 mg/L;
  - ORP remained elevated in select downgradient monitoring wells. ORP ranged between 85 and 201 mV;
  - pH remained consistent. pH varied between 4.86 and 7.49 SU in downgradient monitoring wells;
  - Conductivity in downgradient monitoring wells remained consistent. Conductivity ranged between 0.153 and 0.481 mS/cm; and

- Temperature ranged between 4.8 and 15.7 deg C, typical for Q4 conditions.
- **Figure 7 Montauk Highway Oxygen Injection Line Groundwater Data** – provides a graphical depiction of DO levels, total BTEX and total PAH concentrations over time for wells located downgradient of the Montauk Highway oxygen injection line. **Figure 6** provides data for the monitoring well clusters BMW-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 (BMW-25S, BMW-25I, OU2MW-01S, OU2MW-01I, OU2MW-01I2, OU2MW-02S, OU2MW-02I, 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 concentrations 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 injection 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 927 lbs of oxygen have been injected during Q3 2008 and a total of 8,972 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 Q4 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 180 groundwater monitoring wells located within and adjacent to the OU-2 plume during the Q4 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 BMW-01S, I, and D and BMW-23S, I, D and D2, which have been sampled on a monthly basis since Q2 2007. BMW-01S, I, and D and BMW-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 Q4 2008.

- Depth to groundwater measurements were obtained on November 3 and 4, 2008 from 105 monitoring wells located within, sidegradient and downgradient of OU-2.
- Surface water elevations were obtained on November 4, 2008 from surface water gauges located within Lawrence Lake (BBSW-07) and Lawrence Creek (OU2SW-01 and BBSW-06).
- Groundwater samples were collected from 180 monitoring wells located within OU-2 on November 18 through 21, and 24 through 26, 2008, December 2 through 4, 8 through 11, 15 through 19, 29 and 30, 2008 and January 5, 6, 8 and 9, 2009. Monitoring wells BMW-01S, I, and D and BMW-23S, I, D and D2 were sampled monthly during Q4 2008 on October 30, 2008; November 26 and December 1, 22, and 23, 2008. The groundwater samples from all of the 180 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 Q4 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 Q4 2008 shallow groundwater elevation contours for OU-1, OU-2, OU-3 and OU-4.
- **Figure 5 – Deep Groundwater Contour Map** – provides the Q4 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 0.0031 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 0.0032 feet/foot to 0.0043 feet/foot. The groundwater elevation in OU-2 monitoring wells during the Q4 2008 event were an average of 0.28 feet higher than the Q3 2008 groundwater elevations and an average of 0.52 feet higher than the Q4 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 BTEX, MTBE, and PAH Groundwater Analytical Results** – provides the Q4 2008 groundwater analytical results for each of the analyzed compounds detected in Q4 2008.
- **Table 3-12 Summary of Expanded Groundwater Analytical Results** – provides the Q4 2008 groundwater analytical results for monitoring wells located in OU-2 for each compound detected during the Q4 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 Q4 data to the Q4 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 Q4 concentrations (exclusive of the Q4 2008 data). The Q4 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 Q4 2008, the largest concentration was used to calculate trend statistics.

#### Upgradient of the Montauk Highway Oxygen Injection Line

One hundred fifteen (115) wells were sampled upgradient of the Montauk Highway oxygen injection line in OU-2 during Q4 2008. Of these 115 wells, 23 wells had sufficient historical Q4 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 Q4 2008 BTEX concentration, the historical Q4 standard deviation,

historical Q4 mean (exclusive of Q4 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)				
		Q4 2008	Historical Q4 Mean	Historical Q4 Standard Deviation	Statistical Q4 Range	
					Minimum	Maximum
BBMW-01D*	68.5 - 78.5	21	92	80	-69	252
BBMW-01I*	32.0 - 42.0	36	138	98	-58	335
BBMW-01S*	5.0 - 15.0	797	2,613	1,765	-917	6,143
BBMW-02D	73.0 - 83.0	0	11	15	-19	40
BBMW-02I	30.0 - 40.0	0	4	5	-6	13
BBMW-02S	5.0 - 15.0	0	0	0	0	0
BBMW-15D	70.0 - 80.0	0	0	0	0	0
BBMW-15I	35.0 - 45.0	0	158	273	-389	704
BBMW-15I2	23.0 - 28.0	149	16	27	-39	70
BBMW-15S	5.0 - 15.0	0	0	0	0	0
BBMW-16D	68.0 - 78.0	0	0	0	0	0
BBMW-16I	35.0 - 45.0	0	0	0	0	0
BBMW-16S	5.0 - 15.0	0	0	0	0	0
BBMW-23D*	49.5 - 59.5	14	332	335	-338	1,001
BBMW-23I*	33.0 - 43.0	0	3	6	-8	15
BBMW-23S*	5.0 - 15.0	9,986	13,344	17,894	-22,443	49,131
BBMW-24D	59.5 - 69.5	15	278	332	-386	942
BBMW-24I	32.0 - 42.0	0	698	939	-1,179	2,576
BBMW-24S	4.0 - 14.0	0	0	0	0	0
OU2MW-08D	65.0 - 70.0	0	0	0	0	0
OU2MW-08I	35.0 - 40.0	69	199	4	191	206
OU2MW-08I2	50.0 - 55.0	293	564	26	511	616
OU2MW-08S	20.0 - 25.0	1,010	581	351	-122	1,283

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

The Q4 2008 total BTEX concentrations, where sufficient data were available, fell within two standard deviations from their historical Q4 means for all wells, excluding BMW-15I2, OU2MW-08I and OU2MW-08I2. The Q4 total BTEX concentration at monitoring wells OU2MW-08I and OU2MW-08I2 were greater than two standard deviations below the historical Q4 mean values indicating decreases in concentrations in these wells. The BTEX concentration of the remaining well, BMW-15I2, was greater than two standard deviations above the historical Q4 BTEX concentrations indicating a slight increase in Q4 2009 BTEX 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 Q4 2008 total BTEX concentrations in all of the wells fell within two standard deviations from their historical mean concentration with the exception of BMW-15I2 (**Table 3-5**). The total BTEX concentration measured in BMW-15I2 (149 ug/L) was greater than two standard deviations higher than the historical mean. BTEX had not been present above detection limits at BMW-15I2 since the 1999 sampling event.

Both the BMW-01 and BMW-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, Q3 2008 and Q4 2008 sampling events are presented in the following table.

Well ID:		BMW-01D	BMW-01I	BMW-01S	BMW-23D	BMW-23D2	BMW-23I	BMW-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
Oct.	Q4	0	36	750	0	0	0	7,616
Nov.	2008	21	34	797	8	0	0	9,986
Dec.		20	34	210	14	0	0	8,107

Review of the above data indicates a decrease in BTEX concentrations in BMW-01D starting in October 2007 and continuing through December 2008. A decrease in BTEX concentration was also observed in BMW-01I and BMW-23D starting in March and February 2008, respectively, and continuing through December 2008. In addition, a decrease in the BTEX concentration was also observed in BMW-23S beginning in October 2008 and continuing through December 2008. The BTEX concentration observed in BMW-01S in Q4 2008 represents the lowest concentration recorded in the well since monthly sampling began. The Q4 2008 BTEX concentrations in the remaining wells BMW-23I and BMW-23D2 have remained below detection limits since May 2008.

The results of the statistical analysis for total PAHs are provided below. The following table presents a summary of the Q4 2008 total PAH concentration, the historical Q4 standard deviation, historical Q4 mean (exclusive of Q4 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)				
		Q4 2008	Historical Q4 Mean	Historical Q4 Standard Deviation	Statistical Q4 Range	
					Minimum	Maximum
BBMW-01D*	68.5 - 78.5	13	552	609	-666	1,770
BBMW-01I*	32.0 - 42.0	5,806	7,825	3,936	-47	15,696
BBMW-01S*	5.0 - 15.0	142	2,493	817	858	4,127
BBMW-02D	73.0 - 83.0	0	1	1	-2	4
BBMW-02I	30.0 - 40.0	0	0	0	0	0
BBMW-02S	5.0 - 15.0	0	2	1	0	3
BBMW-15D	70.0 - 80.0	0	1	1	-2	4
BBMW-15I	35.0 - 45.0	0	10	17	-25	45
BBMW-15I2	23.0 - 28.0	77	1	2	-2	4
BBMW-15S	5.0 - 15.0	0	0	0	0	0
BBMW-16D	68.0 - 78.0	0	0	0	0	0
BBMW-16I	35.0 - 45.0	0	0	0	0	0
BBMW-16S	5.0 - 15.0	0	1	1	-2	4
BBMW-23D*	49.5 - 59.5	0	2,427	2,242	-2,057	6,910
BBMW-23I*	5.0 - 15.0	0	30	30	-29	89
BBMW-23S*	59.5 - 69.5	1,340	1,879	1,043	-207	3,965
BBMW-24D	32.0 - 42.0	113	1,482	2,237	-2,991	5,956
BBMW-24I	4.0 - 14.0	0	5,379	5,166	-4,953	15,711
BBMW-24S	4.0 - 14.0	0	0	0	0	0
OU2MW-08D	65.0 - 70.0	0	1,946	2,752	-3,558	7,450
OU2MW-08I	35.0 - 40.0	8,486	2,984	42	2,900	3,067
OU2MW-08I2	50.0 - 55.0	2,954	2,731	1,089	553	4,909
OU2MW-08S	20.0 - 25.0	6,698	11,004	3,619	3,766	18,242

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

The Q4 2008 total PAH concentrations fell within two standard deviations from their historical Q4 means for all wells, excluding BMW-15I2 and OU2MW-08I, where sufficient data was available to perform the statistical analysis. The PAH concentrations in wells BMW-15I2 and OU2MW-08I are greater than two standard deviations above their historical Q4 means, representing an increase in Q4 2008 PAH concentrations at these locations.

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 BMW-15I2 and OU2MW-08I. The PAH concentrations in BMW-15I2 and OU2MW-08I for Q4 2008 were 77 ug/L and 8,486 ug/L, respectively (**Table 3-6**), which are greater than two standard deviations above their historical means representing slight increases in PAH concentrations at these locations.

As stated above, both the BMW-01 and BMW-23 well clusters have been sampled on a monthly basis since May 2007. The previous total PAH concentrations in these wells for each of the Q2 2007, Q3 2007, Q4 2007, Q1 2008, Q2 2008, Q3 2008 and Q4 2008 sampling events are presented in the following table.

Well ID:		BMW-01D	BMW-01I	BMW-01S	BMW-23D	BMW-23D2	BMW-23I	BMW-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 2007	695	7,721	3,189	6,619	0	1,355	2,318
June		2,090	6,848	4,347	5,216	0	2,207	2,519
July	Q3 2007	862	8,949	3,972	4,927	0	2,559	1,785
Aug.		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 2007	0	4,536	1,162	5,620	0	0	2,703
Nov.		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 2008	33	7,517	176	3,118	0	16	198
Feb		50	10,403	30	957	0	0	1,895
March		55	6,752	1,432	310	2	1	2,569
April	Q2 2008	62	4,021	1,619	188	50	14	2,169
May		0	3,802	689	5	14	0	1,307
June		183	6,532	1,640	81	0	0	1,596
July	Q3 2008	274	4,257	1,991	95	0	2	1,789
August		0	4,803	10	0	0	0	1,838
Sept.		0	8,764	0	3	0	23	1,534
Oct.	Q4 2008	0	5,806	0	0	0	0	0
Nov.		0	5,183	142	0	0	0	792
Dec.		13	3,868	0	0	0	0	1,340

Review of the above data indicates that the PAH concentrations measured in BMW-01D, BMW-01S, BMW-23D and BMW-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 have been installed and began operation within the OU-2 groundwater plume 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:

- BMW-03S, I, and D;
- BMW-07S, I and D;
- BMW-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 BMW-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 BMW-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.

QUARTERLY OPERATIONS, MAINTENANCE & MONITORING REPORT  
 FOURTH QUARTER (Q4) 2008  
 BAY SHORE/BRIGHTWATERS FORMER MGP SITE  
 NATIONAL GRID USA  
 MARCH 2009

Post-Oxygen Injection Sampling Date	Total BTEX Concentrations (ug/L)						
	Well Number						
	BBMW-25S	BBMW-25I	BBMW-25D	GM-05D	GM-05I	GM-05S	GMP-01
March 2006	0	264	11	0	0	140	0
June 2006	0	0	21	--	--	21	--
Jul/Aug. 2006	0	79	78	--	--	0	--
Nov/Dec 2006	0	344	76	--	--	12	--
Mar/Apr 2007	0	0	0	0	0	0	0
May/July 2007	0	148	0	0	0	0	0
Jul/Sept 2007	0	252	16	0	13	0	0
Nov/Dec 2007	0	41	6	0	0	14	135
Feb 2008	2	158	2	4	0	185	182
June 2008	0	169	6	0	0	55	94
Aug/Sept 2008	0	101	8	0	0	16	170
Nov/Dec 2008	0	523	8	0	0	113	655
Pre-Oxygen Injection Mean	5	1,106	51	0	0	117	883
Pre-Oxygen Injection Standard Deviation	17	515	32	0	1	138	820

Post-Oxygen Injection Sampling Date	Total PAH Concentrations (ug/L)						
	Well Number						
	BBMW-25S	BBMW-25I	BBMW-25D	GM-05D	GM-05I	GM-05S	GMP-01
March 2006	0	1,560	308	0	0	34	9,385
June 2006	0	0	125	--	--	0	9,261
Jul/Aug. 2006	0	37	160	--	--	0	5,555
Nov/Dec 2006	0	488	384	--	--	0	3,936
Mar/Apr 2007	0	11	0	0	0	0	4,019
May/July 2007	0	78	0	0	0	0	5,506
Jul/Sept 2007	10	457	3	0	7	0	159
Nov/Dec 2007	1	2	0	0	0	13	4,428
Feb 2008	0	181	0	0	0	25	3,967
June 2008	0	48	0	0	0	30	2,020
Aug/Sept 2008	0	86	59	0	0	7	778
Nov/Dec 2008	0	478	0	0	0	35	275
Pre-Oxygen Injection Mean	4	5,965	526	4	7	518	2,433
Pre-Oxygen Injection Standard Deviation	8	2,043	559	11	16	646	2,928

All of the Q4 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 BMW-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 three 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)												Pre-Oxygen Injection Mean	Pre-Oxygen Injection Standard Deviation
	Post-Oxygen Injection Sampling Date													
	2006				2007				2008					
	Mar	June	Jul/Aug	Nov/Dec	Mar/Apr	May-July	July/Sept	Nov/Dec	Feb	May/June	Aug	Dec		
GMP-02	151	11	12	0	0	0	0	0	3	4	0	0	997	708
GMP-04	242	83	242	280	652	24	295	264	15	0	0	0	320	430

Well No.	Total PAH Concentrations (ug/L)												Pre-Oxygen Injection Mean	Pre-Oxygen Injection Standard Deviation
	Post-Oxygen Injection Sampling Date													
	2006				2007				2008					
	Mar	June	Jul/Aug	Nov/Dec	Mar/Apr	May-July	July/Sept	Nov/Dec	Feb	May/June	Aug	Dec		
GMP-02	0	0	10	11	0	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	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 twelve 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 twelve post-oxygen injection sampling rounds and has not been present above detection limits for ten of these twelve 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 eleven of the twelve post-oxygen injection sampling rounds at GMP-04 and was not present above detection limits in Q4 2008. The post-oxygen injection PAH concentration at GMP-04 has been lower than the mean pre-oxygen injection PAH concentration for eight of the twelve post-oxygen injection sampling rounds and was not present above detection limits in Q4 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 Q4 2008 BTEX concentration was 2 ug/L in OU2MW-06 and was below detection limits

in OU2MW-07. BTEX has not been present above detection limits at seven of the twelve post-oxygen injection sampling rounds at OU2MW-06 and five of the twelve 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. The Q4 PAH concentrations were below detection limits at OU2MW-06 and OU2MW-07. PAHs have not been present above detection limits in nine of the twelve post-oxygen injection sampling rounds at OU2MW-06 and ten of the twelve 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

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### 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 Q4 2008.

- **Monthly Groundwater Parameter Monitoring:** On a monthly basis, ten 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:
  - October 24, 27, and 31, 2008
  - November 20, 24, and 25, 2008
  - December 1, 19, 22, 23, and 24, 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:

- October 24, 2008
  - November 21, and 25, 2008
  - December 24, and 26, 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 Q4 2008:
- DO concentrations remained elevated in downgradient monitoring wells IO-10, MW-46/WR, and MW-70/70S. DO concentrations ranged between 20 and 33 mg/L at these locations;
  - ORP remained elevated in downgradient monitoring wells IO-10, MW-46/WR, and MW-70/70S. ORP ranged between -18 and 136 mV at these locations;
  - pH ranged between 5.47 and 8.76 SU in downgradient monitoring wells;
  - Conductivity in downgradient monitoring wells remained consistent. Conductivity ranged between 0.250 and 0.592 mS/cm; and
  - Temperature ranged between 10.0 and 21.2 deg C, typical for Q4 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 Q4 2008:
- DO concentrations rebound in downgradient monitoring wells MW-65, MW-82, and PDMW-01 in December of 2008. DO concentrations ranged between 8 and 22 mg/L at these locations. This caused DO concentrations to fluctuate in downgradient monitoring wells.
  - ORP fluctuated in downgradient monitoring wells due to the mechanical failure in Q3 2008. ORP ranged between -239 and 165 mV;

- pH remained consistent, pH ranged between 5.20 and 7.90 SU in downgradient monitoring wells;
  - Conductivity in downgradient monitoring wells remained consistent. Conductivity ranged between 0.136 and 0.492 mS/cm; and
  - Temperature ranged between 9.1 and 19.7 deg C, typical for Q4 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 200 and 25,000 colony forming units per milliliter (cru/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 381 lbs of oxygen were injected during Q4 2008.
- A total of 4,065 lbs of oxygen have been injected since the initial start-up period.
- The system operated for all 92 days during Q4 2008.

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

- Approximately 500.5 lbs of oxygen were injected during Q4 2008.
  - A total of 6,445 lbs of oxygen have been injected since the initial start-up period.
  - The system operated for 88 out of 92 days during Q4 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 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 (SV-03, MW-75 and MW-82). 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 on 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 Q4 2008.

- Depth to groundwater measurements were obtained on November 3, 2008 from 40 monitoring wells located within and sidegradient of OU-3.
- The surface water elevation was obtained November 3, 2008 from a surface water gauge located within the headwaters of O-Co-Nee Pond (BBSW-13).
- Groundwater samples were collected from 48 monitoring wells located within OU-3 on November 6, 7, 10 through 14, 17 through 20, and 25, 2008; and December 1, 4, and 10, 2008. Twenty-eight (28) of the groundwater samples were analyzed for BTEX and MTBE via EPA method 8260 and PAHs via EPA Method 8270, and 20 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 Q4 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 Q4 2008 shallow groundwater elevation contours for OU-1, OU-2, OU-3 and OU-4.
- **Figure 5 – Deep Groundwater Contour Map** – provides the Q4 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 is approximately 0.0031 feet/foot. The deep groundwater hydraulic gradient is approximately 0.003 feet/foot. The groundwater elevation in OU-3 monitoring wells during the Q4 2008 event were an average of 0.72 feet higher than the Q3 2008 groundwater elevations and an average of 0.87 feet higher than the Q4 2007 groundwater elevations.

### **4.2.4 Groundwater Analytical Data**

The OU-3 groundwater analytical data is 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 Q4 2008 groundwater analytical results for monitoring wells located in OU-3 for each compound detected during the Q4 2008 sampling event.
- **Table 4-9 Summary of Expanded Groundwater Analytical Results** – provides the Q4 2008 groundwater analytical results for monitoring wells located in OU-3 for each compound detected during the Q4 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 area) and areas upgradient of the Brightwaters Yard oxygen injection system; (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 Q4 data to the Q4 2008 data is presented below for each of the three areas. Where sufficient data were available, the standard deviation was calculated for historical Q4 concentrations (exclusive of the Q4 2008 data). The Q4 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 5 of the 6 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 Q4 2008 total BTEX and total PAH concentrations, the historical Q4 standard deviation (exclusive of Q4 2008 data), historical Q4 mean (exclusive of Q4 2008 data) and the resultant statistical range (the mean concentration plus or minus 2 standard deviations).

Well No.	Screen Interval (ft-bgs)	Q4 2008	Historical Q4 Mean	Historical Q4 Standard Deviation	Statistical Q4 Range	
					Minimum	Maximum
Total BTEX Concentration (ug/L)						
BBMW-09S	5.0 - 15.0	0	15	34	-54	84
MW-01S	4.0 -14.0	0	92	206	-319	503
MW-03	4.94 - 14.94	11	44	66	-89	177
MW-04	5.1 - 15.1	0	2	4	-6	9
BW-UST-10	4.65 - 9.95	0	0	0	0	0
Total PAH Concentration (ug/L)						
BBMW-09S	5.0 - 15.0	0	9	22	-34	52
MW-01S	4.0 -14.0	0	0	0	0	0
MW-03	4.94 - 14.94	28	40	28	-16	95
MW-04	5.1 - 15.1	0	0	0	0	0
BW-UST-10	4.65 - 9.95	0	0	0	0	0

In Q4 2008, BTEX was detected at only one location in the Brightwaters East Parcel (Former UST Area) at monitoring well MW-03, in Q4 2008. The total BTEX concentration detected at MW-03 was lower than the historical Q4 mean concentrations, and was within two standard deviations of the historical Q4 mean concentrations.

PAHs were also detected at only one location in the Brightwaters East Parcel (Former UST Area). The total PAHs detected at MW-03 was lower than the historical Q4 mean concentrations, and was within two standard deviations of the historical Q4 mean concentrations.

All of the Q4 2008 total BTEX and total PAH concentrations 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**).

#### 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 concentration and standard deviation 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 concentration and standard deviation 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.

QUARTERLY OPERATIONS, MAINTENANCE & MONITORING REPORT  
 FOURTH QUARTER (Q4) 2008  
 BAY SHORE/BRIGHTWATERS FORMER MGP SITE  
 NATIONAL GRID USA  
 MARCH 2009

Well No.	Total BTEX Concentrations (ug/L)														Pre-Oxygen Injection Mean	Pre-Oxygen Injection Standard Deviation
	Post-Oxygen Injection Sampling Date															
	2006				2007				2008							
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
MW-02I/IR	0	--	--	--	0	0	0	0	0	0	3	0	20,556	68,771		
MW-02S/S-R	945	51	0	68	346	625	1,695	248	27	1	16	47	129,590	61,095		
MW-16I	0	--	--	--	0	103	0	59	84	17	0	4	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	14,280	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	142	7,058	13,367		
MW-46W/WR	17,110	7,270	2,750	2,330	1,256	3,810	915	0	8,130	1,664	3,471	1,231	25,777	11,707		
MW-64	19	0	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	7	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	5,380	33,838	27,348		
MW-75	5,389	1,540	3,600	491	580	355	9,420	2,254	268	1,802	76,790	1,181	33,748	51,636		
MW-76	27	0	0	0	0	0	4	7	2	0	1	0	735	1,494		
MW-78	5,900	4,710	18,100	4,080	2,320	3,050	2,480	2,270	54	167	461	312	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	2,060	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	90,400	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	5,020	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	19,071	37,813	67,309		
MW-83	101	0	5,042	161	41	2,320	6,761	39	36	0	687	2,145	389	557		
PDMW-01	0	0	0	0	0	0	0	70,920	0	0	0	73,810	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	27,913	83,073	19,831		
SV-02	1,600	32	27,400	42	0	0	26,000	0	0	0	0	0	13,940	32,522		
SV-03	570	257	831	116	65	207	185	341	105	477	60	56	8,383	10,475		

Shaded indicates BTEX value outside of calculated statistical range.

The total BTEX concentration 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 concentration in wells MW-2I/IR, MW02S/SR, MW-46W/WR, MW-64, MW-65, MW-76, MW-79 and SV-03. The Q4 2008 total BTEX concentrations were below the mean pre-oxygen injection concentration in all wells except MW-80, MW-83 and PDMW-01.

The 2006, 2007 and 2008 post-oxygen injection system total PAH concentrations and the calculated mean pre-oxygen injection system total PAH concentration and standard deviation 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	Pre-Oxygen Injection
	2006				2007				2008					
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Mean	Standard Deviation
MW-02I/I-R	0	--	--	--	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	0	4,258	5,705
MW-16I	0	--	--	--	0	44	0	0	0	0	0	0	2	5
MW-16SR	2,183	1,870	1,056	676	842	232	280	579	922	355	552	104	4,032	7,820
MW-45W	895	74	40	233	--	0	10	9	0	0	0	0	221	425
MW-46W/W-R	544	50	233	192	37	71	47	74	102	24	0	39	823	1,175
MW-64	0	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	0	50	118
MW-73	575	669	1,100	545	497	345	495	1,189	444	105	1	0	967	517
MW-75	100	56	55	0	0	0	180	47	0	0	1,024	0	681	1,021
MW-76	14	0	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	0	511	409
MW-79	281	103	41	0	140	0	0	0	90	1	6	0	1,477	1,693
MW-80	1,200	694	258	1,480	831	601	884	1,173	277	509	790	701	1,260	773
MW-81	487	274	2,700	807	1,068	448	1,130	1,508	480	0	50	4	1,136	791
MW-82	1,140	837	1,137	150	234	286	127	306	0	1	0	448	826	1,039
MW-83	0	0	230	0	0	0	0	2	0	0	1	0	76	67
PDMW-01	0	0	0	0	0	0	0	1,464	0	0	2	1,950	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	1,619	2,453	1,241
SV-02	0	0	35	0	0	0	133	0	0	3	0	0	137	169
SV-03	96	57	0	0	17	0	31	72	17	0	0	0	250	163

The total PAH concentration for each of the four 2006, 2007 and 2008 post-oxygen injection system quarterly sampling events was below the mean pre-oxygen injection system total PAH concentration in wells MW-2I/IR, MW02S/SR, MW-16SR, MW-46W/WR, MW-64, MW-65, MW-76, MW-79, SV-02 and SV-03. The Q4 2008 total PAH concentration was below the mean pre-oxygen injection PAH concentration 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 PDMW-01.

As presented in Subsection 4.1.3, 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 PAHs 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 seven 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 Q4 groundwater sample concentrations (exclusive of the Q4 2008 data). The Q4 2008 data were then compared to two standard deviations from the mean for both the previous Q4 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 Q4 2008 total BTEX and total PAH concentrations, the historical Q4 standard deviation (exclusive of Q4 2008 data), historical Q4 mean (exclusive of Q4 2008 data) and the resultant statistical range (the mean concentration plus or minus 2 standard deviations).

Well No.	Screen Interval (ft-bgs)	Q4 2008	Historical Q4 Mean	Historical Q4 Standard Deviation	Statistical Q4 Range	
					Minimum	Maximum
Total BTEX Concentration (ug/L)						
BBMW-29	2.0 - 9.0	0	1,456	2,522	-3,588	6,500
IO-10	6.0 - 16.0	0	60	40	-21	141
MW-11W	2.0 - 10.0	8	1,070	868	-667	2,806
MW-30W-R	2.0 - 10.0	0	0	0	-16	0
MW-32W/W-R	2.0 - 10.0	29	19,662	18,926	-18,190	57,515
MW-34D	27.5 - 28.5	0	1	2	-3	5
MW-34I	18.5 - 19.5	0	314	537	-759	1,388
MW-34S	2.0 - 10.0	9,100	14,491	15,963	-17,435	46,418
MW-70/70S	2.0 - 12.0	675	2,115	3,145	-4,174	8,404
MWBS-02D	24.5 - 25.5	0	6,660	9,493	-12,326	25,646
MWBS-02I	14.5 - 15.5	0	636	1,663	-2,689	3,961
MWBS-02S	5.0 - 15.0	0	638	1,828	-3,018	4,295

The Q4 2008 BTEX concentration was below the historic Q4 mean BTEX concentrations for all wells located downgradient of the Union Boulevard oxygen injection system.

Well No.	Screen Interval (ft-bgs)	Q4 2008	Historical Q4 Mean	Historical Q4 Standard Deviation	Statistical Q4 Range	
					Minimum	Maximum
Total PAH Concentration (ug/L)						
BBMW-29	2.0 - 9.0	0	57	98	-140	253
IO-10	6.0 - 16.0	0	5	9	-14	23
MW-11W	2.0 - 10.0	0	89	81	-73	250
MW-30W/W-R	2.0 - 10.0	0	238	523	-808	1,283
MW-32W/W-R	2.0 - 10.0	0	542	595	-649	1,732
MW-34D	27.5 - 28.5	0	2	3	-5	9
MW-34I	18.5 - 19.5	0	41	72	-102	185
MW-34S	2.0 - 10.0	0	390	495	-601	1,381
MW-70/70S	2.0 - 12.0	42	24	33	-41	90
MWBS-02D	24.5 - 25.5	22	164	142	-120	448
MWBS-02I	14.5 - 15.5	0	29	87	-144	203
MWBS-02S	5.0 - 15.0	0	77	108	-138	293

The Q4 2008 PAH concentrations were below the historic Q4 mean PAH concentrations for all wells located downgradient of the Union Boulevard oxygen injection system.

When the same analysis was performed on the entire data set, independent of the quarter the data was collected, the Q4 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 indicate 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 seven consecutive quarters. PAHs were last detected in Q1 2007 at a concentration of 10 ug/L in MWBS-02I and 22 ug/L in MWBS-02D. PAHs were below detection limits at MWBS-02S in Q4 2008 and have been below detection limits for 13 out of the last 14 quarters. PAHs were last detected in MWBS-02S at a concentration of 7 ug/L in Q2 2008.

BTEX concentrations were below detection limits at MWBS-02S, MWBS-02I and MWBS-02D in Q4 2008. BTEX has been non-detect at MWBS-02S for 13 of the last 14 consecutive quarters. BTEX was last detected in MWBS-02S at a concentration of 8 ug/L in Q4 2007. BTEX concentrations in MWBS-02I have been below detection units for 17 of the last 18 quarters. BTEX was previously detected in MWBS-02I at a concentration of 17 ug/L in Q3 2008. BTEX was not present above detection limits in MWBS-02D in 7 of the last 8 quarters.

Total BTEX at a concentration of 17 ug/L was last 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

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### 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 contaminants of concern (COC) from the OU-2 dissolved phase groundwater plume to soil vapor. Sampling events have been completed between May 2005 and December 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 Q4 2008 OM&M program.

- A total of 39 samples were collected from 35 soil vapor locations and five samples were collected from five ambient air locations in Q4 2008. Sampling events were conducted on:
  - December 23, 2008 (one ambient air sample, six soil vapor samples)
  - December 29 through 31, 2008 (four ambient air samples, 33 soil vapor samples)
- 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 <sup>1</sup>
Upgradient of Montauk Highway along Union Boulevard, North Clinton Avenue, Cooper Lane, and South Union Boulevard	OU2SG12, OU2SG14, OU2SG15, OU2SG16, OU2SG17, OU2SG18, OU2SG22, OU2SG23, OU2SG38, OU2SG39, Ambient Air OU2AA04
Upgradient of the Montauk Highway Oxygen Injection Line	OU2SG24, OU2SG25, OU2SG26, OU2SG29, OU2SG30, OU2SG06, Ambient Air OU2AA05
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 <sup>2</sup>
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. OU2SG13 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 Q4 2008 soil vapor and ambient air data are provided on the following tables and in appendices.

- **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 39 samples collected during Q4 2008.
- **Table 5-2 Ambient Air Analytical Data** – presents the historical and Q4 2008 ambient air data.
- **Appendix D, Soil Vapor Analytical Results** – contains historical graphs of the soil vapor concentrations of analytes detected at any soil vapor point, as well as BTEX and naphthalene historical plots. The periods when the 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 systems were installed and after the systems were 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 Q4 2008, the concentrations detected at each soil vapor point were generally consistent with previous sampling events with three exceptions.

- In Q2 and Q3 2008 concentrations of n-octane were elevated in several samples including those upgradient of the former MGP site. Q4 2008 concentrations of n-octane decreased slightly when compared to historical concentrations in five soil vapor points.
- The concentration of toluene decreased significantly in one soil vapor point (OU2SG-22) when compared to the previous Q3 2008 concentration. The Q4 2008 concentration was similar to the concentrations in Q1 and Q2 2008. This point was installed in Q12008 and has not been sampled previously during a Q4 event.
- Concentrations of 1,4-dichlorobenzene and 1,2,4-trichlorobenzene were elevated in two soil vapor points, OU2SG-26 and OU2SG-29. Both of these points are located upgradient of the Montauk Highway Oxygen Injection Line. These points were also installed in Q12008 and have not been sampled previously during a Q4 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 27 VOCs: benzene, ethylbenzene, toluene, xylenes, acetaldehyde, acetone, acrolein, butane, 2-butanone, carbon disulfide, 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 five ambient air samples in Q4 2008 at concentrations ranging between 0.46 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) at OU2AA04 located upgradient of Montauk Highway, and 1.1  $\mu\text{g}/\text{m}^3$  at OU2AA03 located mid-plume. All detections were below the NYSDOH 95<sup>th</sup> percentile of typical background values for outdoor air in the five ambient air samples (OU2AA01, OU2AA02, OU2AA03, OU2AA04, and OU2AA05).

### **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 COC 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.
- COC 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 COC would tend to remain in the dissolved phase and the lower the pressure, the more COC 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 COC 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 COC 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	1.58	August 2006 was a wetter than average month 5.58 in. recorded (normal 4.48 in.)
	8/27/06	2.19	
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	3.34	Both events occurred during Week 2 of the Hydrologic Study
	7/22/07	0.92	
12/18-19/07	12/13/07	0.82	December 2007 was a wetter than average month 4.64 in. recorded (normal 4.13 in.)
	12/16/07	0.85	
2/6-7/08	2/6/08	0.07	February 2008 was a wetter than average month 6.21 in. recorded (normal 3.33 in.)
	2/7/08	0.14	
2/19/08	2/18/08	0.48	March 2008 was a wetter than average month 5.89 in. recorded (normal 4.76 in.)
3/17/08	3/15/08	0.25	
3/21/08	3/19/08	0.91	
	3/20/08	0.30	
3/26-27/08	--	--	June 2008 was a dryer than average month 3.17 in. recorded (normal 3.71 in.)
6/13/08	--	--	
6/18-20/08	8/16/08	0.16	
	8/18/08	0.15	
	8/20/08	0.12	
6/23-25/08	8/21/08	0.27	August 2008 was a dryer than average month 3.2 in. recorded (normal 4.48 in.)
	8/23/08	0.05	
8/13/08	8/11/08	0.42	September 2008 was a wetter than average month 7.46 in. recorded (normal 3.39 in.)
9/16-19/08	9/9/08	0.50	
	9/12/08	0.59	
9/22-24/08	--	--	
9/30/08	9/26/08	2.39	
	9/27/08	0.50	December 2008 was a wetter than average month 6.68 recorded (normal 4.13 in.)
	9/28/08	0.20	
	9/29/08	0.11	
12/23/08	12/21/2008	0.41	
12/29-31/08	12/31/08	0.17	

## 5.4 Future Plans

- Continued quarterly soil vapor and ambient air sampling.

## **6. Operable Unit 4 – Watchogue Creek/Crum’s Brook**

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### **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 on OU-4 during the Q4 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 Q4 2008.

- Depth to groundwater measurements were obtained on November 5, 2008 from 37 monitoring wells located within OU-4.
- The surface water elevation was obtained on November 5, 2008 from a surface water gauge located in Watchogue Creek/Crum’s Brook at Union Boulevard.
- Groundwater samples were collected from 34 monitoring wells located within OU-4 on December 10 through 12, 15 through 17, and 22, 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 Q4 2008.
- **Table 6-2 Historic Calculated Groundwater Elevations** – provide historic groundwater elevations for OU-4 for existing groundwater wells.
- **Figure 4 – Shallow Groundwater Contour Map** – provides the Q4 2008 shallow groundwater elevation contours for OU-1, OU-2, OU-3 and OU-4.
- **Figure 5 – Deep Groundwater Contour Map** – provides the Q4 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 0.0029 feet/foot. The deep groundwater hydraulic gradient is approximately 0.0026 feet/foot. The groundwater elevation in OU-4 monitoring wells during the Q4 2008 event was an average of 0.65 feet higher than the Q3 2008 groundwater elevations and an average of 0.96 feet higher than the Q4 2007 groundwater elevations.

### **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 Q4 2008 groundwater analytical results for monitoring wells located in OU-4 for each compound detected during the Q4 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 Q4 2008 data). The Q4 2008 data was then compared to two standard deviations from the mean for both the previous Q4 events and the entire OU-4 data set.

The following tables present a summary of the Q4 2008 total BTEX and total PAH concentrations, the historical Q4 standard deviation (exclusive of Q3 2008 data), historical Q4 mean (exclusive of Q4 2008 data) and the resultant statistical range (the mean concentration plus or minus 2 standard deviations).

Well No.	Screen Interval (ft-bgs)	Q4 2008	Historical Q4 Mean	Historical Q4 Standard Deviation	Statistical Q4 Range	
					Minimum	Maximum
Total BTEX Concentration (ug/L)						
WCMW-01D	64.0 - 72.0	0	1	1	-2	4
WCMW-01I	35.0 - 45.0	0	1	1	-1	2
WCMW-01S	2.0 - 12.0	3	2	4	-6	10
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	0	2	3	-5	9
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	24	8	8	-9	25
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	26	23	16	-8	54
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-10S	15.0 - 20.0	0	0	0	0	0

Well No.	Screen Interval (ft-bgs)	Q4 2008	Historical Q4 Mean	Historical Q4 Standard Deviation	Statistical Q4 Range	
					Minimum	Maximum
Total PAH Concentration (ug/L)						
WCMW-01D	64.0 - 72.0	0	18	25	-32	67
WCMW-01I	35.0 - 45.0	0	1	1	-2	4
WCMW-01S	2.0 - 12.0	77	297	285	-272	866
WCMW-02D	62.0 - 72.0	0	0	0	0	0
WCMW-02I	34.5 - 44.5	0	2	3	-4	8
WCMW-02S	3.0 - 13.0	27	75	66	-57	208
WCMW-03I	19.4 - 24.4	1,107	797	592	-387	1,981
WCMW-03I2	28.55 - 33.55	24	150	124	-98	398
WCMW-03S	4.83 - 9.83	239	215	153	-91	521
WCMW-04I	19.0 - 24.0	100	154	52	49	258
WCMW-04I2	29.85 - 34.85	0	19	42	-66	104
WCMW-04S	1.5 - 11.5	332	568	381	-194	1,330
WCMW-05I	19.61 - 24.61	150	260	94	73	448
WCMW-05I2	29.46 - 34.46	63	61	103	-145	267
WCMW-05S	1.4 - 11.4	2	4	7	-9	18
WCMW-06I	19.55 - 24.55	0	0	0	0	0
WCMW-06I2	69.83 - 34.83	0	6	8	-10	21
WCMW-06S	2.0 - 12.0	0	20	28	-36	75
WCMW-10S	15.0 - 20.0	0	0	0	0	0

All of the Q4 2008 total BTEX concentrations in OU-4 are within two standard deviations of the Q4 historical mean concentration indicating no significant variation in concentrations.

The Q4 2008 total BTEX concentrations also fell within two standard deviations from their historical mean concentration when the same analysis was performed on the entire OU-4 data set, independent of the quarter the data was collected (**Table 6-3**).



All of the Q4 2008 total PAH concentrations in OU-4 are within two standard deviations of the Q4 historical mean concentration indicating no significant variation in concentrations.

The Q4 total PAH concentrations also fell within two standard deviations from their historical mean concentration when the same analysis was performed on the entire OU-4 data set, independent of the quarter the data was collected (**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.

## 7. References

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## Tables (electronic only)

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Tables also available at [www.bayshoreworksmgp.com](http://www.bayshoreworksmgp.com)

## Tables (electronic only)

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Tables also available at [www.bayshoreworksmgp.com](http://www.bayshoreworksmgp.com)

Table 2-1  
 Summary of DNAPL Removal for 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 (Gallons)	Event Description
	Initial	Final		
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

Table 2-1  
 Summary of DNAPL Removal for 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 (Gallons)	Event Description
	Initial	Final		
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
10/2/2008	8.6	5.8	4.11	Scheduled Operation 49
10/24/2008	5.5	5.0	0.73	Scheduled Operation 50
11/21/2008	6.6	5.9	1.03	Scheduled Operation 51
12/23/2008	8.1	4.5	5.29	Scheduled Operation 52
Total			261.35	

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
<b>NAPL Thickness (ft)</b>												
<b>RW - 01</b>												
DTW:	9.2'	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
LNAPL:	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
<b>RW - 02</b>												
DTW:	NM	NM	NM	Cover	NM	NM	NM	NM	NM	NM	NM	NM
LNAPL:	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'
<b>RW - 03</b>												
DTW:	8.4'	6.5'	NM	6.3'	6.6'	6.5'	6.0'	5.9'	6.3'	NO ACCESS	6.3'	6.3'
LNAPL:	NM	NM	NM	NM	NM	NM	NO*	NO*	NO*		NO*	NO*
DNAPL:	NO*	NO*	NO*	NM	NM	NM	NO*	NO*	NO*		NO*	NO*
<b>RW - 04</b>												
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'
LNAPL:	NO*	NO*	NO*	NM	NO*	NM	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NM	NM	NM	NO*	NM	NO*	NO*	NO*	NO*	NO*	NO*
<b>RW - 05</b>												
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'
LNAPL:	NM	NO*	NO*	NM	NM	NM	NM	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NM	NM	NM	NM	NM	NM	NO*	NO*	NO*	NO*	NO*
<b>BBMW - 05D</b>												
DTW:	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
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
<b>BBMW - 20D</b>												
DTW:	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
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
<b>BBMW - 22D</b>												
DTW:	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
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM



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.:	5/25/2007	5/31/2007	6/8/2007	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
<b>NAPL Thickness (ft)</b>												
<b>RW - 01</b>												
DTW:	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
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
<b>RW - 02</b>												
DTW:	NM	NM	4.5'	NM	NM	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
DNAPL:	7.8'	6.1'	NM	5.5'	6.4'	4.7'	6.8'	5.0'	6.8'	6.5'	6.5'	6.5'
<b>RW - 03</b>												
DTW:	6.6'	6.7'	6.4'	6.7'	6.8'	6.7'	7.0'	NO ACCESS	NO ACCESS	7.2'	NO ACCESS	NO ACCESS
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*			NO*		
DNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*			NO*		
<b>RW - 04</b>												
DTW:	9.8'	10.0'	9.6'	9.9'	10.1'	10.0'	10.3'	10.5'	10.0'	10.1'	9.9'	10.1'
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	0.1'	NO*	NO*	NO*	NO*
<b>RW - 05</b>												
DTW:	7.9'	8.3'	8.0'	8.30'	8.5'	8.4'	8.7'	8.9'	8.4'	8.5'	8.3'	8.6'
LNAPL:	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*
<b>BBMW - 05D</b>												
DTW:	NM	NM	NM	NM	NM	NM	NM	NO ACCESS	11.2'	11.2'	11.1'	11.3'
LNAPL:	NM	NM	NM	NM	NM	NM	NM		<0.1'	NO*	NO*	NO*
DNAPL:	NM	NM	NM	NM	NM	NM	NM		NO*	<0.1'	<0.1'	<0.1'
<b>BBMW - 20D</b>												
DTW:	NM	NM	NM	NM	NM	NM	NM	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS
LNAPL:	NM	NM	NM	NM	NM	NM	NM					
DNAPL:	NM	NM	NM	NM	NM	NM	NM					
<b>BBMW - 22D</b>												
DTW:	NM	NM	NM	NM	NM	NM	NM	10.2'	10.0'	10.0'	9.9'	10.1'
LNAPL:	NM	NM	NM	NM	NM	NM	NM	NO*	NO*	NO*	NO*	NO*
DNAPL:	NM	NM	NM	NM	NM	NM	NM	5.5'	5.3'	5'	3'	5.5'

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.:	8/23/2007	8/31/2007	9/7/2007	9/14/2007	9/21/2007	9/28/2007	10/5/2007	10/11/2007	10/26/2007
<b>NAPL Thickness (ft)</b>									
<b>RW - 01</b>									
DTW:	NM	NM	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM
<b>RW - 02</b>									
DTW:	NM	NM	NM	NM	NM	NM	NO*	NM	NM
LNAPL:	NM	NM	NM	NM	NM	NM	NO*	NM	NM
DNAPL:	6.8'	6.5'	6.4'	7.0'	7.8'	7.0'	6.4'	7.2'	7.0'
<b>RW - 03</b>									
DTW:					7.3'	7.4'	7.1'	7.6'	7.4'
LNAPL:	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO*	NO*	NO*	NO*	NO*
DNAPL:					NO*	NO*	NO*	NO*	NO*
<b>RW - 04</b>									
DTW:	9.9'	10.2'	10.5'	10.4'	10.6'	10.65'	10.8'	10.5'	10.7
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
<b>RW - 05</b>									
DTW:	8.3'	8.5'	8.9'	11.6'	9.0'	6.1'	9.3'	9.3'	9.2'
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
<b>BBMW - 05D</b>									
DTW:	11.1'	11.4'	11.6'	11.7'	11.8'	11.9'	11.8'	11.8'	11.9
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	<0.1	<0.1'	NO*	NO*	NO*	NO*	NO*	NO*	NO*
<b>BBMW - 20D</b>									
DTW:			10.1'						
LNAPL:	NO ACCESS	NO ACCESS	NO*	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS
DNAPL:			NO*						
<b>BBMW - 22D</b>									
DTW:	9.9'	10.2'	10.4'	NO*	NO*	NO*	NO*	NM	NM
LNAPL:	NO*	NM	NO*	NO*	NO*	NO*	NO*	NM	NM
DNAPL:	5.5'	6'	3'	5.0'	5.2'	6.0'	5.0'	6.1'	6.0'

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.:	10/31/2007	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
<b>NAPL Thickness (ft)</b>												
<b>RW - 01</b>												
DTW:	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
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
<b>RW - 02</b>												
DTW:	NM	NM	NM	NM	NO*	NO*	NM	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NO*	NO*	NM	NM	NM	NM	NM	NM
DNAPL:	6.6'	NM	7.0'	7.2'	6.5'	7.6'	6.5'	7.5'	5.6'	5.0'	6.8'	6.6'
<b>RW - 03</b>												
DTW:	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*		NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*		NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
<b>RW - 04</b>												
DTW:	10.7'	10.6'	NM	10.8'	10.6'	NM	10.1'	10.8'	10.2'	9.9'	10.0	9.9'
LNAPL:	NO*	NM	NM	NO*	NO*	NM	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NM	NM	NO*	NO*	NM	NO*	NO*	NO*	NO*	NO*	NO*
<b>RW - 05</b>												
DTW:	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*	NM	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NM	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
<b>BBMW - 05D</b>												
DTW:	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*	NM	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NM	NM	<0.1'	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
<b>BBMW - 20D</b>												
DTW:	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	NO ACCESS	Well Damaged	Well Damaged	Well Damaged
LNAPL:												
DNAPL:												
<b>BBMW - 22D</b>												
DTW:	NM	NM	NO*	NM	NO*	10.2	10.0'	NO*	NO*	9.9'	NO*	NO*
LNAPL:	NM	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	5.8'	NM	5.9'	6.5'	4.2'	6.6'	6.7'	6.5'	5.1'	5.0'	5.8'	5.0'

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
<b>NAPL Thickness (ft)</b>														
<b>RW - 01</b>														
DTW:	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
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
<b>RW - 02</b>														
DTW:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NO*	8.6'	NO*	NO*	NO*
LNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	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'
<b>RW - 03</b>														
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'	NO ACCESS
LNAPL:	NO*	NO*	NO*	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	
DNAPL:	NO*	NO*	NO*	NM	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	
<b>RW - 04</b>														
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'
LNAPL:	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*
<b>RW - 05</b>														
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'
LNAPL:	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*
<b>BBMW - 05D</b>														
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'
LNAPL:	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*
<b>BBMW - 20D</b>														
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
DNAPL:														
<b>BBMW - 22D</b>														
DTW:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	9.3'	NO*	NO*	9.3'
LNAPL:	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'

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.:	5/9/2008	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	
<b>NAPL Thickness (ft)</b>															
<b>RW - 01</b>															
DTW:	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	
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	
<b>RW - 02</b>															
DTW:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NM	NM	NM	NM	NM	NM	
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NM	NM	NM	NM	NM	NM	
DNAPL:	7.1'	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'	
<b>RW - 03</b>															
DTW:	6.4'	6.4'	6.3'	NO ACCESS	6.25'	6.6'	6.6'	6.6'	6.92'	7.12'	7.24'	7.11'	7.04'	6.98'	
LNAPL:	NO*	NO*	NO*		NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	0.1'		NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
<b>RW - 04</b>															
DTW:	9.7'	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'	
LNAPL:	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*	
<b>RW - 05</b>															
DTW:	8.9'	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'	
LNAPL:	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*	
<b>BBMW - 05D</b>															
DTW:	11.0'	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'	
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	
DNAPL:	NO*	NO*	NO*	NO*	0.1'	0.1'	0.1'	NO*	NO*	NO*	0.01'	0.01'	Trace	0.01'	
<b>BBMW - 20D</b>															
DTW:	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	
LNAPL:															
DNAPL:															
<b>BBMW - 22D</b>															
DTW:	9.4'	9.7'	NO*	NO*	NO*	NO*	NO*	NO*	NM	NM	NM	NM	NM	NM	
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NM	NM	NM	NM	NM	NM	
DNAPL:	4.1'	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'	

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.:	8/15/2008	8/22/2008	9/2/2008	9/8/2008	9/12/2008	9/19/2008	9/25/2008	10/6/2008	10/13/2008	10/20/2008	10/24/2008	10/29/2008	11/10/2008
<b>NAPL Thickness (ft)</b>													
<b>RW - 01</b>													
DTW:	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
DNAPL:	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
<b>RW - 02</b>													
DTW:	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
DNAPL:	5.8'	6.3'	6.5'	8.0'	6.0'	6.50'	5.6'	5.8	5.11	5.7	5.5	5.3	5.5
<b>RW - 03</b>													
DTW:	7.15'	7.21'	7.47'	6.89'	6.92'	6.94'	7.21'	6.24	6.67	6.82	6.92	6.09	6.41
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	>0.01'	NO*	NO*	NO*	NO*	NO*	NO*
<b>RW - 04</b>													
DTW:	10.44'	10.49'	10.76'	10.17'	10.20'	10.36'	10.51'	9.97	9.94	10.11	10.2	9.3	9.68
LNAPL:	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*
<b>RW - 05</b>													
DTW:	8.89'	8.98'	9.26'	8.63'	8.69'	8.86'	9.01'	7.98	8.44	8.62	8.71	7.72	8.16
LNAPL:	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*
<b>BBMW - 05D</b>													
DTW:	11.75'	11.69'	11.96'	11.36'	11.39'	11.57'	11.69'	10.68	11.15	11.3	11.41	10.48	10.87
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	Trace	Trace	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*	NO*
<b>BBMW - 20D</b>													
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
DNAPL:													
<b>BBMW - 22D</b>													
DTW:	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
DNAPL:	4.9'	4.1'	6.0'	5.0'	5.10'	5.30'	5.9'	5.75	4.7	5.2	4.75	5.7	5.9

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.:	11/14/2008	11/21/2008	11/26/2008	12/4/2008	12/12/2008	12/19/2008	12/24/2008
<b>NAPL Thickness (ft)</b>							
<b>RW - 01</b>							
DTW:	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM	NM	NM
DNAPL:	NM	NM	NM	NM	NM	NM	NM
<b>RW - 02</b>							
DTW:	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM	NM	NM
DNAPL:	5.1	5.9	6.2	6.6	6.8	6.0	6.5
<b>RW - 03</b>							
DTW:	6.48	6.35	6.2	6.25	4.87	7.65	5.65
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*
<b>RW - 04</b>							
DTW:	9.77	9.65	9.46	4.52	8.17	8.95	8.96
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*
<b>RW - 05</b>							
DTW:	8.25	8.12	7.91	7.86	6.3	7.39	7.43
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*
<b>BBMW - 05D</b>							
DTW:	10.96	10.83	10.61	10.73	9.2	10.12	10.14
LNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*
DNAPL:	NO*	NO*	NO*	NO*	NO*	NO*	NO*
<b>BBMW - 20D</b>							
DTW:							
LNAPL:	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged	Well Damaged
DNAPL:							
<b>BBMW - 22D</b>							
DTW:	NM	NM	NM	NM	NM	NM	NM
LNAPL:	NM	NM	NM	NM	NM	NM	NM
DNAPL:	5.2	6.0	5.4	5.7	6.2	5.6	5.3

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	Oct-08	Nov-08	Dec-08
<b>Conductivity (mS/cm)</b>											
OZMW-16D	--	1.890	--	--	--	2.220	--	2.010	--	--	6.690
OZMW-16I	--	--	--	--	--	0.725	--	0.938	--	--	0.630
OZMW-16I2	0.296	--	--	--	--	0.509	--	0.812	--	--	0.999
OZMW-16S	0.440	--	--	--	--	0.822	--	0.968	--	--	0.551
OZMW-17D	--	0.994	1.210	0.878	0.826	1.460	0.810	0.588	0.876	0.858	1.270
OZMW-17I	0.689	--	0.504	0.618	0.628	0.999	0.493	0.370	0.505	0.568	0.785
OZMW-17I2	0.237	--	0.147	0.180	0.174	0.345	0.184	0.192	0.319	0.357	0.900
OZMW-17S	0.587	--	0.742	0.720	0.693	0.999	0.532	0.560	0.871	1.000	1.130
OZMW-18D	--	1.760	--	--	--	1.580	--	1.790	--	--	4.100
OZMW-18I	0.496	--	--	--	--	0.595	--	0.531	--	--	0.496
OZMW-18I2	0.482	--	--	--	--	0.790	--	0.949	--	--	0.879
OZMW-18S	0.405	--	--	--	--	0.826	--	0.678	--	--	0.675
OZMW-22D	--	--	--	--	--	0.193	--	0.201	--	--	0.142
OZMW-22I	--	--	--	--	--	0.447	--	0.562	--	--	0.481
OZMW-22I2	--	--	--	--	--	0.494	--	0.670	--	--	0.540
OZMW-22S	--	--	--	--	--	1.050	--	1.530	--	--	0.930
<b>Dissolved Oxygen (mg/L)</b>											
OZMW-16D	--	0.0	--	--	--	0.0	--	0.0	--	--	0.0
OZMW-16I	--	--	--	--	--	20.0	--	20.0	--	--	20.0
OZMW-16I2	0.0	--	--	--	--	1.4	--	0.0	--	--	0.0
OZMW-16S	0.0	--	--	--	--	20.0	--	20.0	--	--	20.0
OZMW-17D	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
OZMW-17I	0.0	--	6.0	35.0	21.0	20.0	19.0	24.0	25.0	28.0	1.7
OZMW-17I2	0.0	--	0.0	5.0	5.0	7.4	7.0	5.0	3.0	3.0	2.0
OZMW-17S	0.0	--	14.0	22.0	21.0	20.0	19.0	8.0	3.0	6.0	3.0
OZMW-18D	--	0.0	--	--	--	0.0	--	0.0	--	--	0.0
OZMW-18I	0.0	--	--	--	--	0.0	--	4.6	--	--	0.8
OZMW-18I2	0.0	--	--	--	--	0.0	--	8.8	--	--	0.0
OZMW-18S	0.0	--	--	--	--	17.4	--	20.0	--	--	9.4
OZMW-22D	--	--	--	--	--	0.0	--	0.0	--	--	0.0
OZMW-22I	--	--	--	--	--	0.0	--	0.0	--	--	0.0
OZMW-22I2	--	--	--	--	--	0.0	--	0.0	--	--	0.0
OZMW-22S	--	--	--	--	--	0.0	--	0.0	--	--	0.0
<b>Oxidation Reduction Potential (mV)</b>											
OZMW-16D	--	-48	--	--	--	73	--	43	--	--	83
OZMW-16I	--	--	--	--	--	224	--	113	--	--	180
OZMW-16I2	86	--	--	--	--	189	--	109	--	--	84
OZMW-16S	-108	--	--	--	--	138	--	76	--	--	139
OZMW-17D	--	13	36	17	-34	26	21	35	-38	-76	69
OZMW-17I	-144	--	35	89	77	58	62	16	104	47	-23
OZMW-17I2	110	--	106	127	122	179	144	114	149	51	107
OZMW-17S	-137	--	144	58	76	42	49	-34	12	-28	-61
OZMW-18D	--	-93	--	--	--	-109	--	-114	--	--	-64
OZMW-18I	-168	--	--	--	--	-61	--	-46	--	--	-66
OZMW-18I2	-54	--	--	--	--	-52	--	-25	--	--	-92
OZMW-18S	-112	--	--	--	--	-40	--	0	--	--	31
OZMW-22D	--	--	--	--	--	110	--	67	--	--	97
OZMW-22I	--	--	--	--	--	185	--	70	--	--	170
OZMW-22I2	--	--	--	--	--	183	--	92	--	--	176
OZMW-22S	--	--	--	--	--	-137	--	-154	--	--	-120



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	Oct-08	Nov-08	Dec-08
<b>pH</b>											
OZMW-16D	--	5.65	--	--	--	5.04	--	4.99	--	--	5.04
OZMW-16I	--	--	--	--	--	5.54	--	5.86	--	--	6.14
OZMW-16I2	5.25	--	--	--	--	5.08	--	5.37	--	--	5.46
OZMW-16S	6.23	--	--	--	--	6.35	--	6.14	--	--	6.39
OZMW-17D	--	5.31	5.73	5.44	5.36	5.28	5.35	5.28	6.07	6.00	5.77
OZMW-17I	6.69	--	6.97	6.71	6.67	6.75	6.73	6.68	6.78	6.10	6.98
OZMW-17I2	6.09	--	6.65	6.06	6.03	5.96	5.92	0.19	6.00	5.77	6.34
OZMW-17S	6.42	--	6.60	6.59	6.54	6.61	6.58	6.48	6.99	6.44	6.92
OZMW-18D	--	5.83	--	--	--	6.14	--	5.71	--	--	5.91
OZMW-18I	6.55	--	--	--	--	6.37	--	5.84	--	--	6.50
OZMW-18I2	6.35	--	--	--	--	6.46	--	7.76	--	--	6.43
OZMW-18S	6.34	--	--	--	--	6.25	--	5.78	--	--	6.38
OZMW-22D	--	--	--	--	--	5.22	--	4.92	--	--	5.48
OZMW-22I	--	--	--	--	--	6.05	--	5.55	--	--	5.84
OZMW-22I2	--	--	--	--	--	6.10	--	5.57	--	--	6.00
OZMW-22S	--	--	--	--	--	6.53	--	6.01	--	--	6.39
<b>Temperature (degrees Celcius)</b>											
OZMW-16D	--	12.6	--	--	--	13.6	--	15.6	--	--	13.3
OZMW-16I	--	--	--	--	--	15.7	--	16.2	--	--	14.2
OZMW-16I2	12.7	--	--	--	--	15.5	--	16.1	--	--	13.3
OZMW-16S	11.0	--	--	--	--	18.4	--	18.9	--	--	14.3
OZMW-17D	--	11.9	14.1	15.7	17.0	15.6	16.9	15.7	14.2	13.3	12.1
OZMW-17I	13.0	--	13.7	15.7	16.3	17.5	17.2	16.4	15.9	14.7	13.9
OZMW-17I2	12.9	--	13.7	15.5	17.3	15.4	17.3	15.3	15.2	14.5	13.1
OZMW-17S	10.9	--	12.6	14.6	18.1	19.0	19.8	19.4	17.9	15.6	12.6
OZMW-18D	--	11.7	--	--	--	14.7	--	17.1	--	--	13.9
OZMW-18I	11.9	--	--	--	--	16.6	--	17.6	--	--	14.8
OZMW-18I2	12.5	--	--	--	--	15.7	--	23.5	--	--	14.1
OZMW-18S	9.4	--	--	--	--	18.0	--	20.6	--	--	13.9
OZMW-22D	--	--	--	--	--	14.2	--	16.9	--	--	13.2
OZMW-22I	--	--	--	--	--	14.6	--	17.4	--	--	14.5
OZMW-22I2	--	--	--	--	--	14.1	--	16.8	--	--	13.4
OZMW-22S	--	--	--	--	--	17.7	--	17.4	--	--	14.2

Notes:  
 -- Not Recorded  
 mS/cm - milli-siemens per centimeter  
 mg/L - milligrams per 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 <sup>1</sup> (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-05D	11/3/2008	10:01	2.00	25.37	10.83	14.54	
BBMW-05D2	11/3/2008	10:03	2.00	24.27	8.94	15.33	
BBMW-13D	11/3/2008	9:07	2.00	23.90	9.14	14.76	
BBMW-20D	NA	NM	1.00	18.69	NM	NC	Destroyed
BBMW-20I	11/4/2008	14:57	1.00	18.63	4.42	14.21	
BBMW-20S	NA	NM	1.00	18.66	NM	NC	Destroyed
BBMW-22D	11/3/2008	10:07	2.00	23.67	9.36	14.31	
BBMW-22I	11/3/2008	10:06	2.00	23.61	9.21	14.40	
BBMW-22S	11/3/2008	10:05	2.00	23.65	9.24	14.41	
BBMW-26I	11/4/2008	14:35	1.00	25.02	9.20	15.82	
BBMW-26S	11/4/2008	14:33	1.00	24.96	9.14	15.82	
BBMW-27I	11/4/2008	14:43	1.00	25.37	9.53	15.84	
BBMW-27S	11/4/2008	14:42	1.00	25.03	9.22	15.81	
MW-03D	11/3/2008	9:06	4.00	22.48	7.76	14.72	
MW-03S	11/3/2008	9:04	4.00	22.59	7.87	14.72	
MW-05D	11/3/2008	10:00	2.00	24.37	9.82	14.55	
MW-05S	11/3/2008	9:59	2.00	24.05	9.51	14.54	
MW-09I	11/4/2008	14:39	2.00	24.71	8.64	16.07	
MW-09S	11/4/2008	14:37	4.00	25.17	9.08	16.09	
OZMW-16S	11/3/2008	11:08	2.00	19.88	6.12	13.76	
OZMW-16I	11/3/2008	11:09	2.00	19.9	6.14	13.76	
OZMW-16I2	11/3/2008	11:10	2.00	19.72	5.95	13.77	
OZMW-16D	11/3/2008	11:11	2.00	20.1	6.29	13.81	
OZMW-17S	11/3/2008	11:18	2.00	19.83	5.99	13.84	
OZMW-17I	11/3/2008	11:19	2.00	19.91	6.08	13.83	
OZMW-17I2	11/3/2008	11:19	2.00	19.86	6.07	13.79	
OZMW-17D	11/3/2008	11:20	2.00	19.88	6.08	13.80	
OZMW-18S	11/3/2008	11:26	2.00	19.56	5.80	13.76	
OZMW-18I	11/3/2008	11:27	2.00	19.98	5.84	14.14	
OZMW-18I2	11/3/2008	11:28	2.00	19.97	5.74	14.23	
OZMW-18D	11/3/2008	11:29	2.00	19.53	5.77	13.76	
OZMW-22S	11/3/2008	10:14	2.00	19.43	5.28	14.15	
OZMW-22I	11/3/2008	10:15	2.00	19.67	5.51	14.16	
OZMW-22I2	11/3/2008	10:16	2.00	19.66	5.51	14.15	
OZMW-22D	11/3/2008	10:16	2.00	19.48	5.36	14.12	

**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	November-08	Minimum	Average	Maximum
BBMW-05D	64.0 - 74.0	14.27	15.01	14.01	14.54	12.15	14.22	15.83
BBMW-05D2	126.5 - 136.5	15.07	15.81	14.01	15.33	12.30	14.98	16.27
BBMW-13D	62.0 - 72.0	14.63	15.25	14.09	14.76	12.48	14.60	16.29
BBMW-20S	4.0 - 14.0	NC	NC	NC	NC	11.28	13.25	14.59
BBMW-20I	35.0 - 45.0	13.91	NC	NC	14.21	11.22	13.28	14.51
BBMW-20D	62.0 - 72.0	NC	NC	NC	NC	11.32	13.56	14.80
BBMW-22S	5.0 - 10.0	13.86	14.63	13.80	14.41	12.01	14.03	15.54
BBMW-22I	30.0 - 40.0	14.11	14.82	13.80	14.40	12.02	14.04	15.52
BBMW-22D	64.0 - 74.0	14.10	14.82	13.68	14.31	12.01	14.02	15.52
BBMW-26S	6.0 - 16.0	15.63	16.38	15.19	15.82	14.74	15.86	16.60
BBMW-26I	30.0 - 40.0	15.64	16.37	15.19	15.82	14.76	15.87	16.62
BBMW-27S	5.0 - 15.0	15.66	16.38	15.21	15.81	14.73	15.86	16.59
BBMW-27I	30.0 - 40.0	15.65	16.33	15.24	15.84	14.78	15.88	16.62
MW-03S	3.0 - 13.0	14.60	15.21	14.05	14.72	12.45	14.54	16.23
MW-03D	35.0 - 45.0	14.60	15.21	14.05	14.72	12.44	14.53	16.22
MW-05S	4.0 - 14.0	14.24	15.01	13.99	9.51	9.51	14.13	17.61
MW-05D	35.5 - 45.5	14.26	14.98	14.00	9.82	9.82	14.52	18.51
MW-09S	4.0 - 14.0	15.85	16.63	15.45	16.09	13.55	15.93	17.44
MW-09I	30.0 - 40.0	15.90	16.64	15.44	16.07	15.02	16.14	16.85
OZMW-16S	5.0 - 15.0	NM	NM	13.06	13.76	13.06	13.06	13.06
OZMW-16I	20.0 - 30.0	NM	NM	13.07	13.76	13.07	13.07	13.07
OZMW-16I2	35.0 - 45.0	NM	NM	13.11	13.77	13.11	13.11	13.11
OZMW-16D	55.0 - 65.0	NM	NM	13.05	13.81	13.05	13.05	13.05
OZMW-17S	5.0 - 15.0	NM	NM	13.1	13.84	13.10	13.10	13.10
OZMW-17I	20.0 - 30.0	NM	NM	13.07	13.83	13.07	13.07	13.07
OZMW-17I2	35.0 - 45.0	NM	NM	13.05	13.79	13.05	13.05	13.05
OZMW-17D	53.0 - 63.0	NM	NM	13.02	13.8	13.02	13.02	13.02
OZMW-18S	5.0 - 15.0	NM	NM	12.72	13.76	12.72	12.72	12.72
OZMW-18I	20.0 - 30.0	NM	NM	13.38	14.14	13.38	13.38	13.38
OZMW-18I2	35.0 - 45.0	NM	NM	13.49	14.23	13.49	13.49	13.49
OZMW-18D	55.0 - 65.0	NM	NM	12.98	13.76	12.98	12.98	12.98
OZMW-22S	5.0 - 15.0	NM	NM	13.44	14.15	13.44	13.44	13.44
OZMW-22I	20.0 - 30.0	NM	NM	13.48	14.16	13.48	13.48	13.48
OZMW-22I2	35.0 - 45.0	NM	NM	13.46	14.15	13.46	13.46	13.46
OZMW-22D	55.0 - 65.0	NM	NM	13.42	14.12	13.42	13.42	13.42

**Notes:**

NM - Not Measured

bgs - below ground surface

Well Elevations obtained from 2007 Survey or later 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 (feet)	Total BTEX Concentrations (ug/l)																
		Sampling Date																
		1992	1999		2002			2003			2004			2005				
		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 (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-July	July-Sep	Oct-Dec					
BBMW-05D	64.0 - 74.0	890	1,267	3,150	553	1,597	613	21	399	717	727	790	1,414	0	3,150	962	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	1,359	--	--	--	--	--	1,359	9,639	3,569	1,359	1,359
BBMW-20I	35.0 - 45.0	--	--	165	125	105	12	29	13	8	5	6	8	5	193	81	5	5
BBMW-20S	4.0 - 14.0	--	--	19,133	12,900	173	4,144	2,677	--	--	--	--	--	173	19,133	8,973	173	173
BBMW-22D	64.0 - 74.0	1,020	--	--	--	1,558	1,580	2,807	3,126	2,356	3,126	4,810	2,835	1,020	8,600	3,410	1,020	1,020
BBMW-22I	30.0 - 40.0	16	--	--	--	0	43	37	32	31	32	38	42	0	43	26	0	0
BBMW-22S	5.0 - 10.0	12,370	10,300	--	--	10,850	10,420	14,810	7,150	5,816	7,340	9,140	10,770	5,816	25,800	13,294	5,816	5,816
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	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	0
MW-05D	35.5 - 45.5	--	0	0	0	0	18	22	0	0	0	7	5	0	253	21	0	0
MW-05S	4.0 - 14.0	--	17,327	18,100	24,600	48,430	15,905	12,929	18,130	15,095	8,060	14,554	2,304	8,060	48,430	22,706	2,304	2,304
MW-09I	30.0 - 40.0	0	--	--	--	0	0	2	--	4	--	--	--	0	4	1	0	0
MW-09S	4.0 - 14.0	0	--	--	--	0	0	0	0	0	0	0	0	0	29	2	0	0
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	512	105	136	189	105	512	251	105	105
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	3	4	8	2	3	8	5	2	2
OZMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	4,685	0	0	0	0	4,685	1,562	0	0
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	1,316	82	23	40	23	1,316	474	23	23
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	1,664	78	52	25	52	1,664	598	25	25
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	77	31	79	147	31	79	62	31	31
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	3,600	169	25	84	25	3,600	1,265	25	25
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	201	95	57	123	57	201	118	57	57
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	3,160	54	212	24	54	3,160	1,142	24	24
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0
OZMW-22I	20.0 - 30.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0
OZMW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	7,077	7,480	7,381	6,074	7,077	7,480	7,313	6,074	6,074

**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.



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																
		1992			1999			2002			2003			2004			2005	
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	
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)												Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date																
		2006				2007				2008								
		March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-July	July-Sep	Oct-Dec					
BBMW-05D	64.0 - 74.0	2,924	352	4,492	2,386	2,371	1,233	40	930	981	1,203	1,555	1,165	40	4,492	2,132	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	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	165	48	8,636	4,716	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	8,516	4,257	4,894	6,242	5,681	2,725	145,100	16,658	2,725	145,100
BBMW-22I	30.0 - 40.0	7,028	--	--	--	4,696	4,283	4,879	5,212	5,536	4,290	4,506	4,680	3,500	8,810	5,680	3,500	8,810
BBMW-22S	5.0 - 10.0	4,131	2,214	--	--	1,634	2,931	3,629	3,189	24	25	1,876	1,972	24	4,780	2,721	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	2	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	2,644	390	1,988	107	55	4,944	2,315	55	4,944
MW-05S	4.0 - 14.0	2,220	1,647	2,493	1,652	1,647	1,294	1,630	1,431	1,699	144	1,306	7	144	5,514	2,069	7	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	0	74	5	0	74
OZMW-16D	55.0 - 65.0	--	--	--	--	--	--	--	--	1	0	0	0	0	1	0	0	1
OZMW-16I	20.0 - 30.0	--	--	--	--	--	--	--	--	1,447	39	22	440	22	1,447	503	22	1,447
OZMW-16I2	35.0 - 45.0	--	--	--	--	--	--	--	--	0	219	0	159	0	219	73	0	219
OZMW-16S	5.0 - 15.0	--	--	--	--	--	--	--	--	830	2	0	0	0	830	277	0	830
OZMW-17D	53.0 - 63.0	--	--	--	--	--	--	--	--	27	0	0	3	0	27	9	0	27
OZMW-17I	20.0 - 30.0	--	--	--	--	--	--	--	--	5,197	5	0	0	0	5,197	1,734	0	5,197
OZMW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	7	0	2	0	0	7	3	0	7
OZMW-17S	5.0 - 15.0	--	--	--	--	--	--	--	--	1,963	1	0	0	0	1,963	655	0	1,963
OZMW-18D	55.0 - 65.0	--	--	--	--	--	--	--	--	1,684	461	108	1,279	108	1,684	751	108	1,684
OZMW-18I	20.0 - 30.0	--	--	--	--	--	--	--	--	2,312	625	7	600	7	2,312	981	7	2,312
OZMW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	8,178	7,353	11,417	10,065	7,353	11,417	8,983	7,353	11,417
OZMW-18S	5.0 - 15.0	--	--	--	--	--	--	--	--	569	15	0	2	0	569	195	0	569
OZMW-22D	55.0 - 65.0	--	--	--	--	--	--	--	--	0	0	0	49	0	0	0	0	49
OZMW-22I	20.0 - 30.0	--	--	--	--	--	--	--	--	0	0	1	0	0	1	0	0	1
OZMW-22I2	35.0 - 45.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0
OZMW-22S	5.0 - 15.0	--	--	--	--	--	--	--	--	2,191	2,555	1,359	1,684	1,359	2,555	2,035	1,359	2,555

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

Sample Name: Sample Interval: Sample Date:	NYS AWQS	OU1 BMW-22D 64-74 12/11/08	OU1 BMW-22I 30-40 12/11/08	OU1 BMW-22S 5-10 12/11/08	OU1 BMW-27S 5-15 11/17/08	OU1 MW-09S 4-14 11/17/08
<b>BTEX (ug/L)</b>						
Benzene	1	<b>5 J</b>	<b>2 J</b>	<b>1200</b>	10 U	10 U
Toluene	5	<b>780</b>	<b>1 J</b>	<b>770</b>	10 U	10 U
Ethylbenzene	5	<b>250</b>	<b>11</b>	<b>3700</b>	10 U	10 U
Xylene, total	5	<b>1800</b>	<b>28</b>	<b>5100</b>	10 U	10 U
Total BTEX	NE	<b>2835</b>	<b>42</b>	<b>10770</b>	ND	ND
<b>Other VOCs (ug/L)</b>						
Methyl tert-butyl ether	10*	10 U	<b>6 J</b>	10 U	10 U	10 U
<b>Non-carcinogenic PAHs (ug/L)</b>						
Acenaphthene	20*	<b>14</b>	<b>150 J</b>	<b>51</b>	10 U	10 U
Acenaphthylene	NE	<b>210 J</b>	<b>15</b>	<b>170</b>	10 U	10 U
Anthracene	50*	<b>13</b>	<b>7</b>	<b>9</b>	10 U	10 U
Fluoranthene	50*	<b>5</b>	<b>2 J</b>	<b>3 J</b>	10 U	10 U
Fluorene	50*	<b>42</b>	<b>43</b>	<b>47</b>	10 U	10 U
Methylnaphthalene, 2-	NE	<b>740</b>	<b>920</b>	<b>450</b>	10 U	10 U
Naphthalene	10*	<b>4600</b>	<b>3500</b>	<b>1200</b>	10 UJ	10 UJ
Phenanthrene	50*	<b>51</b>	<b>41</b>	<b>38</b>	10 U	10 U
Pyrene	50*	<b>6</b>	<b>2 J</b>	<b>4 J</b>	10 U	10 U
Total Non-carcinogenic PAHs	NE	<b>5681</b>	<b>4680</b>	<b>1972</b>	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>						
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>						
Total PAHs	NE	<b>5681</b>	<b>4680</b>	<b>1972</b>	ND	ND
<b>Other (cfu/ml)</b>						
Standard Plate Count	NE	NA	NA	NA	NA	NA

**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
- 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
- UJ - indicates not detected at or above the reporting limit shown and the reporting limit is estimated
- J - estimated value

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

Operable Unit: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU1 BBMW-05D 64-74 12/17/08	OU1 BBMW-20I 35-45 12/17/08	OU1 MW-05D 35.5-45.5 12/17/08	OU1 MW-05S 4-14 12/16/08
<b>BTEX (ug/L)</b>					
Benzene	1	20	10 U	4 J	44
Toluene	5	420	10 U	10 U	120
Ethylbenzene	5	94	10 U	10 U	820
Xylene, m,p-	5	590	6	1 J	890
Xylene, o-	5	290	2 J	10 U	430
Total BTEX	NE	1414	8	5	2304
<b>Other VOCs (ug/L)</b>					
Acetone	50*	10 U	10 U	10 U	10 U
Bromomethane	5	4 J	10 UJ	10 UJ	10 U
Butanone, 2-	50*	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	61	10 U
Chloromethane	5	48	10 U	10 U	10 UJ
Cyclohexane	NE	10 U	10 U	10 U	10 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U
Heptane, n-	NE	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 U	10 U	10 U	10 UJ
Isopropyl benzene	5	2 J	2 J	10 U	14
Methyl tert-butyl ether	10*	3 J	10	15	10 U
Naphthalene	10*	3500	2000	840	280
Nonane	NE	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA
Propylbenzene, n-	5	9	8	8	5
Styrene	5	460	5 J	21 J	10 U
Tetrachloroethene	5	10 U	1 J	3 J	1 J
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	57	55	49	69
Trimethylbenzene, 1,2,4-	5	140	120	88	100
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>					
Acenaphthene	20*	5	7	13	4 J
Acenaphthylene	NE	55	62	50	1 J
Anthracene	50*	11	5	5	10 U
Fluoranthene	50*	4 J	1 J	2 J	10 U
Fluorene	50*	23	19	29	1 J
Methylnaphthalene, 2-	NE	170	43	10 U	10 U
Naphthalene	10*	840	9	10 U	10 U
Phenanthrene	50*	52	18	5	10 U
Pyrene	50*	5	1 J	3 J	1 J
Total Non-carcinogenic PAHs	NE	1165	165	107	7
<b>Carcinogenic PAHs (ug/L)</b>					
Total Carcinogenic PAHs	NE	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>					
Total PAHs	NE	1165	165	107	7

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

Operable Unit: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU1 BBMW-05D 64-74 12/17/08	OU1 BBMW-20I 35-45 12/17/08	OU1 MW-05D 35.5-45.5 12/17/08	OU1 MW-05S 4-14 12/16/08
<b>Total Metals (ug/L)</b>					
Aluminum	NE	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA
<b>Other (mg/L)</b>					
Nitrogen, Ammonia	2000	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA

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

Operable Unit: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU1 OZMW-16D 55-65 12/10/08	OU1 OZMW-16I 20-30 12/10/08	OU1 OZMW-16I2 35-45 12/10/08	OU1 OZMW-16S 5-15 12/10/08
<b>BTEX (ug/L)</b>					
Benzene	1	10 U	10 U	10 U	10 U
Toluene	5	10 U	4 J	10 U	10 U
Ethylbenzene	5	10 U	37	10 U	10 U
Xylene, m,p-	5	10 U	63	10 U	10 U
Xylene, o-	5	10 U	85	2 J	10 U
Total BTEX	NE	ND	189	2	ND
<b>Other VOCs (ug/L)</b>					
Acetone	50*	10 UJ	3 J	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 U	10 U
Butanone, 2-	50*	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	7	10 U	10 U	10 U	10 U
Chloromethane	5	10 UJ	10 UJ	10 UJ	10 UJ
Cyclohexane	NE	10 UJ	10 U	10 UJ	10 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U
Heptane, n-	NE	10 UJ	10 U	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	10 U	10 UJ	10 UJ
Isopropyl benzene	5	10 U	2 J	2 J	10 U
Methyl tert-butyl ether	10*	10 UJ	10 U	3 J	10 UJ
Naphthalene	10*	10 U	1100	140	10 U
Nonane	NE	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 UJ	10 UJ	10 UJ	10 UJ
Tetrahydrofuran	50*	10 UJ	10 U	10 UJ	10 UJ
Trichloroethene	5	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	68	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	54	7	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 U	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>					
Acenaphthene	20*	10 U	10	6	10 U
Acenaphthylene	NE	10 U	68	23	10 U
Anthracene	50*	10 U	1 J	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	14	7	10 U
Methylnaphthalene, 2-	NE	10 U	59	6	10 U
Naphthalene	10*	10 U	280	110	10 U
Phenanthrene	50*	10 U	7	7	10 U
Pyrene	50*	10 U	1 J	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	440	159	ND
<b>Carcinogenic PAHs (ug/L)</b>					
Total Carcinogenic PAHs	NE	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>					
Total PAHs	NE	ND	440	159	ND

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

Operable Unit: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU1 OZMW-16D 55-65 12/10/08	OU1 OZMW-16I 20-30 12/10/08	OU1 OZMW-16I2 35-45 12/10/08	OU1 OZMW-16S 5-15 12/10/08
<b>Total Metals (ug/L)</b>					
Aluminum	NE	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA
<b>Other (mg/L)</b>					
Nitrogen, Ammonia	2000	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA

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

Operable Unit: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU1 OZMW-17D 53-63 11/26/08	OU1 OZMW-17I 20-30 11/26/08	OU1 OZMW-17I2 35-45 11/26/08	OU1 OZMW-17S 5-15 11/26/08
<b>BTEX (ug/L)</b>					
Benzene	1	10 U	9	10 U	5
Toluene	5	10 U	10 U	10 U	10 U
Ethylbenzene	5	10 U	13	10 U	7
Xylene, m,p-	5	10 U	8	10 U	5
Xylene, o-	5	10 U	10	10 U	8
Total BTEX	NE	ND	40	ND	25
<b>Other VOCs (ug/L)</b>					
Acetone	50*	10 U	10 U	10 U	10 U
Bromomethane	5	10 U	10 U	10 U	10 U
Butanone, 2-	50*	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 UJ	10 UJ	10 UJ	10 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ
Isopropyl benzene	5	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	10*	10 U	1 J	9 J	1 J
Naphthalene	10*	8	450	32	150
Nonane	NE	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	1 J	10 U	10 U
Tetrahydrofuran	50*	10 UJ	10 UJ	10 UJ	10 UJ
Trichloroethene	5	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	20	10 U	20
Trimethylbenzene, 1,2,4-	5	10 U	29	10 U	22
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>					
Acenaphthene	20*	10 U	10 U	10 U	10 U
Acenaphthylene	NE	2 J	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U
Naphthalene	10*	1 J	10 UJ	10 UJ	10 UJ
Phenanthrene	50*	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	3	ND	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>					
Total Carcinogenic PAHs	NE	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>					
Total PAHs	NE	3	ND	ND	ND



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

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU1 OZMW-17D 53-63 11/26/08</b>	<b>OU1 OZMW-17I 20-30 11/26/08</b>	<b>OU1 OZMW-17I2 35-45 11/26/08</b>	<b>OU1 OZMW-17S 5-15 11/26/08</b>
<b>Total Metals (ug/L)</b>					
Aluminum	NE	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA
<b>Other (mg/L)</b>					
Nitrogen, Ammonia	2000	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA

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

Operable Unit: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU1 OZMW-18D 55-65 12/16/08	OU1 OZMW-18I 20-30 12/16/08	OU1 OZMW-18I2 35-45 12/16/08	OU1 OZMW-18S 5-15 12/16/08
<b>BTEX (ug/L)</b>					
Benzene	1	3 J	1 J	1 J	10 U
Toluene	5	22	2 J	1 J	10 U
Ethylbenzene	5	15	33	9	10
Xylene, m,p-	5	74	25	85	2 J
Xylene, o-	5	33	23	27	12
Total BTEX	NE	147	84	123	24
<b>Other VOCs (ug/L)</b>					
Acetone	50*	10 U	3 J	4 J	10 UJ
Bromomethane	5	10 U	10 U	10 U	10 U
Butanone, 2-	50*	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	4 J	10 U
Chloromethane	5	10 UJ	10 UJ	10 UJ	10 UJ
Cyclohexane	NE	10 UJ	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U
Heptane, n-	NE	10 U	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ
Isopropyl benzene	5	5	13	110	6
Methyl tert-butyl ether	10*	5	10 U	2 J	10 U
Naphthalene	10*	2100	1500	14000	220 J
Nonane	NE	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA
Propylbenzene, n-	5	11	11	44	10 U
Styrene	5	32	10 U	22	10 U
Tetrachloroethene	5	10 UJ	2 J	12	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	62	140	570 J	59
Trimethylbenzene, 1,2,4-	5	150	210	1100 J	61
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>					
Acenaphthene	20*	8	130	69	2 J
Acenaphthylene	NE	110	44	160 J	10 U
Anthracene	50*	3 J	6	15	10 U
Fluoranthene	50*	1 J	2 J	3 J	10 U
Fluorene	50*	20	39	59	10 U
Methylnaphthalene, 2-	NE	130	130	1200	10 U
Naphthalene	10*	980	220	8500	10 U
Phenanthrene	50*	26	27	56	10 U
Pyrene	50*	1 J	2 J	3 J	10 U
Total Non-carcinogenic PAHs	NE	1279	600	10065	2
<b>Carcinogenic PAHs (ug/L)</b>					
Total Carcinogenic PAHs	NE	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>					
Total PAHs	NE	1279	600	10065	2

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

Operable Unit: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU1 OZMW-18D 55-65 12/16/08	OU1 OZMW-18I 20-30 12/16/08	OU1 OZMW-18I2 35-45 12/16/08	OU1 OZMW-18S 5-15 12/16/08
<b>Total Metals (ug/L)</b>					
Aluminum	NE	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA
<b>Other (mg/L)</b>					
Nitrogen, Ammonia	2000	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA

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

Operable Unit: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU1 OZMW-22D 55-65 12/12/08	OU1 OZMW-22I 20-30 12/12/08	OU1 OZMW-22I2 35-45 12/12/08	OU1 OZMW-22S 5-15 12/12/08
<b>BTEX (ug/L)</b>					
Benzene	1	10 U	10 U	10 U	14
Toluene	5	10 U	10 U	10 U	140
Ethylbenzene	5	10 U	10 U	10 U	4000
Xylene, m,p-	5	10 U	10 U	10 U	1000
Xylene, o-	5	10 U	10 U	10 U	920
Total BTEX	NE	ND	ND	ND	6074
<b>Other VOCs (ug/L)</b>					
Acetone	50*	10 UJ	10 UJ	10 UJ	10 UJ
Bromomethane	5	R	10 U	10 U	10 U
Butanone, 2-	50*	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ
Isopropyl benzene	5	10 U	10 U	10 U	260
Methyl tert-butyl ether	10*	1 J	10 U	4 J	10 U
Naphthalene	10*	10 U	10 U	10 U	1900
Nonane	NE	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U	130
Styrene	5	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 UJ	10 UJ	10 UJ	10 UJ
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U	450
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U	1100
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	8 J	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>					
Acenaphthene	20*	2 J	10 U	10 U	34
Acenaphthylene	NE	10 U	10 U	10 U	8
Anthracene	50*	10 U	10 U	10 U	5
Fluoranthene	50*	10 U	10 U	10 U	2 J
Fluorene	50*	10 U	10 U	10 U	23
Methylnaphthalene, 2-	NE	10	10 U	10 U	180
Naphthalene	10*	37	10 U	10 U	1400
Phenanthrene	50*	10 U	10 U	10 U	30
Pyrene	50*	10 U	10 U	10 U	2 J
Total Non-carcinogenic PAHs	NE	49	ND	ND	1684
<b>Carcinogenic PAHs (ug/L)</b>					
Total Carcinogenic PAHs	NE	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>					
Total PAHs	NE	49	ND	ND	1684

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

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU1 OZMW-22D 55-65 12/12/08</b>	<b>OU1 OZMW-22I 20-30 12/12/08</b>	<b>OU1 OZMW-22I2 35-45 12/12/08</b>	<b>OU1 OZMW-22S 5-15 12/12/08</b>
<b>Total Metals (ug/L)</b>					
Aluminum	NE	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA
<b>Other (mg/L)</b>					
Nitrogen, Ammonia	2000	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA

Table 2-9  
Summary of Expanded Groundwater Analytical Results  
Bay Shore/Brightwaters Former MGP Site  
Operations, Maintenance and Monitoring Program  
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	May-06
<b>Conductivity (mS/cm)</b>														
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	0.387
BBMW-25S	--	0.465	0.288	0.638	--	0.650	--	--	--	0.467	0.354	0.348	0.300	0.236
OU2MW-01D	--	--	--	--	--	--	--	--	--	--	--	0.520	--	--
OU2MW-01I	--	--	--	--	--	0.456	--	--	0.470	--	0.701	0.506	0.450	0.494
OU2MW-01I2	--	--	--	--	--	--	--	--	0.187	--	0.287	0.186	0.174	0.196
OU2MW-01S	--	--	--	--	--	0.548	--	--	0.609	--	--	0.608	0.482	0.465
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Dissolved Oxygen (mg/L)</b>														
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	25.0
BBMW-25S	--	0.0	1.1	1.8	--	3.0	--	--	--	9.9	20.0	26.5	39.0	33.0
OU2MW-02D	--	--	--	--	--	0.9	--	--	--	--	0.0	--	--	--
OU2MW-01D	--	--	--	--	--	--	--	--	--	--	--	0.0	--	--
OU2MW-01I	--	--	--	--	--	2.4	--	--	0.4	--	20.0	29.0	35.0	37.0
OU2MW-01I2	--	--	--	--	--	--	--	--	0.4	--	0.0	0.0	0.0	0.3
OU2MW-01S	--	--	--	--	--	3.0	--	--	0.4	--	--	0.0	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	--	--	--

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	May-06
<b>Dissolved Oxygen (mg/L) continued</b>														
OU2MW-08I	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--	--
OU2MW-08I2	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--	--
OU2MW-08S	--	--	--	--	--	--	--	0.0	--	--	0.0	--	--	--
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Oxidation Reduction Potential (mV)</b>														
BBMW-25D	92	67	72	76	--	7	--	--	--	--	--	59	--	--
BBMW-25I	-80	-94	-80	-95	--	217	--	--	--	-88	-52	-38.3	-32.4	17.6
BBMW-25S	--	93	118	115	--	-92	--	--	--	151	148	202	166.9	216
OU2MW-01D	--	--	--	--	--	--	--	--	--	--	--	66	--	--
OU2MW-01I	--	--	--	--	--	15	--	--	-477	--	123	193	148	207
OU2MW-01I2	--	--	--	--	--	--	--	--	-480	--	-54	-37.2	-38.6	-25.9
OU2MW-01S	--	--	--	--	--	-116	--	--	-462	--	--	-101.2	-99.9	-78
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>pH (std. units)</b>														
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	6.51
BBMW-25S	--	6.27	6.23	5.99	--	6.51	--	--	--	6.09	6.28	6.34	6.40	6.50
OU2MW-01D	--	--	--	--	--	--	--	--	--	--	--	5.56	--	--
OU2MW-01I	--	--	--	--	--	6.14	--	--	7.12	--	6.22	6.25	6.28	6.26
OU2MW-01I2	--	--	--	--	--	--	--	--	7.05	--	6.46	6.50	6.53	6.52
OU2MW-01S	--	--	--	--	--	6.61	--	--	7.09	--	--	6.49	6.57	6.50
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	--	--



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	May-06
<b>pH (std. units) continued</b>														
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	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Temperature (deg C)</b>														
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	15.9
BBMW-25S	--	19.1	13.8	10.5	--	18.2	--	--	--	13.3	11.2	12.1	12.2	16.4
OU2MW-01D	--	--	--	--	--	--	--	--	--	--	--	11.9	--	--
OU2MW-01I	--	--	--	--	--	18.4	--	--	13.4	--	12.0	14.2	12.8	15.8
OU2MW-01I2	--	--	--	--	--	--	--	--	12.8	--	12.5	13.1	12.4	15.6
OU2MW-01S	--	--	--	--	--	18.4	--	--	15.0	--	--	14.2	12.6	15.9
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	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
<b>Conductivity (mS/cm)</b>														
BBMW-25D	0.056	--	--	0.084	--	0.100	0.047	--	--	0.034	0.048	0.055	0.063	0.073
BBMW-25I	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
BBMW-25S	0.232	0.310	0.314	0.303	0.336	0.376	--	0.452	0.359	0.363	--	0.353	0.349	0.277
OU2MW-01D	0.000	--	--	0.035	--	0.041	--	--	--	0.032	0.040	0.034	0.069	0.042
OU2MW-01I	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
OU2MW-01I2	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
OU2MW-01S	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
OU2MW-01WT	--	--	--	--	--	--	--	--	--	--	--	--	0.710	0.648
OU2MW-02D	0.036	--	--	0.036	--	--	--	--	--	0.050	--	0.042	--	--
OU2MW-02I	0.199	--	--	0.201	--	0.230	--	--	--	0.271	--	0.301	--	--
OU2MW-02I2	0.067	--	--	0.064	--	0.068	--	--	--	0.087	--	0.093	--	--
OU2MW-02S	0.514	--	--	0.406	--	0.444	--	--	--	0.432	--	0.654	--	--
OU2MW-03D	0.036	--	--	0.034	--	0.047	--	--	--	0.051	--	0.065	--	--
OU2MW-03I	0.226	--	--	0.200	--	0.545	--	--	--	0.460	--	0.536	--	--
OU2MW-03I2	0.071	--	--	0.060	--	0.071	--	--	--	0.108	--	0.081	--	--
OU2MW-03S	0.475	--	--	0.557	--	0.047	--	--	--	0.609	--	0.440	--	--
OU2MW-04D	0.047	--	--	0.045	--	0.056	--	--	--	0.063	--	0.040	--	--
OU2MW-04I	0.429	--	--	0.497	--	0.614	--	--	--	0.437	--	0.462	--	--
OU2MW-04I2	0.230	--	--	0.195	--	0.198	--	--	--	0.183	--	0.100	--	--
OU2MW-04S	0.639	--	--	0.535	--	0.680	--	--	--	0.675	--	0.759	--	--
OU2MW-04WT	--	--	--	--	--	--	--	--	--	--	--	--	0.222	--
OU2MW-08D	--	--	0.035	--	--	0.061	--	--	--	0.054	--	--	0.038	0.037
OU2MW-08I	--	--	0.293	--	--	0.433	--	--	--	0.404	--	--	0.373	0.185
OU2MW-08I2	--	--	0.397	--	--	0.775	--	--	--	0.761	--	--	0.461	0.552
OU2MW-08S	--	--	0.564	--	--	0.904	--	--	--	0.778	--	--	0.516	0.999
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	0.681	1.380
<b>Dissolved Oxygen (mg/L)</b>														
BBMW-25D	6.5	--	--	20.0	--	27.0	17.0	--	--	16.0	19.0	32.0	29.0	20.0
BBMW-25I	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
BBMW-25S	24.0	17.0	27.0	32.0	33.0	37.0	--	36.0	35.0	28.0	--	26.0	28.0	20.0
OU2MW-02D	1.6	--	--	0.0	--	--	--	--	--	0.0	--	0.0	--	--
OU2MW-01D	0.0	--	--	0.0	--	0.0	--	--	--	4.0	1.0	0.0	0.0	0.0
OU2MW-01I	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
OU2MW-01I2	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
OU2MW-01S	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
OU2MW-01WT	--	--	--	--	--	--	--	--	--	--	--	--	15.7	16.2
OU2MW-02I	1.6	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	--
OU2MW-02I2	1.5	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	--
OU2MW-02S	1.1	--	--	0.0	--	0.0	--	--	--	20.0	--	0.0	--	--
OU2MW-03D	1.7	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	--
OU2MW-03I	1.7	--	--	0.0	--	0.0	--	--	--	4.1	--	17.8	--	--
OU2MW-03I2	1.9	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	--
OU2MW-03S	1.8	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	--
OU2MW-04D	2.0	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	--
OU2MW-04I	2.1	--	--	0.0	--	0.0	--	--	--	16.4	--	10.1	--	--
OU2MW-04I2	1.9	--	--	0.1	--	0.0	--	--	--	0.0	--	0.0	--	--
OU2MW-04S	1.8	--	--	0.0	--	0.0	--	--	--	0.0	--	0.0	--	--
OU2MW-04WT	--	--	--	--	--	--	--	--	--	--	--	--	7.3	--
OU2MW-08D	--	--	0.0	--	--	0.0	--	--	--	0.0	--	--	2.7	0.0

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	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
<b>Dissolved Oxygen (mg/L) continued</b>														
OU2MW-08I	--	--	0.0	--	--	0.0	--	--	--	0.0	--	--	2.6	0.0
OU2MW-08I2	--	--	0.0	--	--	0.0	--	--	--	0.0	--	--	2.7	1.3
OU2MW-08S	--	--	0.0	--	--	0.0	--	--	--	0.0	--	--	3.0	0.2
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0
<b>Oxidation Reduction Potential (mV)</b>														
BBMW-25D	90	--	--	99	--	172	197	--	--	198	295	278	441	201
BBMW-25I	163	41	10	52.8	49	20	-2	53	69	--	26	40	208	41
BBMW-25S	180	248	137	112.6	146	185	--	260	128	630	--	215	410	201
OU2MW-01D	104	--	--	62	--	69	--	--	--	402	120	-25	50	38
OU2MW-01I	139	298	163	157	149	188	191	223	197	476	237	101	187	207
OU2MW-01I2	-45	93	27	148	53	102	85	140	158	144	137	136	226	82
OU2MW-01S	-104	-52	-117	-71	-67	-61	-70	-54	-89	--	-96	-64	-44	-28
OU2MW-01WT	--	--	--	--	--	--	--	--	--	--	--	--	226	97
OU2MW-02D	105	--	--	85	--	--	--	--	--	65	--	98	--	--
OU2MW-02I	69	--	--	118.2	--	40	--	--	--	52	--	59	--	--
OU2MW-02I2	-15	--	--	-25	--	-3	--	--	--	-25	--	1	--	--
OU2MW-02S	-176	--	--	-145	--	-131	--	--	--	57	--	-84	--	--
OU2MW-03D	29	--	--	43	--	9	--	--	--	60	--	90	--	--
OU2MW-03I	111	--	--	107	--	131	--	--	--	174	--	218	--	--
OU2MW-03I2	-56	--	--	-27	--	-44	--	--	--	-10	--	-124	--	--
OU2MW-03S	-168	--	--	-154	--	47	--	--	--	-129	--	-187	--	--
OU2MW-04D	-29	--	--	-15	--	-7	--	--	--	2	--	-102	--	--
OU2MW-04I	-120	--	--	-93	--	-88	--	--	--	110	--	69	--	--
OU2MW-04I2	-49	--	--	-31.5	--	-17	--	--	--	2	--	-80	--	--
OU2MW-04S	-165	--	--	-149	--	-138	--	--	--	-119	--	-144	--	--
OU2MW-04WT	--	--	--	--	--	--	--	--	--	--	--	--	141	--
OU2MW-08D	--	--	-21	--	--	35	--	--	--	74	--	--	85	56
OU2MW-08I	--	--	-55	--	--	-32	--	--	--	3	--	--	-48	7
OU2MW-08I2	--	--	-132	--	--	-117	--	--	--	-69	--	--	-113	-114
OU2MW-08S	--	--	-143	--	--	-128	--	--	--	-94	--	--	-153	-137
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	-3	144
<b>pH (std. units)</b>														
BBMW-25D	5.71	--	--	5.78	--	5.60	6.06	--	--	4.91	4.68	5.58	5.41	6.34
BBMW-25I	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
BBMW-25S	6.21	5.02	6.41	6.55	6.39	6.11	--	6.24	6.11	6.20	--	6.39	6.23	6.34
OU2MW-01D	4.95	--	--	5.53	--	5.56	--	--	--	6.05	4.81	5.33	6.15	5.43
OU2MW-01I	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
OU2MW-01I2	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
OU2MW-01S	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
OU2MW-01WT	--	--	--	--	--	--	--	--	--	--	--	--	6.51	6.32
OU2MW-02D	4.97	--	--	5.27	--	--	--	--	--	5.40	--	5.64	--	--
OU2MW-02I	6.22	--	--	6.26	--	6.61	--	--	--	5.48	--	6.06	--	--
OU2MW-02I2	5.83	--	--	6.11	--	6.43	--	--	--	6.20	--	5.99	--	--
OU2MW-02S	6.81	--	--	6.72	--	7.15	--	--	--	6.26	--	6.49	--	--
OU2MW-03D	5.75	--	--	5.97	--	6.43	--	--	--	5.92	--	5.24	--	--
OU2MW-03I	5.62	--	--	5.81	--	5.99	--	--	--	6.02	--	5.84	--	--
OU2MW-03I2	6.35	--	--	6.33	--	6.67	--	--	--	6.23	--	6.29	--	--
OU2MW-03S	6.79	--	--	6.74	--	6.14	--	--	--	6.72	--	6.98	--	--
OU2MW-04D	6.41	--	--	6.06	--	6.73	--	--	--	6.20	--	6.26	--	--

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	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
<b>pH (std. units) continued</b>														
OU2MW-04I	6.59	--	--	6.21	--	6.73	--	--	--	5.48	--	5.78	--	--
OU2MW-04I2	6.40	--	--	6.56	--	6.64	--	--	--	6.25	--	6.39	--	--
OU2MW-04S	6.91	--	--	6.48	--	7.10	--	--	--	6.78	--	6.93	--	--
OU2MW-04WT	--	--	--	--	--	--	--	--	--	--	--	--	6.15	--
OU2MW-08D	--	--	5.98	--	--	6.21	--	--	--	5.63	--	--	5.44	5.70
OU2MW-08I	--	--	6.40	--	--	6.80	--	--	--	6.14	--	--	6.37	6.28
OU2MW-08I2	--	--	6.60	--	--	7.00	--	--	--	6.30	--	--	6.61	6.34
OU2MW-08S	--	--	6.78	--	--	7.23	--	--	--	6.64	--	--	6.75	6.81
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	6.31	6.49
<b>Temperature (deg C)</b>														
BBMW-25D	19.1	--	--	16.8	--	15.8	13.0	--	--	11.4	14.1	14.8	16.0	19.5
BBMW-25I	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
BBMW-25S	20.6	24.0	20.8	20.0	16.2	17.4	--	12.1	10.7	17.5	--	17.6	17.1	19.5
OU2MW-01D	16.3	--	--	18.3	--	16.0	--	--	--	14.9	15.6	14.9	17.9	16.8
OU2MW-01I	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
OU2MW-01I2	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
OU2MW-01S	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
OU2MW-01WT	--	--	--	--	--	--	--	--	--	--	--	--	17.1	21.3
OU2MW-02D	14.4	--	--	19.9	--	--	--	--	--	11.2	--	12.3	--	--
OU2MW-02I	16.1	--	--	16.6	--	14.0	--	--	--	11.1	--	13.6	--	--
OU2MW-02I2	15.2	--	--	17.9	--	15.1	--	--	--	13.0	--	12.4	--	--
OU2MW-02S	16.3	--	--	17.8	--	17.2	--	--	--	11.5	--	13.2	--	--
OU2MW-03D	14.0	--	--	14.0	--	13.6	--	--	--	11.6	--	12.3	--	--
OU2MW-03I	14.4	--	--	14.5	--	14.0	--	--	--	13.1	--	13.0	--	--
OU2MW-03I2	14.8	--	--	14.2	--	13.8	--	--	--	12.3	--	12.9	--	--
OU2MW-03S	15.0	--	--	15.2	--	13.5	--	--	--	13.4	--	13.0	--	--
OU2MW-04D	15.5	--	--	14.1	--	13.6	--	--	--	11.9	--	12.6	--	--
OU2MW-04I	16.0	--	--	14.6	--	13.9	--	--	--	12.9	--	12.5	--	--
OU2MW-04I2	15.1	--	--	15.9	--	13.9	--	--	--	10.7	--	13.0	--	--
OU2MW-04S	15.5	--	--	15.1	--	14.6	--	--	--	11.2	--	11.8	--	--
OU2MW-04WT	--	--	--	--	--	--	--	--	--	--	--	--	14.3	--
OU2MW-08D	--	--	17.1	--	--	14.5	--	--	--	11.0	--	--	16.9	16.3
OU2MW-08I	--	--	17.1	--	--	15.3	--	--	--	12.1	--	--	18.2	15.9
OU2MW-08I2	--	--	16.1	--	--	14.8	--	--	--	12.1	--	--	17.4	16.4
OU2MW-08S	--	--	18.1	--	--	16.9	--	--	--	12.5	--	--	17.4	17.4
OU2MW-08WT	--	--	--	--	--	--	--	--	--	--	--	--	20.3	20.3





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	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Aug-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	
<b>pH (std. units) continued</b>																			
OU2MW-04I	--	6.17	--	6.04	--	--	5.75	--	--	6.06	--	--	--	--	5.90	--	6.11	--	
OU2MW-04I2	--	6.29	--	6.54	--	--	6.01	--	--	6.34	--	--	--	--	6.00	--	6.29	--	
OU2MW-04S	--	6.59	--	6.96	--	--	6.36	--	--	6.44	--	--	--	--	6.45	--	6.61	--	
OU2MW-04WT	--	6.70	--	--	--	--	5.84	--	--	5.84	--	--	--	--	5.93	--	6.21	--	
OU2MW-08D	5.67	--	--	5.51	--	--	5.60	--	--	--	5.18	--	--	5.52	--	--	--	6.69	
OU2MW-08I	6.30	--	--	6.72	--	--	5.99	--	--	--	5.96	--	--	6.05	--	--	--	6.16	
OU2MW-08I2	6.56	--	--	7.30	--	--	6.23	--	--	--	6.33	--	--	6.38	--	--	--	6.53	
OU2MW-08S	6.74	--	--	7.70	--	--	--	--	--	--	6.44	--	--	6.45	--	--	--	--	
OU2MW-08WT	--	6.52	--	--	--	--	6.30	--	--	--	--	6.30	--	6.30	--	--	--	--	
<b>Temperature (deg C)</b>																			
BBMW-25D	20.2	14.5	18.1	11.2	10.1	8.8	7.9	11.6	15.7	15.1	18.6	--	16.4	19.5	18.0	13.7	10.7	11.6	
BBMW-25I	--	18.7	18.4	13.1	11.5	11.3	11.4	12.3	16.7	19.9	18.9	--	17.6	19.4	18.1	13.1	12.6	12.4	
BBMW-25S	22.7	20.8	21.5	14.9	11.6	8.5	9.3	9.9	15.7	16.8	19.8	--	20.1	20.3	20.9	15.7	14.3	12.0	
OU2MW-01D	18.5	19.4	14.3	13.7	11.8	7.9	11.9	12.2	16.9	17.1	20.7	--	20.8	20.0	19.8	11.1	10.0	8.7	
OU2MW-01I	21.6	21.2	14.6	12.2	10.4	9.5	12.4	11.6	18.6	15.8	19.0	--	19.9	20.1	21.6	12.3	5.3	6.6	
OU2MW-01I2	23.0	18.9	14.5	13.6	12.3	7.6	11.4	12.0	16.6	15.3	21.3	--	21.7	15.3	17.6	11.6	10.8	7.0	
OU2MW-01S	--	24.9	15.3	12.3	10.3	9.8	12.3	13.0	15.4	15.9	20.2	--	20.9	16.3	21.6	13.3	12.4	7.7	
OU2MW-01WT	--	--	16.7	14.3	10.6	8.0	7.3	--	12.0	17.2	19.9	--	21.8	21.0	22.2	14.9	13.6	8.7	
OU2MW-02D	--	16.6	--	10.7	--	--	9.3	--	--	11.7	--	--	--	--	15.5	--	11.4	--	
OU2MW-02I	--	19.8	--	11.4	--	--	8.5	--	--	13.6	--	--	--	--	19.6	--	11.7	--	
OU2MW-02I2	--	18.8	--	11.6	--	--	9.7	--	--	12.2	--	--	--	--	15.9	--	12.2	--	
OU2MW-02S	--	21.1	--	11.2	--	--	7.6	--	--	13.5	--	--	--	--	21.2	--	12.8	--	
OU2MW-03D	--	16.5	--	13.0	--	--	11.1	--	--	12.7	--	--	--	--	15.7	--	13.0	--	
OU2MW-03I	--	17.0	--	13.8	--	--	12.4	--	--	13.7	--	--	--	--	16.1	--	14.0	--	
OU2MW-03I2	--	16.5	--	13.3	--	--	11.6	--	--	12.9	--	--	--	--	15.8	--	13.3	--	
OU2MW-03S	--	17.5	--	15.0	--	--	12.7	--	--	13.0	--	--	--	--	17.3	--	15.2	--	
OU2MW-04D	--	18.3	--	9.2	--	--	9.1	--	--	14.8	--	--	--	--	19.4	--	11.1	--	
OU2MW-04I	--	17.9	--	11.5	--	--	11.7	--	--	15.2	--	--	--	--	18.9	--	10.2	--	
OU2MW-04I2	--	16.2	--	11.7	--	--	9.1	--	--	14.2	--	--	--	--	20.1	--	10.8	--	
OU2MW-04S	--	18.5	--	10.5	--	--	13.9	--	--	14.2	--	--	--	--	19.0	--	10.0	--	
OU2MW-04WT	--	20.5	--	--	--	--	4.6	--	--	13.9	--	--	--	--	21.1	--	9.9	--	
OU2MW-08D	15.9	--	--	13.8	--	--	11.8	--	--	--	14.3	--	--	16.1	--	--	--	13.0	
OU2MW-08I	16.6	--	--	14.2	--	--	13.2	--	--	--	14.6	--	--	16.1	--	--	--	13.3	
OU2MW-08I2	16.1	--	--	13.9	--	--	12.5	--	--	--	14.7	--	--	16.1	--	--	--	12.5	
OU2MW-08S	17.1	--	--	16.0	--	--	--	--	--	--	15.0	--	--	16.6	--	--	--	--	
OU2MW-08WT	--	20.9	--	--	--	--	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
<b>Conductivity (mS/cm)</b>									
GMP-01	--	0.472	0.369	0.413	0.663	0.458	--	--	--
GMP-02	0.479	0.391	0.440	0.493	0.612	0.441	--	--	--
GMP-04	0.442	0.676	0.409	0.325	0.529	0.342	--	--	--
OU2MW-06	--	--	--	--	--	--	--	--	0.214
OU2MW-06S	--	--	--	--	--	--	--	--	--
OU2MW-07	--	--	--	--	--	--	--	--	--
OU2MW-07S	--	--	--	--	--	--	--	--	--
<b>Dissolved Oxygen (mg/L)</b>									
GMP-01	--	0.0	0.0	0.3	0.0	0.0	--	--	--
GMP-02	0.0	0.0	0.0	0.3	0.0	0.0	--	--	--
GMP-04	0.0	0.0	0.0	0.3	0.0	0.0	--	--	--
OU2MW-06	--	--	--	--	--	--	--	--	0.0
OU2MW-06S	--	--	--	--	--	--	--	--	--
OU2MW-07	--	--	--	--	--	--	--	--	--
OU2MW-07S	--	--	--	--	--	--	--	--	--
<b>Oxidation Reduction Potential (ORP)</b>									
GMP-01	--	-155	-138	-149	-159	-163	--	--	--
GMP-02	-127	-106	-93	-124	-108	-91	--	--	--
GMP-04	-119	-123	-118	-126	-141	-142	--	--	--
OU2MW-06	--	--	--	--	--	--	--	--	-344
OU2MW-06S	--	--	--	--	--	--	--	--	--
OU2MW-07	--	--	--	--	--	--	--	--	--
OU2MW-07S	--	--	--	--	--	--	--	--	--
<b>pH (std. units)</b>									
GMP-01	--	6.84	6.80	6.74	6.85	6.89	--	--	--
GMP-02	6.79	6.53	6.63	6.55	6.63	6.61	--	--	--
GMP-04	6.91	6.74	6.66	6.69	6.83	6.77	--	--	--
OU2MW-06	--	--	--	--	--	--	--	--	7.68
OU2MW-06S	--	--	--	--	--	--	--	--	--
OU2MW-07	--	--	--	--	--	--	--	--	--
OU2MW-07S	--	--	--	--	--	--	--	--	--
<b>Temperature (deg C)</b>									
GMP-01	--	16.7	12.6	11.9	14.3	16.3	--	--	--
GMP-02	12.3	15.8	12.1	10.0	13.9	15.3	--	--	--
GMP-04	11.9	16.1	13.2	11.1	13.4	16.4	--	--	--
OU2MW-06	--	--	--	--	--	--	--	--	14.7
OU2MW-06S	--	--	--	--	--	--	--	--	--
OU2MW-07	--	--	--	--	--	--	--	--	--
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	Dec-05	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06
<b>Conductivity (mS/cm)</b>												
GMP-01	0.785	--	0.603	--	--	0.427	--	0.442	--	--	--	0.866
GMP-02	0.895	--	0.613	--	--	0.500	--	0.467	--	--	--	0.640
GMP-04	0.650	--	0.605	--	--	0.550	--	0.433	--	--	--	0.742
OU2MW-06	--	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	--	--	--	--	--	--	--	--	--	--	--	--
<b>Dissolved Oxygen (mg/L)</b>												
GMP-01	0.0	--	0.0	--	--	1.0	--	0.0	--	--	--	1.2
GMP-02	0.0	--	11.3	--	--	20.0	--	20.0	--	--	--	15.0
GMP-04	0.0	--	0.0	--	--	1.2	--	0.0	--	--	--	1.2
OU2MW-06	--	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	--	--	--	--	--	--	--	--	--	--	--	--
<b>Oxidation Reduction Potential (ORP)</b>												
GMP-01	-156	--	-164	--	--	-160	--	-174	--	--	--	-168
GMP-02	-108	--	82	--	--	109	--	107	--	--	--	114
GMP-04	-139	--	-144	--	--	-132	--	-93	--	--	--	-59
OU2MW-06	--	-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	--	--	--	--	--	--	--	--	--	--	--	--
<b>pH (std. units)</b>												
GMP-01	6.75	--	6.81	--	--	7.10	--	6.93	--	--	--	7.28
GMP-02	6.55	--	6.08	--	--	6.20	--	6.28	--	--	--	6.63
GMP-04	6.75	--	6.75	--	--	6.75	--	6.45	--	--	--	6.82
OU2MW-06	--	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	--	--	--	--	--	--	--	--	--	--	--	--
<b>Temperature (deg C)</b>												
GMP-01	13.5	--	12.1	--	--	14.1	--	15.6	--	--	--	14.3
GMP-02	13.3	--	12.4	--	--	13.6	--	14.9	--	--	--	13.1
GMP-04	15.2	--	11.9	--	--	13.3	--	16.5	--	--	--	15.5
OU2MW-06	--	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
<b>Conductivity (mS/cm)</b>												
GMP-01	--	--	--	0.631	0.562	--	--	0.263	--	--	0.607	--
GMP-02	--	--	--	0.598	0.771	--	--	0.586	--	--	0.756	--
GMP-04	--	--	--	--	0.524	--	--	0.450	--	--	0.500	--
OU2MW-06	0.429	0.437	0.329	0.327	0.284	--	0.225	0.314	0.098	0.315	0.308	0.274
OU2MW-06S	--	--	--	--	--	0.294	--	0.169	0.138	0.216	0.166	0.222
OU2MW-07	0.511	0.491	0.319	0.437	0.531	--	0.334	0.365	0.339	0.339	0.467	0.421
OU2MW-07S	--	--	--	--	--	0.167	--	0.126	0.116	0.112	0.166	0.253
<b>Dissolved Oxygen (mg/L)</b>												
GMP-01	--	--	--	0.0	1.1	--	--	0.0	--	--	0.0	--
GMP-02	--	--	--	20.0	20.0	--	--	20.0	--	--	20.0	--
GMP-04	--	--	--	--	0.8	--	--	0.0	--	--	0.0	--
OU2MW-06	29.0	20.0	28.0	35.0	30.0	--	23.0	23.0	23.0	30.0	32.0	40.0
OU2MW-06S	--	--	--	--	--	15.7	--	4.0	8.0	15.0	16.0	16.0
OU2MW-07	31.0	34.0	40.0	36.0	37.0	--	12.0	36.0	29.0	34.0	32.0	28.0
OU2MW-07S	--	--	--	--	--	20.0	--	10.9	17.0	14.0	13.0	8.0
<b>Oxidation Reduction Potential (ORP)</b>												
GMP-01	--	--	--	-249	-168	--	--	-165	--	--	-129	--
GMP-02	--	--	--	8	164	--	--	130	--	--	346	--
GMP-04	--	--	--	--	-37	--	--	-31	--	--	-59	--
OU2MW-06	52	-171	180	232	229	--	198	53	216	350	166	230
OU2MW-06S	--	--	--	--	--	349	--	186	196	358	133	208
OU2MW-07	57	-154	228	185	198	--	180	62	201	222	212	204
OU2MW-07S	--	--	--	--	--	399	--	169	175	206	210	192
<b>pH (std. units)</b>												
GMP-01	--	--	--	6.71	6.94	--	--	7.81	--	--	6.96	--
GMP-02	--	--	--	6.05	6.30	--	--	6.08	--	--	5.73	--
GMP-04	--	--	--	--	6.44	--	--	7.05	--	--	6.55	--
OU2MW-06	5.56	5.68	6.29	5.95	6.03	--	5.74	6.25	5.57	5.08	5.47	6.16
OU2MW-06S	--	--	--	--	--	6.47	--	6.83	5.92	5.32	5.62	6.47
OU2MW-07	6.10	6.03	6.52	5.95	6.19	--	5.83	6.62	5.56	5.87	6.01	6.43
OU2MW-07S	--	--	--	--	--	5.88	--	5.84	5.46	5.77	5.76	6.47
<b>Temperature (deg C)</b>												
GMP-01	--	--	--	12.2	13.0	--	--	18.6	--	--	10.1	--
GMP-02	--	--	--	11.9	11.8	--	--	17.4	--	--	12.7	--
GMP-04	--	--	--	--	11.8	--	--	19.5	--	--	14.8	--
OU2MW-06	12.2	7.5	11.8	18.6	18.0	--	18.3	16.5	17.3	11.8	9.2	8.1
OU2MW-06S	--	--	--	--	--	18.8	--	20.9	18.9	11.5	7.0	4.8
OU2MW-07	12.8	10.3	11.9	14.0	12.2	--	16.7	18.2	17.2	14.7	11.5	11.3
OU2MW-07S	--	--	--	--	--	16.6	--	22.0	19.3	15.0	9.7	7.9

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	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08
<b>Conductivity (mS/cm)</b>											
GMP-01	0.660	--	--	--	--	--	0.900	--	--	0.728	--
GMP-02	0.511	--	--	--	--	--	0.412	--	--	--	0.444
GMP-04	0.489	--	--	--	--	--	0.733	--	--	--	0.356
OU2MW-06	0.313	0.440	0.302	0.419	0.340	0.544	0.502	0.120	0.450	0.436	0.481
OU2MW-06S	0.196	--	0.420	0.628	0.604	0.391	0.450	0.157	0.255	0.292	0.234
OU2MW-07	0.358	0.420	0.274	0.294	0.287	0.597	0.614	0.293	0.370	0.367	0.327
OU2MW-07S	0.139	--	0.407	0.442	0.424	0.329	0.306	0.128	0.153	0.208	--
<b>Dissolved Oxygen (mg/L)</b>											
GMP-01	2.8	--	--	--	--	--	0.0	--	--	0.0	--
GMP-02	20.0	--	--	--	--	--	20.0	--	--	--	20.0
GMP-04	5.4	--	--	--	--	--	19.0	--	--	--	16.7
OU2MW-06	25.0	16.0	14.0	7.0	7.0	22.0	30.0	23.0	31.0	30.0	21.0
OU2MW-06S	8.0	--	27.0	27.0	19.0	5.9	9.0	10.0	8.0	5.0	6.8
OU2MW-07	25.0	22.0	13.0	8.0	13.0	32.0	29.0	34.0	33.0	34.0	36.0
OU2MW-07S	8.0	--	38.0	35.0	29.0	18.0	14.0	15.0	4.0	10.0	--
<b>Oxidation Reduction Potential (ORP)</b>											
GMP-01	-159	--	--	--	--	--	-231	--	--	-130	--
GMP-02	138	--	--	--	--	--	176	--	--	--	123
GMP-04	-1	--	--	--	--	--	141	--	--	--	153
OU2MW-06	220	215	206	150	120	210	147	146	193	191	139
OU2MW-06S	159	--	221	180	144	177	110	120	163	167	85
OU2MW-07	210	229	219	211	169	232	179	150	191	201	152
OU2MW-07S	190	--	225	189	164	231	170	158	174	132	--
<b>pH (std. units)</b>											
GMP-01	7.27	--	--	--	--	--	6.60	--	--	7.49	--
GMP-02	6.41	--	--	--	--	--	5.72	--	--	--	5.73
GMP-04	5.96	--	--	--	--	--	5.93	--	--	--	4.86
OU2MW-06	5.59	5.79	6.48	6.50	6.04	5.95	5.88	5.85	5.79	5.64	5.20
OU2MW-06S	6.03	--	6.16	5.85	5.88	6.21	6.28	6.01	6.18	5.89	5.71
OU2MW-07	5.74	5.84	6.10	5.88	5.54	5.80	5.67	5.87	6.02	5.51	5.36
OU2MW-07S	5.65	--	6.27	5.85	5.75	5.75	5.40	5.74	5.57	6.54	--
<b>Temperature (deg C)</b>											
GMP-01	11.5	--	--	--	--	--	18.8	--	--	14.2	--
GMP-02	10.3	--	--	--	--	--	17.1	--	--	--	13.2
GMP-04	11.6	--	--	--	--	--	18.5	--	--	--	15.4
OU2MW-06	9.3	13.5	10.3	13.3	21.9	16.5	19.8	18.8	13.0	9.2	6.1
OU2MW-06S	6.1	--	11.9	12.3	18.9	21.6	24.4	19.2	14.2	8.8	4.8
OU2MW-07	10.4	11.5	11.1	13.2	21.0	14.7	19.5	17.4	15.1	14.1	13.8
OU2MW-07S	6.7	--	13.0	14.0	19.1	18.5	22.7	20.2	15.7	14.4	--

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 <sup>1</sup> (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-01S	11/3/2008	14:23	2.00	19.65	6.73	12.92	
BBMW-01I	11/3/2008	14:21	2.00	19.23	6.32	12.91	
BBMW-01D	11/3/2008	14:19	2.00	19.20	6.26	12.94	
BBMW-02S	11/4/2008	9:05	2.00	16.83	4.91	11.92	
BBMW-02I	11/4/2008	9:06	2.00	16.96	5.04	11.92	
BBMW-02D	11/4/2008	9:07	2.00	17.13	5.23	11.90	
BBMW-03S	11/3/2008	14:07	2.00	11.33	3.33	8.00	
BBMW-03I	11/3/2008	14:05	2.00	11.19	3.17	8.02	
BBMW-03D	11/3/2008	14:03	2.00	11.24	3.21	8.03	
BBMW-04D	11/4/2008	14:53	2.00	19.75	5.38	14.37	
BBMW-07S	11/4/2008	15:04	2.00	12.80	7.04	5.76	
BBMW-07I	11/4/2008	15:04	2.00	12.60	6.83	5.77	
BBMW-07D	11/4/2008	15:05	2.00	12.58	6.82	5.76	
BBMW-15S	11/4/2008	8:47	2.00	15.92	5.29	10.63	
BBMW-15I	11/4/2008	8:49	2.00	15.82	5.27	10.55	
BBMW-15I2	11/4/2008	8:48	2.00	15.79	5.19	10.60	
BBMW-15D	11/4/2008	8:49	2.00	15.63	5.06	10.57	
BBMW-16S	11/4/2008	15:40	2.00	19.04	9.17	9.87	
BBMW-16I	11/4/2008	15:41	2.00	19.43	9.54	9.89	
BBMW-16D	11/4/2008	15:42	2.00	18.97	9.03	9.94	
BBMW-23S	11/3/2008	14:10	1.00	19.13	5.79	13.34	
BBMW-23I	11/3/2008	14:11	1.00	19.20	5.87	13.33	
BBMW-23D	11/3/2008	14:12	1.00	19.17	5.81	13.36	
BBMW-23D2	11/3/2008	14:12	2.00	18.61	5.25	13.36	
BBMW-24S	11/3/2008	14:55	1.00	18.14	6.87	11.27	
BBMW-24I	11/3/2008	14:56	1.00	18.01	6.92	11.09	
BBMW-24D	11/3/2008	14:57	1.00	17.76	6.72	11.04	
BBMW-25S	11/3/2008	13:31	1.00	12.80	4.37	8.43	
BBMW-25I	11/3/2008	13:33	1.00	12.79	4.39	8.40	
BBMW-25D	11/3/2008	13:36	1.00	12.70	4.25	8.45	
GM-03S	NA	NM	1.25	15.70	NM	NC	Abandoned
GM-03I	NA	NM	1.25	15.61	NM	NC	Abandoned
GM-03D	NA	NM	1.25	15.78	NM	NC	Abandoned
GM-05S	11/4/2008	10:50	1.25	5.73	2.84	2.89	
GM-05I	11/4/2008	10:51	1.25	5.92	2.84	3.08	
GM-05D	11/4/2008	11:00	1.25	7.87	0.21	7.66	Artesian Conditions
GM-06S	11/4/2008	15:10	1.25	9.52	5.94	3.58	
GM-06I	11/4/2008	15:11	1.25	9.56	5.96	3.60	
GM-06D	11/4/2008	15:12	1.25	9.66	6.07	3.59	
GM-07S	11/4/2008	15:31	1.25	10.61	8.04	2.57	
GM-07I	11/4/2008	15:32	1.25	10.53	7.97	2.56	
GM-07D	11/4/2008	15:33	1.25	10.75	8.18	2.57	
GM-08S	11/4/2008	10:09	1.25	3.90	3.11	0.79	
GM-08I	11/4/2008	10:10	1.25	4.05	3.26	0.79	
GM-08D	11/4/2008	10:10	1.25	3.91	3.12	0.79	
GM-09S	11/4/2008	15:17	1.25	3.22	2.54	0.68	
GM-09I	11/4/2008	15:18	1.25	3.41	2.71	0.70	
GM-09D	11/4/2008	15:18	1.25	3.09	2.39	0.70	
GM-10AD	11/4/2008	15:26	2.00	8.07	6.41	1.66	
GMP-01	11/4/2008	9:41	0.75	6.58	3.28	3.30	
GMP-02	11/4/2008	10:02	0.75	6.28	3.73	2.55	
GMP-04	11/4/2008	11:34	0.75	3.74	2.65	1.09	
MW-16AS	11/4/2008	8:57	2.00	16.16	5.24	10.92	
OU2-IW01S	11/4/2008	9:56	2.00	5.95	3.21	2.74	
OU2MW-01WT	11/3/2008	13:41	1.00	12.86	4.44	8.42	
OU2MW-01S	11/3/2008	13:14	2.00	12.41	4.13	8.28	
OU2MW-01I	11/3/2008	13:21	2.00	12.47	4.19	8.28	
OU2MW-01I2	11/3/2008	13:16	2.00	12.28	4.01	8.27	
OU2MW-01D	11/3/2008	13:19	2.00	12.35	2.65	9.70	
OU2MW-02S	11/3/2008	13:51	2.00	11.58	3.37	8.21	

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 <sup>1</sup> (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
OU2MW-02I	11/3/2008	13:52	2.00	11.59	3.38	8.21	
OU2MW-02I2	11/3/2008	13:56	2.00	11.74	3.53	8.21	
OU2MW-02D	11/3/2008	13:54	2.00	11.53	3.11	8.42	
OU2MW-03S	11/3/2008	16:35	2.00	11.23	4.56	6.67	
OU2MW-03I	11/3/2008	16:35	2.00	11.15	4.43	6.72	
OU2MW-03I2	11/3/2008	16:36	2.00	11.15	4.47	6.68	
OU2MW-03D	11/3/2008	16:34	2.00	11.14	2.64	8.50	
OU2MW-04WT	11/3/2008	14:16	1.00	10.34	3.84	6.50	
OU2MW-04S	11/3/2008	14:18	2.00	10.18	3.68	6.50	
OU2MW-04I	11/3/2008	14:20	2.00	10.10	3.58	6.52	
OU2MW-04I2	11/3/2008	14:24	2.00	10.05	3.53	6.52	
OU2MW-04D	11/3/2008	14:22	2.00	10.08	3.56	6.52	
OU2MW-05	11/4/2008	14:03	2.00	6.32	2.27	4.05	
OU2MW-06	11/4/2008	11:24	2.00	4.44	2.37	2.07	
OU2MW-06S	11/4/2008	11:25	2.00	4.83	2.74	2.09	
OU2MW-07	11/4/2008	11:18	2.00	5.34	3.54	1.80	
OU2MW-07S	11/4/2008	11:19	2.00	5.47	3.62	1.85	
OU2MW-08WT	11/3/2008	15:07	2.00	14.93	6.30	8.63	
OU2MW-08S	11/3/2008	15:07	2.00	14.77	6.15	8.62	
OU2MW-08I	11/3/2008	15:08	2.00	14.70	6.09	8.61	
OU2MW-08I2	11/3/2008	15:09	2.00	14.78	6.14	8.64	
OU2MW-08D	11/3/2008	15:09	2.00	14.87	5.42	9.45	
OU2MW-09	11/3/2008	14:08	2.00	11.26	3.26	8.00	
OU2MW-10S	11/4/2008	13:36	2.00	5.31	2.94	2.37	
OU2MW-10I	11/4/2008	13:36	2.00	5.42	3.06	2.36	
OU2MW-10D	11/4/2008	13:37	2.00	5.43	3.09	2.34	
OU2MW-11S	11/4/2008	13:50	2.00	6.69	3.01	3.68	
OU2MW-11I	11/4/2008	13:51	2.00	6.72	3.07	3.65	
OU2MW-11I2	11/4/2008	13:52	2.00	6.53	2.91	3.62	
OU2MW-11D	11/4/2008	13:52	2.00	6.65	3.04	3.61	
OU2MW-12S	11/4/2008	9:47	2.00	5.70	2.82	2.88	
OU2MW-12I	11/4/2008	9:48	2.00	5.73	2.73	3.00	
OU2MW-12I2	11/4/2008	9:49	2.00	5.81	2.90	2.91	
OU2MW-12D	11/4/2008	9:49	2.00	5.59	2.67	2.92	
OU2MW-13S	11/4/2008	11:50	2.00	4.78	2.82	1.96	
OU2MW-13I	11/4/2008	11:50	2.00	4.81	2.86	1.95	
OU2MW-13D	11/4/2008	11:51	2.00	4.94	3.00	1.94	
OU2MW-14S	11/4/2008	6:37	1.00	14.58	6.23	8.35	
OU2MW-14I	11/4/2008	6:38	1.00	14.75	6.14	8.61	
OU2MW-14I2	11/4/2008	6:39	1.00	14.77	6.16	8.61	
OU2MW-15S	11/4/2008	10:23	2.00	4.80	2.43	2.37	
OU2MW-15I	11/4/2008	10:24	2.00	5.09	2.71	2.38	
OU2MW-15I2	11/4/2008	10:17	2.00	5.13	2.74	2.39	
OU2MW-15D	11/4/2008	10:18	2.00	5.21	2.82	2.39	
OU2MW-16S	11/4/2008	10:33	2.00	5.44	2.89	2.55	
OU2MW-16I	11/4/2008	10:34	2.00	5.31	2.84	2.47	
OU2MW-16I2	11/4/2008	10:35	2.00	5.31	2.83	2.48	
OU2MW-16D	11/4/2008	10:35	2.00	5.61	3.13	2.48	
OU2SW-01*	11/4/2008	11:41	NA	2.65	2.67	-0.02	Boat Basin
BBSW-06*	11/4/2008	11:40	NA	2.08	2.10	-0.02	Boat Basin
BBSW-07*	11/4/2008	11:38	NA	6.83	2.84	3.99	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	May-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	13.03
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	13.01
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	13.07
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	12.06
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	12.03
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	12.01
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	8.09
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	8.09
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	8.12
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	14.39
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	5.80
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	5.83
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	5.82
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	10.69
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	10.67
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	10.60
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	10.63
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	10.05
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	10.08
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	10.06
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	13.46
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	13.46
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	13.47
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	13.47
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	11.09
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	11.09
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	11.09
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	8.01
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	8.02
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	7.97
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	9.96
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	9.80
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	9.95
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	2.91
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	7.50
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	1.41
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	3.35
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	2.58
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	1.02
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	10.96

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)																
		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	Nov-08	Minimum	Average	Maximum
BBMW-01S	5.0 - 15.0	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	12.92	11.91	12.86	14.11
BBMW-01I	32.0 - 42.0	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	12.91	11.89	12.81	14.09
BBMW-01D	68.5 - 78.5	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	12.94	11.91	12.88	14.40
BBMW-02S	5.0 - 15.0	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	11.92	10.99	11.81	13.10
BBMW-02I	30.0 - 40.0	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	11.92	10.96	11.80	13.08
BBMW-02D	73.0 - 83.0	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	11.90	10.93	11.76	13.08
BBMW-03S	3.0 - 13.0	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	8.00	7.36	7.92	9.01
BBMW-03I	30.0 - 40.0	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	8.02	7.37	7.93	8.97
BBMW-03D	52.0 - 62.0	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	8.03	7.35	7.94	8.99
BBMW-04D	63.0 - 73.0	13.18	14.96	14.67	14.31	14.01	14.48	14.39	NM	NM	13.28	14.20	14.78	10.72	14.37	10.72	13.94	15.48
BBMW-07S	5.0 - 15.0	5.12	6.29	NM	5.75	5.52	5.89	5.63	NM	NM	4.18	5.63	5.97	5.43	5.76	4.18	5.66	6.83
BBMW-07I	30.0 - 40.0	5.13	6.29	NM	5.76	5.53	5.91	5.63	NM	NM	5.16	5.57	5.96	5.43	5.77	5.13	5.70	6.83
BBMW-07D	55.0 - 65.0	5.11	6.29	NM	5.77	5.51	5.94	5.64	NM	NM	5.15	5.62	5.98	5.45	5.76	5.11	5.69	6.82
BBMW-15S	5.0 - 15.0	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	10.63	9.71	10.51	11.72
BBMW-15I	35.0 - 45.0	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	10.55	9.66	10.47	11.71
BBMW-15I2	23.0 - 28.0	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	10.60	9.66	10.45	11.66
BBMW-15D	70.0 - 80.0	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	10.57	9.66	10.46	11.76
BBMW-16S	5.0 - 15.0	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	9.87	9.04	10.17	14.62
BBMW-16I	35.0 - 45.0	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	9.89	9.05	9.88	10.82
BBMW-16D	68.0 - 78.0	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	9.94	9.03	9.89	10.86
BBMW-23S	5.0 - 15.0	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	13.34	10.35	13.13	14.55
BBMW-23I	33.0 - 43.0	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	13.33	10.48	13.13	14.55
BBMW-23D	49.5 - 59.5	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	13.36	10.29	13.13	14.55
BBMW-23D2	63.0 - 73.0	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	13.36	10.31	13.14	14.57
BBMW-24S	4.0 - 14.0	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	11.27	9.41	10.87	12.15
BBMW-24I	32.0 - 42.0	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	11.09	9.44	10.86	12.15
BBMW-24D	59.5 - 69.5	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	11.04	9.44	10.86	12.16
BBMW-25S	4.0 - 14.0	7.64	8.99	8.84	8.49	NM	8.55	8.53	8.84	NM	7.78	8.37	8.77	NC	8.43	7.23	8.16	8.99
BBMW-25I	25.0 - 35.0	7.66	8.99	8.84	8.49	NM	8.55	8.55	8.86	NM	NC	NC	NC	NC	8.40	7.25	8.14	8.99
BBMW-25D	62.0 - 72.0	NM	8.99	NM	8.49	NM	8.55	8.52	8.83	NM	7.76	8.46	8.75	NC	8.45	7.18	8.15	8.99
GM-03S	6.78 - 21.78	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	NC	8.94	9.67	10.83
GM-03I	30.03 - 45.03	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	NC	8.76	9.54	10.67
GM-03D	53.18 - 68.18	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	NC	8.86	9.64	10.77
GM-05S	5.1 - 20.1	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	2.89	2.12	2.92	3.74
GM-05D	60.95 - 75.95	6.56	7.87	7.81	8.23	8.72	7.61	7.59	7.76	6.96	6.83	7.54	NC	NC	7.66	6.56	7.63	9.04
GM-10AD	unknown	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	1.66	1.08	1.71	2.43
GMP-01	25.0 - 30.0	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	3.30	2.97	3.42	4.18
GMP-02	18.0 - 23.0	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	2.55	2.24	2.68	3.37
GMP-04	15.5 - 20.5	1.37	1.73	1.19	1.23	1.42	1.09	1.51	1.06	1.63	1.41	1.29	1.00	1.65	1.09	0.47	1.28	2.11
MW-16AS	3.0 - 13.0	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	10.92	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	Nov-08			
OU2-IW01S	3.0 - 8.0	NM	NM	NM	NM	NM	NM	NM	NM	2.50	2.91	2.97	2.77	2.74	2.50	2.78	2.97
OU2MW-01WT	3.0 - 8.0	NM	NM	NM	NM	NM	NM	NM	NM	7.74	8.29	8.70	NC	8.42	7.74	8.29	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	8.28	7.56	8.34	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	8.28	7.56	8.52	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	8.27	7.55	8.35	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	9.70	8.23	9.66	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	8.21	7.50	8.29	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	8.21	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	8.21	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	8.42	7.71	8.46	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	6.67	6.12	6.79	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	6.72	6.14	6.81	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	6.68	6.12	6.79	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	8.50	6.75	8.47	8.99
OU2MW-04WT	3.0 - 8.0	NM	NM	NM	NM	NM	NM	NM	NM	5.91	6.41	6.53	6.12	6.50	5.91	6.29	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	6.50	5.93	6.47	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	6.52	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	6.52	5.90	6.49	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	6.52	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	4.05	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	2.07	2.03	2.20	2.57
OU2MW-06S	3.0 - 8.0	NM	NM	NM	NM	NM	NM	NM	NM	2.05	2.16	2.22	2.35	2.09	2.05	2.17	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	1.80	1.80	2.01	2.37
OU2MW-07S	3.0 - 8.0	NM	NM	NM	NM	NM	NM	NM	NM	1.96	2.04	1.94	2.22	1.85	1.85	2.00	2.22
OU2MW-08WT	3.0 - 8.0	NM	NM	NM	NM	NM	NM	NM	NM	7.87	8.51	8.87	8.04	8.63	7.87	8.38	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	8.62	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	8.61	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	8.64	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	9.45	8.69	9.39	9.89
OU2MW-09	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	8.00	7.37	7.98	8.42
OU2MW-10S	3.0 - 7.0	NM	NM	NM	NM	NM	NM	NM	NM	2.00	2.42	2.60	2.38	2.37	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	2.36	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	2.34	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	3.68	3.29	3.62	3.92
OU2MW-11I2	30.0 - 35.0	NM	NM	NM	NM	NM	NM	NM	NM	3.24	3.68	3.86	3.55	3.62	3.24	3.59	3.86
OU2MW-15D	40.0 - 45.0	NM	NM	NM	NM	NM	NM	NM	NM	2.06	2.46	2.66	2.37	2.39	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	2.55	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	2.47	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	2.48	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	2.48	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 (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		
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	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-20D	65.0 - 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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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-21S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22D	67.0-72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22I2	46.0-51.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-22S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23D	65.0-70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-23S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24D	62.0-67.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-24S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25D	70.0-75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-25S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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-35D	57.0-62.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61.0-66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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-36I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37D	67.0-72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56.0-61.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46.0-51.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	70.0-75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45D	55.0-60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I	20.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I2	40.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	60.0-65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	20.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	40.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	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														Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2006				2007				2008										
March	June	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec									
BBMW-01D*	68.5 - 78.5	24	216	462	109	32	555	386	9	43	81	75	21	9	1,294	309	9	1,294		
BBMW-01I*	32.0 - 42.0	43	94	110	110	77	156	375	274	262	64	57	36	3	710	196	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	797	59	7,420	2,257	59	7,420		
BBMW-02D	73.0 - 83.0	--	--	--	--	0	0	0	0	0	0	0	0	0	21	2	0	21		
BBMW-02I	30.0 - 40.0	--	--	--	--	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	0	4	0	0	4		
BBMW-15D	70.0 - 80.0	--	--	--	--	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	0	473	34	0	473		
BBMW-15I2	23.0 - 28.0	--	--	0	--	0	0	0	0	0	0	0	149	0	47	3	0	149		
BBMW-15S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
BBMW-16D	68.0 - 78.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0		
BBMW-16I	35.0 - 45.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0		
BBMW-16S	5.0 - 15.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0	0		
BBMW-23D*	49.5 - 59.5	729	467	509	579	519	96	1,324	660	493	23	12	14	0	1,324	290	0	1,324		
BBMW-23D2*	63.0 - 73.0	0	--	--	--	0	0	0	0	0	3	0	0	0	97	14	0	97		
BBMW-23I*	33.0 - 43.0	0	0	0	0	0	0	19	10	0	3	0	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	9,986	1,340	43,650	17,256	120	43,650		
BBMW-24D	59.5 - 69.5	--	367	--	647	662	0	7	4	176	215	7	15	113	1,420	546	0	1,420		
BBMW-24I	32.0 - 42.0	--	519	--	183	116	115	277	9	0	0	0	0	0	2,408	516	0	2,408		
BBMW-24S	4.0 - 14.0	0	0	0	0	0	0	0	0	0	0	117	0	0	117	6	0	117		
GM-03D	53.18 - 68.18	--	--	--	--	0	0	0	0	0	0	0	--	0	175	11	0	175		
GM-03I	30.03 - 45.03	196	0	0	0	0	78	190	129	245	161	257	--	0	879	129	0	879		
GM-03S	6.78 - 21.78	19	126	177	69	116	0	0	0	0	0	23	--	0	229	64	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	16	1	0	16		
OU2MW-08I	35.0 - 40.0	527	196	355	201	167	521	481	196	88	245	62	69	62	527	268	62	527		
OU2MW-08I2	50.0 - 55.0	172	272	590	582	249	101	120	545	369	317	248	293	101	590	306	101	590		
OU2MW-08S	20.0 - 25.0	617	1,456	1,641	829	378	226	305	332	1,088	858	692	1,010	226	2,210	886	226	2,210		
OU2MW-08WT	3.0 - 8.0	--	--	--	--	--	--	0	0	0	--	0	0	0	0	0	0	0		
OU2MW-17D	60.0 - 75.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0		
OU2MW-17I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	90	0	0	0	90	45	0	90		
OU2MW-17I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0		
OU2MW-17S	5.0 - 10.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0		
OU2MW-18D	60.0 - 70.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0		
OU2MW-18I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	5,500	5,447	27,560	5,447	5,500	5,474	5,447	27,560		
OU2MW-18I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0		
OU2MW-19D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	543	1,818	543	543	543	543	1,818		
OU2MW-19I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	1,616	4,617	2,299	1,616	4,617	3,117	1,616	4,617		
OU2MW-19I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	130	133	112	130	133	132	112	133		
OU2MW-20D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-20I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	616	354	715	354	616	485	354	715		
OU2MW-20I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	1	0	0	0	1	1	0	1		
OU2MW-20S	4.0 - 9.0	--	--	--	--	--	--	--	--	--	0	1	0	0	1	1	0	1		
OU2MW-21I	13.0 - 23.0	--	--	--	--	--	--	--	--	--	780	1,041	1,877	780	1,041	911	780	1,877		
OU2MW-21I2	35.0 - 45.0	--	--	--	--	--	--	--	--	--	46	83	367	46	83	65	46	367		

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															Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2006				2007				2008											
March	June	Jul/Aug	Nov/Dec	March	May-Jul	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec	Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum					
OU2MW-21S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	82	0	0	--	82	82				
OU2MW-22D	67.0-72.0	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0				
OU2MW-22I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	298	0	0	--	298	298				
OU2MW-22I2	46.0-51.0	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0				
OU2MW-22S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0				
OU2MW-23D	65.0-70.0	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0				
OU2MW-23I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	2,029	0	0	--	2,029	2,029				
OU2MW-23I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0				
OU2MW-23S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0				
OU2MW-24D	62.0-67.0	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0				
OU2MW-24I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	2,862	0	0	--	2,862	2,862				
OU2MW-24I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0				
OU2MW-24S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0				
OU2MW-25D	70.0-75.0	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0				
OU2MW-25I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	125	0	0	--	125	125				
OU2MW-25I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0				
OU2MW-25S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0				
OU2MW-26D	60.0 - 70.0	--	--	--	--	--	--	--	--	76	167	187	76	167	122	76	187				
OU2MW-26I	13.0 - 23.0	--	--	--	--	--	--	--	--	40	253	245	40	253	147	40	253				
OU2MW-26I2	35.0 - 45.0	--	--	--	--	--	--	--	--	0	5	347	0	5	3	0	347				
OU2MW-26S	6.0 - 11.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0	0				
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	--	400	169	400	400	400	169	400				
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	--	0	2	0	0	0	0	2				
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0				
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	--	211	405	211	211	211	211	405				
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	1,290	1,715	1,290	1,290	1,290	1,290	1,715				
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	1,316	246	1,316	1,316	1,316	246	1,316				
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	--	301	206	301	301	301	206	301				
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	--	282	406	282	282	282	282	406				
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	--	312	281	312	312	312	281	312				
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	533	41	533	533	533	41	533				
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	--	91	247	91	91	91	91	247				
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	52	251	52	52	52	52	251				
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	512	343	512	512	512	343	512				
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0				
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	--	--	--	57	177	57	57	57	57	177				
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	--	2,073	1,355	2,073	2,073	2,073	1,355	2,073				
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	--	--	--	1,493	375	1,493	1,493	1,493	375	1,493				
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0				
OU2MW-35D	57.0-62.0	--	--	--	--	--	--	--	--	--	0	0	0	0	--	0	0				
OU2MW-35I	25.0-30.0	--	--	--	--	--	--	--	--	--	678	0	0	--	678	678					
OU2MW-35I2	45.0-50.0	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0					
OU2MW-35S	5.0-15.0	--	--	--	--	--	--	--	--	--	17	0	0	--	17	17					
OU2MW-36D	61.0-66.0	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0					
OU2MW-36I	25.0-30.0	--	--	--	--	--	--	--	--	--	288	0	0	--	288	288					

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	Oct-Dec					
OU2MW-36I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0
OU2MW-36S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0
OU2MW-37D	67.0-72.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0
OU2MW-37I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	87	0	0	--	87	87
OU2MW-37I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0
OU2MW-37S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0
OU2MW-38D	56.0-61.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0
OU2MW-38I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	4,001	0	0	--	4,001	4,001
OU2MW-38I2	46.0-51.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0
OU2MW-38S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0
OU2MW-39D	70.0-75.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0
OU2MW-39I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0
OU2MW-39I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	1	0	0	--	1	1
OU2MW-39S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	192	61	192	192	192	61	192
OU2MW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	--	--	1,500	1,625	1,500	1,500	1,500	1,500	1,625
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	--	--	0	92	0	0	0	0	92
OU2MW-45D	55.0-60.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0
OU2MW-45I	20.0-25.0	--	--	--	--	--	--	--	--	--	--	--	3	0	0	--	3	3
OU2MW-45I2	40.0-45.0	--	--	--	--	--	--	--	--	--	--	--	0	0	0	--	0	0
OU2MW-45S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	108	0	0	--	108	108
OU2MW-46I	20.0-25.0	--	--	--	--	--	--	--	--	--	--	--	1,898	0	0	--	1,898	1,898
OU2MW-46I2	40.0-45.0	--	--	--	--	--	--	--	--	--	--	--	2	0	0	--	2	2
OU2MW-46S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	421	0	0	--	421	421
OU2MW-47D	60.0-65.0	--	--	--	--	--	--	--	--	--	--	--	472	0	0	--	472	472
OU2MW-47I	20.0-25.0	--	--	--	--	--	--	--	--	--	--	--	1,039	0	0	--	1,039	1,039
OU2MW-47I2	40.0-45.0	--	--	--	--	--	--	--	--	--	--	--	297	0	0	--	297	297
OU2MW-47S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	148	0	0	--	148	148

**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 BMW-01 and BMW-23 clusters are sampled on a monthly basis. This table reports the highest concentration detected from the three sampling events this quarter.

The October 30, 2008 total BTEX results for BMW-01I represent unvalidated data.



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																		
		1999				2000		2002				2003			2004			2005		
		Sept	Sept	Oct/Nov	Dec	Nov/Dec	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
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-35D	57.0-62.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-35S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36D	61.0-66.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-36S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37D	67.0-72.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-37S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38D	56.0-61.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38I2	46.0-51.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-38S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39D	70.0-75.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I	25.0-30.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39I2	45.0-50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-39S	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	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45D	55.0-60.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I	20.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45I2	40.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-45S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I	20.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46I2	40.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-46S	5.0-15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47D	60.0-65.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I	20.0-25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47I2	40.0-45.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-47S	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)												Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date																
		2006				2007				2008								
March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec							
OU2MW-28I	28.0 - 33.0	--	--	--	--	--	--	--	--	283	132	283	283	283	132	283		
OU2MW-28I2	40.0 - 45.0	--	--	--	--	--	--	--	--	12	16	12	12	12	12	16		
OU2MW-28S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-29D	45.0 - 50.0	--	--	--	--	--	--	--	--	2,656	2,474	2,656	2,656	2,656	2,474	2,656		
OU2MW-29I	18.0 - 23.0	--	--	--	--	--	--	--	--	863	1,083	863	863	863	863	1,083		
OU2MW-29I2	30.0 - 35.0	--	--	--	--	--	--	--	--	3,642	6,159	3,642	3,642	3,642	3,642	6,159		
OU2MW-30D	50.0 - 55.0	--	--	--	--	--	--	--	--	1,087	5,989	1,087	1,087	1,087	1,087	5,989		
OU2MW-30D2	60.0 - 65.0	--	--	--	--	--	--	--	--	2,638	4,689	2,638	2,638	2,638	2,638	4,689		
OU2MW-30I	25.0 - 30.0	--	--	--	--	--	--	--	--	5,560	7,304	5,560	5,560	5,560	5,560	7,304		
OU2MW-30I2	30.0 - 35.0	--	--	--	--	--	--	--	--	6,605	5,671	6,605	6,605	6,605	5,671	6,605		
OU2MW-30I3	45.0 - 50.0	--	--	--	--	--	--	--	--	93	5,101	93	93	93	93	5,101		
OU2MW-30S	5.0 - 15.0	--	--	--	--	--	--	--	--	2	1,990	2	2	2	2	1,990		
OU2MW-31I	18.0 - 23.0	--	--	--	--	--	--	--	--	212	488	212	212	212	212	488		
OU2MW-31I2	30.0 - 35.0	--	--	--	--	--	--	--	--	1	6	1	1	1	1	6		
OU2MW-32D	40.0 - 45.0	--	--	--	--	--	--	--	--	29	1,336	29	29	29	29	1,336		
OU2MW-32I	20.0 - 25.0	--	--	--	--	--	--	--	--	4,029	3,970	4,029	4,029	4,029	3,970	4,029		
OU2MW-32I2	30.0 - 35.0	--	--	--	--	--	--	--	--	5,230	3,459	5,230	5,230	5,230	3,459	5,230		
OU2MW-32S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-35D	57.0-62.0	--	--	--	--	--	--	--	--	4	0	0	0	0	4	4		
OU2MW-35I	25.0-30.0	--	--	--	--	--	--	--	--	2,270	0	0	0	0	2,270	2,270		
OU2MW-35I2	45.0-50.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-35S	5.0-15.0	--	--	--	--	--	--	--	--	3	0	0	0	0	3	3		
OU2MW-36D	61.0-66.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-36I	25.0-30.0	--	--	--	--	--	--	--	--	1,302	0	0	0	0	1,302	1,302		
OU2MW-36I2	45.0-50.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-36S	5.0-15.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-37D	67.0-72.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-37I	25.0-30.0	--	--	--	--	--	--	--	--	43	0	0	0	0	43	43		
OU2MW-37I2	45.0-50.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-37S	5.0-15.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-38D	56.0-61.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-38I	25.0-30.0	--	--	--	--	--	--	--	--	2,992	0	0	0	0	2,992	2,992		
OU2MW-38I2	46.0-51.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-38S	5.0-15.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-39D	70.0-75.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-39I	25.0-30.0	--	--	--	--	--	--	--	--	32	0	0	0	0	32	32		
OU2MW-39I2	45.0-50.0	--	--	--	--	--	--	--	--	1	0	0	0	0	1	1		
OU2MW-39S	5.0-15.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-40I	18.0 - 23.0	--	--	--	--	--	--	--	--	165	122	165	165	165	122	165		
OU2MW-40S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-41I	18.0 - 23.0	--	--	--	--	--	--	--	--	2,370	4,276	2,370	2,370	2,370	2,370	4,276		
OU2MW-41S	5.0 - 15.0	--	--	--	--	--	--	--	--	0	143	0	0	0	0	143		
OU2MW-45D	55.0-60.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-45I	20.0-25.0	--	--	--	--	--	--	--	--	30	0	0	0	0	30	30		
OU2MW-45I2	40.0-45.0	--	--	--	--	--	--	--	--	39	0	0	0	0	39	39		
OU2MW-45S	5.0-15.0	--	--	--	--	--	--	--	--	3	0	0	0	0	3	3		
OU2MW-46I	20.0-25.0	--	--	--	--	--	--	--	--	2,503	0	0	0	0	2,503	2,503		
OU2MW-46I2	40.0-45.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-46S	5.0-15.0	--	--	--	--	--	--	--	--	0	0	0	0	0	0	0		
OU2MW-47D	60.0-65.0	--	--	--	--	--	--	--	--	7,437	0	0	0	0	7,437	7,437		
OU2MW-47I	20.0-25.0	--	--	--	--	--	--	--	--	785	0	0	0	0	785	785		
OU2MW-47I2	40.0-45.0	--	--	--	--	--	--	--	--	6,146	0	0	0	0	6,146	6,146		
OU2MW-47S	5.0-15.0	--	--	--	--	--	--	--	--	56	0	0	0	0	56	56		

**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.

The October 30, 2008 total PAH results for BBMW-01I represent unvalidated data.

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			2006				
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	March	June	Jul/Aug		
BBMW-03D	52.0 - 62.0	--	3	--	3	0	--	--	--	--	--	0	--	--	0	--	--	0	0	0	
BBMW-03I	30.0 - 40.0	--	2	--	1	0	--	--	--	--	865	0	--	--	0	--	0	0	0	0	
BBMW-03S	3.0 - 13.0	--	0	--	2	0	--	--	--	--	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	--	--	5	0	0	241	160	11	0	20	0	--	--	0	0	37		
BBMW-25D	62.0 - 72.0	--	--	--	--	45	--	59	75	44	29	0	110	78	--	--	47	11	21	78	
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	264	0	79
BBMW-25S	4.0 - 14.0	--	--	--	--	58	0	0	0	0	0	--	0	0	--	--	0	0	0	0	
GM-05D	60.95 - 75.95	0	0	0	0	0	--	--	--	--	--	--	0	--	--	--	--	0	--	--	
GM-05I	35.05 - 48.05	0	2	0	0	0	0	0	--	0	--	--	0	0	--	--	0	--	--	--	
GM-05S	5.1 - 20.1	0	283	124	27	106	307	87	367	0	0	157	0	134	0	40	57	140	21	0	
GMP-01	25.0 - 30.0	--	--	1,090	1,056	433	348	250	824	454	692	455	587	200	2,130	3,200	1,280	250	562	577	1,156
OU2MW-01D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0
OU2MW-01I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	77	--	767	170	170
OU2MW-01I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25	--	195	126	52
OU2MW-01S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,243	--	348	176	988
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-02D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0
OU2MW-02I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	477	--	370	415	493
OU2MW-02I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10	--	0	0	0
OU2MW-02S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	100	--	181	111	282
OU2MW-03D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0
OU2MW-03I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0
OU2MW-03I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0
OU2MW-03S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	151	--	530	234	225
OU2MW-04D	65.0 - 70.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	0	0
OU2MW-04I	35.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	267	--	885	296	23
OU2MW-04I2	50.0 - 55.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	41	--	32	0	0
OU2MW-04S	20.0 - 25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3,130	--	844	740	1,176
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
OU2MW-05	25.0 - 35.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,120	--	224	254	1,039
OU2MW-09	30.0 - 40.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0	--	0	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)										Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		Sampling Date														
		2007					2008									
Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec								
BBMW-03D	52.0 - 62.0	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	865	51	0	865
BBMW-03S	3.0 - 13.0	0	393	0	0	0	0	0	0	0	0	0	393	23	0	393
BBMW-07D	55.0 - 65.0	--	25	0	--	0	0	0	0	0	0	0	25	3	0	25
BBMW-07I	30.0 - 40.0	--	--	0	--	0	0	0	0	0	0	0	0	0	0	0
BBMW-07S	5.0 - 15.0	0	0	0	0	0	0	0	0	0	0	0	241	22	0	241
BBMW-25D	62.0 - 72.0	76	0	0	16	6	2	6	8	8	8	0	110	35	0	110
BBMW-25I	25.0 - 35.0	344	0	148	252	41	158	169	101	523	0	0	1,995	645	0	1,995
BBMW-25S	4.0 - 14.0	0	0	0	0	0	2	0	0	0	0	0	58	3	0	58
GM-05D	60.95 - 75.95	--	0	0	0	0	4	0	0	0	0	0	4	0	0	4
GM-05I	35.05 - 48.05	--	0	0	13	0	0	0	0	0	0	0	13	1	0	13
GM-05S	5.1 - 20.1	12	0	0	0	14	185	55	16	113	0	0	367	76	0	367
GMP-01	25.0 - 30.0	4,726	185	154	49	135	182	94	170	655	49	49	4,726	817	49	4,726
OU2MW-01D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-01I	35.0 - 40.0	424	885	32	408	85	8	1	13	10	1	1	885	253	1	885
OU2MW-01I2	50.0 - 55.0	51	51	15	0	0	0	0	0	0	0	0	195	43	0	195
OU2MW-01S	20.0 - 25.0	288	876	37	182	104	42	6	15	82	6	6	1,243	359	6	1,243
OU2MW-01WT	3.0 - 8.0	--	--	--	0	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
OU2MW-02I	35.0 - 40.0	459	645	260	410	229	377	412	281	359	229	229	645	402	229	645
OU2MW-02I2	50.0 - 55.0	0	0	0	0	1	11	0	2	1	0	0	11	2	0	11
OU2MW-02S	20.0 - 25.0	573	27	268	137	1	29	52	20	6	1	1	573	148	1	573
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-03I	35.0 - 40.0	182	0	0	0	0	0	0	85	1,262	0	0	182	22	0	1,262
OU2MW-03I2	50.0 - 55.0	0	11	14	0	0	0	0	0	0	0	0	14	2	0	14
OU2MW-03S	20.0 - 25.0	206	0	1,103	223	9	45	94	42	53	0	0	1,103	239	0	1,103
OU2MW-04D	65.0 - 70.0	0	0	0	0	3	2	1	0	1	0	0	3	1	0	3
OU2MW-04I	35.0 - 40.0	0	134	233	252	158	174	25	67	120	0	0	885	210	0	885
OU2MW-04I2	50.0 - 55.0	0	0	0	0	0	0	0	0	0	0	0	41	6	0	41
OU2MW-04S	20.0 - 25.0	386	421	913	253	600	791	200	200	730	200	200	3,130	805	200	3,130
OU2MW-04WT	3.0 - 8.0	--	--	--	0	0	0	0	0	10	0	0	0	0	0	10
OU2MW-05	25.0 - 35.0	3,159	280	188	110	110	221	158	181	514	110	110	3,159	587	110	3,159
OU2MW-09	30.0 - 40.0	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	0	0	249	64	0	249
OU2MW-11I	20.0 - 25.0	--	--	--	--	112	245	263	41	227	41	41	263	165	41	263
OU2MW-11I2	30.0 - 35.0	--	--	--	--	2,412	67	33	0	81	0	0	2,412	628	0	2,412
OU2MW-11S	3.0 - 8.0	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-14I*	20.0 - 25.0	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	0	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	0	0
OU2MW-15D	40.0 - 45.0	--	--	--	0	0	0	0	6	0	0	0	6	1	0	6
OU2MW-15I	20.0 - 25.0	--	--	--	32	1	40	8	0	14	0	0	40	16	0	40
OU2MW-15I2	30.0 - 35.0	--	--	--	599	367	0	0	0	0	0	0	599	193	0	599
OU2MW-15S	3.0 - 8.0	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0
OU2MW-16D	35.0 - 40.0	--	--	--	0	0	144	0	0	1	0	0	144	29	0	144
OU2MW-16I	15.0 - 20.0	--	--	--	1	0	0	0	0	0	0	0	1	0	0	1
OU2MW-16I2	25.0 - 30.0	--	--	--	9	53	6	2	0	0	0	0	53	14	0	53
OU2MW-16S	3.0 - 8.0	--	--	--	0	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 (feet)	Total PAH Concentrations (ug/l)																	
		Sampling Date																	
		1992	1999		2000	2002			2003			2004				2005			
	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	
BBMW-25S	4.0 - 14.0	--	--	--	--	--	22	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	
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	
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 (feet)	Total PAH Concentrations (ug/l)																			
		Sampling Date															Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2006				2007				2008											
		March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec								
BBMW-03D	52.0 - 62.0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	186	12	0	186		
BBMW-03I	30.0 - 40.0	0	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	0	283	17	0	283			
BBMW-07D	55.0 - 65.0	--	--	--	--	873	0	--	0	2	0	0	0	0	873	109	0	873			
BBMW-07I	30.0 - 40.0	--	--	--	--	--	0	--	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	0	710	37	0	710			
BBMW-25D	62.0 - 72.0	308	125	160	384	0	0	3	1	0	0	59	0	0	1,553	300	0	1,553			
BBMW-25I	25.0 - 35.0	1,560	0	37	488	11	78	457	2	181	48	86	478	0	10,185	3,116	0	10,185			
BBMW-25S	4.0 - 14.0	0	0	0	0	0	0	10	0	0	0	0	0	0	22	2	0	22			
GM-05D	60.95 - 75.95	0	--	--	--	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	0	51	4	0	51			
GM-05S	5.1 - 20.1	34	0	0	0	0	0	0	13	25	30	7	35	0	2,453	318	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	275	159	10,183	3,289	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	0	0		
OU2MW-01I	35.0 - 40.0	8,222	3,717	879	495	120	12	90	2,222	15	0	25	4	0	8,222	1,775	0	8,222			
OU2MW-01I2	50.0 - 55.0	1,249	0	0	100	0	478	7	4	0	0	0	0	0	1,249	158	0	1,249			
OU2MW-01S	20.0 - 25.0	464	457	1,230	104	321	47	2,023	2,659	48	0	0	0	0	6,927	1,190	0	6,927			
OU2MW-01WT	3.0 - 8.0	--	--	--	--	--	--	0	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	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	151	43	5,251	2,844	43	5,251			
OU2MW-02I2	50.0 - 55.0	11	0	0	0	0	12	0	11	30	1	12	0	0	30	8	0	30			
OU2MW-02S	20.0 - 25.0	311	209	164	424	0	148	155	27	57	96	46	8	0	424	150	0	424			
OU2MW-03D	65.0 - 70.0	0	0	0	0	0	0	0	6	3	0	0	0	0	6	1	0	6			
OU2MW-03I	35.0 - 40.0	0	0	0	49	0	0	0	0	0	7	0	95	0	67	10	0	95			
OU2MW-03I2	50.0 - 55.0	36	16	0	0	0	130	4	3	0	0	0	0	0	130	16	0	130			
OU2MW-03S	20.0 - 25.0	339	353	181	379	0	313	201	49	87	61	79	85	0	401	204	0	401			
OU2MW-04D	65.0 - 70.0	0	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	0	6,438	2,083	0	6,438			
OU2MW-04I2	50.0 - 55.0	115	101	57	78	0	10	16	2	0	23	0	0	0	375	65	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	334	2,666	12,611	5,832	334	12,611			
OU2MW-04WT	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0		
OU2MW-05	25.0 - 35.0	8,049	5,125	4,314	4,149	1,980	2,193	247	3412	491	516	50	456	50	8,049	2,936	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	0	0		
OU2MW-11D	40.0 - 45.0	--	--	--	--	--	8	7	5	0	0	1,030	0	0	1,030	175	0	1,030			
OU2MW-11I	20.0 - 25.0	--	--	--	--	--	1,077	112	3,627	865	1,977	275	663	112	3,627	1,322	112	3,627			
OU2MW-11I2	30.0 - 35.0	--	--	--	--	--	426	2,412	52	0	0	0	264	0	2,412	482	0	2,412			
OU2MW-11S	3.0 - 8.0	--	--	--	--	--	0	0	0	2	0	0	4	0	2	0	0	4	0		
OU2MW-14I*	20.0 - 25.0	--	--	--	--	--	--	--	--	2	0	0	0	0	2	1	0	2	0		
OU2MW-14I2	45.0 - 50.0	--	--	--	--	--	--	--	--	0	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	0	0		
OU2MW-15D	40.0 - 45.0	--	--	--	--	--	--	0	0	0	0	0	2	0	0	0	0	0	2		
OU2MW-15I	20.0 - 25.0	--	--	--	--	--	--	86	8	34	0	0	0	0	86	26	0	86	0		
OU2MW-15I2	30.0 - 35.0	--	--	--	--	--	--	320	76	0	0	0	0	0	320	79	0	320	0		
OU2MW-15S	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0		
OU2MW-16D	35.0 - 40.0	--	--	--	--	--	--	0	0	78	0	0	0	0	78	16	0	78	0		
OU2MW-16I	15.0 - 20.0	--	--	--	--	--	--	5	0	0	0	0	0	0	5	1	0	5	0		
OU2MW-16I2	25.0 - 30.0	--	--	--	--	--	--	12	16	1	0	0	0	0	16	6	0	16	0		
OU2MW-16S	3.0 - 8.0	--	--	--	--	--	--	0	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 (feet)	Total BTEX Concentrations (ug/l)														
		Sampling Date														
		2000		2002		2003			2004			2005				
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	Oct-Dec					
GMP-02	18.0 - 23.0	151	11	12	0	0	0	0	0	3	4	0	0	0	2,275	582	0	2,275
GMP-04	15.5 - 20.5	242	83	242	280	652	24	295	264	15	0	0	0	0	1,483	265	0	1,483
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-06	15.0 - 25.0	11	0	0	0	53	0	0	0	11	3	0	2	0	1,085	97	0	1,085
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	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	0	59	16	0	59
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	0	0	1	0	0	0	0	1	0	0	1
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	0	0	0	198	39	351	0	198	47	0	351
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	0	278	906	14	10	143	0	906	242	0	906
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	--	13	21	17	11	0	0	0	21	12	0	21
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	--	143	77	70	81	78	62	70	143	90	62	143
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	--	2	7	23	2	0	0	0	23	7	0	23
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	27	5	0	10	10	0	0	27	10	0	27
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	9	0	7	4	1	7	0	9	4	0	9
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	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 (feet)	Total PAH Concentrations (ug/l)														
		Sampling Date														
		2000	2002			2003			2004				2005			
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 (feet)	Total PAH Concentrations (ug/l)																			
		Sampling Date															Historic Minimum	Historic Maximum	Historic Average	Current Minimum	Current Maximum
		2006				2007				2008											
		March	June	Jul/Aug	Nov/Dec	March	May-July	Aug-Oct	Oct-Dec	Jan-Mar	Apr-Jun	July-Sep	Oct-Dec								
GMP-02	18.0 - 23.0	0	0	10	11	0	0	0	0	0	0	0	0	0	0	8,837	2,631	0	8,837		
GMP-04	15.5 - 20.5	41	22	573	232	1,380	39	1,523	1,467	1	0	0	0	0	0	1,720	485	0	1,720		
OU2IW-01S	3.0 - 8.0	--	--	--	--	--	--	0	0	48	0	0	0	0	0	48	10	0	48		
OU2MW-06	15.0 - 25.0	19	0	0	0	0	0	0	3	6	0	0	0	0	0	9,241	772	0	9,241		
OU2MW-06S	3.0 - 8.0	--	--	--	--	--	--	10	0	0	0	6	0	0	0	10	3	0	10		
OU2MW-07	15.0 - 25.0	69	0	0	0	0	0	0	37	0	0	0	0	0	0	69	14	0	69		
OU2MW-07S	3.0 - 8.0	--	--	--	--	--	--	0	7	0	0	0	0	0	0	7	1	0	7		
OU2MW-10D	35.0 - 40.0	--	--	--	--	--	--	0	0	0	413	32	727	0	0	413	89	0	727		
OU2MW-10I	20.0 - 25.0	--	--	--	--	--	--	0	297	201	1	0	2	0	0	297	100	0	297		
OU2MW-10S	3.0 - 7.0	--	--	--	--	--	--	0	0	0	5	0	0	0	0	5	1	0	5		
OU2MW-12D	40.0 - 45.0	--	--	--	--	--	--	79	39	44	35	0	0	0	0	79	39	0	79		
OU2MW-12I	20.0 - 25.0	--	--	--	--	--	--	888	97	268	137	147	79	97	0	888	307	79	888		
OU2MW-12I2	30.0 - 35.0	--	--	--	--	--	--	3	7	30	5	0	0	0	0	30	9	0	30		
OU2MW-12S	3.0 - 7.0	--	--	--	--	--	--	0	0	0	0	0	0	0	0	0	0	0	0		
OU2MW-13D	35.0 - 40.0	--	--	--	--	--	--	15	2	1	4	2	0	1	0	15	5	0	15		
OU2MW-13I	20.0 - 25.0	--	--	--	--	--	--	12	10	1	7	1	15	1	0	12	6	1	15		
OU2MW-13S	3.0 - 8.0	--	--	--	--	--	--	0	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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 BBMW-01D 68.5-78.5 10/30/08	OU2 BBMW-01D 68.5-78.5 11/26/08	OU2 BBMW-01D 68.5-78.5 12/23/08	OU2 BBMW-011 32-42 10/30/08	OU2 BBMW-011 32-42 12/01/08	OU2 BBMW-011 32-42 12/23/08	OU2 BBMW-01S 5-15 10/30/08	OU2 BBMW-01S 5-15 12/01/08	OU2 BBMW-01S 5-15 12/23/08	OU2 BBMW-02D 73-83 12/02/08	OU2 BBMW-021 30-40 12/02/08
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	2 J	2 J	10 U	10 U	2 J	19	9	50	10 U	10 U
Toluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	3 J	10 U	10 U
Ethylbenzene	5	10 U	8	8	10 U	1 J	1 J	110	50	21	10 U	10 U
Xylene, m,p-	5	10 U	7	6	36	26	25	11	6 J	6 J	10 U	10 U
Xylene, o-	5	10 U	4 J	4 J	10 U	7	6	610 D	730	130	10 U	10 U
Total BTEX	NE	ND	21	20	36	34	34	750	797	210	ND	ND
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 U	10 U	10 UJ	10 U	5 J	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ
Butanone, 2-	50*	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	7	10 U	10 U	10 U	10 U	3 J	8	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ
Cyclohexane	NE	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	11	12	7	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
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	4 J	2 J	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	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 UJ
Dichloroethene, 1,1-	0.07	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
Heptane, n-	NE	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Isopropyl benzene	5	10 U	10 U	10 U	11	9	8	71	52	27	10 U	10 U
Methyl tert-butyl ether	10*	10 U	10 U	10 UJ	10	4 J	1 J	10 U	10 U	10 UJ	12 J	10 UJ
Naphthalene	10*	180	160	180	12000 D	6800	8200	1300 D	2200	630	10 U	10 U
Nonane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U	44	34	28	24	21	13	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	9	6	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U	9	11	10 U	10 U	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 UJ	10 U	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	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	3 J	300 JD	230	200	330 D	310	87	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	8	9	700 JD	510	580 J	750 D	1400	330	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	5 J	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	10 U	10 U	10 U	18	24	14	10 U	73	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	2 J	300 JD	370 J	300	10 U	16	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	9	7	10 U	5	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	3 J	3 J	10 U	1 J	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	51	61	40	10 U	24	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	4 J	800 JD	870	570	10 U	9	10 U	10 U	10 U
Naphthalene	10*	10 U	10 UJ	7 J	4600 D	3800	2900	10 U	2 J	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	37	42	31	10 U	11	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	4 J	3 J	10 U	1 J	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	13	5806	5183	3868	ND	142	ND	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 BMW-01D 68.5-78.5 10/30/08	OU2 BMW-01D 68.5-78.5 11/26/08	OU2 BMW-01D 68.5-78.5 12/23/08	OU2 BMW-011 32-42 10/30/08	OU2 BMW-011 32-42 12/01/08	OU2 BMW-011 32-42 12/23/08	OU2 BMW-01S 5-15 10/30/08	OU2 BMW-01S 5-15 12/01/08	OU2 BMW-01S 5-15 12/23/08	OU2 BMW-02D 73-83 12/02/08	OU2 BMW-021 30-40 12/02/08
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	ND	ND	13	5806	5183	3868	ND	142	ND	ND	ND
<b>Total Metals (ug/L)</b>												
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 BMW-02S 5-15 12/02/08	OU2 BMW-03D 52-62 11/24/08	OU2 BMW-03I 30-40 11/24/08	OU2 BMW-03S 3-13 11/24/08	OU2 BMW-07D 55-65 12/11/08	OU2 BMW-07I 30-40 12/11/08	OU2 BMW-07S 5-15 12/11/08	OU2 BMW-15D 70-80 12/08/08	OU2 BMW-15I 23-28 12/09/08	OU2 BMW-15I2 35-45 12/09/08	OU2 BMW-15S 5-15 12/09/08
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	8	10 U
Toluene	5	10 U	10 U	10 U	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	10 U	32	10 U
Xylene, m,p-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	16	10 U
Xylene, o-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	93	10 U
Total BTEX	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	149	ND
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U
Bromomethane	5	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Butanone, 2-	50*	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ
Cyclohexane	NE	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	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-	3	10 U	10 U	10 U	10 U	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 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Dichloroethane, 1,1-	5	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	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
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ
Isopropyl benzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	74	10 U
Methyl tert-butyl ether	10*	10 UJ	10 UJ	160 J	10 UJ	10 UJ	10 UJ	10 UJ	24 J	10 UJ	10 UJ	10 UJ
Naphthalene	10*	10 U	10 U	10 U	10 U	10 U	5	10 U	10 U	10 U	160	10 U
Nonane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10	10 U
Styrene	5	10 U	10 U	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	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Trichloroethene	5	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	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	28	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	17	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	6 J	10 UJ	10 U	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	10 U	10 U	10 U	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	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
Fluoranthene	50*	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
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	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 UJ	10 UJ	10 UJ	10 U	10 U	77	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
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	77	ND
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 BMW-02S 5-15 12/02/08	OU2 BMW-03D 52-62 11/24/08	OU2 BMW-03I 30-40 11/24/08	OU2 BMW-03S 3-13 11/24/08	OU2 BMW-07D 55-65 12/11/08	OU2 BMW-07I 30-40 12/11/08	OU2 BMW-07S 5-15 12/11/08	OU2 BMW-15D 70-80 12/08/08	OU2 BMW-15I 23-28 12/09/08	OU2 BMW-15I2 35-45 12/09/08	OU2 BMW-15S 5-15 12/09/08
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	77	ND
<b>Total Metals (ug/L)</b>												
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 BMW-16D 68-78 11/11/08	OU2 BMW-16I 35-45 11/11/08	OU2 BMW-16S 5-15 11/11/08	OU2 BMW-23D 49.5-59.5 10/30/08	OU2 BMW-23D 49.5-59.5 12/01/08	OU2 BMW-23D 49.5-59.5 12/22/08	OU2 BMW-23D2 63-73 10/30/08	OU2 BMW-23D2 63-73 12/01/08	OU2 BMW-23D2 63-73 12/22/08	OU2 BMW-23I 33-43 10/30/08	OU2 BMW-23I 33-43 12/01/08
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	10 U	10 U	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	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U	10 U	5	9	10 U	10 U	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U	10 U	3 J	4 J	10 U	10 U	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND	ND	8	14	ND	ND	ND	ND	ND
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 UJ	10 UJ	4 J	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U
Bromomethane	5	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butanone, 2-	50*	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	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 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	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-	3	10 U	10 U	10 U	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 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ
Dichloroethane, 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
Dichloroethene, 1,1-	0.07	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
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ
Isopropyl benzene	5	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U
Methyl tert-butyl ether	10*	10 UJ	10 UJ	2 J	10 U	2 J	3 J	10 U	10 UJ	10 U	10 U	7 J
Naphthalene	10*	10 U	10 U	10 U	78	63	97	10 U	10 U	7	120	11
Nonane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	2 J	3 J	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	2 J	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U
Tetrahydrofuran	50*	10 UJ	10 UJ	10 UJ	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	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	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-	5	10 UJ	10 UJ	10 U	10 U	3 J	6 J	10 U	10 U	10 UJ	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	10 U	10 U	10 U	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	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
Fluoranthene	50*	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
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 UJ	10 UJ	10 UJ	10 U	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	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
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 BMW-16D 68-78 11/11/08	OU2 BMW-16I 35-45 11/11/08	OU2 BMW-16S 5-15 11/11/08	OU2 BMW-23D 49.5-59.5 10/30/08	OU2 BMW-23D 49.5-59.5 12/01/08	OU2 BMW-23D 49.5-59.5 12/22/08	OU2 BMW-23D 63-73 10/30/08	OU2 BMW-23D2 63-73 12/01/08	OU2 BMW-23D2 63-73 12/22/08	OU2 BMW-23I 33-43 10/30/08	OU2 BMW-23I 33-43 12/01/08
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total Metals (ug/L)</b>												
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 BMW-231 33-43 12/22/08	OU2 BMW-23S 5-15 10/30/08	OU2 BMW-23S 5-15 12/01/08	OU2 BMW-23S 5-15 12/22/08	OU2 BMW-24D 59.5-69.5 12/10/08	OU2 BMW-24I 32-42 12/10/08	OU2 BMW-24S 4-14 12/10/08	OU2 BMW-25D 62-72 11/21/08	OU2 BMW-25I 25-35 11/21/08	OU2 BMW-25S 4-14 11/21/08	OU2 GM-05D 60.95-75.95 12/03/08
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	10 U	13	17	10 U	10 U	10 U	10 U	56	10 U	10 U
Toluene	5	10 U	16	23	220	2 J	10 U	10 U	1 J	7	10 U	10 U
Ethylbenzene	5	10 U	5300 D	6700	4700	1 J	10 U	10 U	10 U	150	10 U	10 U
Xylene, m,p-	5	10 U	2000 D	3000	2500	5 J	10 U	10 U	4 J	20	10 U	10 U
Xylene, o-	5	10 U	300 JD	250 J	670	7	10 U	10 U	3 J	290	10 U	10 U
Total BTEX	NE	ND	7616	9986	8107	15	ND	ND	8	523	ND	ND
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Butanone, 2-	50*	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ
Cyclohexane	NE	10 U	10 U	10 UJ	5	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	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-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Dichloroethene, 1,1-	0.07	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
Heptane, n-	NE	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ
Hexane, n-	NE	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ
Isopropyl benzene	5	10 UJ	300 JD	310 J	230 J	10 U	10 U	10 U	10 U	26	10 U	10 U
Methyl tert-butyl ether	10*	7	10 U	10 U	10 U	1 J	1 J	10 UJ	38 J	1 J	10 UJ	10 UJ
Naphthalene	10*	9	1800 D	1900	1700	310 J	10 U	10 U	91	1700	10 U	10 U
Nonane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene, n-	5	10 UJ	100	94	130 J	10 U	10 U	10 U	10 U	11	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	3 J	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	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
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	390	230	260	13	10 U	10 U	3 J	56	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 UJ	700 JD	940	750	14	10 U	10 U	2 J	220	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	10 U	10 U	24	22	1 J	10 U	10 U	10 U	16	10 U	10 U
Acenaphthylene	NE	10 U	10 U	2 J	4 J	14	10 U	10 U	10 U	46	10 U	10 U
Anthracene	50*	10 U	10 U	7	8	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	4 J	4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	11	12	2 J	10 U	10 U	10 U	12	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	58	61	14	10 U	10 U	10 U	15	10 U	10 U
Naphthalene	10*	10 U	10 U	660	1200	78	10 U	10 U	10 UJ	380 J	10 UJ	10 U
Phenanthrene	50*	10 U	10 U	22	25	4 J	10 U	10 U	10 U	9	10 U	10 U
Pyrene	50*	10 U	10 U	4 J	4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	792	1340	113	ND	ND	ND	478	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 BMW-23I 33-43 12/22/08	OU2 BMW-23S 5-15 10/30/08	OU2 BMW-23S 5-15 12/01/08	OU2 BMW-23S 5-15 12/22/08	OU2 BMW-24D 59.5-69.5 12/10/08	OU2 BMW-24I 32-42 12/10/08	OU2 BMW-24S 4-14 12/10/08	OU2 BMW-25D 62-72 11/21/08	OU2 BMW-25I 25-35 11/21/08	OU2 BMW-25S 4-14 11/21/08	OU2 GM-05D 60.95-75.95 12/03/08
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	ND	ND	792	1340	113	ND	ND	ND	478	ND	ND
<b>Total Metals (ug/L)</b>												
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 GM-05I 35.05-48.05 12/03/08	OU2 GM-05S 5.1-20.1 12/04/08	OU2 GMP-01 25-30 11/19/08	OU2 GMP-02 18-23 12/03/08	OU2 GMP-04 15.5-20.5 12/03/08	OU2 OU2IW-01S 3-8 12/16/08	OU2 OU2MW-01D 65-70 11/20/08	OU2 OU2MW-01I 11/20/08	OU2 OU2MW-01I2 50-55 11/20/08	OU2 OU2MW-01S 20-25 11/20/08	OU2 OU2MW-01WT 3-8 11/21/08
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	42	330	10 U	10 U	10 U	10 U	10 U	10 U	27	10 U
Toluene	5	10 U	10 U	5	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U
Ethylbenzene	5	10 U	54	190	10 U	10 U	10 U	10 U	10 U	10 U	18	10 U
Xylene, m,p-	5	10 U	7	67	10 U	10 U	10 U	10 U	4 J	10 U	15	10 U
Xylene, o-	5	10 U	10	63	10 U	10 U	10 U	10 U	6	10 U	20	10 U
Total BTEX	NE	ND	113	655	ND	ND	ND	ND	10	ND	82	ND
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	6	10 U	10 U	10 UJ
Bromomethane	5	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Butanone, 2-	50*	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	11	10 U	10 U	10 U
Chloromethane	5	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 UJ	10 UJ	10 U	10 UJ	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	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
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	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 U	10 U	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	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
Heptane, n-	NE	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U
Isopropyl benzene	5	10 U	8	9	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	10*	10 UJ	2 J	2 J	4 J	10 UJ	10 U	10 UJ	12 J	4 J	4 J	10 UJ
Naphthalene	10*	10 U	12	770	10 U	10 U	10 U	10 U	8	10 U	1400	10 U
Nonane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	3 J	8	10 U	10 U	10 U	10 U	10 U	10 U	3 J	10 U
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	1 J	10 U	10 U	10 U	10 U	3 J	10 U	2 J	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U	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	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	9	43	10 U	10 U	10 U	10 U	47	10 U	17	10 U
Trimethylbenzene, 1,2,4-	5	10 U	34	160	10 U	10 U	10 U	10 U	5	10 U	61	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	10 U	6	20	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U
Acenaphthylene	NE	10 U	20	31	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	4 J	12	10 U	10 U	10 U	10 U	3 J	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	10 U	10 U	10 U
Naphthalene	10*	10 U	3 J	190	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Phenanthrene	50*	10 U	2 J	16	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	35	275	ND	ND	ND	ND	4	ND	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 GM-05I 35.05-48.05 12/03/08	OU2 GM-05S 5.1-20.1 12/04/08	OU2 GMP-01 25-30 11/19/08	OU2 GMP-02 18-23 12/03/08	OU2 GMP-04 15.5-20.5 12/03/08	OU2 OU2IW-01S 3-8 12/16/08	OU2 OU2MW-01D 65-70 11/20/08	OU2 OU2MW-01I 11/20/08	OU2 OU2MW-01I2 50-55 11/20/08	OU2 OU2MW-01S 20-25 11/20/08	OU2 OU2MW-01WT 3-8 11/21/08
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	ND	35	275	ND	ND	ND	ND	4	ND	ND	ND
<b>Total Metals (ug/L)</b>												
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-02D 65-70 11/25/08	OU2 OU2MW-02I 35-40 11/25/08	OU2 OU2MW-02I2 50-55 11/24/08	OU2 OU2MW-02S 20-25 11/24/08	OU2 OU2MW-03D 65-70 11/26/08	OU2 OU2MW-03I 35-40 11/26/08	OU2 OU2MW-03I2 50-55 11/26/08	OU2 OU2MW-03S 20-25 11/26/08	OU2 OU2MW-04D 65-70 11/25/08	OU2 OU2MW-04I 35-40 11/25/08	OU2 OU2MW-04I2 50-55 11/25/08
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	20	1 J	2 J	10 U	230	10 U	42	10 U	54	10 U
Toluene	5	10 U	61	10 U	10 U	10 U	6	10 U	10 U	1 J	6	10 U
Ethylbenzene	5	10 U	11	10 U	2 J	10 U	6	10 U	4 J	10 U	14	10 U
Xylene, m,p-	5	10 U	77	10 U	10 U	10 U	320	10 U	2 J	10 U	15	10 U
Xylene, o-	5	10 U	190 J	10 U	2 J	10 U	700 J	10 U	5	10 U	31	10 U
Total BTEX	NE	ND	359	1	6	ND	1262	ND	53	1	120	ND
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U
Bromomethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butanone, 2-	50*	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ
Cyclohexane	NE	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	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-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 UJ
Dichloroethane, 1,1-	5	10 U	4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	2 J	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
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Isopropyl benzene	5	10 U	40	10 U	10 U	10 U	47	10 U	2 J	10 U	8	10 U
Methyl tert-butyl ether	10*	10 U	13 J	3 J	10 UJ	10 U	2 J	6 J	10 U	10 UJ	61 J	10 U
Naphthalene	10*	5	4100	10 U	10 U	10 U	280	10 U	10	10 U	8500	10 U
Nonane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	15	10 U	10 U	10 U	10	10 U	10 U	10 U	9	10 U
Styrene	5	10 U	10 U	10 U	10 U	10 U	23	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	10 U	3 J	10 U
Tetrahydrofuran	50*	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ
Trichloroethene	5	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	NE	10 U	75	10 U	10 U	10 U	170	10 U	10 U	10 U	50	10 U
Trimethylbenzene, 1,2,4-	5	10 U	27	10 U	10 U	10 U	180	10 U	9	10 U	32	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	10 U	18	10 U	3 J	10 U	8	10 U	21	10 U	10 U	10 U
Acenaphthylene	NE	10 U	100	10 U	3 J	10 U	58	10 U	44	10 U	10 U	10 U
Anthracene	50*	10 U	4 J	10 U	10 U	10 U	10 U	10 U	1 J	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
Fluorene	50*	10 U	3 J	10 U	1 J	10 U	3 J	10 U	9	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 UJ	2 J	10 U	10 U	10 UJ	26 J	10 UJ	3 J	10 UJ	10 UJ	10 UJ
Phenanthrene	50*	10 U	21	10 U	1 J	10 U	10 U	10 U	7	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
Total Non-carcinogenic PAHs	NE	ND	151	ND	8	ND	95	ND	85	ND	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-02D 65-70 11/25/08	OU2 OU2MW-02I 35-40 11/25/08	OU2 OU2MW-02II 50-55 11/24/08	OU2 OU2MW-02S 20-25 11/24/08	OU2 OU2MW-03D 65-70 11/26/08	OU2 OU2MW-03I 35-40 11/26/08	OU2 OU2MW-03II 50-55 11/26/08	OU2 OU2MW-03S 20-25 11/26/08	OU2 OU2MW-04D 65-70 11/25/08	OU2 OU2MW-04I 35-40 11/25/08	OU2 OU2MW-04II 50-55 11/25/08
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	ND	151	ND	8	ND	95	ND	85	ND	ND	ND
<b>Total Metals (ug/L)</b>												
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-04S 20-25 11/25/08	OU2 OU2MW-04WT 3-8 11/25/08	OU2 OU2MW-05 25-35 12/04/08	OU2 OU2MW-06 15-25 11/21/08	OU2 OU2MW-06S 3-8 11/21/08	OU2 OU2MW-07 15-25 11/21/08	OU2 OU2MW-07S 3-8 11/21/08	OU2 OU2MW-08D 65-70 12/08/08	OU2 OU2MW-08I 35-40 12/08/08	OU2 OU2MW-08I2 50-55 12/08/08	OU2 OU2MW-08S 20-25 12/08/08
<b>BTEX (ug/L)</b>												
Benzene	1	410	2 J	230	10 U	10 U	10 U	10 U	10 U	10 U	140	460 J
Toluene	5	7	10 U	4 J	10 U	10 U	10 U	10 U	10 U	10 U	8	20
Ethylbenzene	5	190	4 J	200	10 U	10 U	10 U	10 U	10 U	3 J	49	280 J
Xylene, m,p-	5	51	2 J	49	10 U	10 U	10 U	10 U	10 U	49	33	110
Xylene, o-	5	72	2 J	31	2 J	10 U	10 U	10 U	10 U	17	63	140
Total BTEX	NE	730	10	514	2	ND	ND	ND	ND	69	293	1010
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U
Butanone, 2-	50*	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	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 UJ	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	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	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	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 UJ	10 U	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	1 J	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	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
Heptane, n-	NE	10 UJ	10 UJ	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 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Isopropyl benzene	5	10	10 U	11	10 U	10 U	10 U	10 U	10 U	14	16	21
Methyl tert-butyl ether	10*	4 J	10 U	2 J	37 J	10 U	45 J	10 UJ	10 UJ	40 J	110 J	10 U
Naphthalene	10*	3400	86	360	12	10 U	3 J	10 U	10 U	15000	6700	8100
Nonane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Octane, n-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10 U
Propylbenzene, n-	5	13	10 U	9	10 U	10 U	10 U	10 U	10 U	40	18	40
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12	10 U	10 U
Tetrachloroethene	5	2 J	10 U	10 U	1 J	10 U	2 J	10 U	10 U	7	3 J	2 J
Tetrahydrofuran	50*	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	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
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	110	2 J	42	10 U	10 U	10 U	10 U	10 U	370	94	350
Trimethylbenzene, 1,2,4-	5	270	5	120	10 U	10 U	10 U	10 U	10 U	750	92	670
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	28	10 U	45	10 U	10 U	10 U	10 U	10 U	20	23	57
Acenaphthylene	NE	72	10 U	39	10 U	10 U	10 U	10 U	10 U	440 J	270	330 J
Anthracene	50*	3 J	10 U	5	10 U	10 U	10 U	10 U	10 U	9	3 J	11
Fluoranthene	50*	2 J	10 U	2 J	10 U	10 U	10 U	10 U	10 U	2 J	10 U	3 J
Fluorene	50*	20	10 U	14	10 U	10 U	10 U	10 U	10 U	57	4 J	61
Methylnaphthalene, 2-	NE	67	10 U	19	10 U	10 U	10 U	10 U	10 U	1000	11	780
Naphthalene	10*	130 J	10 UJ	310	10 U	10 U	10 U	10 U	10 U	6900	2600	5400
Phenanthrene	50*	10	10 U	20	10 U	10 U	10 U	10 U	10 U	57	43	53
Pyrene	50*	2 J	10 U	2 J	10 U	10 U	10 U	10 U	10 U	1 J	10 U	3 J
Total Non-carcinogenic PAHs	NE	334	ND	456	ND	ND	ND	ND	ND	8486	2954	6698
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-04S 20-25 11/25/08	OU2 OU2MW-04WT 3-8 11/25/08	OU2 OU2MW-05 25-35 12/04/08	OU2 OU2MW-06 15-25 11/21/08	OU2 OU2MW-06S 3-8 11/21/08	OU2 OU2MW-07 15-25 11/21/08	OU2 OU2MW-07S 3-8 11/21/08	OU2 OU2MW-08D 65-70 12/08/08	OU2 OU2MW-08I 35-40 12/08/08	OU2 OU2MW-08I2 50-55 12/08/08	OU2 OU2MW-08S 20-25 12/08/08
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	334	ND	456	ND	ND	ND	ND	ND	8486	2954	6698
<b>Total Metals (ug/L)</b>												
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-08WT 3-8 12/08/08	OU2 OU2MW-09 20-30 11/24/08	OU2 OU2MW-10D 35-40 12/02/08	OU2 OU2MW-10I 20-25 12/02/08	OU2 OU2MW-10S 3-7 12/02/08	OU2 OU2MW-11D 40-45 12/03/08	OU2 OU2MW-11I 20-25 12/03/08	OU2 OU2MW-11I2 30-35 12/03/08	OU2 OU2MW-11S 3-8 12/03/08	OU2 OU2MW-12D 40-45 11/18/08	OU2 OU2MW-12I 20-25 11/18/08
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	10 U	300	130	10 U	10 U	120	29	10 U	10 U	30
Toluene	5	10 U	10 U	3 J	1 J	10 U	10 U	3 J	2 J	10 U	10 U	1 J
Ethylbenzene	5	10 U	10 U	7	10 U	10 U	10 U	52	19	10 U	10 U	13
Xylene, m,p-	5	10 U	10 U	14	3 J	10 U	10 U	21	5 J	10 U	10 U	6 J
Xylene, o-	5	10 U	10 U	27	9	10 U	10 U	31	26	10 U	10 U	12
Total BTEX	NE	ND	ND	351	143	ND	ND	227	81	ND	ND	62
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Butanone, 2-	50*	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Cyclohexane	NE	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	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-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	2 J	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	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
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ
Isopropyl benzene	5	10 U	10 U	26	9	10 U	10 U	6	26	10 U	10 U	10 U
Methyl tert-butyl ether	10*	10 UJ	13 J	1 J	6 J	10 UJ	10 UJ	1 J	120 J	10 UJ	10 UJ	4 J
Naphthalene	10*	10 U	10 U	1200	27	10 U	10 U	810	290 J	10 U	10 U	190
Nonane	NE	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Octane, n-	NE	10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	4 J	10 U	10 U	10 U	7	13	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U	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	1 J	10 U	10 U	10 U	2 J
Tetrahydrofuran	50*	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	20	10 U	10 U	10 U	57	19	10 U	10 U	21
Trimethylbenzene, 1,2,4-	5	10 U	10 U	2 J	10 U	10 U	10 U	110	6	10 U	10 U	17
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	10 U	10 U	19	10 U	10 U	10 U	16	16	10 U	10 U	3 J
Acenaphthylene	NE	3 J	10 U	16	10 U	10 U	10 U	39	110	10 U	10 U	11
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	2 J	2 J	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	1 J	1 J	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	7	2 J	10 U	10 U	2 J
Methylnaphthalene, 2-	NE	7	10 U	2 J	10 U	10 U	10 U	41	10 U	10 U	10 U	3 J
Naphthalene	10*	52	10 U	690	2 J	10 U	10 U	550	110	4 J	10 UJ	59 J
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	6	22	10 U	10 U	1 J
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	1 J	1 J	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	62	ND	727	2	ND	ND	663	264	4	ND	79
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-08WT 3-8 12/08/08	OU2 OU2MW-09 20-30 11/24/08	OU2 OU2MW-10D 35-40 12/02/08	OU2 OU2MW-10I 20-25 12/02/08	OU2 OU2MW-10S 3-7 12/02/08	OU2 OU2MW-11D 40-45 12/03/08	OU2 OU2MW-11I 20-25 12/03/08	OU2 OU2MW-11I2 30-35 12/03/08	OU2 OU2MW-11S 3-8 12/03/08	OU2 OU2MW-12D 40-45 11/18/08	OU2 OU2MW-12I 20-25 11/18/08
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	62	ND	727	2	ND	ND	663	264	4	ND	79
<b>Total Metals (ug/L)</b>												
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-12I2 30-35 11/18/08	OU2 OU2MW-12S 3-7 11/18/08	OU2 OU2MW-13D 35-40 11/18/08	OU2 OU2MW-13I 20-25 11/18/08	OU2 OU2MW-13S 3-8 11/18/08	OU2 OU2MW-14I 20-25 12/10/08	OU2 OU2MW-14I2 45-58 12/09/08	OU2 OU2MW-14S 3-8 12/11/08	OU2 OU2MW-15D 40-45 12/02/08	OU2 OU2MW-15I 20-25 12/02/08	OU2 OU2MW-15I2 30-35 12/02/08
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	10 U	10 U	6	10 U	10 U	10 U	10 U	10 U	10	10 U
Toluene	5	10 U	10 U	10 U	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	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U	1 J	10 U
Xylene, o-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3 J	10 U
Total BTEX	NE	ND	ND	ND	7	ND	ND	ND	ND	ND	14	ND
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ
Butanone, 2-	50*	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ
Cyclohexane	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	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-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	9	10 U	10 U	10 U	10 UJ	10 UJ	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 UJ	10 UJ	10 UJ
Dichloroethene, 1,1-	0.07	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
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Isopropyl benzene	5	10 U	10 U	10 U	8	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	10*	4 J	10 UJ	52 J	10 UJ	10 UJ	2 J	10 UJ	10 U	10 UJ	12 J	10 UJ
Naphthalene	10*	4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	13	10 U
Nonane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U	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	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Tetrahydrofuran	50*	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	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
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	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-	5	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-	NE	10 UJ	10 UJ	11 J	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	10 U	10 U	10 U	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	7	10 U	10 U	10 U	10 U	1 J	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
Fluoranthene	50*	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	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10*	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	1 J	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
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	15	ND	ND	ND	ND	2	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-12I2 30-35 11/18/08	OU2 OU2MW-12S 3-7 11/18/08	OU2 OU2MW-13D 35-40 11/18/08	OU2 OU2MW-13I 20-25 11/18/08	OU2 OU2MW-13S 3-8 11/18/08	OU2 OU2MW-14I 20-25 12/10/08	OU2 OU2MW-14I2 45-58 12/09/08	OU2 OU2MW-14S 3-8 12/11/08	OU2 OU2MW-15D 40-45 12/02/08	OU2 OU2MW-15I 20-25 12/02/08	OU2 OU2MW-15I2 30-35 12/02/08
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	ND	ND	ND	15	ND	ND	ND	ND	2	ND	ND
<b>Total Metals (ug/L)</b>												
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-15S 3-8 12/02/08	OU2 OU2MW-16D 35-40 12/15/08	OU2 OU2MW-16I 15-20 12/15/08	OU2 OU2MW-16I2 25-30 12/15/08	OU2 OU2MW-16S 3-8 12/15/08	OU2 OU2MW-17D 60-70 12/04/08	OU2 OU2MW-17I 13-23 12/04/08	OU2 OU2MW-17I2 35-40 12/04/08	OU2 OU2MW-17S 5-10 12/04/08	OU2 OU2MW-18D 60-70 12/10/08	OU2 OU2MW-18I 13-23 12/09/08
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	23000
Toluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	510 J
Ethylbenzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2700
Xylene, m,p-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	700 J
Xylene, o-	5	10 U	1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	650 J
Total BTEX	NE	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	27560
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	15 J
Bromomethane	5	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Butanone, 2-	50*	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J
Dichlorodifluoromethane	5	10 UJ	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Dichloroethane, 1,1-	5	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	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
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	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	10 UJ	10 UJ	10 UJ	10 U	8
Isopropyl benzene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	81
Methyl tert-butyl ether	10*	10 UJ	9	10 U	2 J	10 U	10 UJ	10 U	1 J	10 U	10 UJ	10 UJ
Naphthalene	10*	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	7700
Nonane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	25
Styrene	5	10 U	10 U	10 U	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	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Trichloroethene	5	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	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	400
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	460 J
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	150 J
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	34
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2 J
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	60
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	660
Naphthalene	10*	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	4200
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	69
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3 J
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5188
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:		OU2 OU2MW-15S 3-8 12/02/08	OU2 OU2MW-16D 35-40 12/15/08	OU2 OU2MW-16I 15-20 12/15/08	OU2 OU2MW-16I2 25-30 12/15/08	OU2 OU2MW-16S 3-8 12/15/08	OU2 OU2MW-17D 60-70 12/04/08	OU2 OU2MW-17I 13-23 12/04/08	OU2 OU2MW-17I2 35-40 12/04/08	OU2 OU2MW-17S 5-10 12/04/08	OU2 OU2MW-18D 60-70 12/10/08	OU2 OU2MW-18I 13-23 12/09/08
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5188
<b>Total Metals (ug/L)</b>												
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-18I2 35-45 12/09/08	OU2 OU2MW-19D 65-70 12/02/08	OU2 OU2MW-19I 13-23 11/20/08	OU2 OU2MW-19I2 35-45 11/20/08	OU2 OU2MW-20D 65-70 12/04/08	OU2 OU2MW-20I 13-23 12/04/08	OU2 OU2MW-20I2 35-45 12/09/08	OU2 OU2MW-20S 4-9 12/04/08	OU2 OU2MW-21I 13-23 12/17/08	OU2 OU2MW-21I2 35-45 12/17/08	OU2 OU2MW-21S 5-15 12/17/08
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	8	19	10 U	10 U	2 J	10 U	10 U	490	11	52
Toluene	5	10 U	580 J	100	1 J	10 U	5	10 U	10 U	47	1 J	50 U
Ethylbenzene	5	10 U	120	1200	13	10 U	490	10 U	10 U	730	11 J	11 J
Xylene, m,p-	5	10 U	560 J	410	75	10 U	68	10 U	10 U	230	250	50 U
Xylene, o-	5	10 U	550 J	570	23	10 U	150	10 U	10 U	380	94	19 J
Total BTEX	NE	ND	1818	2299	112	ND	715	ND	ND	1877	367	82
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 U	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	50 UJ
Bromomethane	5	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	50 UJ
Butanone, 2-	50*	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	5 J	10 U	10 U	50 U
Chloroform	7	10 U	10 U	10 U	3 J	10 U	10 U	10 U	10 U	10 U	5	50 U
Chloromethane	5	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	50 UJ
Cyclohexane	NE	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	50 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3 J	10 U	50 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	50 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U	50 U
Dichlorodifluoromethane	5	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	50 UJ
Dichloroethane, 1,1-	5	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 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	50 U
Heptane, n-	NE	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	50 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	50 UJ
Isopropyl benzene	5	10 U	11	32	140	10 U	140	10 U	10 U	41	17	50 U
Methyl tert-butyl ether	10*	2 J	4 J	10 UJ	11 J	10 UJ	10 U	37 J	10 UJ	10 U	11 J	50 UJ
Naphthalene	10*	10 U	6500 J	790	20000	10 U	360	10 U	2 J	4000	8100	320
Nonane	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	23	12	55	10 U	45	10 U	10 U	30	31	50 U
Styrene	5	10 U	730 J	10 U	21	10 U	10 U	10 U	10 U	10 UJ	10 U	50 U
Tetrachloroethene	5	10 U	2 J	10 U	13	10 U	10 U	10 U	10 U	10 U	4 J	50 U
Tetrahydrofuran	50*	22 J	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	50 U
Trichloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	160	140	660 J	10 U	32	10 U	10 U	300	190	50 U
Trimethylbenzene, 1,2,4-	5	10 U	620 J	250	1200	10 U	480	10 U	10 U	500	540 J	10 J
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	50 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	10 U	16	92	19	10 U	10 U	10 U	10 U	52	19	53
Acenaphthylene	NE	10 U	170 J	21	250 J	10 U	10 U	10 U	10 U	79	290	7
Anthracene	50*	10 U	5	8	8	10 U	10 U	10 U	10 U	6	10	3 J
Fluoranthene	50*	10 U	1 J	3 J	2 J	10 U	10 U	10 U	10 U	2 J	2 J	10 U
Fluorene	50*	10 U	33	30	44	10 U	10 U	10 U	10 U	36	53	16
Methylnaphthalene, 2-	NE	10 U	360 J	5 J	770	10 U	10 U	10 U	10 U	69	510	10 U
Naphthalene	10*	10 U	3100	160	5100	10 U	10 U	10 U	10 U	23	2200	330
Phenanthrene	50*	10 U	31	34	44	10 U	10 U	10 U	10 U	28	48	15
Pyrene	50*	10 U	2 J	4 J	2 J	10 U	10 U	10 U	10 U	2 J	2 J	10 U
Total Non-carcinogenic PAHs	NE	ND	3718	357	6239	ND	ND	ND	ND	297	3134	424
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-18I2 35-45 12/09/08	OU2 OU2MW-19D 65-70 12/02/08	OU2 OU2MW-19I 13-23 11/20/08	OU2 OU2MW-19I2 35-45 11/20/08	OU2 OU2MW-20D 65-70 12/04/08	OU2 OU2MW-20I 13-23 12/04/08	OU2 OU2MW-20I2 35-45 12/09/08	OU2 OU2MW-20S 4-9 12/04/08	OU2 OU2MW-21I 13-23 12/17/08	OU2 OU2MW-21I2 35-45 12/17/08	OU2 OU2MW-21S 5-15 12/17/08
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	ND	3718	357	6239	ND	ND	ND	ND	297	3134	424
<b>Total Metals (ug/L)</b>												
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-22D 67-72 01/05/09	OU2 OU2MW-22I 25-30 01/05/09	OU2 OU2MW-22II 46-51 01/05/09	OU2 OU2MW-22S 5-15 01/05/09	OU2 OU2MW-23D 65-70 12/18/08	OU2 OU2MW-23I 25-30 12/18/08	OU2 OU2MW-23II 45-50 12/18/08	OU2 OU2MW-23S 5-15 12/18/08	OU2 OU2MW-24D 62-67 12/29/08	OU2 OU2MW-24I 25-30 12/30/08	OU2 OU2MW-24II 45-50 12/30/08
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	210 J	10 U	10 U	10 U	1500	10 U	10 UJ	10 U	780 J	10 U
Toluene	5	10 U	1 J	10 U	10 U	10 U	7	10 U	10 U	10 U	12	10 U
Ethylbenzene	5	10 U	47	10 U	10 U	10 U	390	10 U	10 U	10 U	1300	10 U
Xylene, m,p-	5	10 UJ	6 J	10 UJ	10 UJ	10 U	77	10 U	10 U	10 U	300	10 U
Xylene, o-	5	10 U	34	10 U	10 U	10 U	55 J	10 U	10 U	10 U	470 J	10 U
Total BTEX	NE	ND	298	ND	ND	ND	2029	ND	ND	ND	2862	ND
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 U	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	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	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ
Cyclohexane	NE	10 U	4 J	10 U	10 U	10 UJ	17 J	10 U	10 U	10 UJ	8 J	10 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 UJ
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 UJ
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Dichlorodifluoromethane	5	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	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	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 U	10 U	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	10 U	10 U	10 U	10 U	10 U
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	7 J	10 U	10 U	10 UJ	12 J	10 UJ
Isopropyl benzene	5	10 U	16	10 U	10 U	10 U	32	10 UJ	10 UJ	10 U	110	10 UJ
Methyl tert-butyl ether	10*	1 J	10 U	1 J	10 U	10 UJ	10 UJ	5 J	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	150	10 U	10 U	5 J	560	10 U	10 U	10 U	16000	10 UJ
Nonane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Octane, n-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Propylbenzene, n-	5	10 U	10 U	10 U	10 U	10 U	8	10 UJ	10 UJ	10 U	39	10 UJ
Styrene	5	10 U	10 U	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	10 U	10 U	10 U	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 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
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	18	10 U	10 U	10 U	34	10 U	10 U	10 U	660 J	10 U
Trimethylbenzene, 1,2,4-	5	10 U	29	10 U	10 U	10 U	150	10 UJ	10 UJ	10 U	610 J	10 UJ
Trimethylpentane, 2,2,4-	NE	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	10 U	47	10 U	10 U	10 UJ	110 J	10 U	10 UJ	10 U	51	1 J
Acenaphthylene	NE	10 U	35	10 U	10 U	10 U	67	10 U	10 U	10 U	270 J	2 J
Anthracene	50*	10 U	4 J	10 U	10 U	10 U	13	10 U	10 U	10 U	13	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	6	10 U
Fluorene	50*	10 U	6	10 U	10 U	10 U	28	10 U	10 U	10 U	34	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	560	10 U
Naphthalene	10*	10 U	63	10 U	10 U	10 UJ	150 J	10 U	10 UJ	10 U	5000	1 J
Phenanthrene	50*	10 U	24	10 U	10 U	10 U	61	10 U	10 U	10 U	75	10 U
Pyrene	50*	10 U	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	6	10 U
Total Non-carcinogenic PAHs	NE	ND	181	ND	ND	ND	429	ND	ND	ND	6015	4
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-22D 67-72 01/05/09	OU2 OU2MW-22I 25-30 01/05/09	OU2 OU2MW-22II 46-51 01/05/09	OU2 OU2MW-22S 5-15 01/05/09	OU2 OU2MW-23D 65-70 12/18/08	OU2 OU2MW-23I 25-30 12/18/08	OU2 OU2MW-23II 45-50 12/18/08	OU2 OU2MW-23S 5-15 12/18/08	OU2 OU2MW-24D 62-67 12/29/08	OU2 OU2MW-24I 25-30 12/30/08	OU2 OU2MW-24II 45-50 12/30/08
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	ND	181	ND	ND	ND	429	ND	ND	ND	6015	4
<b>Total Metals (ug/L)</b>												
Aluminum	NE	101 UJ	59.5 UJ	35.6 UJ	46.0 UJ	46.5 UJ	23.7 UJ	40.2 UJ	153 UJ	107 UJ	28.9 UJ	44.5 UJ
Arsenic	25	1.8 U	2.5 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.4 UJ	2.3 UJ	1.8 U
Barium	1000	30.0 J	38.5 J	119 J	14.1 J	28.8 J	35.9 J	39.1 J	8.4 J	11.0 J	54.7 J	78.7 J
Cadmium	5	0.35 U	0.35 U	0.54 J	0.35 U	0.38 UJ	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.6 J
Calcium	NE	24200	49500	21700	48200	12100	44400	14700	7950	5750	35800	15200
Chromium	50	1.4 UJ	0.90 UJ	0.50 UJ	0.81 UJ	1.1 UJ	0.52 UJ	0.85 UJ	0.79 UJ	0.89 UJ	0.58 UJ	0.69 UJ
Cobalt	NE	0.88 U	4.7 J	7.5 J	4.7 J	2.6 J	2.0 J	2.8 J	0.93 J	1.9 J	11.4 J	24.9 J
Copper	200	0.65 UJ	0.65 UJ	0.65 UJ	2.3 J	0.65 UJ	0.65 UJ	0.65 UJ	2.1 J	2.4 J	1.6 J	0.65 UJ
Iron	300	264	7740	19.1 UJ	536	7050	4540	76.3 J	213	7620	31900	808
Lead	25	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	2.5 UJ	2.0 UJ	1.7 UJ	2.4 UJ	1.3 UJ	1.3 UJ	1.3 UJ
Magnesium	35000*	7990	7850	4440 J	6040	3470 J	7560	5040	879 J	2310 J	5130	5760
Manganese	300	323	2510	4870	535	240	1730	1250	24.5	128	1290	321
Nickel	100	1.2 U	1.2 U	2.2 J	1.2 U	5.6 UJ	1.2 U	2.8 UJ	3.4 UJ	1.2 U	1.2 U	6.6 J
Potassium	NE	1730 J	2850 J	6150	2980 J	2960 J	3290 J	3260 J	1050 J	811 J	4080 J	1380 J
Selenium	10	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Silver	50	0.54 U	0.54 U	0.91 J	0.54 U	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ	0.54 U	0.54 U	0.54 U
Sodium	20000	34400	38000	56100	8630	12200	43700	38000	3340 J	7670	61700	27300
Thallium	0.5*	1.9 U	2.3 UJ	2.8 UJ	2.1 UJ	1.9 U	1.9 U	1.9 U	1.9 U	3.6 UJ	6.4 UJ	2.7 UJ
Vanadium	NE	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.91 J	0.81 J	0.74 U
Zinc	2000*	9.4 J	6.2 UJ	3.6 UJ	95.0	27.3	5.0 UJ	7.7 UJ	27.8	13.0 J	8.8 J	17.9 J
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	0.1 U	0.1 U	1.38	0.1 U	0.1 U	0.1 U	0.23 J	0.1 U	0.11	0.1 U	0.1 U
Nitrogen, Nitrate	10000	0.87	0.1 U	6.57	5.74	0.1 U	0.1 U	5.01	0.47	0.1 U	0.1 U	0.20 J
Nitrogen, Total	NE	0.87	0.36	8.62	8.25	0.1 U	0.21	5.01	0.47	0.16	0.43	0.31
Nitrogen, Total Kjeldahl	NE	0.1 U	0.36	2.05	2.51	0.1 U	0.21 J	0.1 U	0.1 UJ	0.16	0.43	0.11
Standard Plate Count	NE	950	720	290	160	690	360	110	200	340	62	320
Sulfate	250000	100	5.99	24.5	22.4	48.4	15.2	22.4	5 U	21.8	7.92	83.7
Total Phosphorous	NE	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-24S 5-15 12/30/08	OU2 OU2MW-25D 70-75 12/18/08	OU2 OU2MW-25I 25-30 12/18/08	OU2 OU2MW-25I2 45-50 12/18/08	OU2 OU2MW-25S 5-15 12/18/08	OU2 OU2MW-26D 60-70 12/15/08	OU2 OU2MW-26I 13-23 12/11/08	OU2 OU2MW-26I2 35-45 12/15/08	OU2 OU2MW-26S 6-11 12/11/08	OU2 OU2MW-28I 28-33 12/30/08	OU2 OU2MW-28I2 40-45 12/30/08
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	10 U	110	10 U	10 U	10 U	14	4 J	10 U	64	2 J
Toluene	5	10 U	10 U	10 U	10 U	10 U	6	3 J	11	10 U	3 J	10 U
Ethylbenzene	5	10 U	10 U	4 J	10 U	10 U	11	170	180	10 U	49	10 U
Xylene, m,p-	5	10 U	10 U	2 J	10 U	10 U	95	18	90	10 U	30	10 U
Xylene, o-	5	10 U	10 U	9 J	10 U	10 U	75	40	62	10 U	23	10 U
Total BTEX	NE	ND	ND	125	ND	ND	187	245	347	ND	169	2
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 UJ	10 U	10 UJ	10 U	10 U	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	10 U	10 UJ	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Cyclohexane	NE	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Dichlorodifluoromethane	5	10 UJ	10 U	10 UJ	10 U	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	10 U	10 U	10 U	1 J
Dichloroethene, 1,1-	0.07	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
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ
Hexane, n-	NE	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ
Isopropyl benzene	5	10 U	10 UJ	10 U	10 UJ	10 UJ	10	99	7	10 U	110 J	3 J
Methyl tert-butyl ether	10*	10 U	10 U	10 UJ	4 J	10 U	10 U	10 U	18	10 U	10 U	84
Naphthalene	10*	10 U	10 U	64	10 U	10 U	2700	540 J	5500	10 U	94 J	5 J
Nonane	NE	10 U	10 UJ	10 U	10 UJ	10 UJ	NA	NA	NA	NA	10 U	10 U
Octane, n-	NE	10 U	10 UJ	10 U	10 UJ	10 UJ	NA	NA	NA	NA	10 U	10 U
Propylbenzene, n-	5	10 UJ	10 UJ	10 U	10 UJ	10 UJ	5	37	14	10 U	16 J	10 UJ
Styrene	5	10 U	10 U	10 U	10 U	10 U	59	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	3 J	10 UJ	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U	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	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	2 J	10 U	10 U	33	11	84	10 U	3 J	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 UJ	3 J	10 UJ	10 UJ	74	200	370	10 U	290 J	10 UJ
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	17 J
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	10 U	10 U	39 J	10 UJ	10 UJ	28 J	32	23 J	10 U	44	1 J
Acenaphthylene	NE	10 U	10 U	37	10 U	10 U	45	9	330	10 U	2 J	15
Anthracene	50*	10 U	10 U	3 J	10 U	10 U	10 U	4 J	12	10 U	6	10 U
Fluoranthene	50*	10 U	10 U	1 J	10 U	10 U	10 U	10 U	4 J	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	8	10 U	10 U	13	8	10	10 U	15	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	78	8	650	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	42 J	10 UJ	10 UJ	1200 J	160	2900 J	10 U	33	10 U
Phenanthrene	50*	10 U	10 U	16	10 U	10 U	5 J	14	58	10 U	32	10 U
Pyrene	50*	10 U	10 U	3 J	10 U	10 U	10 U	10 U	3 J	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	149	ND	ND	1369	235	3990	ND	132	16
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:		OU2 OU2MW-24S 5-15 12/30/08	OU2 OU2MW-25D 70-75 12/18/08	OU2 OU2MW-25I 25-30 12/18/08	OU2 OU2MW-25I2 45-50 12/18/08	OU2 OU2MW-25S 5-15 12/18/08	OU2 OU2MW-26D 60-70 12/15/08	OU2 OU2MW-26I 13-23 12/11/08	OU2 OU2MW-26I2 35-45 12/15/08	OU2 OU2MW-26S 6-11 12/11/08	OU2 OU2MW-28I 28-33 12/30/08	OU2 OU2MW-28I2 40-45 12/30/08
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	ND	ND	149	ND	ND	1369	235	3990	ND	132	16
<b>Total Metals (ug/L)</b>												
Aluminum	NE	34.7 UJ	254	101 UJ	92.6 UJ	73.0 UJ	NA	NA	NA	NA	NA	NA
Arsenic	25	2.0 UJ	1.8 U	2.5 J	1.8 U	1.8 U	NA	NA	NA	NA	NA	NA
Barium	1000	7.4 J	22.6 J	42.8 J	143 J	39.4 J	NA	NA	NA	NA	NA	NA
Cadmium	5	0.35 U	0.35 U	0.35 U	0.79 UJ	0.35 U	NA	NA	NA	NA	NA	NA
Calcium	NE	24100	12900	46600	21200	56100	NA	NA	NA	NA	NA	NA
Chromium	50	0.71 UJ	1.6 UJ	0.61 UJ	1.0 UJ	0.45 UJ	NA	NA	NA	NA	NA	NA
Cobalt	NE	4.2 J	1.9 J	6.1 J	8.0 J	0.88 U	NA	NA	NA	NA	NA	NA
Copper	200	1.3 J	0.65 UJ	1.1 J	0.65 UJ	3.7 J	NA	NA	NA	NA	NA	NA
Iron	300	612	11700	14500	123	29.4 UJ	NA	NA	NA	NA	NA	NA
Lead	25	1.3 UJ	2.6 UJ	1.9 UJ	2.4 UJ	2.2 UJ	NA	NA	NA	NA	NA	NA
Magnesium	35000*	2850 J	5090	7230	4280 J	6780	NA	NA	NA	NA	NA	NA
Manganese	300	673	801	1410	5080	34.5	NA	NA	NA	NA	NA	NA
Nickel	100	1.2 U	2.6 UJ	1.2 U	4.4 UJ	1.5 UJ	NA	NA	NA	NA	NA	NA
Potassium	NE	1490 J	1130 J	3200 J	6080	5180	NA	NA	NA	NA	NA	NA
Selenium	10	1.9 U	1.9 U	1.9 U	1.9 U	2.8 J	NA	NA	NA	NA	NA	NA
Silver	50	0.54 U	0.54 UJ	0.54 UJ	0.61 J	0.54 UJ	NA	NA	NA	NA	NA	NA
Sodium	20000	8400	17900	35500	45000	59500	NA	NA	NA	NA	NA	NA
Thallium	0.5*	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	NA	NA	NA	NA	NA	NA
Vanadium	NE	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	NA	NA	NA	NA	NA	NA
Zinc	2000*	23.8	10.8 UJ	11.0 UJ	44.4	51.4	NA	NA	NA	NA	NA	NA
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	0.1 U	0.1 U	0.32 J	2.08 J	0.1 U	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	0.80 J	0.1 U	0.1 U	3.59	2.00	NA	NA	NA	NA	NA	NA
Nitrogen, Total	NE	1.15	0.1 U	0.59	6.18	3.37	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	0.35	0.1 U	0.59 J	2.59 J	1.37 J	NA	NA	NA	NA	NA	NA
Standard Plate Count	NE	48	1600	5000	140	120	NA	NA	NA	NA	NA	NA
Sulfate	250000	10.6	82.5	8.97	23.0	30.1	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-28S 5-15 12/30/08	OU2 OU2MW-29D 45-50 12/30/08	OU2 OU2MW-29I 18-23 12/30/08	OU2 OU2MW-29I2 30-35 12/30/08	OU2 OU2MW-30D 50-55 12/29/08	OU2 OU2MW-30D2 60-65 12/29/08	OU2 OU2MW-30I 25-30 12/29/08	OU2 OU2MW-30I2 30-35 12/29/08	OU2 OU2MW-30I3 45-50 12/29/08	OU2 OU2MW-30S 5-15 12/29/08	OU2 OU2MW-31I 18-23 12/29/08
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	9	250 J	2 J	10 U	2 J	44	5 J	11	110	110
Toluene	5	10 U	54	35	2 J	10 U	32	4 J	10 U	2 J	8	17
Ethylbenzene	5	10 U	77	880	110	6	12	23	2 J	19	48	130
Xylene, m,p-	5	10 U	85	210	80	150	190	140	23	160	28	25
Xylene, o-	5	10 U	180	340 J	52	50	170	70	11	55	57	61
Total BTEX	NE	ND	405	1715	246	206	406	281	41	247	251	343
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	3 J	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U
Butanone, 2-	50*	10 U	10 U	10 U	10 U	10 U	20	10 U	10 U	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	24	10 U	2 J	1 J	8	10 U	10 U
Chloromethane	5	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ
Cyclohexane	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ
Dichlorobenzene, 1,2-	3	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Dichlorobenzene, 1,3-	3	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Dichlorobenzene, 1,4-	3	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Dichlorodifluoromethane	5	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Dichloroethane, 1,1-	5	10 U	3 J	10 U	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	1 J	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	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 UJ
Isopropyl benzene	5	10 UJ	37 J	120 J	17	20	24	21	8	16	25	21 J
Methyl tert-butyl ether	10*	10 U	5	4 J	2 J	9	45	21	17	15	10 U	10 U
Naphthalene	10*	10 UJ	3300	810	8900	9000 J	12000	13000	10000	11000	3700 J	750 J
Nonane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Octane, n-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Propylbenzene, n-	5	10 UJ	24 J	34 J	34	27	27	45	27 J	48 J	19 J	10 J
Styrene	5	10 U	63	10 U	21	10 U	110	10 U	6	23	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10	6	4 J	3 J	7	4 J	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U	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	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	68	58	280	300	200	350	220	390 J	140	23
Trimethylbenzene, 1,2,4-	5	10 UJ	44 J	470 J	580	620 J	190	940	610	770	51	120 J
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	10 U	22	290	47	24	21	22	22	21	27	31
Acenaphthylene	NE	10 U	180 J	12	300 J	330 J	260 J	400 J	380 J	340 J	59	70
Anthracene	50*	10 U	6	13	14	9	3 J	13	11	10	10 U	2 J
Fluoranthene	50*	10 U	10 U	3 J	3 J	2 J	10 U	4 J	3 J	2 J	10 U	10 U
Fluorene	50*	10 U	6	56	57	62	6	60	60	56	10 U	25
Methylnaphthalene, 2-	NE	10 U	24 J	110	770	800	260 J	840	840	620	100 J	10 U
Naphthalene	10*	10 U	2200	540	4900	4700	4100	5900	4300	4000	1800	320
Phenanthrene	50*	10 U	36	56	65	62	39	61	52	50	4 J	40
Pyrene	50*	10 U	10 U	3 J	3 J	10 U	10 U	4 J	3 J	2 J	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	2474	1083	6159	5989	4689	7304	5671	5101	1990	488
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-28S 5-15 12/30/08	OU2 OU2MW-29D 45-50 12/30/08	OU2 OU2MW-29I 18-23 12/30/08	OU2 OU2MW-29I2 30-35 12/30/08	OU2 OU2MW-30D 50-55 12/29/08	OU2 OU2MW-30D2 60-65 12/29/08	OU2 OU2MW-30I 25-30 12/29/08	OU2 OU2MW-30I2 30-35 12/29/08	OU2 OU2MW-30I3 45-50 12/29/08	OU2 OU2MW-30S 5-15 12/29/08	OU2 OU2MW-31I 18-23 12/29/08
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	ND	2474	1083	6159	5989	4689	7304	5671	5101	1990	488
<b>Total Metals (ug/L)</b>												
Aluminum	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-31I2 30-35 12/29/08	OU2 OU2MW-32D 40-45 12/30/08	OU2 OU2MW-32I 20-25 12/30/08	OU2 OU2MW-32I2 30-35 12/30/08	OU2 OU2MW-32S 5-15 12/30/08	OU2 OU2MW-35D 57-62 01/06/09	OU2 OU2MW-35I 25-30 01/08/09	OU2 OU2MW-35I2 45-50 01/08/09	OU2 OU2MW-35S 5-15 12/30/08	OU2 OU2MW-36D 61-66 12/19/08	OU2 OU2MW-36I 25-30 12/19/08
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	21	490 J	35	10 U	10 U	72	10 U	2 J	10 U	33
Toluene	5	10 U	3 J	7	2 J	10 U	10 U	6	10 U	10 U	10 U	6
Ethylbenzene	5	10 U	22	620	190	10 U	10 U	280 J	10 U	9	10 U	100
Xylene, m,p-	5	10 U	42	78	28	10 UJ	10 UJ	130	10 U	10 U	10 U	56
Xylene, o-	5	10 U	89	160	120	10 U	10 U	190 J	10 U	6	10 U	93 J
Total BTEX	NE	ND	177	1355	375	ND	ND	678	ND	17	ND	288
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	5	10 U	10 UJ	10 U	10 UJ
Bromomethane	5	10 U	10 U	10 U	10 U	10 U	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	3 J	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	10 U	10 U	10 U
Chloromethane	5	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 UJ	5 J	14 J	11 J	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U
Dichlorobenzene, 1,2-	3	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 UJ	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 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	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	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	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
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	6 J	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	7 J	25 J	21 J	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U
Isopropyl benzene	5	10 UJ	26	82	63	10 U	10 U	26 J	10 UJ	3 J	10 UJ	18 J
Methyl tert-butyl ether	10*	2 J	5 J	10 U	3 J	10 U	10 U	10 U	2 J	10 U	10 U	10 U
Naphthalene	10*	10 UJ	3000	7100	7100	10 U	10 U	3500	10 U	12	10 U	1500
Nonane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Octane, n-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ
Propylbenzene, n-	5	10 UJ	8	26	26	10 U	10 U	15 J	10 UJ	10 U	10 UJ	7 J
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	21
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 UJ	10 UJ
Tetrahydrofuran	50*	10 U	10 U	10 U	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	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	85	150	79	10 U	10 U	200	10 U	10 U	10 U	52
Trimethylbenzene, 1,2,4-	5	10 UJ	52	250 J	100	10 U	10 U	290 J	10 U	8	10 UJ	100 J
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	2 J	21	77	85 J	10 U	10 U	41	10 U	2 J	10 U	17
Acenaphthylene	NE	2 J	68	5	48	10 U	10 U	240 J	10 U	1 J	10 U	130
Anthracene	50*	10 U	3 J	5	8	10 U	10 U	18	10 U	10 U	10 U	6
Fluoranthene	50*	10 U	10 U	1 J	3 J	10 U	10 U	6	10 U	10 U	10 U	4 J
Fluorene	50*	10 U	5	29	14	10 U	10 U	19	10 U	10 U	10 U	4 J
Methylnaphthalene, 2-	NE	10 U	26	210 J	52 J	10 U	10 U	64	10 U	10 U	10 U	16
Naphthalene	10*	2 J	1200	3600	3200	10 U	4 J	1800	10 U	10 U	10 U	1100
Phenanthrene	50*	10 U	12	43	46	10 U	10 U	77	10 U	10 U	10 U	21
Pyrene	50*	10 U	1 J	10 U	3 J	10 U	10 U	5	10 U	10 U	10 U	4 J
Total Non-carcinogenic PAHs	NE	6	1336	3970	3459	ND	4	2270	ND	3	ND	1302
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:		OU2 OU2MW-31I2 30-35 12/29/08	OU2 OU2MW-32D 40-45 12/30/08	OU2 OU2MW-32I 20-25 12/30/08	OU2 OU2MW-32I2 30-35 12/30/08	OU2 OU2MW-32S 5-15 12/30/08	OU2 OU2MW-35D 57-62 01/06/09	OU2 OU2MW-35I 25-30 01/08/09	OU2 OU2MW-35I2 45-50 01/08/09	OU2 OU2MW-35S 5-15 12/30/08	OU2 OU2MW-36D 61-66 12/19/08	OU2 OU2MW-36I 25-30 12/19/08
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	6	1336	3970	3459	ND	4	2270	ND	3	ND	1302
<b>Total Metals (ug/L)</b>												
Aluminum	NE	NA	NA	NA	NA	NA	81.6 UJ	31.9 UJ	91.2 UJ	49.4 UJ	57.0 UJ	30.1 UJ
Arsenic	25	NA	NA	NA	NA	NA	3.3 UJ	3.7 UJ	1.8 U	2.5 UJ	6.8 J	1.8 U
Barium	1000	NA	NA	NA	NA	NA	52.6 J	27.4 J	44.5 J	9.4 J	15.6 J	41.7 J
Cadmium	5	NA	NA	NA	NA	NA	0.35 U	0.35 U	0.57 J	0.35 U	0.35 U	0.35 U
Calcium	NE	NA	NA	NA	NA	NA	21900	51700	17600	30200	7390	22900
Chromium	50	NA	NA	NA	NA	NA	1.2 UJ	0.79 J	1.0 J	0.65 UJ	0.52 UJ	0.51 UJ
Cobalt	NE	NA	NA	NA	NA	NA	3.8 J	7.0 J	23.3 J	1.5 J	1.3 J	3.8 J
Copper	200	NA	NA	NA	NA	NA	0.66 J	2.4 J	1.2 J	1.4 J	0.65 UJ	0.65 UJ
Iron	300	NA	NA	NA	NA	NA	19000	11400	197	1190	11800	3630
Lead	25	NA	NA	NA	NA	NA	1.3 UJ	1.3 U	1.7 J	1.3 UJ	2.4 UJ	3.3 U
Magnesium	35000*	NA	NA	NA	NA	NA	8420	14100	6590	3940 J	2890 J	4180 J
Manganese	300	NA	NA	NA	NA	NA	903	1730	1170	53.2	246	5850
Nickel	100	NA	NA	NA	NA	NA	2.9 J	4.1 J	8.7 J	1.2 U	2.4 UJ	1.7 UJ
Potassium	NE	NA	NA	NA	NA	NA	1800 J	4610 J	1960 J	1470 J	847 J	3480 J
Selenium	10	NA	NA	NA	NA	NA	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Silver	50	NA	NA	NA	NA	NA	0.54 U	1.1 J	0.59 J	0.54 U	0.54 UJ	0.94 J
Sodium	20000	NA	NA	NA	NA	NA	41800	40200	29900	12400	8010	60200
Thallium	0.5*	NA	NA	NA	NA	NA	4.6 UJ	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
Vanadium	NE	NA	NA	NA	NA	NA	0.74 U	0.87 J	0.74 U	0.82 J	0.74 U	0.74 U
Zinc	2000*	NA	NA	NA	NA	NA	17.5 J	69.5 J	69.0 J	32.4	9.3 UJ	1.5 U
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	NA	NA	NA	NA	NA	0.1 U	0.36	0.1 U	0.1 U	0.1 U	0.1 U
Nitrogen, Nitrate	10000	NA	NA	NA	NA	NA	0.1 UJ	0.1 U	0.43	0.85	0.1 U	0.19
Nitrogen, Total	NE	NA	NA	NA	NA	NA	0.10	0.99	0.59	1.36	0.1 U	0.19
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA	NA	0.10 J	0.99	0.16	0.51	0.1 UJ	0.1 UJ
Standard Plate Count	NE	NA	NA	NA	NA	NA	1100	220	1100	140	4000	120
Sulfate	250000	NA	NA	NA	NA	NA	192	16.4	42.4	25.9	29.7	23.9
Total Phosphorous	NE	NA	NA	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U



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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-36I2 45-50 12/19/08	OU2 OU2MW-36S 5-15 12/29/08	OU2 OU2MW-37D 67-72 01/08/09	OU2 OU2MW-37I 25-30 01/08/09	OU2 OU2MW-37I2 45-50 01/08/09	OU2 OU2MW-37S 5-15 01/08/09	OU2 OU2MW-38D 56-61 01/05/09	OU2 OU2MW-38I 25-30 01/06/09	OU2 OU2MW-38I2 46-51 01/06/09	OU2 OU2MW-38S 5-15 01/06/09	OU2 OU2MW-39D 70-75 01/09/09
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	10 U	10 U	72	10 U	10 U	10 U	2500	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	21	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U	2 J	10 U	10 U	10 U	940	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U	4 J	10 U	10 U	10 UJ	260	10 UJ	10 UJ	10 U
Xylene, o-	5	10 U	10 U	10 U	9	10 U	10 U	10 U	280	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND	87	ND	ND	ND	4001	ND	ND	ND
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	6 J	10 U	10 U	9
Bromomethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butanone, 2-	50*	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	1 J
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 U	9 J	10 U	10 U	10 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	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-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	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	10 U	10 U
Dichloroethene, 1,1-	0.07	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
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ	9 J	10 UJ	10 UJ	10 UJ
Isopropyl benzene	5	10 U	10 U	10 UJ	13	10 UJ	10 UJ	10 U	26	10 U	10 U	10 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	6	10 U	10 U	10 U	5 J	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U	91	10 U	10 U	10 U	3600	10 U	10 U	10 U
Nonane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Octane, n-	NE	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U
Propylbenzene, n-	5	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	8	10 U	10 U	10 U
Styrene	5	10 U	10 U	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	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	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
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U	5	10 U	10 U	10 U	140	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 UJ	16	10 UJ	10 UJ	10 U	160	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 U	10 U	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	10 U	10 U	10 U	2 J	10 U	10 U	10 U	52	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	12	10 U	10 U	10 U	350	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	12	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3 J	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	63	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	240 J	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U	29	10 U	10 U	10 U	2200	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	67	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	43	ND	ND	ND	2992	ND	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:		OU2 OU2MW-36I2 45-50 12/19/08	OU2 OU2MW-36S 5-15 12/29/08	OU2 OU2MW-37D 67-72 01/08/09	OU2 OU2MW-37I 25-30 01/08/09	OU2 OU2MW-37I2 45-50 01/08/09	OU2 OU2MW-37S 5-15 01/08/09	OU2 OU2MW-38D 56-61 01/05/09	OU2 OU2MW-38I 25-30 01/06/09	OU2 OU2MW-38I2 46-51 01/06/09	OU2 OU2MW-38S 5-15 01/06/09	OU2 OU2MW-39D 70-75 01/09/09
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	ND	ND	ND	43	ND	ND	ND	2992	ND	ND	ND
<b>Total Metals (ug/L)</b>												
Aluminum	NE	40.1 UJ	40.5 UJ	131 UJ	38.5 UJ	40.0 UJ	20.0 UJ	71.9 UJ	48.2 UJ	50.4 UJ	46.4 UJ	1510
Arsenic	25	1.8 U	2.1 UJ	2.9 UJ	1.8 U	1.8 U	2.0 UJ	2.1 UJ	2.1 UJ	1.8 U	2.1 UJ	2.1 UJ
Barium	1000	21.2 J	10.6 J	67.3 J	38.4 J	100 J	9.0 J	62.7 J	36.5 J	34.8 J	11.0 J	30.6 J
Cadmium	5	0.89 UJ	0.39 J	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Calcium	NE	11100	30300	41100	31500	12400	39900	20500	41000	16000	42900	17200
Chromium	50	0.93 UJ	0.73 UJ	2.0 J	0.54 J	0.74 J	0.79 J	1.7 UJ	0.69 UJ	0.41 U	0.42 UJ	3.8 J
Cobalt	NE	27.2 J	0.88 U	1.4 J	0.88 U	3.7 J	1.5 J	2.2 J	2.2 J	0.88 U	1.2 J	0.88 U
Copper	200	0.65 UJ	2.3 J	2.7 J	1.8 J	1.2 J	3.3 J	0.65 UJ	0.65 UJ	0.65 UJ	1.9 J	5.3 J
Iron	300	133	33.1 UJ	22200	262	49.4 UJ	86.0 J	10600	5130	56.8 J	144	4900
Lead	25	2.0 UJ	1.3 UJ	1.3 U	1.3 U	1.4 J	1.3 U	1.3 UJ	1.3 UJ	1.3 UJ	1.3 UJ	21.4
Magnesium	35000*	3940 J	3650 J	14900	4990 J	3760 J	5020	7700	6560	6680	6810	3120 J
Manganese	300	732	2.3 J	773	936	1580	1750	276	2820	565	176	143
Nickel	100	6.2 J	1.2 U	1.2 U	1.2 U	3.0 J	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	4.3 J
Potassium	NE	1080 J	1630 J	3220 J	3010 J	4660 J	2470 J	1860 J	4310 J	2850 J	2010 J	2860 J
Selenium	10	1.9 U	2.0 UJ	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.1 UJ	1.9 U	3.6 UJ	2.5 J
Silver	50	0.54 UJ	0.54 U	0.89 J	0.60 J	0.66 J	0.74 J	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
Sodium	20000	17600	10800	108000	70800	53500	21200	52600	48500	26700	7970	10400
Thallium	0.5*	1.9 U	2.7 UJ	2.8 J	2.3 J	1.9 U	1.9 U	2.6 UJ	3.3 UJ	2.0 UJ	2.6 UJ	1.9 U
Vanadium	NE	0.74 U	0.81 J	1.1 J	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.74 U	0.79 J	3.8 J
Zinc	2000*	11.4 UJ	14.0 J	83.8 E	70.3 J	46.8 J	92.2 J	11.0 J	4.0 UJ	8.0 UJ	15.9 J	143 J
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	0.1 U	0.1 U	0.1 U	0.1 U	0.97	0.1 U	0.1 U	0.1 U	0.21	0.1 U	0.1 U
Nitrogen, Nitrate	10000	0.1 U	1.10	0.1 U	0.18	3.91	1.26	0.1 U	0.1 U	2.88	0.92	0.1 U
Nitrogen, Total	NE	0.1 U	1.38	0.1 U	0.18	4.73	2.33	0.1 U	0.40	3.18	0.92	1.53
Nitrogen, Total Kjeldahl	NE	0.1 UJ	0.28	0.1 U	0.1 U	0.82	1.07	0.1 U	0.40	0.30 J	0.1 U	1.53
Standard Plate Count	NE	100	62	2700	230	1700	130	230	280	240	120	20000
Sulfate	250000	56.4	18.0	396	20.3	27.0	14.2	195	18.7	31.9	23.4	26.1
Total Phosphorous	NE	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-391 25-30 01/09/09	OU2 OU2MW-3912 45-50 01/09/09	OU2 OU2MW-39S 5-15 01/09/09	OU2 OU2MW-401 18-23 12/29/08	OU2 OU2MW-40S 5-15 12/29/08	OU2 OU2MW-411 18-23 12/08/08	OU2 OU2MW-411 18-23 12/29/08	OU2 OU2MW-41S 5-15 12/08/08	OU2 OU2MW-41S 5-15 12/29/08	OU2 OU2MW-45D 55-60 01/06/09	OU2 OU2MW-45I 20-25 01/05/09
<b>BTEX (ug/L)</b>												
Benzene	1	10 U	10 U	10 U	33	10 U	700	760 J	4 J	51	10 U	1 J
Toluene	5	10 U	10 U	10 U	10 U	10 U	23	25	10 U	1 J	10 U	10 U
Ethylbenzene	5	10 U	1 J	10 U	25	10 U	430	480 J	10 U	13	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U	10 U	10 U	130	140	10 U	8 J	10 U	10 UJ
Xylene, o-	5	10 U	10 U	10 U	3 J	10 U	190	220 J	1 J	19	10 U	2 J
Total BTEX	NE	ND	1	ND	61	ND	1473	1625	5	92	ND	3
<b>Other VOCs (ug/L)</b>												
Acetone	50*	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Bromomethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Butanone, 2-	50*	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 UJ	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U
Cyclohexane	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U	10 U	10 UJ	10 U	2 J	10 U	10 UJ	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U
Dichlorodifluoromethane	5	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	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	10 U	10 U
Dichloroethene, 1,1-	0.07	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
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Isopropyl benzene	5	10 U	10 U	10 U	8	10 UJ	26	29	10 U	7 J	10 U	10 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U	1 J	10 U	1 J	2 J	10 UJ	10 U	80	10 U
Naphthalene	10*	10	5	10 U	8	10 UJ	5100	6700 J	10 U	300 J	10 U	2 J
Nonane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Octane, n-	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Propylbenzene, n-	5	10 U	10 U	10 U	3 J	10 UJ	33	36 J	10 U	3 J	10 U	10 U
Styrene	5	10 U	10 U	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	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	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
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U	3 J	10 U	310	340	10 U	23	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U	30	10 UJ	540	730 J	10 U	26 J	10 U	2 J
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 UJ	10 UJ	10 UJ	12 J	10 U
<b>Non-carcinogenic PAHs (ug/L)</b>												
Acenaphthene	20*	13	10 U	10 U	26	10 U	60	130 J	10 U	9	10 U	4 J
Acenaphthylene	NE	9	10 U	10 U	45	10 U	250	260 J	10 U	4 J	10 U	10 U
Anthracene	50*	2 J	10 U	10 U	2 J	10 U	9	11	10 U	10 U	10 U	4 J
Fluoranthene	50*	2 J	10 U	10 U	10 U	10 U	2 J	3 J	10 U	10 U	10 U	1 J
Fluorene	50*	3 J	10 U	10 U	15	10 U	47	54	10 U	10 U	10 U	5
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U	10 U	470	360 J	10 U	10 U	10 U	10 U
Naphthalene	10*	1 J	1 J	10 U	3 J	10 U	2900	3400	10 U	130	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	31	10 U	45	56	10 U	10 U	10 U	16
Pyrene	50*	2 J	10 U	10 U	10 U	10 U	2 J	2 J	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	32	1	ND	122	ND	3785	4276	ND	143	ND	30
<b>Carcinogenic PAHs (ug/L)</b>												

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: Well ID: Screened Interval (feet): Date Sampled:		OU2 OU2MW-391 25-30 01/09/09	OU2 OU2MW-3912 45-50 01/09/09	OU2 OU2MW-39S 5-15 01/09/09	OU2 OU2MW-401 18-23 12/29/08	OU2 OU2MW-40S 5-15 12/29/08	OU2 OU2MW-411 18-23 12/08/08	OU2 OU2MW-411 18-23 12/29/08	OU2 OU2MW-41S 5-15 12/08/08	OU2 OU2MW-41S 5-15 12/29/08	OU2 OU2MW-45D 55-60 01/06/09	OU2 OU2MW-45I 20-25 01/05/09
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>												
Total PAHs	NE	32	1	ND	122	ND	3785	4276	ND	143	ND	30
<b>Total Metals (ug/L)</b>												
Aluminum	NE	40.0 UJ	68.5 UJ	191 UJ	NA	NA	NA	NA	NA	NA	112 UJ	28.1 UJ
Arsenic	25	3.1 UJ	1.8 U	2.5 UJ	NA	NA	NA	NA	NA	NA	1.8 U	9.1 J
Barium	1000	47.8 J	55.6 J	19.9 J	NA	NA	NA	NA	NA	NA	30.3 J	22.5 J
Cadmium	5	0.35 U	0.35 U	0.35 U	NA	NA	NA	NA	NA	NA	0.42 J	0.97 J
Calcium	NE	29400	22200	11100	NA	NA	NA	NA	NA	NA	17500	28000
Chromium	50	0.41 U	0.95 J	1.0 J	NA	NA	NA	NA	NA	NA	0.54 J	0.75 J
Cobalt	NE	2.6 J	2.0 J	0.88 U	NA	NA	NA	NA	NA	NA	4.4 J	0.97 J
Copper	200	1.8 J	2.1 J	2.6 J	NA	NA	NA	NA	NA	NA	1.2 J	2.5 J
Iron	300	8020	5330	4200	NA	NA	NA	NA	NA	NA	139	22300
Lead	25	1.3 U	1.3 U	5.1	NA	NA	NA	NA	NA	NA	1.3 U	1.3 U
Magnesium	35000*	4570 J	7840	2830 J	NA	NA	NA	NA	NA	NA	3890 J	4480 J
Manganese	300	2000	490	125	NA	NA	NA	NA	NA	NA	11500	584
Nickel	100	1.2 U	1.4 J	8.9 J	NA	NA	NA	NA	NA	NA	1.5 J	1.2 U
Potassium	NE	4690 J	1740 J	1520 J	NA	NA	NA	NA	NA	NA	2960 J	3370 J
Selenium	10	1.9 U	1.9 U	1.9 U	NA	NA	NA	NA	NA	NA	1.9 U	2.9 UJ
Silver	50	1.0 J	0.54 U	0.54 U	NA	NA	NA	NA	NA	NA	2.2 J	0.54 U
Sodium	20000	65500	42200	9030	NA	NA	NA	NA	NA	NA	39700	49800
Thallium	0.5*	1.9 U	1.9 U	1.9 U	NA	NA	NA	NA	NA	NA	1.9 U	1.9 U
Vanadium	NE	0.82 J	0.74 U	0.87 J	NA	NA	NA	NA	NA	NA	0.74 U	1.1 J
Zinc	2000*	71.4 J	65.7 J	83.8 J	NA	NA	NA	NA	NA	NA	1.5 U	4.6 J
<b>Other (mg/L)</b>												
Nitrogen, Ammonia	2000	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	0.1 U	0.12
Nitrogen, Nitrate	10000	0.1 U	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	2.94 J	0.1 U
Nitrogen, Total	NE	0.20	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	3.63	0.32
Nitrogen, Total Kjeldahl	NE	0.20	0.1 U	0.1 U	NA	NA	NA	NA	NA	NA	0.69 J	0.32
Standard Plate Count	NE	4200	1200	23000	NA	NA	NA	NA	NA	NA	2800	20
Sulfate	250000	20.9	26.9	25.6	NA	NA	NA	NA	NA	NA	25.5	20.0
Total Phosphorous	NE	0.05 U	0.05 U	0.05 U	NA	NA	NA	NA	NA	NA	0.05 U	0.05 U

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-4512 40-45 01/06/09	OU2 OU2MW-45S 5-15 01/05/09	OU2 OU2MW-46I 20-25 01/08/09	OU2 OU2MW-46I2 40-45 01/08/09	OU2 OU2MW-46S 5-15 01/08/09	OU2 OU2MW-47D 60-65 01/06/09	OU2 OU2MW-47I 20-25 01/09/09	OU2 OU2MW-47I2 40-45 01/09/09	OU2 OU2MW-47S 5-15 01/09/09
<b>BTEX (ug/L)</b>										
Benzene	1	10 U	10 U	190 J	10 U	24	10 U	74	1 J	11
Toluene	5	10 U	2 J	28	10 U	5	3 J	8	8	1 J
Ethylbenzene	5	10 U	66	760	10 U	230	9	840	80	110
Xylene, m,p-	5	10 U	16 J	370	10 U	22	350	44	150	11
Xylene, o-	5	10 U	24	550	2 J	140	110	73	58	15
Total BTEX	NE	ND	108	1898	2	421	472	1039	297	148
<b>Other VOCs (ug/L)</b>										
Acetone	50*	10 UJ	10 U	4 J	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Bromomethane	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Butanone, 2-	50*	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloromethane	5	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Cyclohexane	NE	10 UJ	10 U	10 UJ	10 U	10 UJ	10 UJ	5	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	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	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U	10 U	1 J	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	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
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U
Isopropyl benzene	5	10 U	18	74	10 UJ	30	28	190 J	60 J	46 J
Methyl tert-butyl ether	10*	20	10 U	10 U	10*	10 U	40	10 U	13	10 U
Naphthalene	10*	10 U	11	4500	6	270	13000	1300	9800	200
Nonane	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Octane, n-	NE	10 U	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 UJ	10 UJ
Propylbenzene, n-	5	10 U	6	29	10 UJ	10	50	67 J	55 J	16 J
Styrene	5	10 U	10 U	10 U	10 U	10 U	10 U	10 U	22	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U	10 U	3 J	10 U	12	10 U
Tetrahydrofuran	50*	10 U	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	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	370	10 U	47	350	15	360	5
Trimethylbenzene, 1,2,4-	5	10 U	43	680 J	2 J	160	910 J	430 J	730	80 J
Trimethylpentane, 2,2,4-	NE	25 J	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>										
Acenaphthene	20*	3 J	2 J	26	10 U	10 U	22	100	39	12
Acenaphthylene	NE	34	10 U	290	10 U	10 U	300 J	5	320 J	10 U
Anthracene	50*	10 U	10 U	12	10 U	10 U	10 U	16	15	1 J
Fluoranthene	50*	10 U	10 U	4 J	10 U	10 U	2 J	5	5	10 U
Fluorene	50*	1 J	10 U	33	10 U	10 U	58	47	54	4 J
Methylnaphthalene, 2-	NE	10 U	10 U	170 J	10 U	10 U	1100	47	840	2 J
Naphthalene	10*	1 J	10 U	1900	10 U	10 U	5900	450	4800	35
Phenanthrene	50*	10 U	10 U	65	10 U	10 U	53	110	68	2 J
Pyrene	50*	10 U	10 U	3 J	10 U	10 U	2 J	5	5	10 U
Total Non-carcinogenic PAHs	NE	39	2	2503	ND	ND	7437	785	6146	56
<b>Carcinogenic PAHs (ug/L)</b>										

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU2 OU2MW-45I2 40-45 01/06/09	OU2 OU2MW-45S 5-15 01/05/09	OU2 OU2MW-46I 20-25 01/08/09	OU2 OU2MW-46I2 40-45 01/08/09	OU2 OU2MW-46S 5-15 01/08/09	OU2 OU2MW-47D 60-65 01/06/09	OU2 OU2MW-47I 20-25 01/09/09	OU2 OU2MW-47I2 40-45 01/09/09	OU2 OU2MW-47S 5-15 01/09/09
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>										
Total PAHs	NE	39	2	2503	ND	ND	7437	785	6146	56
<b>Total Metals (ug/L)</b>										
Aluminum	NE	88.6 UJ	83.4 UJ	28.5 UJ	12.9 UJ	20.4 UJ	65.5 UJ	21.1 UJ	15.0 UJ	25.9 UJ
Arsenic	25	1.8 U	2.2 J	7.0 J	1.8 U	1.8 U	1.8 U	10.4	1.8 U	3.0 J
Barium	1000	47.3 J	7.0 J	28.3 J	25.3 J	21.7 J	26.1 J	50.4 J	73.0 J	20.2 J
Cadmium	5	0.35 U	0.37 J	0.36 J	0.35 U	0.54 J	0.76 J	0.48 J	0.46 J	0.35 U
Calcium	NE	19000	18400	60600	10800	42500	18200	36400	24200	24000
Chromium	50	0.60 J	0.46 J	0.41 U	0.41 U	0.44 J	1.2 J	0.41 U	1.1 J	0.41 U
Cobalt	NE	0.90 J	1.3 J	5.6 J	2.2 J	10.7 J	1.1 J	0.97 J	1.9 J	1.0 J
Copper	200	1.5 J	4.6 J	2.2 J	0.88 J	3.5 J	0.77 J	2.4 J	1.5 J	2.6 J
Iron	300	125	12300	18500	24.5 UJ	9000	429	25700	133	14800
Lead	25	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
Magnesium	35000*	3610 J	2680 J	8800	2030 J	6510	7560	5350	4600 J	4030 J
Manganese	300	9860	107	1260	4890	1520	3310	545	22700	143
Nickel	100	1.2 U	1.2 U	13.9 J	1.2 U	1.6 J	3.8 J	1.2 U	10.8 J	1.2 U
Potassium	NE	2960 J	1450 J	4730 J	2540 J	4910 J	1880 J	3660 J	4110 J	1720 J
Selenium	10	2.4 UJ	1.9 U	1.9 U	2.3 UJ	2.4 UJ	1.9 U	1.9 U	4.2 UJ	2.5 UJ
Silver	50	2.0 J	0.54 U	0.54 U	0.76 J	0.54 U	0.77 J	0.54 U	4.1 J	0.54 U
Sodium	20000	50200	14400	42300	52400	62000	38600	79100	63500	33200
Thallium	0.5*	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U	2.1 UJ	2.8 UJ	1.9 U
Vanadium	NE	0.74 U	1.9 J	1.1 J	0.74 U	1.1 J	0.74 U	0.86 J	0.74 U	3.1 J
Zinc	2000*	20.5	33.9	8.0 J	1.5 U	9.6 J	4.2 J	32.2	1.5 U	21.9
<b>Other (mg/L)</b>										
Nitrogen, Ammonia	2000	0.1 U	0.1 U	0.75	0.11	0.14	0.1 U	0.53	0.17	0.1 U
Nitrogen, Nitrate	10000	0.59 J	0.41	0.1 U	0.29	0.66	0.1 UJ	0.1 U	0.1 U	0.35
Nitrogen, Total	NE	0.75	1.00	1.71	0.44	1.36	0.1 U	0.93	0.26	0.35
Nitrogen, Total Kjeldahl	NE	0.16 J	0.59	1.71	0.15	0.70	0.1 U	0.93	0.26	0.1 U
Standard Plate Count	NE	240	86	110	32	18	640	4	24	1300
Sulfate	250000	25.7	11.9	37.6	41.9	14.1	33.2	5 U	36.1	13.2
Total Phosphorous	NE	0.05 U	0.790	0.05 U	0.05 U	0.0780	0.05 U	0.05 U	0.05 U	0.05 U

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:**

The October 30, 2008 results for BMW-01 and BMW-23 well clusters represent data that has not been validated.

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 4-2  
 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
<b>pH (st. units)</b>																			
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	--	5.64	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	--	6.07	--	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	--	--	6.19	6.15	5.68	7.38	6.25
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
<b>Temperature (deg C)</b>																			
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	--	9.9	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	--	--	11.6	13.2	16.3	18.0	18.0
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

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
<b>Conductivity (mS/cm)</b>																		
MW-64	--	--	0.393	--	--	--	0.368	--	--	--	--	0.292	--	--	0.226	--	--	--
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	26.000	0.283
MW-73	--	--	0.515	--	0.507	--	--	--	--	--	--	0.936	--	--	0.227	--	--	--
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
MW-76	--	--	0.364	0.376	--	--	--	0.594	--	--	--	--	0.546	--	0.405	--	--	--
MW-78	--	--	0.301	--	--	0.439	--	--	--	--	--	0.274	--	--	0.278	--	--	--
MW-79	--	--	0.500	--	--	0.635	--	--	--	--	--	0.353	--	--	0.335	--	--	--
MW-80	--	--	0.505	--	--	0.390	--	--	--	--	--	0.344	--	--	0.246	--	--	--
MW-81	--	--	0.446	--	--	--	0.373	--	--	--	--	--	--	--	0.196	--	--	--
MW-82	--	--	0.370	--	--	--	--	--	--	--	--	--	0.261	0.221	0.211	0.247	0.271	0.282
MW-83	--	--	0.486	--	--	--	2.340	--	--	--	--	--	0.269	--	0.214	--	--	--
PDMW-01	0.820	0.321	0.456	0.369	0.403	0.425	0.382	0.269	0.221	0.304	0.307	--	0.367	0.273	0.381	0.276	0.283	0.330
SV-02	--	--	--	0.590	--	--	--	0.512	--	--	--	--	--	0.158	--	0.301	--	--
SV-03	0.500	--	--	--	--	--	--	0.785	--	--	--	--	0.466	--	--	0.371	--	--
<b>Dissolved Oxygen (mg/L)</b>																		
MW-64	--	--	0.0	--	--	--	0.0	--	--	--	--	0.0	--	--	0.0	--	--	--
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
MW-73	--	--	0.0	--	0.0	--	--	--	--	--	--	0.0	--	--	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
MW-76	--	--	0.0	0.0	--	--	--	0.0	--	--	--	--	0.0	--	0.0	--	--	--
MW-78	--	--	0.0	--	--	0.0	--	--	--	--	--	0.0	--	--	0.0	--	--	--
MW-79	--	--	0.5	--	--	0.0	--	--	--	--	--	13.5	--	--	4.3	--	--	--
MW-80	--	--	0.0	--	--	0.0	--	--	--	--	--	0.0	--	--	0.0	--	--	--
MW-81	--	--	1.0	--	--	--	0.0	--	--	--	--	--	--	--	0.0	--	--	--
MW-82	--	--	11.9	--	--	--	--	--	--	--	--	--	31.0	22.0	16.4	4.0	10.0	5.0
MW-83	--	--	9.2	--	--	--	11.8	--	--	--	--	--	4.0	--	11.2	--	--	--
PDMW-01	24.0	27.0	20.0	22.0	20.0	32.0	28.0	24.0	31.0	30.0	26.0	--	25.0	13.0	24.0	21.0	27.0	20.0
SV-02	--	--	--	2.5	--	--	--	4.0	--	--	--	--	--	0.1	--	3.8	--	--
SV-03	0.0	--	--	--	--	--	--	0.0	--	--	--	--	0.0	--	--	0.4	--	--
<b>Oxidation Reduction Potential (mV)</b>																		
MW-64	--	--	43	--	--	--	148	--	--	--	--	111	--	--	132	--	--	--
MW-65	41	71	145	146	205	-31	-118	-40	13	95	82	105	22	96	298	43	6	14
MW-73	--	--	-167	--	-194	--	--	--	--	--	--	-169	--	--	-115	--	--	--
MW-75	-185	-10	-53	-103	-22	-219	-233	-321	-182	-224	--	-217	-134	-24	118	-19	-25	-18
MW-76	--	--	-62	-115	--	--	--	-175	--	--	--	--	-199	--	-74	--	--	--
MW-78	--	--	-120	--	--	-289	--	--	--	--	--	-232	--	--	-117	--	--	--
MW-79	--	--	-121	--	--	-196	--	--	--	--	--	-96	--	--	-42	--	--	--
MW-80	--	--	-194	--	--	-233	--	--	--	--	--	-229	--	--	-247	--	--	--
MW-81	--	--	-163	--	--	--	-193	--	--	--	--	--	--	--	-47	--	--	--
MW-82	--	--	-73	--	--	--	--	--	--	--	--	--	-83	110	31	-136	-43	-65
MW-83	--	--	53	--	--	--	-88	--	--	--	--	--	62	--	70	--	--	--
MWBS-02D	--	--	--	--	--	--	--	--	--	-62	--	--	-99	--	--	--	--	-116
MWBS-02I	--	--	-52	--	--	-142	--	--	-167	--	--	--	4	--	--	--	--	-77
MWBS-02S	--	--	-101	--	--	--	--	--	-158	--	--	--	--	--	--	--	-82	--
PDMW-01	154	185	151	202	302	3	-75	87	96	49	139	--	104	133	474	134	41	26
SV-02	--	--	--	63	--	--	--	-33	--	--	--	--	--	99	--	343	--	--
SV-03	-132	--	--	--	--	--	--	-184	--	--	--	--	-201	--	--	132	--	--

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
<b>pH (st. units)</b>																		
MW-64	--	--	6.46	--	--	--	5.74	--	--	--	--	5.95	--	--	5.89	--	--	--
MW-65	5.86	5.80	6.12	5.57	5.46	5.54	5.57	5.71	5.86	5.78	5.50	5.77	5.69	5.62	5.73	6.56	5.73	5.67
MW-73	--	--	6.48	--	5.90	--	--	--	--	--	--	5.69	--	--	7.10	--	--	--
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
MW-76	--	--	6.69	6.21	--	--	--	6.09	--	--	--	--	6.24	--	6.70	--	--	--
MW-78	--	--	7.11	--	--	6.20	--	--	--	--	--	6.49	--	--	7.70	--	--	--
MW-79	--	--	6.35	--	--	5.92	--	--	--	--	--	6.00	--	--	6.56	--	--	--
MW-80	--	--	6.46	--	--	6.07	--	--	--	--	--	6.00	--	--	7.20	--	--	--
MW-81	--	--	6.38	--	--	--	6.00	--	--	--	--	--	--	--	6.33	--	--	--
MW-82	--	--	6.38	--	--	--	--	--	--	--	--	--	5.91	6.16	6.21	7.85	5.78	6.05
MW-83	--	--	6.58	--	--	--	6.20	--	--	--	--	--	5.82	--	5.78	--	--	--
PDMW-01	6.29	6.15	6.69	6.11	6.14	6.26	6.22	6.25	6.40	6.31	6.31	--	6.24	5.85	5.23	5.92	6.18	6.16
SV-02	--	--	--	6.02	--	--	--	6.09	--	--	--	--	--	5.58	--	5.03	--	--
SV-03	6.40	--	--	--	--	--	--	5.67	--	--	--	--	6.06	--	--	5.35	--	--
<b>Temperature (deg C)</b>																		
MW-64	--	--	14.9	--	--	--	13.6	--	--	--	--	14.2	--	--	13.8	--	--	--
MW-65	17.6	14.9	16.1	14.8	12.4	10.7	10.7	13.1	11.8	18.4	18.9	18.4	17.7	17.7	15.5	12.6	10.1	10.9
MW-73	--	--	14.9	--	9.4	--	--	--	--	--	--	18.0	--	--	16.5	--	--	--
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
MW-76	--	--	14.9	11.8	--	--	--	8.8	--	--	--	--	19.7	--	13.2	--	--	--
MW-78	--	--	14.1	--	--	11.4	--	--	--	--	--	14.3	--	--	13.6	--	--	--
MW-79	--	--	15.0	--	--	10.3	--	--	--	--	--	14.8	--	--	14.1	--	--	--
MW-80	--	--	15.6	--	--	11.4	--	--	--	--	--	15.3	--	--	15.5	--	--	--
MW-81	--	--	15.6	--	--	--	11.2	--	--	--	--	--	--	--	13.7	--	--	--
MW-82	--	--	15.3	--	--	--	--	--	--	--	--	--	15.1	14.2	14.0	11.5	10.4	10.2
MW-83	--	--	16.1	--	--	--	11.9	--	--	--	--	--	16.3	--	15.5	--	--	--
PDMW-01	19.1	18.1	17.7	15.6	14.3	11.7	11.5	11.5	11.3	15.1	16.5	--	18.9	18.1	17.2	14.8	12.0	10.8
SV-02	--	--	--	13.1	--	--	--	8.2	--	--	--	--	--	20.3	--	10.0	--	--
SV-03	14.6	--	--	--	--	--	--	8.7	--	--	--	--	18.7	--	--	11.7	--	--

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	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08
<b>Conductivity (mS/cm)</b>										
MW-64	--	--	--	0.250	--	--	--	--	0.289	--
MW-65	0.281	0.263	0.295	0.400	0.800	0.589	0.243	0.328	0.286	0.327
MW-73	--	--	0.337	--	--	0.613	--	--	0.298	--
MW-75	0.211	--	0.164	0.200	0.334	0.311	--	0.257	0.136	0.391
MW-76	--	--	--	0.489	--	0.999	--	--	0.492	--
MW-78	--	--	0.294	--	--	0.713	--	--	--	--
MW-79	--	--	0.300	--	--	--	--	--	0.472	--
MW-80	--	--	--	0.478	--	0.592	--	--	0.249	--
MW-81	--	--	--	0.359	--	0.605	--	--	0.250	--
MW-82	0.300	0.298	0.258	0.279	0.504	0.491	0.179	0.232	0.207	0.281
MW-83	--	--	0.381	--	--	0.672	--	--	0.321	--
PDMW-01	0.286	0.240	0.262	0.316	--	0.490	0.185	0.238	0.238	0.271
SV-02	--	--	--	0.295	--	0.108	--	--	--	0.210
SV-03	--	--	--	0.373	--	--	--	--	0.371	--
<b>Dissolved Oxygen (mg/L)</b>										
MW-64	--	--	--	0.8	--	--	--	--	0.0	--
MW-65	21.0	21.0	13.0	14.0	21.0	35.0	26.0	17.0	0.0	8.0
MW-73	--	--	1.4	--	--	0.0	--	--	0.0	--
MW-75	0.0	--	0.0	0.6	0.0	0.0	--	0.0	6.0	0.0
MW-76	--	--	--	0.5	--	0.0	--	--	0.0	--
MW-78	--	--	6.0	--	--	0.0	--	--	--	--
MW-79	--	--	23.0	--	--	--	--	--	8.0	--
MW-80	--	--	--	0.6	--	0.0	--	--	0.0	--
MW-81	--	--	--	8.5	--	11.2	--	--	0.0	--
MW-82	16.0	27.0	15.0	33.0	23.0	25.0	27.0	18.0	5.0	20.0
MW-83	--	--	4.9	--	--	15.8	--	--	1.5	--
PDMW-01	20.0	31.0	20.0	34.0	--	24.0	0.4	24.0	23.0	22.0
SV-02	--	--	--	0.9	--	1.7	--	--	--	3.9
SV-03	--	--	--	0.5	--	--	--	--	0.0	--
<b>Oxidation Reduction Potential (mV)</b>										
MW-64	--	--	--	87	--	--	--	--	113	--
MW-65	135	188	148	151	188	186	155	165	151	84
MW-73	--	--	-205	--	--	-187	--	--	-170	--
MW-75	-24	--	-158	-190	-33	-152	--	0	95	-127
MW-76	--	--	--	-163	--	-65	--	--	-47	--
MW-78	--	--	60	--	--	-166	--	--	--	--
MW-79	--	--	54	--	--	--	--	--	-34	--
MW-80	--	--	--	-258	--	-314	--	--	-239	--
MW-81	--	--	--	-69	--	-87	--	--	-90	--
MW-82	70	109	16	-24	-23	-53	7	-65	-141	16
MW-83	--	--	138	--	--	4	--	--	13	--
MWBS-02D	--	--	-98	--	--	--	--	--	-99	--
MWBS-02I	--	--	-60	--	--	-21	--	--	-33	--
MWBS-02S	--	--	-101	--	--	--	-90	--	-96	--
PDMW-01	125	173	122	139	--	121	71	121	95	141
SV-02	--	--	--	93	--	154	--	--	--	108
SV-03	--	--	--	-183	--	--	--	--	-93	--

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	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08
<b>pH (st. units)</b>										
MW-64	--	--	--	5.89	--	--	--	--	5.82	--
MW-65	5.57	5.98	5.79	5.60	5.24	5.58	5.51	5.20	5.57	5.99
MW-73	--	--	8.03	--	--	6.01	--	--	6.96	--
MW-75	5.65	--	5.93	7.55	5.51	5.16	--	6.33	6.47	7.90
MW-76	--	--	--	7.10	--	6.20	--	--	6.75	--
MW-78	--	--	6.38	--	--	6.07	--	--	--	--
MW-79	--	--	6.22	--	--	--	--	--	6.31	--
MW-80	--	--	--	7.49	--	5.84	--	--	7.20	--
MW-81	--	--	--	6.96	--	5.78	--	--	6.66	--
MW-82	5.81	6.25	6.06	7.11	5.96	5.92	5.99	6.84	6.59	6.67
MW-83	--	--	6.09	--	--	5.74	--	--	6.34	--
PDMW-01	6.09	6.41	6.23	6.32	--	6.20	5.99	6.11	6.87	5.41
SV-02	--	--	--	6.10	--	5.65	--	--	--	5.62
SV-03	--	--	--	6.73	--	--	--	--	6.33	--
<b>Temperature (deg C)</b>										
MW-64	--	--	--	14.5	--	--	--	--	14.4	--
MW-65	11.5	13.4	14.4	16.5	20.9	20.1	18.1	16.3	15.0	14.7
MW-73	--	--	11.3	--	--	18.7	--	--	15.7	--
MW-75	8.7	--	14.6	18.3	20.7	21.4	--	19.7	11.9	9.1
MW-76	--	--	--	17.4	--	24.7	--	--	14.3	--
MW-78	--	--	12.5	--	--	15.3	--	--	--	--
MW-79	--	--	12.6	--	--	--	--	--	15.0	--
MW-80	--	--	--	13.6	--	17.4	--	--	15.6	--
MW-81	--	--	--	13.9	--	16.9	--	--	12.8	--
MW-82	11.4	12.4	13.7	14.4	15.4	16.4	15.0	15.3	13.9	12.0
MW-83	--	--	14.3	--	--	20.4	--	--	15.1	--
PDMW-01	11.0	12.1	13.9	16.0	--	18.8	18.9	18.5	17.7	14.2
SV-02	--	--	--	19.5	--	22.5	--	--	--	10.6
SV-03	--	--	--	15.2	--	--	--	--	14.1	--

Notes:  
 mS/cm - milli-siemens per centimeter  
 mg/L - milligrams per 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 (feet bgs)	Total Heterotrophic Plate Count (cfu/ml)										
		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 (feet bgs)	Total Heterotrophic Plate Count (cfu/ml)															
		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	Q4 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	290
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	25,000
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	360
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	800
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	680
MW-71/71S	2 - 12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MWBS-02S	5 - 15	250	100	220	340	260	55	45	26	74	16	100	160	280	340	860	650
PDMW-01	5 - 20	110	220	71	810	140	45	240	50	33	22	420	130	38	120	1,000	200
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	3,300

**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 <sup>1</sup> (feet above MSL)	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
BBMW-09S	11/3/2008	9:10	2.00	21.93	7.11	14.82	
BBMW-09I	11/3/2008	9:13	2.00	22.01	7.20	14.81	
BBMW-09D	11/3/2008	9:14	2.00	22.43	7.60	14.83	
BBMW-28S	11/3/2008	11:41	2.00	16.43	2.49	13.94	
BBMW-28I	11/3/2008	11:42	2.00	16.43	2.49	13.94	
BBMW-29	11/3/2008	13:11	0.50	15.82	3.61	12.21	
BBMW-30S	11/3/2008	14:42	2.00	16.02	2.12	13.90	
BBMW-30I	11/3/2008	14:42	2.00	15.69	1.78	13.91	
BBMW-30D	11/3/2008	14:43	2.00	16.53	2.65	13.88	
BBMW-31S	11/3/2008	13:42	2.00	13.49	2.26	11.23	
BBMW-31I	11/3/2008	13:42	2.00	13.33	2.11	11.22	
BBMW-31D	11/3/2008	13:42	2.00	13.37	2.14	11.23	
BBMW-32S	11/3/2008	14:32	2.00	14.44	1.99	12.45	
BBMW-32I	11/3/2008	14:33	2.00	15.50	2.05	13.45	
BBMW-32D	11/3/2008	14:34	2.00	14.54	2.12	12.42	
BBMW-33	11/3/2008	14:01	2.00	16.58	3.05	13.53	
GM-02AS	11/3/2008	13:34	1.25	20.79	9.94	10.85	
GM-02AI	11/3/2008	13:34	1.25	20.75	9.87	10.88	
GM-02AD	11/3/2008	13:35	1.25	20.74	9.70	11.04	
MW-01S	11/3/2008	9:45	4.00	19.34	3.26	16.08	
MW-01D	11/3/2008	9:45	4.00	19.48	3.37	16.11	
MW-02S/SR	11/3/2008	9:22	2.00	21.67	6.7	14.97	
MW-02I/R	11/3/2008	9:23	2.00	21.37	6.53	14.84	
MW-03	11/3/2008	9:40	4.00	19.30	3.81	15.49	
MW-04	11/3/2008	9:37	4.00	19.16	3.89	15.27	
MW-16S/SR	11/3/2008	9:19	2.00	21.80	6.86	14.94	
MW-16I	11/3/2008	9:20	2.00	21.77	6.91	14.86	
MW-29S	11/3/2008	9:51	2.00	18.34	2.58	15.76	
MW-29D	11/3/2008	9:52	2.00	18.44	2.69	15.75	
MW-30WR	11/3/2008	13:07	1.00	14.83	2.03	12.80	
MW-32W/WR	11/3/2008	13:02	0.50	14.65	1.37	13.28	
MW-34S	11/3/2008	13:53	0.75	15.69	2.01	13.68	
MW-34I	11/3/2008	13:53	0.75	15.73	2.07	13.66	
MW-34D	11/3/2008	13:55	1.00	15.58	1.91	13.67	
MW-45W	11/3/2008	14:49	0.75	15.20	1.41	13.79	
MW-64	11/3/2008	11:46	2.00	16.10	1.58	14.52	
MW-65	11/3/2008	11:49	2.00	15.62	1.16	14.46	
MWBS-02S	11/3/2008	13:18	1.00	13.58	2.15	11.43	
MWBS-02I	11/3/2008	13:18	0.75	13.46	2.05	11.41	
MWBS-02D	11/3/2008	13:19	0.75	13.54	2.12	11.42	
BBSW-13*	11/3/2008	13:29	NA	13.07	2.56	10.51	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	2.0 - 10.0	NM	NM	15.2	14.57	15.89	15.37	NM	NM	NM	NM
MW-30WR	2.0 - 10.0	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
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	2.0 - 10.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-30WR	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	May-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	15.44
BBMW-09I	30.0 - 40.0	15.16	14.97	13.8	15.54	15.42	14.92	14.63	15.10	15.02	15.44
BBMW-09D	62.0 - 72.0	15.16	14.99	13.8	15.52	15.42	14.93	14.63	15.11	15.01	15.45
BBMW-28S	2.0 - 12.0	14.31	14.05	12.96	14.45	14.35	13.97	13.65	14.11	14.07	14.36
BBMW-28I	10.0 - 20.0	14.28	14.04	12.94	14.45	14.34	13.96	13.63	14.09	14.06	14.34
BBMW-29	2.0 - 9.0	12.41	12.22	11.28	12.53	12.46	12.17	11.8	12.28	12.25	12.53
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	13.22	13.72	13.59	13.93
GM-02AS	8.91 - 23.91	10.94	10.9	9.94	11.24	11.09	10.83	10.38	10.93	10.94	11.31
GM-02AI	35.24 - 50.24	10.96	10.92	9.96	11.26	11.11	10.85	10.4	10.96	10.94	11.33
GM-02AD	59.8 - 74.8	11.17	11.11	10.06	11.47	11.36	11.05	10.52	11.16	11.20	11.51
MW-01S	4.0 - 14.0	15.77	16.47	16.38	15.08	16.95	16.77	16.28	16.01	16.39	16.37
MW-01D	35.0 - 45.0	15.8	16.46	16.4	15.21	16.87	16.79	16.3	16.07	16.4	16.38
MW-02S/SR	2.0 -12.0	15.29	15.09	NM	NM	NM	NM	14.77	15.23	15.13	15.58
MW-02I/R	22.5 - 23.5	NM	NM	NM	NM	NM	NM	NM	NC	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	16.16
MW-04	5.1 - 15.1	15.55	15.55	14.34	16.13	15.9	15.45	15.19	15.56	15.52	15.73
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	15.92
MW-16I	14.0 - 19.0	15.25	15.13	NM	15.56	15.46	14.98	14.7	15.15	15.07	15.66
MW-29S	5.0 - 10.0	16.17	16.02	14.84	16.53	16.39	15.91	15.69	16.07	16.00	16.41
MW-29D	14.0 - 19.0	16.15	16.01	14.83	16.52	16.38	15.91	15.68	16.06	16.00	16.40
MW-30W	2.0 - 10.0	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW-30WR	2.0 - 10.0	15.3	15.09	14.17	15.4	15.34	15.03	14.69	15.13	15.1	15.4
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	13.64
MW-34S	2.0 - 10.0	14	13.73	12.73	14.12	14.03	13.59	13.35	13.81	13.75	14.07
MW-34I	18.5 - 19.5	13.97	13.72	12.74	14.12	14.01	13.65	13.35	13.80	13.75	14.07
MW-34D	27.5 - 28.5	13.97	13.72	12.75	14.13	14.01	13.66	13.35	14.30	13.76	14.08
MW-45W	2.0 - 10.0	14.13	13.97	12.85	14.26	14.15	13.78	13.49	13.97	13.88	14.22
MW-64	19.0 - 24.0	NM	14.73	13.58	15.09	15.07	14.61	14.24	14.75	14.72	14.99
MW-65	11.0 - 16.0	NM	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	11.65
MWBS-02I	14.5 - 15.5	11.57	11.42	10.55	11.66	11.6	11.39	10.94	11.45	11.45	11.58
MWBS-02D	24.5 - 25.5	11.45	11.44	10.61	11.73	11.6	11.39	10.88	11.47	11.47	11.28

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)								
		July/Aug-07	Oct/Nov-07	January-08	April-08	August-08	November-08	Minimum	Average	Maximum
BBMW-09S	5.0 - 15.0	14.67	13.75	14.72	15.29	14.12	14.82	12.61	14.71	15.55
BBMW-09I	30.0 - 40.0	14.69	13.76	14.72	15.30	14.11	14.81	12.6	14.71	15.54
BBMW-09D	62.0 - 72.0	14.65	13.74	14.72	15.30	14.12	14.83	12.61	14.74	16.37
BBMW-28S	2.0 - 12.0	13.72	12.89	13.74	14.28	13.23	13.94	12.89	13.88	14.45
BBMW-28I	10.0 - 20.0	13.71	12.88	13.73	14.29	13.22	13.94	12.88	13.87	14.45
BBMW-29	2.0 - 9.0	11.87	11.30	12.03	12.45	11.54	12.21	11.28	12.08	12.53
BBMW-30S	2.0 - 10.0	13.68	12.93	13.71	14.22	13.21	13.90	12.93	13.61	14.22
BBMW-30I	14.0 -19.0	13.70	12.92	13.67	14.24	13.21	13.91	12.92	13.61	14.24
BBMW-30D	30.0 - 35.0	13.67	12.91	13.64	14.20	13.16	13.88	12.91	13.58	14.2
BBMW-31S	2.0 - 10.0	10.76	10.51	11.13	11.40	10.46	11.23	10.46	10.92	11.4
BBMW-31I	14.0 -19.0	10.77	10.52	11.12	11.40	10.45	11.22	10.45	10.91	11.4
BBMW-31D	30.0 - 35.0	10.77	10.52	11.12	11.42	10.46	11.23	10.46	10.92	11.42
BBMW-32S	2.0 - 10.0	12.15	11.58	12.29	12.72	11.75	12.45	11.58	12.16	12.72
BBMW-32I	14.0 -19.0	13.16	12.59	13.30	13.72	12.74	13.45	12.59	13.16	13.72
BBMW-32D	30.0 - 35.0	13.09	11.56	12.26	12.69	11.71	12.42	11.56	12.29	13.09
BBMW-33	7.0 - 12.0	13.24	12.56	13.39	13.85	12.78	13.53	12.56	13.38	13.93
GM-02AS	8.91 - 23.91	10.46	10.10	10.73	11.03	10.06	10.85	9.94	10.67	11.86
GM-02AI	35.24 - 50.24	10.48	10.12	10.76	11.04	10.07	10.88	9.96	10.66	11.87
GM-02AD	59.8 - 74.8	10.61	10.26	11.74	11.27	10.18	11.04	10.06	10.90	12.03
MW-01S	4.0 - 14.0	16.79	16.01	15.93	16.59	15.38	16.08	13.64	16.03	17.36
MW-01D	35.0 - 45.0	16.8	16	15.95	16.61	15.41	16.11	13.66	16.04	17.38
MW-02S/SR	2.0 -12.0	14.86	13.87	14.87	15.49	14.23	14.97	13.02	14.95	16.47
MW-02I/R	22.5 - 23.5	NC	13.83	14.56	15.29	14.18	14.84	13.83	15.41	20.02
MW-03	4.94 - 14.94	15.38	14.43	15.39	16.02	14.81	15.49	13.18	15.35	16.77
MW-04	5.1 - 15.1	15.14	14.20	15.07	NC	14.58	15.27	12.98	15.32	19.16
MW-16S/SR	2.0 - 10.0	15.03	13.89	14.81	16.14	14.22	14.94	12.35	14.78	16.47
MW-16I	14.0 - 19.0	14.77	13.84	14.93	15.35	14.22	14.86	12.7	14.92	16.08
MW-29S	5.0 - 10.0	15.67	NM	15.66	16.23	15.10	15.76	13.55	15.79	17.84
MW-29D	14.0 - 19.0	15.66	NM	15.63	16.22	15.08	15.75	13.53	15.76	17.03
MW-30W	2.0 - 10.0	NM	NM	NM	NM	NM	NM	14.57	15.26	15.89
MW-30WR	2.0 - 10.0	14.74	11.83	12.58	13.04	12.07	12.8	11.83	14.23	15.4
MW-32W/WR	2.0 - 10.0	12.99	12.3	13.09	13.56	12.64	13.28	12.3	13.19	13.72
MW-34S	2.0 - 10.0	13.38	NM	13.48	14.00	12.94	13.68	12.73	13.63	14.8
MW-34I	18.5 - 19.5	13.38	NM	13.48	13.98	12.94	13.66	12.74	13.59	14.76
MW-34D	27.5 - 28.5	13.38	NM	13.38	13.98	12.94	13.67	12.75	13.63	14.8
MW-45W	2.0 - 10.0	13.51	12.79	13.56	NC	NC	13.79	12.79	13.71	14.87
MW-64	19.0 - 24.0	14.35	13.49	14.33	14.95	13.84	14.52	13.49	14.53	15.77
MW-65	11.0 - 16.0	NM	NM	NM	14.88	13.75	14.46	13.75	14.32	14.88
MWBS-02S	5 - 15	11.06	10.67	NC	NC	10.61	11.43	10.59	11.21	11.7
MWBS-02I	14.5 - 15.5	10.99	10.63	NC	NC	10.63	11.41	10.55	11.18	11.66
MWBS-02D	24.5 - 25.5	11.05	10.67	NC	NC	10.65	11.42	10.39	11.16	11.73

Note:  
 NM - not measured  
 NC - not calculated  
 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	2.0 - 10.0	--	11,740	--	--	--	--	--	--	--	--	--	--	--	27,200
MW-30WR	2.0 - 10.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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 - 15.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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)

**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 4-8  
 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 IO-10 6-16 11/17/08	OU3 MW-02IR 12-24 11/10/08	OU3 MW-02SR 2-12 11/10/08	OU3 MW-03 4.94-14.94 12/01/08	OU3 MW-04 4.1-15.1 11/12/08	OU3 MW-12W 2-10 11/17/08	OU3 MW-16I 14-19 11/14/08	OU3 MW-16SR 2-10 11/12/08	OU3 MW-26D 14-19 11/18/08	OU3 MW-45W 2-10 11/14/08
<b>BTEX (ug/L)</b>											
Benzene	1	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	480	10 U	47
Toluene	5	10 U	10 U	3 J	10 U	10 UJ	10 U	1 J	4200	10 U	26
Ethylbenzene	5	10 U	10 U	10 U	11	10 UJ	10 U	10 UJ	1100	10 U	35
Xylene, total	5	10 U	10 U	44	10 U	10 UJ	10 U	3 J	8500	10 U	34
Total BTEX	NE	ND	ND	47	11	ND	ND	4	14280	ND	142
<b>Other VOCs (ug/L)</b>											
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U
<b>Non-carcinogenic PAHs (ug/L)</b>											
Acenaphthene	20*	10 U	10 U	10 U	3 J	10 U	10 U	10 10	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	10 U	10 10	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 10	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 10	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	4 J	10 U	10 U	10 10	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	6	10 U	10 U	10 10	4 J	10 U	10 U
Naphthalene	10*	10 UJ	10 U	10 U	12	10 U	10 UJ	10 10	100 J	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	3 J	10 U	10 U	10 10	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 10	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	28	ND	ND	ND	104	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>											
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>											
Total PAHs	NE	ND	ND	ND	28	ND	ND	ND	104	ND	ND
<b>Other (cfu/ml)</b>											
Standard Plate Count	NE	NA	NA	290	NA	NA	NA	NA	25000	NA	NA

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:	OU3 MW-46WR 2-10 11/11/08	OU3 MW-64 19-24 11/17/08	OU3 MW-65 11-16 11/13/08	OU3 MW-73 2-12 11/06/08	OU3 MW-75 2-12 11/25/08	OU3 MW-76 2-12 11/13/08	OU3 MW-78 5-20 11/07/08	OU3 MW-79 5-20 11/13/08	OU3 MW-80 5-20 11/14/08	OU3 MW-81 5-20 11/19/08	
<b>BTEX (ug/L)</b>											
Benzene	1	51	10 U	10 U	2500	1 J	10 U	94	500	7400	110
Toluene	5	320	10 U	10 U	140	150	10 U	28	1100	51000	1600
Ethylbenzene	5	300	10 U	10 U	640	180	10 U	80	150	13000	810
Xylene, total	5	560	10 U	7 J	2100	850	10 U	110	310	19000	2500
Total BTEX	NE	1231	ND	7	5380	1181	ND	312	2060	90400	5020
<b>Other VOCs (ug/L)</b>											
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
<b>Non-carcinogenic PAHs (ug/L)</b>											
Acenaphthene	20*	10 U	10 U	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	2 J	10 U
Anthracene	50*	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
Fluorene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	49 J	3 J
Naphthalene	10*	37	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	650	1 J
Phenanthrene	50*	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
Total Non-carcinogenic PAHs	NE	39	ND	ND	ND	ND	ND	ND	ND	701	4
<b>Carcinogenic PAHs (ug/L)</b>											
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>											
Total PAHs	NE	39	ND	ND	ND	ND	ND	ND	ND	701	4
<b>Other (cfu/ml)</b>											
Standard Plate Count	NE	800	NA	NA	NA	NA	NA	NA	NA	NA	NA

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:	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3	OU3
Well ID:	MW-82	MW-83	MW-BS-02D	MW-BS-02I	PDMW-01	PDMW-02	PDMW-03	SV-03	
Screened Interval (feet):	5-20	5-20	24.5-25.5	14.5-15.5	5-20	5-20	5-15	2-12	
Date Sampled:	AWQS 11/20/08	11/13/08	11/18/08	11/18/08	11/11/08	11/12/08	11/18/08	11/18/08	
<b>BTEX (ug/L)</b>									
Benzene	1	71	15	10 U	10 U	10 U	610 J	13	4 J
Toluene	5	5300	320	10 U	10 U	10 U	34000	4000	10 U
Ethylbenzene	5	4900	410	10 U	10 U	10 U	7200	3900	44
Xylene, total	5	8800	1400	10 U	10 U	10 U	32000	20000	8 J
Total BTEX	NE	19071	2145	ND	ND	ND	73810	27913	56
<b>Other VOCs (ug/L)</b>									
Methyl tert-butyl ether	10*	10 U	10 U	1 J	10 U	10 U	10 U	10 U	10 U
<b>Non-carcinogenic PAHs (ug/L)</b>									
Acenaphthene	20*	10 U	10 U	10 U	10 U	10 U	2 J	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U	10 U	15	6	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	10 U	10 U	10 U	10 U	2 J	2 J	10 U
Methylnaphthalene, 2-	NE	18	10 U	10 U	10 U	10 U	130 J	110 J	10 U
Naphthalene	10*	430	10 U	10 U	10 U	10 U	1800 J	1500	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U	10 U	1 J	1 J	10 U
Pyrene	50*	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	448	ND	ND	ND	ND	1950	1619	ND
<b>Carcinogenic PAHs (ug/L)</b>									
Total Carcinogenic PAHs	NE	ND	ND	ND	ND	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>									
Total PAHs	NE	448	ND	ND	ND	ND	1950	1619	ND
<b>Other (cfu/ml)</b>									
Standard Plate Count	NE	NA	NA	NA	NA	200	3300	NA	NA

**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  
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 - indicates not detected at or above the reporting limit shown and the reporting limit is estimated

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU3 BBMW-09S 5-15 11/12/08	OU3 BBMW-28I 10-20 11/10/08	OU3 BBMW-28S 2-12 11/10/08	OU3 BBMW-29 2-9 11/06/08
<b>BTEX (ug/L)</b>					
Benzene	1	10 U	10 UJ	10 UJ	10 U
Toluene	5	10 U	10 UJ	10 UJ	10 U
Ethylbenzene	5	10 U	10 UJ	10 U	10 U
Xylene, m,p-	5	10 U	10 UJ	10 UJ	10 U
Xylene, o-	5	10 U	10 UJ	10 UJ	10 U
Total BTEX	NE	ND	ND	ND	ND
<b>Other VOCs (ug/L)</b>					
Acetone	50*	10 UJ	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 UJ	10 UJ	10 U
Butanone, 2-	50*	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	7	10 U	10 UJ	10 UJ	10 U
Chloromethane	5	10 U	10 UJ	10 UJ	10 U
Cyclohexane	NE	10 UJ	10 UJ	10 UJ	10 U
Dibromoethane, 1,2-	0.0006	10 U	10 UJ	10 UJ	10 U
Dichlorobenzene, 1,3-	3	10 U	10 UJ	10 UJ	10 U
Dichlorobenzene, 1,4-	3	10 U	10 UJ	10 UJ	10 U
Dichlorodifluoromethane	5	10 U	10 UJ	10 UJ	10 U
Dichloroethane, 1,1-	5	10 U	10 UJ	10 UJ	10 U
Dichloroethene, 1,1-	0.07	10 U	10 UJ	10 UJ	10 U
Dichloroethene, cis-1,2-	5	10 U	10 UJ	10 UJ	10 U
Heptane, n-	NE	10 UJ	10 UJ	10 UJ	10 U
Hexane, n-	NE	10 UJ	10 UJ	10 UJ	10 U
Isopropyl benzene	5	10 U	10 UJ	10 UJ	10 UJ
Methyl tert-butyl ether	10*	10 U	10 UJ	10 UJ	10 U
Naphthalene	10*	10 U	10 UJ	10 UJ	10 U
Nonane	NE	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	10 UJ	10 UJ	10 U
Styrene	5	10 U	10 UJ	10 UJ	10 U
Tetrachloroethene	5	10 U	10 UJ	10 UJ	10 U
Tetrahydrofuran	50*	10 UJ	10 UJ	10 UJ	10 U
Trichloroethene	5	10 U	10 UJ	10 UJ	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 UJ	10 UJ	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 UJ	10 UJ	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 U
<b>Non-carcinogenic PAHs (ug/L)</b>					
Acenaphthene	20*	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>					
Total Carcinogenic PAHs	NE	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>					
Total PAHs	NE	ND	ND	ND	ND
<b>Total Metals (ug/L)</b>					
Aluminum	NE	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA

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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU3 BBMW-09S 5-15 11/12/08</b>	<b>OU3 BBMW-28I 10-20 11/10/08</b>	<b>OU3 BBMW-28S 2-12 11/10/08</b>	<b>OU3 BBMW-29 2-9 11/06/08</b>
Chromium	50	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA
<b>Other (mg/L)</b>					
Nitrogen, Ammonia	2000	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU3 BBMW-33 7-12 11/14/08	OU3 BW-UST-10 4.65-9.95 11/19/08	OU3 BW-UST-28 5-10 11/19/08	OU3 BW-UST-29 5-10 11/19/08
<b>BTEX (ug/L)</b>					
Benzene	1	10 U	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND	ND
<b>Other VOCs (ug/L)</b>					
Acetone	50*	10 UJ	10 U	10 U	10 UJ
Bromomethane	5	10 U	10 U	10 U	10 U
Butanone, 2-	50*	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	7	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 UJ	10 U	10 U	10 U
Dibromoethane, 1,2-	0.0006	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U
Heptane, n-	NE	10 UJ	10 U	10 U	10 U
Hexane, n-	NE	10 UJ	10 U	10 U	10 U
Isopropyl benzene	5	10 U	10 U	10 U	10 U
Methyl tert-butyl ether	10*	10 U	7 J	1 J	10 UJ
Naphthalene	10*	10 U	2 J	10 U	10 U
Nonane	NE	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U
Tetrahydrofuran	50*	10 UJ	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ	10 U
<b>Non-carcinogenic PAHs (ug/L)</b>					
Acenaphthene	20*	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>					
Total Carcinogenic PAHs	NE	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>					
Total PAHs	NE	ND	ND	ND	ND
<b>Total Metals (ug/L)</b>					
Aluminum	NE	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA

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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU3 BBMW-33 7-12 11/14/08</b>	<b>OU3 BW-UST-10 4.65-9.95 11/19/08</b>	<b>OU3 BW-UST-28 5-10 11/19/08</b>	<b>OU3 BW-UST-29 5-10 11/19/08</b>
Chromium	50	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA
<b>Other (mg/L)</b>					
Nitrogen, Ammonia	2000	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU3 MW-01S 4-14 11/11/08	OU3 MW-11W 2-10 12/10/08	OU3 MW-30WR 2-9 11/06/08	OU3 MW-32WR 2-9 11/14/08
<b>BTEX (ug/L)</b>					
Benzene	1	10 U	1 J	10 U	19
Toluene	5	10 U	10 U	10 U	10 U
Ethylbenzene	5	10 U	5	10 U	7
Xylene, m,p-	5	10 U	10 U	10 U	10 U
Xylene, o-	5	10 U	2 J	10 U	3 J
Total BTEX	NE	ND	8	ND	29
<b>Other VOCs (ug/L)</b>					
Acetone	50*	10 UJ	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 U	10 UJ
Butanone, 2-	50*	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	7	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	10 UJ	10 U	10 U
Cyclohexane	NE	10 UJ	10 UJ	10 U	10 UJ
Dibromoethane, 1,2-	0.0006	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U
Heptane, n-	NE	10 UJ	10 UJ	10 U	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 U	10 UJ
Isopropyl benzene	5	10 U	10 U	10 UJ	10 UJ
Methyl tert-butyl ether	10*	10 U	10 UJ	10 U	10 UJ
Naphthalene	10*	10 U	10 U	10 U	10 U
Nonane	NE	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 UJ	10 U	10 U
Tetrahydrofuran	50*	10 UJ	10 UJ	10 U	10 UJ
Trichloroethene	5	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U	10 UJ
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 U	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>					
Acenaphthene	20*	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U
Naphthalene	10*	10 UJ	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>					
Total Carcinogenic PAHs	NE	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>					
Total PAHs	NE	ND	ND	ND	ND
<b>Total Metals (ug/L)</b>					
Aluminum	NE	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA



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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU3 MW-01S 4-14 11/11/08</b>	<b>OU3 MW-11W 2-10 12/10/08</b>	<b>OU3 MW-30WR 2-9 11/06/08</b>	<b>OU3 MW-32WR 2-9 11/14/08</b>
Chromium	50	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA
<b>Other (mg/L)</b>					
Nitrogen, Ammonia	2000	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA	NA
Sulfate	250000	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU3 MW-34D 27.5-28.5 11/07/08	OU3 MW-34I 18.5-19.5 11/07/08	OU3 MW-34S 2-10 11/11/08	OU3 MW-66D 24-29 11/06/08
<b>BTEX (ug/L)</b>					
Benzene	1	10 U	10 U	600	10 U
Toluene	5	10 U	10 U	1600	10 U
Ethylbenzene	5	10 U	10 U	1800	10 U
Xylene, m,p-	5	10 U	10 U	2900	10 U
Xylene, o-	5	10 U	10 U	2200	10 U
Total BTEX	NE	ND	ND	9100	ND
<b>Other VOCs (ug/L)</b>					
Acetone	50*	10 UJ	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 U	10 U
Butanone, 2-	50*	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	7	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U
Dibromoethane, 1,2-	0.0006	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U
Heptane, n-	NE	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 U	10 U	10 U	10 U
Isopropyl benzene	5	10 UJ	10 UJ	14 J	10 UJ
Methyl tert-butyl ether	10*	10 U	10 U	1 J	10 U
Naphthalene	10*	10 U	10 U	160	10 U
Nonane	NE	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	4 J	10 U
Styrene	5	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	240	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	130	10 U
Trimethylpentane, 2,2,4-	NE	10 U	10 U	10 U	10 U
<b>Non-carcinogenic PAHs (ug/L)</b>					
Acenaphthene	20*	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	42	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	42	ND
<b>Carcinogenic PAHs (ug/L)</b>					
Total Carcinogenic PAHs	NE	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>					
Total PAHs	NE	ND	ND	42	ND
<b>Total Metals (ug/L)</b>					
Aluminum	NE	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA

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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>		<b>OU3 MW-34D 27.5-28.5 11/07/08</b>	<b>OU3 MW-34I 18.5-19.5 11/07/08</b>	<b>OU3 MW-34S 2-10 11/11/08</b>	<b>OU3 MW-66D 24-29 11/06/08</b>
Chromium	50	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA
<b>Other (mg/L)</b>					
Nitrogen, Ammonia	2000	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA
Standard Plate Count	NE	NA	NA	<b>360</b>	NA
Sulfate	250000	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU3 MW-66S 1.5-11.5 11/06/08	OU3 MW-70/70S 2-12 11/10/08	OU3 MW-BS-02S 5-15 11/10/08	OU3 SV-02 2-12 12/04/08
<b>BTEX (ug/L)</b>					
Benzene	1	10 U	16	10 U	10 U
Toluene	5	10 U	69	10 U	10 U
Ethylbenzene	5	10 U	220	10 U	10 U
Xylene, m,p-	5	10 U	200	10 U	10 U
Xylene, o-	5	10 U	170	10 U	10 U
Total BTEX	NE	ND	675	ND	ND
<b>Other VOCs (ug/L)</b>					
Acetone	50*	10 UJ	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 U	10 UJ
Butanone, 2-	50*	10 UJ	10 UJ	10 UJ	10 UJ
Chloroform	7	10 U	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U	10 U
Dibromoethane, 1,2-	0.0006	10 U	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	1 J	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	1 J	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U	10 UJ
Dichloroethane, 1,1-	5	10 U	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U	10 U
Heptane, n-	NE	10 U	10 U	10 U	10 U
Hexane, n-	NE	10 U	10 U	10 U	10 U
Isopropyl benzene	5	10 UJ	3 J	10 UJ	10 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U	10 UJ
Naphthalene	10*	10 U	54	10 U	10 U
Nonane	NE	NA	NA	NA	NA
Octane, n-	NE	NA	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U	10 UJ
Trichloroethene	5	10 U	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	34	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	29	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 U	10 U	10 U	10 U
<b>Non-carcinogenic PAHs (ug/L)</b>					
Acenaphthene	20*	10 U	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U	10 U
Naphthalene	10*	10 U	22	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	22	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>					
Total Carcinogenic PAHs	NE	ND	ND	ND	ND
<b>Total PAHs (ug/L)</b>					
Total PAHs	NE	ND	22	ND	ND
<b>Total Metals (ug/L)</b>					
Aluminum	NE	NA	NA	NA	NA
Arsenic	25	NA	NA	NA	NA
Barium	1000	NA	NA	NA	NA
Cadmium	5	NA	NA	NA	NA
Calcium	NE	NA	NA	NA	NA

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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>		OU3 MW-66S 1.5-11.5 11/06/08	OU3 MW-70/70S 2-12 11/10/08	OU3 MW-BS-02S 5-15 11/10/08	OU3 SV-02 2-12 12/04/08
Chromium	50	NA	NA	NA	NA
Cobalt	NE	NA	NA	NA	NA
Copper	200	NA	NA	NA	NA
Iron	300	NA	NA	NA	NA
Lead	25	NA	NA	NA	NA
Magnesium	35000*	NA	NA	NA	NA
Manganese	300	NA	NA	NA	NA
Nickel	100	NA	NA	NA	NA
Potassium	NE	NA	NA	NA	NA
Selenium	10	NA	NA	NA	NA
Silver	50	NA	NA	NA	NA
Sodium	20000	NA	NA	NA	NA
Thallium	0.5*	NA	NA	NA	NA
Vanadium	NE	NA	NA	NA	NA
Zinc	2000*	NA	NA	NA	NA
<b>Other (mg/L)</b>					
Nitrogen, Ammonia	2000	NA	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA	NA
Standard Plate Count	NE	NA	<b>680</b>	<b>650</b>	NA
Sulfate	250000	NA	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA	NA

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	OU1SG06 12/23/2008	OU1SG07 2/6/2008	OU1SG07 4/3/2008	OU1SG07 6/18/2008	OU1SG07 9/19/2008	OU1SG07 12/23/2008	OU1SG08 2/7/2008	OU1SG08 6/13/2008	OU1SG08 9/30/2008	OU1SG08 12/30/2008	OU2SG01 7/21/2004	OU2SG01 10/13/2004	OU2SG01 5/5/2005	
<b>Other VOCs Continued (ug/m3)</b>																		
Octane, n-	19	1.5	65	2.7	1.9	12	2.8	25	3.8	2.1	0.89 J	550	45	0.30 J	NA	NA	NA	
Pentane	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	16	0.56 J	0.59 U	3.7	0.59 U	0.62	0.59 U	0.92	8.5	NA	NA	NA	
Propanol, 2-	0.49 UJ	1.0 J	1.3 UJ	0.49 U	0.67	76 J	2.7	2.8 J	11 J	0.49 U	6.2 J	5.2 J	1.7	1.2 J	7.4 U	7.1 U	14.5	
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.7 U	3.5 U	3.6 U	
Styrene	0.89	0.85 U	0.51 J	0.21 J	0.85 U	0.47 J	0.85 U	0.85 U	0.94	0.85 U	0.85 U	0.68 J	0.31 J	0.85 U	3.2 U	3.1 U	3.1 U	
t-Butyl alcohol	0.61 U	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	0.61 U	0.18 J	NA	NA	NA	
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	1.4 U	1.4 U	1.4 U	5.2 U	4.9 U	5 U
Tetrachloroethene	16	13	44	56	4.9	32	14	17	9.3	1.2 J	3.3	3.0	2.4	0.35 J	5.2	26.5	5 U	
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U	2.1 U	2.2 U	
Tetramethylbenzene, 1,2,4,5-	31	0.32 J	1.1 UJ	0.44 J	1.1 U	0.88 J	1.1 U	0.49 J	0.66 J	1.1 U	0.44 J	3.9 J	0.63 J	1.1 U	NA	NA	NA	
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	0.69 U	0.69 U	0.69 U	0.69 U	NA	NA	NA
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	0.79 U	0.79 U	3 U	2.9 U	2.9 U	
Trichloro-1,2,2-trifluoroethane, 1,1,2-	1.5 U	0.44 J	0.69 J	0.61 J	0.59 J	0.77 J	0.70 J	1.5 U	0.54 J	0.6 J	0.61 J	1.1 J	0.89 J	0.73 J	5.8 U	5.5 U	5.6 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	1.5 U	1.5 U	1.5 U	1.5 UJ	22.3 U	21.5 U	21.5 U
Trichloroethane, 1,1,1-	0.27 J	1.1 U	1.1	1.7	1.1 U	0.82 J	1.1 U	0.55 J	0.33 J	1.1 U	0.49 J	2.3	2.9	0.50 J	4.1 U	3.9 U	4 U	
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	1.1 U	1.1 U	1.1 U	4.1 U	3.9 U	4 U
Trichloroethene	0.59 J	0.71 J	2.0	2.3	0.62 J	0.86 J	1.1 U	1.1 U	7.1	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	4.1 U	3.9 U	3.9 U	
Trichlorofluoromethane	1.1 U	1.2	1.6	1.4	1.3	1.4	2.3	1.5	1.4	1.6	2.0	2.0	1.6	4.3 U	4 U	4.1 U	4.1 U	
Trimethylbenzene, 1,2,3-	180	0.69 J	1.8	0.98 U	0.98 U	3.6	0.92 J	0.64 J	1.0	0.27 J	2.2	4.6	0.28 J	0.33 J	NA	NA	NA	
Trimethylbenzene, 1,2,4-	100	0.28 J	0.59 J	0.29 J	0.98 U	1.4	0.27 J	0.98 U	2.5 J	0.98 U	0.79 J	1.1	0.63 J	0.98 U	6.9	8.8	7.4	
Trimethylbenzene, 1,3,5-	76	0.34 J	0.93 J	0.98 U	0.98 U	1.2	0.36 J	0.29 J	0.84 J	0.98 U	0.83 J	2.2	0.98 U	0.98 U	3.7 U	3.5 U	3.6 U	
Trimethylpentane, 2,2,4-	180	0.58 J	0.93 UJ	0.37 J	0.93 U	14	0.93 UJ	0.93 U	0.93 U	0.93 U	0.51 J	1.2	0.93 U	0.93 U	3.6 U	3.4 U	3.4 U	
Undecane, n-	5.4	0.84 J	3.3	1.3 UJ	1.3 U	4.9	2.0	1.3	1.3 UJ	1.3 U	1.9	19	1.3 UJ	0.48 J	NA	NA	NA	
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	0.87 U	0.87 U	NA	NA	NA	
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	0.51 U	0.51 U	1.9 U	1.8 U	1.9 U	
<b>Other (%)</b>																		
Helium	NA	NA	0.0174 U	0.0232 U	0.0155	NA	NA	0.0189 U	0.0172 U	0.0151	NA	0.037 U	0.014 U	0.0201	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:	OU2SG01 8/30/2005	OU2SG01 2/1/2006	OU2SG01 6/14/2006	OU2SG01 9/7/2006	OU2SG01 2/22/2007	OU2SG01 5/24/2007	OU2SG01 7/25/2007	OU2SG01 9/19/2007	OU2SG01 12/18/2007	OU2SG01 3/26/2008	OU2SG01 6/24/2008	OU2SG01 9/24/2008	Duplicate of OU2SG01 9/24/2008	OU2SG01 12/29/2008	OU2SG02 7/21/2004	OU2SG02 10/13/2004	OU2SG02 5/5/2005
<b>Other VOCs Continued (ug/m3)</b>																	
Octane, n-	NA	NA	NA	NA	<b>3.0</b>	1.9 U	2.3 U	2.3 U	0.93 U	0.93 U	<b>220</b>	0.93 U	0.93 U	0.93 U	NA	NA	NA
Pentane	NA	NA	NA	NA	<b>20</b>	1.2 U	<b>2.3</b>	<b>0.44 J</b>	<b>0.86</b>	0.59 UJ	<b>1.7</b>	0.59 U	0.59 U	<b>0.81</b>	NA	NA	NA
Propanol, 2-	7.9 U	7.1 U	<b>68.8</b>	<b>8.8</b>	<b>7.4</b>	<b>2 J</b>	<b>5.1</b>	<b>0.74 J</b>	0.49 U	1.2 U	1.2 UJ	0.49 U	0.49 U	1.2 U	7.1 U	7.1 U	<b>15.7</b>
Propylbenzene, n-	<b>4.9</b>	3.6 U	20.6 U	<b>6.4</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.5 U	3.6 U	3.6 U
Styrene	<b>6</b>	3.1 U	17.9 U	<b>4.1</b>	1.8 U	1.8 U	2.1 U	2.1 U	0.85 U	0.85 U	<b>0.47 J</b>	0.85 U	0.85 U	0.85 U	3.1 U	3.1 U	3.1 U
t-Butyl alcohol	NA	NA	NA	NA	1.3 U	1.2 U	<b>0.97 J</b>	1.5 U	0.61 U	0.61 U	<b>0.27 J</b>	0.61 U	0.61 U	0.61 U	NA	NA	NA
Tetrachloroethane, 1,1,2,2-	5.5 U	5 U	28.8 U	5.5 U	2.9 U	2.8 U	3.4 U	3.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	4.9 U	5 U	5 U
Tetrachloroethene	<b>8.1</b>	<b>9.5</b>	<b>43.4</b>	<b>19</b>	<b>9.4</b>	<b>10</b>	<b>0.88 J</b>	<b>0.85 J</b>	1.4 U	<b>0.44 J</b>	<b>4.5</b>	<b>5.2</b>	<b>0.61 J</b>	1.4 U	<b>6.1</b>	<b>22.4</b>	5 U
Tetrahydrofuran	<b>2.7</b>	<b>2.5</b>	12.4 U	<b>2.7</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U	2.2 U	2.2 U
Tetramethylbenzene, 1,2,4,5-	NA	NA	NA	NA	2.3 U	<b>4.2 J</b>	14 U	2.7 U	1.1 U	1.1 U	<b>3.2 J</b>	1.1 U	1.1 U	1.1 U	NA	NA	NA
Thiophene	NA	NA	NA	NA	1.4 U	1.4 U	1.7 U	1.7 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	NA	NA	NA
Trans-1,2-dichloroethene	3.2 U	2.9 U	16.7 U	3.2 U	1.7 U	1.6 U	2 U	2.0 U	0.79 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
Trichloro-1,2,2-trifluoroethane, 1,1,2-	6.1 U	5.6 U	32.2 U	6.1 U	3.2 U	3.1 U	3.8 U	3.8 U	<b>0.61 J</b>	<b>0.39 J</b>	<b>0.54 J</b>	<b>0.54 J</b>	<b>0.46 J</b>	<b>0.62 J</b>	5.5 U	5.6 U	5.6 U
Trichlorobenzene, 1,2,4-	23.7 U	21.5 U	126.2 U	23.7 UJ	3.1 UJ	3 U	3.6 U	3.7 U	1.5 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
Trichloroethane, 1,1,1-	4.4 U	4 U	22.9 U	4.4 U	2.3 U	2.2 UJ	2.7 U	2.7 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	3.9 U	4 U	4 U
Trichloroethane, 1,1,2-	4.4 U	4 U	22.9 U	4.4 U	2.3 U	2.2 U	2.7 U	2.7 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	3.9 U	4 U	4 U
Trichloroethene	4.3 U	3.9 U	22.6 U	4.3 U	<b>0.90 J</b>	2.2 U	2.6 U	2.7 U	1.1 U	1.1 U	1.1 U	<b>21 J</b>	1.1 UJ	1.1 U	3.9 U	3.9 U	3.9 U
Trichlorofluoromethane	4.5 U	4.1 U	23.6 U	4.5 U	<b>1.3 J</b>	<b>1.7 J</b>	<b>1.3 J</b>	<b>1.4 J</b>	<b>1.4</b>	<b>0.95 J</b>	<b>1.4</b>	<b>1.4</b>	<b>1.4</b>	<b>1.5</b>	4 U	4.1 U	4.1 U
Trimethylbenzene, 1,2,3-	NA	NA	NA	NA	<b>2.0 J</b>	<b>3.6</b>	2.4 U	2.5 U	0.98 U	0.98 U	<b>2.9</b>	0.98 U	0.98 U	0.98 U	NA	NA	NA
Trimethylbenzene, 1,2,4-	<b>18.7</b>	<b>5.4</b>	20.6 U	<b>28.5 J</b>	<b>4.5</b>	<b>15 J</b>	2.4 U	2.5 U	0.98 U	0.98 U	<b>0.74 J</b>	0.98 U	0.98 U	0.98 U	<b>4.9</b>	<b>9.3</b>	<b>6.4</b>
Trimethylbenzene, 1,3,5-	<b>7.4</b>	3.6 U	20.6 U	<b>8.4</b>	<b>1.6 J</b>	<b>3.4</b>	2.4 U	2.5 U	0.98 U	0.98 U	<b>1.5</b>	0.98 U	0.98 U	0.98 U	3.5 U	3.6 U	3.6 U
Trimethylpentane, 2,2,4-	<b>10.3</b>	<b>261.6</b>	<b>5606.4</b>	<b>453.2</b>	<b>6.9 J</b>	1.9 U	2.3 U	2.3 U	0.93 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
Undecane, n-	NA	NA	NA	NA	<b>2.4 J</b>	<b>12</b>	3.1 U	3.2 U	<b>0.64 J</b>	<b>0.46 J</b>	<b>12</b>	1.3 U	<b>0.83 J</b>	1.3 U	NA	NA	NA
Vinyl bromide	NA	NA	NA	NA	1.8 U	1.8 U	2.2 U	2.2 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	NA	NA	NA
Vinyl chloride	2 U	1.9 U	10.7 U	2 U	1.1 U	1 U	1.3 U	1.3 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	1.9 U
<b>Other (%)</b>																	
Helium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<b>0.297</b>	<b>0.284</b>	<b>0.773</b>	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:	OU2SG02 8/30/2005	OU2SG02 2/1/2006	OU2SG02 6/14/2006	OU2SG02 9/7/2006	OU2SG02 2/22/2007	OU2SG02 5/24/2007	OU2SG02 7/25/2007	OU2SG02 9/19/2007	OU2SG02 12/18/2007	OU2SG02 3/26/2008	OU2SG02 6/24/2008	OU2SG02 9/22/2008	OU2SG02 9/24/2008	OU2SG02 12/29/2008	OU2SG03 7/21/2004	OU2SG03 10/13/2004	OU2SG03 5/5/2005
<b>Other VOCs Continued (ug/m3)</b>																	
Octane, n-	NA	NA	NA	NA	1.9 J	1.8 U	2.3 U	2.8 U	0.93 U	0.93 U	180	17	0.93 U	0.93 U	NA	NA	NA
Pentane	NA	NA	NA	NA	2.2	1.2 U	0.78 J	1.8 U	0.59 U	0.59 UJ	0.41 J	0.59 U	0.59 U	0.59 U	NA	NA	NA
Propanol, 2-	10.6	7.4 U	78.7	9.1	1.5	1.7 J	6.6	1.5 U	0.49 U	1.2 U	1.2 UJ	0.49 U	0.49 U	1.2 U	7.4	7.4 U	36.9
Propylbenzene, n-	4.5	3.7 U	24.6 U	6.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.7 U	3.7 U	3.9 U
Styrene	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	0.85 U	0.38 J	0.85 U	0.85 U	0.85 U	3.2 U	3.2 U	3.4 U
t-Butyl alcohol	NA	NA	NA	NA	1.4 U	1.2 U	1.2 J	0.55 J	0.61 U	0.61 U	0.73	0.61 U	0.61 U	0.61 U	NA	NA	NA
Tetrachloroethane, 1,1,2,2-	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	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	5.2 U	5.2 U	5.4 U
Tetrachloroethene	8.8	8.1	50.2	19	3.4	5.3	1.1 J	1.2 J	1.4 U	1.4 U	1.1 J	5.5	0.47 J	1.4 U	8.1	21.7	5.4 U
Tetrahydrofuran	2.5	2.2 U	14.7 U	2.3 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U	2.2 U	2.3 U
Tetramethylbenzene, 1,2,4,5-	NA	NA	NA	NA	2.5 U	5.4 J	1.9 J	3.3	0.38 J	1.3	2.8 J	0.66 J	1.1 U	1.1 U	NA	NA	NA
Thiophene	NA	NA	NA	NA	1.6 U	1.4 U	1.7 U	2.1 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	NA	NA	NA
Trans-1,2-dichloroethene	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	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	3 U	3 U	3.1 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	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	0.95 J	0.54 J	1.5 U	0.77 J	0.44 J	5.8 U	5.8 U	6.1 U
Trichlorobenzene, 1,2,4-	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	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	22.3 U	22.3 U	23.7 U
Trichloroethane, 1,1,1-	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	1.1 U	1.1 U	5.2	1.1 U	1.1 U	4.1 U	4.1 U	4.3 U
Trichloroethane, 1,1,2-	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	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	4.1 U	4.1 U	4.3 U
Trichloroethene	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	1.1 U	1.1 U	0.38 J	1.1 U	1.1 U	4.1 U	4.1 U	4.2 U
Trichlorofluoromethane	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	1.2	1.5	4.3	1.4	1.3	11.2	7.3	4.4 U
Trimethylbenzene, 1,2,3-	NA	NA	NA	NA	2.2 U	2	2.4 U	3.0 U	0.98 U	0.98 U	2.7	0.29 J	0.98 U	0.98 U	NA	NA	NA
Trimethylbenzene, 1,2,4-	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	0.98 U	0.69 J	0.59 J	0.98 U	0.98 U	9.8	6.9	3.9 U
Trimethylbenzene, 1,3,5-	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	0.98 U	1.4	0.98 U	0.98 U	0.98 U	3.7 U	3.7 U	3.9 U
Trimethylpentane, 2,2,4-	11.2	607.4	7008	934.4	2.1 J	1.8 U	2.3 U	2.8 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	3.6 U	4.7	3.7 U
Undecane, n-	NA	NA	NA	NA	2.9 U	2.5 U	4.2	3.8 U	1.3 U	1.2 J	12	1.3 UJ	1.3 U	1.3 U	NA	NA	NA
Vinyl bromide	NA	NA	NA	NA	2.0 U	1.7 U	2.1 U	2.6 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	NA	NA	NA
Vinyl chloride	2 U	1.9 U	12.8 U	2 U	1.2 U	1 U	1.2 U	1.5 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U	1.9 U	1.9 U	2 U
<b>Other (%)</b>																	
Helium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0255 U	0.301	0.19	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:	OU2SG03 8/30/2005	OU2SG03 2/1/2006	OU2SG03 6/14/2006	OU2SG03 9/7/2006	OU2SG03 2/22/2007	OU2SG03 5/24/2007	OU2SG03 9/18/2007	OU2SG03 12/18/2007	OU2SG03 3/26/2008	OU2SG03 6/24/2008	OU2SG03 9/22/2008	OU2SG03 9/24/2008	OU2SG03 12/29/2008	OU2SG04 5/5/2005	OU2SG04 8/30/2005	OU2SG04 2/1/2006	OU2SG04 6/14/2006
<b>Other VOCs Continued (ug/m3)</b>																	
Octane, n-	NA	NA	NA	NA	2.0 U	1.1 J	1.3 J	0.93 U	0.93 U	180	91	0.93 U	0.93 U	NA	NA	NA	NA
Pentane	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	0.59 U	NA	NA	NA	NA
Propanol, 2-	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	1.2 U	16.2	7.6 U	7.4 U	46.7 U
Propylbenzene, n-	6.9	3.6 U	32.4 U	12.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.6 U	3.8 U	3.6 U	24.1 U
Styrene	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	0.85 U	3.2 U	3.3 U	3.2 U	20.9 U
t-Butyl alcohol	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	0.61 U	NA	NA	NA	NA
Tetrachloroethane, 1,1,2,2-	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	1.4 U	5.1 U	5.4 U	5.1 U	33.6 U
Tetrachloroethene	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	1.4 U	5 U	5.3 U	8.1	34.6
Tetrahydrofuran	2.3 U	2.2 U	19.5 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U	2.3 U	2.2 U	14.5 U
Tetramethylbenzene, 1,2,4,5-	NA	NA	NA	NA	2.3 U	3 J	4.0 J	1.3	3.4	1.1 U	0.49 J	4.8	1.1 U	NA	NA	NA	NA
Thiophene	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	0.69 U	NA	NA	NA	NA
Trans-1,2-dichloroethene	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	0.79 U	2.9 U	3.1 U	2.9 U	19.4 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	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	1.5 U	5.7 U	6 U	5.7 U	37.6 U
Trichlorobenzene, 1,2,4-	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	1.5 U	22.3 U	23 U	22.3 U	141 U
Trichloroethane, 1,1,1-	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	1.1 U	1.1 U	1.1 U	4 U	4.3 U	4 U	26.7 U
Trichloroethane, 1,1,2-	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	1.1 U	4 U	4.3 U	4 U	26.7 U
Trichloroethene	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	1.1 U	4 U	4.2 U	4 U	26.3 U
Trichlorofluoromethane	4.4 U	4.1 U	37.1 U	6.7	1.9 J	6.6	7.4	3.5	12	4.7	9.3	3.7	4.2 U	4.4 U	4.2 U	27.5 U	
Trimethylbenzene, 1,2,3-	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	0.98 U	NA	NA	NA	NA
Trimethylbenzene, 1,2,4-	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	0.98 U	10.8	3.8 U	3.9	24.1 U
Trimethylbenzene, 1,3,5-	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	0.98 U	4	3.8 U	3.6 U	24.1 U
Trimethylpentane, 2,2,4-	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	0.93 U	3.5 U	3.6 U	794.2	5606.4
Undecane, n-	NA	NA	NA	NA	1.1 J	6.3	3.0 U	1.3 U	2.0	1.3 U	33	1.3 U	1.3 U	NA	NA	NA	NA
Vinyl bromide	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	0.87 U	NA	NA	NA	NA
Vinyl chloride	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	0.51 U	1.9 U	2 U	1.9 U	12.5 U
<b>Other (%)</b>																	
Helium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.014 U	0.025	0.05	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:	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	OU2SG04 12/29/2008	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	OU2SG05 7/25/2007
<b>Other VOCs Continued (ug/m3)</b>																	
Octane, n-	NA	1.9 U	1.6 J	1.5 J	0.93 U	0.34 J	230	0.93 U	0.93 U	NA	NA	NA	NA	NA	1.2 J	1.9 U	2.2 U
Pentane	NA	1.1 J	1.2 U	0.64 J	0.59 U	0.59 UJ	0.97	0.59 U	0.40 J	NA	NA	NA	NA	NA	9.4	1.2 U	3.6
Propanol, 2-	6.9 U	1.0 J	1.9 J	0.95 J	1.1 J	1.2 U	1.2 UJ	0.49 U	1.2 U	7.4 U	7.9 U	6.9 U	90.9	8.1 U	2.7	4.9 U	15 J
Propylbenzene, n-	8.8	NA	NA	NA	NA	NA	NA	NA	NA	3.7 U	3.9 U	3.4 U	17.7 U	5.4	NA	NA	NA
Styrene	3 U	1.7 U	1.7 U	1.8 U	0.85 U	0.85 U	0.55 J	0.85 U	0.85 U	3.2 U	3.4 U	3 U	15.3 U	3.5 U	1.9 U	1.7 U	2 U
t-Butyl alcohol	NA	1.2 U	1.2 U	1.0 J	0.61 U	0.24 J	0.88	0.61 U	0.61 U	NA	NA	NA	NA	NA	1.3 U	1.2	0.83 J
Tetrachloroethane, 1,1,2,2-	4.8 U	2.8 U	2.8 U	3.0 U	1.4 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	3.2 U
Tetrachloroethene	19	2.8 U	6.7	5.7	1.8	2.7	3.3	2.9	0.98 J	32.6	5.9	5.4	27.8	14.9	0.90 J	2.4 J	1.8 J
Tetrahydrofuran	2.1 U	NA	NA	NA	NA	NA	NA	NA	NA	2.2 U	2.4 U	2.1 U	10.6 U	2.4 U	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	NA	2.2 U	2.6 J	3.0 J	0.99 J	3.4	2.7 J	1.1 U	1.1 U	NA	NA	NA	NA	NA	2.4 U	5.2	2.4 J
Thiophene	NA	1.4 U	1.4 U	1.5 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	NA	NA	NA	NA	NA	1.5 U	1.4 U	1.6 UJ
Trans-1,2-dichloroethene	2.8 U	1.6 U	1.6 U	1.7 U	0.79 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	1.8 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5.4 U	0.78 J	3.1 U	3.3 U	0.54 J	0.58 J	0.54 J	0.46 J	0.59 J	5.8 U	6.1 U	5.4 U	27.6 U	6.3 U	3.4 U	3 U	3.6 U
Trichlorobenzene, 1,2,4-	20.8 UJ	3.0 UJ	3 U	3.2 U	1.5 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	3.5 U
Trichloroethane, 1,1,1-	3.8 U	2.2 U	2.2 UJ	2.4 U	1.1 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	2.6 U
Trichloroethane, 1,1,2-	3.8 U	2.2 U	2.2 U	2.4 U	1.1 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	2.6 U
Trichloroethene	3.8 U	2.2 U	2.2 U	2.3 U	1.1 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	2.5 U
Trichlorofluoromethane	3.9 U	1.2 J	1.9 J	1.7 J	1.4	1.1 J	1.5	1.6	1.5	4.3 U	4.5 U	3.9 U	20.2 U	4.6 U	1.7 J	1.9 J	2.9
Trimethylbenzene, 1,2,3-	NA	0.70 J	1.7 J	1.4 J	0.98 U	0.36 J	3.4	0.98 U	0.98 U	NA	NA	NA	NA	NA	0.98 J	1.1 J	2.3 U
Trimethylbenzene, 1,2,4-	43.3 J	1.7 J	8.1 J	3.5	0.54 J	0.48 J	1.1	0.98 U	0.98 U	3.7 U	15.7	3.4 U	17.7 U	21.6 J	2.2	1.2 J	2.3 U
Trimethylbenzene, 1,3,5-	10.8	2.0 U	2.3	1.5 J	0.98 U	0.57 J	1.8	0.98 U	0.98 U	3.7 U	5.9	3.4 UJ	17.7 U	5.4	0.76 J	2 U	2.3 U
Trimethylpentane, 2,2,4-	981.1	1.9 U	1.1 J	1.1 J	0.93 U	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	2.2 U
Undecane, n-	NA	2.6 U	4.7	2.8 U	2.7	5.4	11	1.3 U	1.3 U	NA	NA	NA	NA	NA	2.8 U	2.5 U	1.4 J
Vinyl bromide	NA	1.8 U	1.8 U	1.9 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U	NA	NA	NA	NA	NA	1.9 U	1.7 U	2 U
Vinyl chloride	1.8 U	1.0 U	1 U	1.1 U	0.51 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	1.2 U
<b>Other (%)</b>																	
Helium	NA	NA	NA	NA	NA	NA	0.0177 U	0.037	0.037	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:	OU2SG05 9/19/2007	OU2SG05 12/19/2007	OU2SG05 3/27/2008	OU2SG05 6/23/2008	OU2SG05 9/22/2008	OU2SG05 12/29/2008	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
<b>Other VOCs Continued (ug/m3)</b>																	
Octane, n-	2.1 U	0.93 U	0.93 U	<b>200</b>	<b>0.75 J</b>	0.93 U	NA	NA	NA	NA	NA	<b>0.67 J</b>	1.9 U	2.2 U	0.93 U	0.93 U	0.93 U
Pentane	<b>0.52 J</b>	<b>1.7</b>	<b>0.86</b>	<b>0.80</b>	0.59 U	<b>0.45 J</b>	NA	NA	NA	NA	NA	<b>3.2</b>	1.2 U	1.4 U	0.59 U	0.59 U	0.59 U
Propanol, 2-	<b>0.76 J</b>	0.49 U	<b>0.38 J</b>	1.2 UJ	0.49 U	<b>0.44 J</b>	<b>16.2</b>	7.4 U	7.4 U	41.8 U	7.4 U	<b>2.4</b>	<b>2.5 J</b>	<b>1.2</b>	0.49 U	<b>0.45 J</b>	1.4 UJ
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	3.6 U	<b>10.8</b>	3.6 U	20.6 U	<b>10.8</b>	NA	NA	NA	NA	NA	NA
Styrene	1.9 U	0.85 U	0.85 U	<b>0.43 J</b>	0.85 U	0.85 U	3.1 U	<b>4.1</b>	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
t-Butyl alcohol	1.3 U	0.61 U	0.61 U	<b>1.7 J</b>	0.61 U	0.61 U	NA	NA	NA	NA	NA	1.2 U	<b>1.4</b>	<b>0.43 J</b>	0.61 U	0.61 U	0.61 U
Tetrachloroethane, 1,1,2,2-	3.0 U	1.4 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
Tetrachloroethene	<b>1.4 J</b>	<b>0.41 J</b>	<b>0.49 J</b>	<b>16</b>	<b>1.8</b>	1.4 U	<b>5</b>	<b>12.2</b>	<b>16.3</b>	<b>32.6</b>	<b>24.4</b>	<b>0.83 J</b>	<b>2.4 J</b>	<b>1.9 J</b>	<b>0.41 J</b>	<b>0.62 J</b>	<b>3.3</b>
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	2.2 U	2.2 U	<b>2.2 J</b>	12.4 U	2.2 U	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	2.4 U	1.1 U	1.1 U	<b>2.1 J</b>	1.1 U	1.1 U	NA	NA	NA	NA	NA	2.2 U	<b>4</b>	2.6 U	1.1 U	1.1 U	1.1 U
Thiophene	1.5 U	0.69 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
Trans-1,2-dichloroethene	1.8 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	16.7 U	3 U	1.6 U	1.6 U	1.9 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	3.4 U	<b>0.54 J</b>	1.5 U	<b>0.61 J</b>	<b>0.54 J</b>	<b>0.59 J</b>	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	<b>0.68 J</b>	<b>0.54 J</b>
Trichlorobenzene, 1,2,4-	3.3 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 UJ	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
Trichloroethane, 1,1,1-	2.4 U	1.1 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
Trichloroethane, 1,1,2-	2.4 U	1.1 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
Trichloroethene	2.4 U	<b>0.32 J</b>	1.1 U	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
Trichlorofluoromethane	<b>2.0 J</b>	<b>1.3</b>	<b>1.2</b>	<b>2.8</b>	<b>2.0</b>	<b>1.4</b>	4.1 U	4.2 U	4.2 U	23.6 U	4.3 U	<b>1.5 J</b>	2.3 U	<b>1.6 J</b>	<b>1.1</b>	<b>1.9</b>	<b>1.8</b>
Trimethylbenzene, 1,2,3-	2.2 U	0.98 U	0.98 U	<b>2.6</b>	0.98 U	0.98 U	NA	NA	NA	NA	NA	<b>1.4 J</b>	<b>1.7 J</b>	2.3 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,2,4-	2.2 U	0.98 U	0.98 U	<b>0.69 J</b>	0.98 U	0.98 U	<b>8.8</b>	<b>47.2</b>	<b>8.4</b>	20.6 U	<b>54.1 J</b>	<b>2.8</b>	<b>1.2 J</b>	2.3 U	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,3,5-	2.2 U	0.98 U	0.98 U	<b>1.3</b>	0.98 U	0.98 U	3.6 U	<b>16.2</b>	3.6 UJ	20.6 U	<b>14.3</b>	<b>1.2 J</b>	2 U	2.3 U	0.98 U	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	2.1 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	<b>3.5</b>	<b>15.4</b>	<b>981.1</b>	<b>5139.2</b>	<b>934.4</b>	<b>1.1 J</b>	<b>1.4 J</b>	2.2 U	0.93 U	0.93 UJ	0.93 U
Undecane, n-	2.8 U	1.3 U	1.3 U	<b>8.2</b>	1.3 UJ	1.3 U	NA	NA	NA	NA	NA	<b>1.0 J</b>	2.6 U	3.0 U	1.3 U	1.3 U	1.3 U
Vinyl bromide	1.9 U	0.87 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
Vinyl chloride	1.1 U	0.51 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
<b>Other (%)</b>																	
Helium	NA	NA	NA	<b>0.436</b>	<b>0.429</b>	<b>0.661</b>	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: Sample Date:	OU2SG06 9/24/2008	OU2SG06 12/29/2008	OU2SG07 5/25/2005	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	OU2SG07 12/23/2008	OU2SG08 5/25/2005	OU2SG08 8/31/2005
<b>Other VOCs Continued (ug/m3)</b>																	
Octane, n-	0.93 U	0.93 U	NA	NA	NA	NA	NA	<b>0.53 J</b>	<b>1.8 J</b>	2.1 U	0.93 U	0.93 U	<b>240</b>	<b>0.75 J</b>	38 U	NA	NA
Pentane	0.59 U	<b>1.8</b>	NA	NA	NA	NA	NA	1.3 U	1.2 U	1.3 U	<b>1.5</b>	0.59 U	<b>0.35 J</b>	0.59 U	39 U	NA	NA
Propanol, 2-	0.49 U	0.77 UJ	<b>36.9 J</b>	7.9 U	17.7 U	23.8 U	7.4 U	<b>1.7</b>	<b>1.9 J</b>	<b>1.2</b>	<b>2.0 J</b>	<b>0.40 J</b>	1.2 UJ	0.49 U	40 U	<b>7.1 J</b>	<b>712.8</b>
Propylbenzene, n-	NA	NA	5.9 U	<b>8.4</b>	8.8 U	11.8 U	<b>10.3</b>	NA	NA	NA	NA	NA	NA	NA	NA	3.4 U	<b>6.4</b>
Styrene	0.85 U	0.85 U	5.1 U	<b>4</b>	7.7 U	10.2 U	3.2 U	1.9 U	<b>1.1 J</b>	1.9 U	0.85 U	0.85 U	<b>0.55 J</b>	0.85 U	41 U	3 U	<b>4</b>
t-Butyl alcohol	0.61 U	0.61 U	NA	NA	NA	NA	NA	1.4 U	<b>0.85 J</b>	<b>0.80 J</b>	0.61 U	0.61 U	<b>1.8</b>	0.61 U	42 U	NA	NA
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	8.2 U	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	43 U	4.8 U	5.4 U
Tetrachloroethene	<b>2.0</b>	1.4 U	8.1 U	<b>29.2</b>	<b>27.8</b>	<b>23.1</b>	<b>39.3</b>	<b>4.6</b>	<b>26</b>	<b>35</b>	<b>4.7</b>	<b>7.4</b>	<b>30</b>	<b>34</b>	44 U	<b>14.9</b>	<b>19.7</b>
Tetrahydrofuran	NA	NA	3.5 U	2.4 U	5.3 U	7.1 U	2.2 U	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U	<b>5.9</b>
Tetramethylbenzene, 1,2,4,5-	1.1 U	1.1 U	NA	NA	NA	NA	NA	2.5 U	<b>10 J</b>	<b>3.4 J</b>	1.1 U	<b>0.28 J</b>	<b>2.9 J</b>	<b>2.4</b>	45 U	NA	NA
Thiophene	0.69 U	0.69 U	NA	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	46 U	NA	NA
Trans-1,2-dichloroethene	0.79 U	0.79 U	4.8 U	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	47 U	2.8 U	3.1 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	<b>0.43 J</b>	<b>0.58 J</b>	9.2 U	6.1 U	13.8 U	18.4 U	5.7 U	3.5 U	3.1 U	3.4 U	<b>0.46 J</b>	<b>0.48 J</b>	<b>0.61 J</b>	<b>0.61 J</b>	48 U	5.4 U	6 U
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	36.4 U	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	<b>1.0 J</b>	49 U	20.8 U	23 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	6.5 U	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	50 U	3.8 U	4.3 U
Trichloroethane, 1,1,2-	1.1 U	1.1 U	6.5 U	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	51 U	3.8 U	4.3 U
Trichloroethene	1.1 U	1.1 U	<b>8.1</b>	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	<b>0.59 J</b>	<b>0.64 J</b>	52 U	3.8 U	4.2 U
Trichlorofluoromethane	<b>1.5</b>	<b>1.6</b>	6.7 U	4.5 U	10.1 U	13.5 U	4.2 U	<b>1.7 J</b>	<b>1.6 J</b>	<b>1.5 J</b>	<b>1.5</b>	<b>1.7</b>	<b>1.7</b>	<b>1.5</b>	53 U	3.9 U	4.4 U
Trimethylbenzene, 1,2,3-	0.98 U	0.98 U	NA	NA	NA	NA	NA	1.7 J	<b>4.3</b>	2.2 U	0.98 U	0.98 U	<b>3.3</b>	<b>0.44 J</b>	54 U	NA	NA
Trimethylbenzene, 1,2,4-	0.98 U	0.98 U	5.9 U	<b>40.3</b>	8.8 U	11.8 U	<b>54.1 J</b>	<b>3.5</b>	<b>16 J</b>	2.2 U	0.98 U	0.98 U	<b>0.84 J</b>	<b>0.34 J</b>	55 U	3.4 U	<b>29</b>
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	5.9 U	<b>14.3</b>	8.8 U	11.8 U	<b>12.8</b>	1.1 J	<b>4.1</b>	2.2 U	0.98 U	0.98 U	<b>1.6</b>	0.98 U	56 U	3.4 U	<b>10.8</b>
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	5.6 U	<b>10.7</b>	<b>1775.4</b>	<b>2429.4</b>	<b>1308.2</b>	2.1 U	1.9 U	2.1 U	0.93 U	0.93 UJ	0.93 U	0.93 U	57 U	3.3 U	<b>15</b>
Undecane, n-	1.3 U	1.3 U	NA	NA	NA	NA	NA	<b>1.0 J</b>	<b>20</b>	2.8 U	<b>0.51 J</b>	1.3 U	<b>11</b>	<b>4.2</b>	58 U	NA	NA
Vinyl bromide	0.87 U	0.87 U	NA	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	59 U	NA	NA
Vinyl chloride	0.51 U	0.51 U	3.1 U	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	60 U	1.8 U	2 U
<b>Other (%)</b>																	
Helium	0.0184 U	<b>0.0157</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.02 U	<b>0.0161</b>	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 2/2/2006	OU2SG08 6/15/2006	OU2SG08 9/8/2006	OU2SG08 2/21/2007	OU2SG08 5/24/2007	OU2SG08 7/25/2007	OU2SG08 9/12/2007	OU2SG08 12/19/2007	OU2SG08 3/27/2008	OU2SG08 6/18/2008	OU2SG08 9/16/2008	OU2SG08 12/23/2008	OU2SG09 5/25/2005	OU2SG09 8/31/2005	OU2SG09 2/2/2006	OU2SG09 6/15/2006	OU2SG09 9/8/2006	
<b>Other VOCs Continued (ug/m3)</b>																		
Octane, n-	NA	NA	NA	<b>0.61 J</b>	1.9 U	2.4 U	2.3 U	0.93 U	0.93 U	<b>2.8</b>	<b>0.51 J</b>	0.93 U	NA	NA	NA	NA	NA	
Pentane	NA	NA	NA	<b>0.51 J</b>	1.2 U	<b>0.76 J</b>	1.5 U	0.59 U	<b>0.79</b>	0.59 U	0.59 U	0.59 U	NA	NA	NA	NA	NA	
Propanol, 2-	6.9 U	34.4 U	7.1 U	<b>1.8</b>	<b>7.2</b>	<b>2.6 J</b>	<b>1.7</b>	0.49 U	<b>0.39 J</b>	1.2 UJ	0.49 U	0.49 U	<b>8.8 J</b>	<b>786.5 EJ</b>	7.4 U	32 U	7.9 U	
Propylbenzene, n-	3.4 U	17.7 U	<b>8.4</b>	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.4 U	<b>5.4</b>	3.7 U	15.7 U	<b>7.4</b>	
Styrene	3 U	15.3 U	3.1 U	1.8 U	<b>4</b>	2.2 U	2.1 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	3 U	<b>4</b>	3.2 U	13.6 U	3.4 U	
t-Butyl alcohol	NA	NA	NA	1.3 U	1.2 U	<b>1.9 J</b>	<b>1.2 J</b>	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	NA	NA	NA	NA	NA	
Tetrachloroethane, 1,1,2,2-	4.8 U	24.7 U	4.9 U	3.0 U	2.8 U	3.5 U	3.4 U	1.4 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	
Tetrachloroethene	4.7 U	24.4 U	<b>18.3</b>	2.9 U	<b>3.5</b>	<b>2.2 J</b>	<b>1.0 J</b>	1.4 U	1.4 U	<b>0.68 J</b>	<b>0.68 J</b>	1.4 U	<b>10.2</b>	<b>29.8</b>	<b>5.2</b>	<b>29.2</b>	<b>14.9</b>	
Tetrahydrofuran	2.1 U	10.6 U	2.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.1 U	<b>7.1</b>	2.2 U	9.4 U	2.4 U	
Tetramethylbenzene, 1,2,4,5-	NA	NA	NA	2.4 U	11 U	<b>3.2 J</b>	34 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	NA	NA	NA	NA	NA	
Thiophene	NA	NA	NA	1.5 U	1.4 U	1.8 U	1.7 UJ	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	NA	NA	NA	NA	NA	
Trans-1,2-dichloroethene	2.8 U	14.3 U	2.9 U	1.7 U	1.6 U	2 U	2.0 U	0.79 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	
Trichloro-1,2,2-trifluoroethane, 1,1,2-	5.4 U	27.6 U	5.5 U	3.3 U	3.1 U	3.9 U	3.8 U	<b>0.46 J</b>	1.5 U	<b>0.69 J</b>	<b>0.61 J</b>	1.5 U	5.4 U	6.1 U	5.8 U	24.5 U	6.1 U	
Trichlorobenzene, 1,2,4-	20.8 U	103.9 U	21.5 U	3.2 UJ	3 U	3.8 U	3.7 U	1.5 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	
Trichloroethane, 1,1,1-	3.8 U	19.6 U	3.9 U	2.4 U	2.2 UJ	2.8 U	2.7 U	1.1 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	
Trichloroethane, 1,1,2-	3.8 U	19.6 U	3.9 U	2.4 U	2.2 U	2.8 U	2.7 U	1.1 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	
Trichloroethene	3.8 U	19.3 U	3.9 U	2.3 U	2.2 U	2.7 U	2.7 U	1.1 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	
Trichlorofluoromethane	3.9 U	20.2 U	4 U	<b>1.3 J</b>	<b>1.7 J</b>	<b>1.5 J</b>	<b>1.1 J</b>	<b>1.1 J</b>	<b>1.5</b>	<b>1.4</b>	<b>1 J</b>	3.9 U	4.4 U	4.3 U	18 U	4.5 U		
Trimethylbenzene, 1,2,3-	NA	NA	NA	<b>1.3 J</b>	2 U	<b>1 J</b>	2.5 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	NA	NA	NA	NA	NA	
Trimethylbenzene, 1,2,4-	3.4 U	17.7 U	<b>38.8</b>	<b>2.6</b>	<b>3.5 J</b>	<b>0.72 J</b>	2.5 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	3.4 U	<b>30</b>	3.7 U	15.7 U	<b>34.9</b>	
Trimethylbenzene, 1,3,5-	3.4 UJ	17.7 U	<b>9.8</b>	<b>0.75 J</b>	2 U	2.5 U	2.5 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	3.4 U	<b>10.8</b>	3.7 UJ	15.7 U	<b>8.8</b>	
Trimethylpentane, 2,2,4-	<b>214.9</b>	<b>4391.7</b>	<b>934.4</b>	<b>0.51 J</b>	1.9 U	2.4 U	2.3 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	3.3 U	<b>16.8</b>	<b>387.8</b>	<b>4017.9</b>	<b>887.7</b>	
Undecane, n-	NA	NA	NA	2.8 U	<b>4.6</b>	3.2 U	3.2 U	<b>0.64 J</b>	<b>0.52 J</b>	1.3 U	<b>1.0 J</b>	1.3 U	NA	NA	NA	NA	NA	
Vinyl bromide	NA	NA	NA	1.9 U	1.8 U	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	
Vinyl chloride	1.8 U	9.2 U	1.8 U	1.1 U	1 U	1.3 U	1.3 U	0.51 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	
<b>Other (%)</b>																		
Helium	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0182 U	0.0171 U	<b>0.0182</b>	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:	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	OU2SG09 12/23/2008	OU2SG10 5/25/2005	OU2SG10 8/31/2005	OU2SG10 2/2/2006	OU2SG10 6/15/2006	OU2SG10 9/8/2006	OU2SG10 2/22/2007	OU2SG10 6/14/2007
<b>Other VOCs Continued (ug/m3)</b>																	
Octane, n-	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	0.93 U	NA	NA	NA	NA	NA	1.4 J	4.4
Pentane	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	0.45 J	NA	NA	NA	NA	NA	4.1	2.4 U
Propanol, 2-	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	0.78	8.4 U	8.4 U	6.9 U	76.2	7.1 U	3.0	18
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.1 U	6.4	3.4 U	26.5 U	7.4	NA	NA
Styrene	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	0.85 U	3.6 U	3.6 U	3 U	23 U	3.1 U	1.9 U	3.4 U
t-Butyl alcohol	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	0.61 U	NA	NA	NA	NA	NA	1.4 U	2.4 U
Tetrachloroethane, 1,1,2,2-	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	1.4 U	5.8 U	5.8 U	4.8 U	37.1 U	5 U	3.1 U	5.5 U
Tetrachloroethene	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	1.4 U	41.4	6.8	7.5	36.6 U	17	3.1 U	12
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5 U	2.5 U	2.1 U	15.9 U	2.8	NA	NA
Tetramethylbenzene, 1,2,4,5-	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	1.1 U	NA	NA	NA	NA	NA	2.5 U	4.4 U
Thiophene	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	0.69 U	NA	NA	NA	NA	NA	1.6 U	2.8 U
Trans-1,2-dichloroethene	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	0.79 U	3.3 U	3.3 U	2.8 U	21.4 U	2.9 U	1.8 U	3.2 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	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	0.54 J	6.4 U	6.4 U	5.4 U	41.4 U	5.6 U	3.5 U	6.1 U
Trichlorobenzene, 1,2,4-	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	1.5 U	25.2 U	25.2 U	20.8 U	163.3 U	21.5 UJ	3.4 UJ	5.9 U
Trichloroethane, 1,1,1-	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	1.1 U	4.6 U	4.6 U	3.8 U	29.5 U	4 U	2.5 U	4.4 U
Trichloroethane, 1,1,2-	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	1.1 U	4.6 U	4.6 U	3.8 U	29.5 U	4 U	2.5 U	4.4 U
Trichloroethene	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	1.1 U	4.5 U	4.5 U	3.8 U	29 U	3.9 U	2.4 U	4.3 U
Trichlorofluoromethane	1.3 J	1.3 U	2.3 U	1.3 J	1.5 J	0.90 J	1.2	1.3	1.4	1.1 J	4.7 U	16.3	3.9 U	30.3 U	14.6	1.6 J	9.4
Trimethylbenzene, 1,2,3-	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	0.98 U	NA	NA	NA	NA	NA	1.3 J	3.9 U
Trimethylbenzene, 1,2,4-	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	0.98 U	4.1 U	34.4	3.4 U	26.5 U	28 J	2.8	5.5
Trimethylbenzene, 1,3,5-	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	0.98 U	4.1 U	11.8	3.4 UJ	26.5 U	8.4	0.78 J	2.1 J
Trimethylpentane, 2,2,4-	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	0.93 U	3.9 U	7.9	794.2	6540.8	841	3.0 J	2.5 J
Undecane, n-	0.87 J	1.4 U	5.8	5.9	2.8 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	NA	NA	NA	NA	NA	0.87 J	5.1 U
Vinyl bromide	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	0.87 U	NA	NA	NA	NA	NA	2.0 U	3.5 U
Vinyl chloride	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	0.51 U	2.1 U	2.1 U	1.8 U	13.8 U	1.9 U	1.2 U	2 U
<b>Other (%)</b>																	
Helium	NA	NA	NA	NA	NA	NA	NA	0.02 U	0.015 U	0.0248	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:	OU2SG10 7/25/2007	OU2SG10 9/19/2007	OU2SG10 12/19/2007	OU2SG10 3/27/2008	OU2SG10 6/23/2008	OU2SG10 9/22/2008	OU2SG10 12/29/2008	OU2SG11 2/21/2007	OU2SG11 6/14/2007	OU2SG11 9/12/2007	OU2SG11 12/19/2007	OU2SG11 4/3/2008	OU2SG11 6/19/2008	Duplicate of OU2SG11 6/19/2008	OU2SG11 8/13/2008	OU2SG11 9/22/2008	OU2SG11 9/24/2008
<b>Other VOCs Continued (ug/m3)</b>																	
Octane, n-	2.2 U	2.1 U	0.93 U	0.93 U	<b>220</b>	<b>0.37 J</b>	0.93 U	<b>4.8</b>	<b>2.6 J</b>	<b>0.86 J</b>	<b>0.56 J</b>	0.93 U	<b>1.5</b>	<b>0.89 J</b>	<b>0.75 J</b>	<b>0.37 J</b>	0.93 U
Pentane	1.4 U	1.3 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	<b>2140</b>	<b>8.2</b>	1.4 U	0.59 U	<b>1.4</b>	<b>0.65</b>	<b>0.44 J</b>	<b>0.27 J</b>	0.59 U	0.59 U
Propanol, 2-	<b>20 J</b>	<b>17</b>	0.49 U	1.2 UJ	<b>11 J</b>	<b>5.8 J</b>	0.49 UJ	<b>3.0</b>	<b>2.6 J</b>	<b>1.5</b>	<b>1.6 J</b>	<b>0.48 J</b>	<b>0.49 J</b>	<b>0.47 J</b>	0.49 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	2 U	1.9 U	0.85 U	0.85 U	<b>0.34 J</b>	0.85 U	0.85 U	1.8 U	3.4 U	<b>0.59 J</b>	<b>0.30 J</b>	<b>0.40 J</b>	<b>0.38 J</b>	<b>0.43 J</b>	0.85 U	0.85 U	0.85 U
t-Butyl alcohol	<b>0.87 J</b>	<b>0.69 J</b>	0.61 U	0.61 U	<b>1.4</b>	0.61 U	0.61 U	1.3 U	2.4 U	<b>1.0 J</b>	<b>0.39 J</b>	<b>0.30 J</b>	0.61 U	0.61 U	0.61 UJ	0.61 U	0.61 U
Tetrachloroethane, 1,1,2,2-	3.2 U	3.1 U	1.4 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	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	<b>14 J</b>	<b>8.2</b>	<b>1.6</b>	<b>0.94 J</b>	<b>5.0</b>	<b>5.1</b>	<b>0.90 J</b>	<b>14</b>	<b>11</b>	<b>1.6 J</b>	1.4 U	1.4 U	<b>0.95 J</b>	<b>1.5</b>	<b>0.81 J</b>	<b>0.54 J</b>	<b>0.50 J</b>
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	<b>7.3 J</b>	<b>2.1 J</b>	1.1 U	1.1 U	<b>2.4 J</b>	1.1 U	1.1 U	2.3 U	<b>4.3 J</b>	<b>6.1 J</b>	<b>3.3</b>	<b>3.2</b>	<b>16 J</b>	<b>17 J</b>	<b>7.2</b>	<b>1.6</b>	<b>1.8</b>
Thiophene	1.6 UJ	1.6 U	0.69 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	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	1.9 U	1.8 U	0.79 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	0.79 U	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	3.6 U	3.5 U	1.5 U	<b>0.39 J</b>	<b>0.69 J</b>	<b>0.61 J</b>	<b>0.48 J</b>	3.2 U	6 U	3.5 U	1.5 U	<b>0.82 J</b>	1.5 U	<b>0.46 J</b>	<b>0.54 J</b>	<b>0.54 J</b>	<b>0.56 J</b>
Trichlorobenzene, 1,2,4-	3.5 U	3.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 UJ	3.1 UJ	5.8 U	3.4 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-	<b>1.4 J</b>	<b>1.7 J</b>	1.1 U	<b>0.32 J</b>	<b>1.5</b>	<b>1.5</b>	<b>0.43 J</b>	2.3 U	4.3 U	2.5 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-	2.6 U	2.5 U	1.1 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	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	<b>0.66 J</b>	<b>0.98 J</b>	1.1 U	1.1 U	<b>0.48 J</b>	<b>0.38 J</b>	1.1 U	2.3 U	4.2 U	2.5 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	<b>12 J</b>	<b>11</b>	<b>2.9</b>	<b>1.5</b>	<b>14</b>	<b>12</b>	<b>2.7</b>	<b>1.1 J</b>	4.4 U	<b>1.3 J</b>	1.3 U	<b>1.7</b>	<b>1.0 J</b>	<b>1.5</b>	<b>1.2</b>	<b>1.3</b>	<b>1.2</b>
Trimethylbenzene, 1,2,3-	<b>4 J</b>	<b>1.2 J</b>	0.98 U	0.98 U	<b>2.6</b>	0.98 U	0.98 U	<b>2.0 J</b>	3.9 U	1.7 J	<b>0.54 J</b>	<b>1.6</b>	<b>1.9</b>	<b>2.0</b>	<b>0.39 J</b>	0.98 U	0.98 U
Trimethylbenzene, 1,2,4-	<b>11 J</b>	<b>2.3</b>	<b>0.25 J</b>	0.98 U	<b>0.69 J</b>	0.98 U	0.98 U	<b>4.2</b>	<b>3.4 J</b>	<b>3.1</b>	<b>1.3</b>	<b>0.53 J</b>	<b>0.29 J</b>	<b>0.39 J</b>	<b>0.44 J</b>	0.98 U	0.98 U
Trimethylbenzene, 1,3,5-	<b>3.6 J</b>	<b>1.2 J</b>	0.98 U	0.98 U	<b>1.2</b>	0.98 U	0.98 U	<b>1.3 J</b>	3.9 U	<b>1.0 J</b>	<b>0.39 J</b>	<b>0.81 J</b>	<b>1.4</b>	<b>1.5</b>	0.98 U	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	2.2 U	2.1 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	2.0 U	<b>4.2</b>	2.2 U	0.93 U	0.93 UJ	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Undecane, n-	3 U	2.9 U	1.3 U	1.3 U	<b>7.8</b>	<b>6.1</b>	1.3 U	<b>1.7 J</b>	5 U	3.0 U	1.3 U	<b>4.8</b>	<b>18 J</b>	1.3 UJ	1.3 UJ	1.3 U	1.3 UJ
Vinyl bromide	2.1 U	2.0 U	0.87 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	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	1.2 U	1.2 U	0.51 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	0.51 U	0.51 U	0.51 U	0.51 U
<b>Other (%)</b>																	
Helium	NA	NA	NA	NA	0.0187 U	0.0227 U	<b>0.0171</b>	NA	NA	NA	NA	NA	0.0168 U	0.0178 U	0.0157 U	0.023 U	0.0166 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: Sample Date:	OU2SG11 12/29/2008	Duplicate of OU2SG11 12/29/2008	OU2SG12 2/21/2007	OU2SG12 9/18/2007	OU2SG12 12/19/2007	OU2SG12 3/27/2008	OU2SG12 6/19/2008	OU2SG12 12/30/2008	Duplicate of OU2SG12 12/30/2008	OU2SG13 3/30/2007	OU2SG13 5/24/2007	OU2SG13 7/25/2007	OU2SG13 9/20/2007	OU2SG13 12/19/2007	OU2SG13 4/3/2008	OU2SG13 6/24/2008	OU2SG13 9/16/2008
<b>Other VOCs Continued (ug/m3)</b>																	
Octane, n-	0.93 U	0.93 U	2.2 U	2.2 U	0.93 U	<b>4.5</b>	<b>1.6</b>	0.93 U	<b>0.27 J</b>	<b>1.7 J</b>	1.9 U	<b>1.3 J</b>	1.9 U	<b>0.84 J</b>	<b>12</b>	<b>260</b>	<b>0.70 J</b>
Pentane	0.59 U	<b>1.1</b>	1.4 U	1.4 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	<b>1.6</b>	1.2 U	<b>6.1</b>	<b>1.1 J</b>	<b>0.41 J</b>	<b>0.31 J</b>	<b>0.95 J</b>	0.59 U
Propanol, 2-	0.49 U	1.2 U	<b>0.86 J</b>	<b>0.81 J</b>	0.49 U	<b>0.95 J</b>	<b>0.56 J</b>	0.49 UJ	0.49 UJ	<b>1.4 J</b>	<b>2 J</b>	<b>4.8</b>	<b>1.9</b>	<b>2.4 J</b>	<b>0.63 J</b>	2.3 UJ	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	0.85 U	2.0 U	2.0 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	1.7 U	1.7 U	<b>1.2 J</b>	1.7 U	<b>0.34 J</b>	<b>1.4</b>	<b>3.5</b>	<b>0.89</b>
t-Butyl alcohol	0.61 U	0.61 U	1.4 U	1.4 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	1.2 UJ	1.2 U	<b>5.1</b>	<b>3.2</b>	0.61 U	<b>0.36 J</b>	<b>2.7</b>	0.61 U
Tetrachloroethane, 1,1,2,2-	1.4 U	1.4 U	3.2 U	3.2 U	1.4 U	1.4 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
Tetrachloroethene	1.4 U	1.4 U	3.2 U	<b>2.6 J</b>	<b>0.41 J</b>	1.4 U	1.4 U	<b>0.52 J</b>	<b>0.49 J</b>	<b>5.0</b>	2.7 U	3.4 U	<b>1.6 J</b>	<b>1.0 J</b>	<b>2.5</b>	<b>5.2</b>	<b>4.7</b>
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	1.1 U	2.6 U	<b>5.8 J</b>	<b>3.5</b>	1.1 U	<b>0.44 J</b>	1.1 U	1.1 U	27 U	11 U	14 U	<b>7.0</b>	<b>0.27 J</b>	<b>2.0</b>	<b>3.7 J</b>	<b>17</b>
Thiophene	0.69 U	0.69 U	1.6 U	1.6 UJ	0.69 U	0.69 U	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
Trans-1,2-dichloroethene	0.79 U	0.79 U	1.8 U	1.9 U	0.79 U	0.79 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
Trichloro-1,2,2-trifluoroethane, 1,1,2-	<b>0.45 J</b>	1.5 U	3.6 U	3.6 U	1.5 U	<b>0.51 J</b>	<b>0.54 J</b>	<b>1.0 J</b>	<b>0.60 J</b>	3.0 U	3.1 U	3.8 U	<b>0.93 J</b>	1.5 U	<b>0.88 J</b>	2.9 U	<b>0.54 J</b>
Trichlorobenzene, 1,2,4-	1.5 UJ	1.5 U	3.5 UJ	3.5 U	1.5 U	1.5 U	1.5 U	1.5 UJ	1.5 UJ	2.9 U	3 U	3.7 U	3.0 U	1.5 U	1.5 U	2.8 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	1.1 U	2.5 U	2.6 U	1.1 U	1.1 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
Trichloroethane, 1,1,2-	1.1 U	1.1 U	2.5 U	2.6 U	1.1 U	1.1 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
Trichloroethene	1.1 U	1.1 U	2.5 U	2.5 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	2.1 U	2.2 U	2.7 U	2.2 U	<b>0.32 J</b>	1.1 U	2.0 U	1.1 U
Trichlorofluoromethane	<b>1.2</b>	<b>0.56 J</b>	<b>1.6 J</b>	<b>1.4 J</b>	<b>1.5</b>	<b>1.2</b>	<b>1.4</b>	<b>81</b>	<b>63</b>	<b>1.3 J</b>	2.3 U	<b>1.1 J</b>	<b>1.6 J</b>	<b>1.4</b>	<b>1.5</b>	<b>1.6 J</b>	<b>1.5</b>
Trimethylbenzene, 1,2,3-	0.98 U	0.98 U	<b>2.1 J</b>	<b>2.1 J</b>	<b>0.69 J</b>	<b>0.48 J</b>	<b>0.34 J</b>	<b>0.29 J</b>	0.98 U	2.0 U	2 U	<b>0.97 J</b>	<b>5.9</b>	<b>0.64 J</b>	<b>4.8</b>	<b>10</b>	<b>4.9</b>
Trimethylbenzene, 1,2,4-	0.98 U	0.98 U	<b>3.0</b>	<b>0.92 J</b>	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	2.0 UJ	2 U	2.4 U	<b>6.9</b>	<b>2.4</b>	<b>1.6</b>	<b>3.7</b>	<b>4.6</b>
Trimethylbenzene, 1,3,5-	0.98 U	0.98 U	<b>0.80 J</b>	<b>1.5 J</b>	<b>0.29 J</b>	0.98 U	0.98 U	0.98 U	0.98 U	<b>1.6 J</b>	2 U	2.4 U	<b>3.2</b>	<b>0.79 J</b>	<b>1.5</b>	<b>3.8</b>	<b>3.5</b>
Trimethylpentane, 2,2,4-	0.93 U	0.93 U	2.2 U	2.2 U	0.93 U	0.93 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
Undecane, n-	1.3 UJ	<b>2.7 J</b>	<b>1.6 J</b>	3.0 U	1.3 U	<b>0.78 J</b>	<b>1.0 J</b>	<b>0.43 J</b>	<b>0.61 J</b>	<b>3.7 J</b>	<b>1.7 J</b>	<b>5.2</b>	<b>2.5 J</b>	<b>0.83 J</b>	<b>1.8</b>	<b>8.1</b>	1.3 UJ
Vinyl bromide	0.87 U	0.87 U	2.0 U	2.0 U	0.87 U	0.87 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
Vinyl chloride	0.51 U	0.51 U	1.2 U	1.2 U	0.51 U	0.51 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
<b>Other (%)</b>																	
Helium	<b>0.0193</b>	<b>1.39</b>	NA	NA	NA	NA	0.0159 U	<b>0.0228</b>	<b>0.0242</b>	NA	NA	NA	NA	NA	NA	NA	<b>0.063</b>



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:	OU2SG13 12/23/2008	OU2SG14 3/30/2007	Duplicate of OU2SG14 3/30/2007	OU2SG14 6/14/2007	OU2SG14 12/19/2007	OU2SG14 4/3/2008	OU2SG14 6/19/2008	OU2SG14 9/18/2008	OU2-SG14 12/29/2008	OU2SG15 4/3/2008	OU2SG15 6/19/2008	OU2SG15 9/18/2008	Duplicate of OU2SG15 9/18/2008	OU2SG15 12/29/2008	OU2SG16 4/3/2008	OU2SG16 6/24/2008	OU2SG16 9/18/2008	
<b>Other VOCs Continued (ug/m3)</b>																		
Octane, n-	0.93 U	1.8 U	1.8 U	1.8 U	0.93 U	0.93 U	<b>0.37 J</b>	0.93 U	0.93 U	<b>2.7</b>	<b>10</b>	<b>130</b>	<b>140</b>	0.93 U	<b>1.0</b>	<b>230</b>	<b>410</b>	
Pentane	0.59 U	1.1 U	1.1 U	1.2 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	<b>0.39 J</b>	<b>0.21 J</b>	0.59 U	0.59 U	0.59 U	<b>0.47 J</b>	<b>0.32 J</b>	0.59 U	
Propanol, 2-	0.49 U	<b>1.7 J</b>	<b>3.2 J</b>	4.8 U	0.49 U	<b>0.29 J</b>	<b>0.56 J</b>	0.49 U	1.2 U	<b>1.0 J</b>	<b>0.81 J</b>	0.49 U	0.49 U	1.2 U	<b>0.53 J</b>	1.7 UJ	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	<b>17 J</b>	<b>25 J</b>	1.7 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	<b>0.36 J</b>	0.85 U	0.85 U	0.85 U	<b>0.35 J</b>	0.85 U	<b>0.47 J</b>	<b>0.43 J</b>	
t-Butyl alcohol	<b>0.71 J</b>	1.1 UJ	1.2 UJ	1.2 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	<b>0.68</b>	0.61 U	0.61 U	0.61 U	0.61 U	<b>0.28 J</b>	<b>1.8</b>	<b>0.48 J</b>	
Tetrachloroethane, 1,1,2,2-	1.4 U	2.6 U	2.6 U	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	
Tetrachloroethene	<b>1.4</b>	<b>7.9</b>	<b>8.0</b>	<b>4</b>	<b>0.54 J</b>	<b>0.89 J</b>	<b>1.8</b>	<b>1.4</b>	1.4 U	<b>6.4</b>	<b>5.6</b>	<b>2.1</b>	<b>2.2</b>	<b>2.0</b>	<b>11</b>	<b>6.5</b>	<b>4.2</b>	
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Tetramethylbenzene, 1,2,4,5-	<b>0.82 J</b>	26 U	26 U	2.2 U	1.1 U	<b>0.29 J</b>	<b>1.5 J</b>	<b>1.2</b>	1.1 U	<b>1.1</b>	<b>1.0 J</b>	<b>1.0 J</b>	<b>1.0 J</b>	<b>1.0 J</b>	<b>0.81 J</b>	<b>3.6 J</b>	<b>1.6</b>	
Thiophene	0.69 U	1.3 U	1.3 U	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	
Trans-1,2-dichloroethene	0.79 U	1.5 U	1.5 U	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	
Trichloro-1,2,2-trifluoroethane, 1,1,2-	<b>0.42 J</b>	2.9 U	3.0 U	3 U	1.5 U	<b>0.52 J</b>	<b>0.46 J</b>	<b>0.61 J</b>	<b>0.60 J</b>	<b>0.55 J</b>	1.5 U	<b>0.61 J</b>	<b>0.54 J</b>	<b>0.66 J</b>	1.5 J	<b>0.61 J</b>	<b>0.46 J</b>	
Trichlorobenzene, 1,2,4-	1.5 U	2.8 UJ	2.9 UJ	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	
Trichloroethane, 1,1,1-	1.1 U	2.0 U	2.1 U	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	
Trichloroethane, 1,1,2-	1.1 U	2.0 U	2.1 U	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	
Trichloroethene	1.1 U	2.0 U	2.1 U	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	1.1 U	1.1 U	<b>5.2</b>	
Trichlorofluoromethane	<b>1.2</b>	<b>1.4 J</b>	<b>1.8 J</b>	<b>1.2 J</b>	<b>1.7</b>	<b>1.1</b>	<b>1.2</b>	<b>1.4</b>	<b>1.6</b>	<b>1.2</b>	<b>1.9</b>	<b>1.1</b>	<b>1.2</b>	<b>1.4</b>	<b>1.4</b>	<b>2.2</b>	<b>1.7</b>	
Trimethylbenzene, 1,2,3-	0.98 U	<b>1.9</b>	1.9 U	1.9 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	<b>1.8</b>	<b>0.88 J</b>	<b>0.49 J</b>	<b>0.44 J</b>	<b>0.78 J</b>	<b>3.8</b>	<b>3.6</b>	<b>0.69 J</b>	
Trimethylbenzene, 1,2,4-	0.98 U	1.8 U	1.9 U	1.9 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	<b>0.53 J</b>	0.98 U	<b>0.93 J</b>	<b>0.93 J</b>	0.98 U	<b>0.46 J</b>	<b>0.88 J</b>	<b>1.5</b>	
Trimethylbenzene, 1,3,5-	0.98 U	1.8 UJ	<b>5.2 J</b>	1.9 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	<b>1.3</b>	<b>0.54 J</b>	0.98 U	<b>0.25 J</b>	<b>0.33 J</b>	<b>1.7</b>	<b>1.8</b>	<b>0.39 J</b>	
Trimethylpentane, 2,2,4-	0.93 U	1.8 UJ	1.8 UJ	1.8 U	0.93 U	0.93 UJ	0.93 U	0.93 U	0.93 U	<b>0.36 J</b>	0.93 U	0.93 U	0.93 U	0.93 U	0.93 UJ	0.93 U	<b>1.4</b>	
Undecane, n-	1.3 U	<b>2.2 J</b>	2.5 UJ	<b>2.5 J</b>	<b>0.96 J</b>	<b>0.45 J</b>	1.3 U	<b>0.57 J</b>	1.3 U	<b>2.9</b>	<b>10</b>	1.3 UJ	1.3 UJ	1.3 U	<b>0.80 J</b>	<b>16</b>	1.3 UJ	
Vinyl bromide	0.87 U	1.6 U	1.7 U	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	
Vinyl chloride	0.51 U	0.96 U	0.99 U	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	
<b>Other (%)</b>																		
Helium	<b>0.13</b>	NA	NA	NA	NA	NA	0.0167 U	<b>0.021</b>	<b>0.0221</b>	NA	0.0172 U	0.016 U	0.018 U	<b>0.0231</b>	NA	NA	0.0171 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: Sample Date:	OU2SG16 12/29/2008	OU2SG17 4/3/2008	OU2SG17 6/20/2008	OU2SG17 9/22/2008	Duplicate of OU2SG17 9/22/2008	OU2SG17 12/29/2008	OU2SG18 4/3/2008	OU2SG18 6/19/2008	OU2SG18 9/18/2008	OU2SG18 12/29/2008	Duplicate of OU2SG18 12/29/2008	OU2SG22 3/27/2008	OU2SG22 6/19/2008	OU2SG22 9/23/2008	OU2SG22 12/30/2008	OU2SG23 3/27/2008	OU2SG23 6/19/2008
<b>Other VOCs Continued (ug/m3)</b>																	
Octane, n-	0.93 U	<b>4.3</b>	<b>4.4</b>	<b>16</b>	<b>14</b>	<b>0.31 J</b>	0.93 U	<b>0.79 J</b>	<b>250</b>	0.93 U	0.93 U	<b>3.2</b>	<b>11</b>	<b>0.42 J</b>	0.93 U	<b>1.6</b>	<b>0.75 J</b>
Pentane	<b>1.4</b>	<b>0.75</b>	<b>0.65</b>	0.59 U	0.59 U	<b>2.4</b>	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	<b>0.51 J</b>	0.59 U	<b>0.56 J</b>	0.59 U	<b>0.20 J</b>	0.59 U
Propanol, 2-	0.91 UJ	<b>1.5</b>	<b>0.86 J</b>	0.49 U	0.49 U	1.2 UJ	<b>0.53 J</b>	<b>0.98 J</b>	0.49 U	0.60 UJ	0.56 UJ	<b>1.6</b>	<b>0.59 J</b>	0.49 U	<b>1.1 J</b>	<b>0.96 J</b>	1.2 UJ
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U	<b>0.21 J</b>	0.85 U	0.85 U	0.85 U	<b>0.30 J</b>	<b>3.6</b>	0.85 U	0.85 U	0.85 U
t-Butyl alcohol	0.61 U	<b>0.94</b>	0.61 U	0.61 U	0.61 U	0.61 U	<b>0.38 J</b>	0.61 U	<b>0.48 J</b>	0.61 U	0.61 U	<b>0.39 J</b>	0.61 U	0.61 U	0.61 U	<b>0.77</b>	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	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	<b>4.2</b>	<b>3.9</b>	<b>1.8</b>	<b>1.0 J</b>	<b>1.0 J</b>	<b>0.40 J</b>	<b>1.2 J</b>	<b>1.4</b>	<b>1.2 J</b>	1.4 U	1.4 U	<b>1.4</b>	<b>5.4</b>	<b>14</b>	<b>1.0 J</b>	<b>0.88 J</b>	<b>1.4</b>
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	<b>0.72 J</b>	1.1 U	1.1 U	<b>0.44 J</b>	<b>0.27 J</b>	1.1 U	1.1 U	1.1 U	<b>0.66 J</b>	1.1 U	1.1 U	1.1 U	<b>0.66 J</b>	<b>3.0</b>	1.1 U	<b>0.45 J</b>	<b>0.27 J</b>
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	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	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-	<b>0.44 J</b>	<b>0.74 J</b>	<b>0.54 J</b>	<b>0.61 J</b>	<b>0.61 J</b>	<b>0.58 J</b>	<b>0.80 J</b>	<b>0.61 J</b>	<b>0.61 J</b>	<b>0.80 J</b>	<b>0.59 J</b>	1.5 U	<b>0.61 J</b>	<b>0.54 J</b>	<b>0.70 J</b>	<b>0.48 J</b>	<b>0.54 J</b>
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	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	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-	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	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
Trichlorofluoromethane	<b>1.4</b>	<b>1.9</b>	<b>1.6</b>	<b>1.6</b>	<b>1.6</b>	<b>1.5</b>	<b>1.7</b>	<b>1.6</b>	<b>1.5</b>	<b>1.5</b>	<b>1.7</b>	<b>1.1 J</b>	<b>1.4</b>	<b>1.2</b>	<b>2.4</b>	<b>1.0 J</b>	<b>1.3</b>
Trimethylbenzene, 1,2,3-	<b>1.6</b>	<b>0.66 J</b>	<b>0.29 J</b>	0.98 U	0.98 U	<b>0.33 J</b>	0.98 U	<b>0.59 J</b>	<b>0.44 J</b>	0.98 U	0.98 U	<b>0.72 J</b>	<b>0.74 J</b>	<b>1.2</b>	<b>0.31 J</b>	<b>0.98</b>	<b>0.49 J</b>
Trimethylbenzene, 1,2,4-	<b>0.72 J</b>	0.98 U	0.98 U	<b>0.39 J</b>	<b>0.39 J</b>	0.98 U	0.98 U	0.98 U	<b>0.98</b>	0.98 U	0.98 U	0.98 U	0.98 U	<b>3.3</b>	0.98 U	<b>0.32 J</b>	0.98 U
Trimethylbenzene, 1,3,5-	<b>0.65 J</b>	<b>0.38 J</b>	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	<b>0.39 J</b>	<b>0.25 J</b>	0.98 U	0.98 U	<b>0.36 J</b>	<b>0.49 J</b>	<b>0.98</b>	0.98 U	<b>0.38 J</b>	<b>0.29 J</b>
Trimethylpentane, 2,2,4-	0.93 U	0.93 UJ	0.93 U	0.93 U	0.93 U	0.93 U	0.93 UJ	0.93 U	<b>0.84 J</b>	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	<b>0.37 J</b>	0.93 U
Undecane, n-	1.3 U	<b>0.92 J</b>	<b>2.1</b>	1.3 UJ	1.3 UJ	1.3 U	1.3 U	<b>0.51 J</b>	1.3 UJ	<b>0.38 J</b>	1.3 U	<b>1.0 J</b>	<b>1.2 J</b>	1.3 UJ	1.3 U	<b>0.89 J</b>	<b>0.57 J</b>
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	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	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
<b>Other (%)</b>																	
Helium	<b>0.0158</b>	NA	0.0316 U	0.0181 U	0.0215 U	<b>0.0196</b>	NA	0.0182 U	0.0162 U	<b>0.0163</b>	<b>0.0166</b>	NA	0.0185 U	0.0182 U	<b>0.0171</b>	NA	0.0157 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: Sample Date:	Duplicate of OU2SG23 6/19/2008	OU2SG24 4/3/2008	OU2SG24 6/25/2008	Duplicate of OU2SG24 6/25/2008	OU2SG24 8/13/2008	OU2SG24a 9/24/2008	OU2SG24 9/24/2008	OU2SG24 12/30/2008	OU2SG25 8/13/2008	OU2SG25 9/24/2008	Duplicate of OU2SG25 9/24/2008	OU2SG25 12/30/2008	OU2SG26 8/13/2008	Duplicate of OU2SG26 8/13/2008	OU2SG26 9/23/2008	OU2SG26 12/30/2008	OU2SG29 8/13/2008
<b>Other VOCs Continued (ug/m3)</b>																	
Octane, n-	0.70 J	9.7	1.6	1.5	80	42	26	0.93 U	210	24	27	0.93 U	69	62	93	30	44 J
Pentane	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	2.9	0.74	0.50 J	0.59 U	0.59 U	0.77 J
Propanol, 2-	1.2 J	1.0 J	1.2 UJ	1.2 UJ	0.66 U	0.49 U	0.49 U	0.85 UJ	6.9 U	1.7 J	2.5 U	0.49 U	0.52 U	0.49 U	0.49 U	0.48 UJ	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	0.85 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	0.23 J	0.85 U	0.85 U	0.21 J	0.77 J	0.85 U
t-Butyl alcohol	0.61 U	0.36 J	1	0.88	0.61 UJ	0.61 U	0.61 U	0.61 U	6.1 UJ	0.61 U	3.0 U	0.61 U	0.61 UJ	0.61 UJ	0.61 U	0.61 UJ	0.61 UJ
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	14 U	1.4 U	6.9 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	2.2	3.3	4.1	3.5	1.0 J	1.6	1.4 J	0.39 J	14 U	0.66 J	6.8 U	1.4 U	6.0	6.0	3.2	2.2	13 J
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	1.1 U	1.1 U	1.1 U	0.33 J	1.1 U	1.1 U	1.1 U	22	5.5	5.0 J	1.1 U	0.38 J	0.38 J	3.6	74	1.1 U
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	6.9 U	0.69 U	3.4 U	0.69 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	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	0.79 U	0.79 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.69 J	0.71 J	0.54 J	0.46 J	0.61 J	0.66 J	0.64 J	0.80 J	15 U	1.5 U	7.7 U	1.5 U	0.92 J	0.92 J	0.77 J	1.0 J	0.54 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	15 U	1.5 U	7.4 U	1.5 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	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	1.6	1.7	0.76 J	0.28 J	1.1 U
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	11 U	1.1 U	5.4 U	1.1 U	1.1 U	1.1 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	11 U	1.1 U	5.4 U	1.1 U	0.27 J	0.27 J	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	1.6	1.3	1.5	1.5	1.5	1.6	1.6	1.9	11 U	1.1 U	5.6 U	0.80 J	2.2	2.2	2.1	1.6	1.5 J
Trimethylbenzene, 1,2,3-	0.44 J	0.38 J	0.49 J	0.44 J	0.98 U	0.98 U	0.98 U	0.28 J	31	3.7	3.7 J	0.35 J	0.25 J	0.25 J	4.6	52	0.98 U
Trimethylbenzene, 1,2,4-	0.98 U	0.98 U	0.98 U	0.98 U	0.34 J	0.32 J	0.27 J	0.98 U	41	4.2	3.9 J	0.98 U	0.49 J	0.54 J	12	110	0.29 J
Trimethylbenzene, 1,3,5-	0.29 J	0.98 U	0.98 U	0.44 J	0.98 U	0.98 U	0.98 U	0.98 U	15	2.6	2.6 J	0.98 U	0.98 U	0.98 U	3.9	130	0.98 U
Trimethylpentane, 2,2,4-	0.93 U	0.93 UJ	0.93 U	0.93 U	0.56 J	0.93 U	0.93 U	0.93 U	50 J	0.93 U	4.7 U	4.8	0.47 J	0.37 J	0.42 J	0.93 U	0.28 J
Undecane, n-	0.38 J	0.49 J	5.7	7.2	1.3 U	1.3 UJ	1.3 UJ	0.61 J	79	1.3 UJ	6.4 UJ	0.58 J	1.3 U	1.3 U	22	160	1.3 U
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	8.7 U	0.87 U	4.4 U	0.87 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	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	0.51 U	0.51 U	0.51 U
<b>Other (%)</b>																	
Helium	0.019 U	NA	0.0174 U	0.0189 U	0.0145 U	0.0156 U	0.0157 U	0.101	0.0164 U	0.0186 U	0.0171 U	0.0179	0.0177 U	0.0175 U	0.0155 U	0.0163	0.0195 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: Sample Date:	OU2SG29 9/23/2008	OU2SG29 12/30/2008	OU2SG30 8/13/2008	OU2SG30 9/23/2008	OU2SG30 12/30/2008	OU2SG38 12/30/2008	OU2SG39 12/30/2008	OU3SG01 9/20/2007	OU3SG01 12/19/2007	OU3SG01 4/3/2008	OU3SG01 6/19/2008	OU3SG01 9/17/2008	OU3SG01 12/30/2008
<b>Other VOCs Continued (ug/m3)</b>													
Octane, n-	140	270	70	7.9 J	0.53 J	0.28 J	1.3	2.1 U	1.3	0.93 U	0.23 J	0.70 J	0.93 U
Pentane	0.59 U	3.0 U	3.0 U	0.59 U	0.59 U	0.59 U	0.59 U	0.52 J	0.83	0.44 J	0.41 J	0.59 U	0.59 U
Propanol, 2-	0.49 U	6.1 U	2.4 U	0.49 U	0.49 U	0.88 UJ	0.49 U	1.6	1.6 J	0.61 J	0.44 J	0.49 U	0.48 UJ
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.21 J	4.3 U	4.3 U	0.85 U	0.85 U	0.85 U	0.85 U	1.9 U	0.26 J	0.41 J	1.9	0.72 J	0.37 J
t-Butyl alcohol	0.70	3.0 U	3.0 UJ	0.61 U	0.61 U	0.61 U	0.61 U	3.0	0.45 J	0.61 U	0.61 U	0.61 U	0.49 J
Tetrachloroethane, 1,1,2,2-	1.4 U	6.9 U	6.9 U	1.4 U	1.4 U	1.4 U	1.4 U	3.0 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Tetrachloroethene	4.5	6.8 U	48	52 J	5.8	0.89 J	0.45 J	0.90 J	0.81 J	1.2 J	4.2	5.2	1.0 J
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	1.2	140 J	5.5 U	1.8 J	3.6	1.1 U	1.2	2.4 U	0.77 J	0.94 J	16 J	14	2.2
Thiophene	0.69 U	3.4 U	3.4 U	0.69 U	0.69 U	0.69 U	0.69 U	1.5 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	4.0 U	4.0 U	0.79 U	0.79 U	0.79 U	0.79 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-	0.61 J	7.7 U	7.7 U	1.0 J	0.62 J	0.64 J	1.0 J	3.4 U	1.5 U	0.76 J	0.61 J	0.46 J	0.77 J
Trichlorobenzene, 1,2,4-	1.5 U	7.4 U	7.4 U	1.5 U	1.5 UJ	1.5 U	1.5 UJ	3.3 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Trichloroethane, 1,1,1-	1.1 U	5.4 U	5.4 U	1.5 J	0.53 J	1.1 U	1.1 U	1.1 J	1.1 U	1.1 U	1.1 U	1.0 J	1.1 U
Trichloroethane, 1,1,2-	1.1 U	5.4 U	5.4 U	1.1 U	1.1 U	1.1 U	1.1 U	2.4 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	1.1 U	5.4 U	5.4 U	1.1 U	1.1 U	1.1 U	1.1 U	2.4 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichlorofluoromethane	3.0	5.6 U	2.5 J	2.6 J	2.7	2.5	11	1.5 J	1.2 U	1.3	1.6	1.3	1.4
Trimethylbenzene, 1,2,3-	2.0	310	4.9 U	2.2 J	6.6	0.48 J	5.0	0.65 J	2.6	3.4	12	5.1	2.0
Trimethylbenzene, 1,2,4-	4.9	240	4.9 U	5.9 J	3.9 J	0.98 U	1.6 J	0.98 J	9.5	0.48 J	0.84 J	5.9	0.63 J
Trimethylbenzene, 1,3,5-	1.9	190	4.9 U	2.0 J	5.1	0.27 J	1.8	2.2 U	2.7	1.1	5.9	2.0	1.2
Trimethylpentane, 2,2,4-	0.61 J	4.7 U	4.7 U	0.93 U	0.93 U	0.93 U	0.93 U	2.1 U	0.93 U	0.93 UJ	0.93 U	0.93 U	0.93 U
Undecane, n-	6.8	740	6.4 U	6.5 J	2.2	0.51 J	4.7	1.4 J	1.3	1.3 U	1.3 U	1.3 UJ	0.40 J
Vinyl bromide	0.87 U	4.4 U	4.4 U	0.87 U	0.87 U	0.87 U	0.87 U	1.9 U	0.87 U	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl chloride	0.51 U	2.6 U	2.6 U	0.51 U	0.51 U	0.51 U	0.51 U	1.1 U	0.51 U	0.51 U	0.51 U	0.51 U	0.51 U
<b>Other (%)</b>													
Helium	0.0142 U	0.0222	0.0189 U	0.0171 U	0.0196	0.0188	0.0196	NA	NA	NA	0.018 U	0.027	0.0188



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:	OZSG01 2/19/2008	OZSG01 3/17/2008	OZSG01 3/21/2008	OZSG01 6/25/2008	OZSG01 12/31/2008	OZSG02 2/19/2008	OZSG02 3/17/2008	OZSG02 6/25/2008	OZSG02 12/31/2008	Duplicate of OZSG02 12/31/2008	OZSG03 2/21/2007	OZSG03 2/19/2008	OZSG03 3/17/2008	OZSG03 3/21/2008	OZSG03 6/25/2008	OZSG03 12/31/2008
<b>Other VOCs Continued (ug/m3)</b>																
Octane, n-	2.8	66	1.2	0.93 U	0.93 U	1.4	80	1.9	0.33 J	0.30 J	0.76 J	0.95	64	0.81 J	4.7 U	0.93 U
Pentane	0.59 U	170	17	1.9	1.7	0.32 J	12	0.38 J	0.81	0.59 U	0.78 J	0.59 U	3.7	0.44 J	64	67
Propanol, 2-	0.49 U	6.0 J	1.2 U	1.9 UJ	0.95 J	0.49 U	5.5 j	1.2 UJ	0.49 UJ	0.49 UJ	1.0	0.49 U	3.8 J	1.2 U	6.1 UJ	0.49 UJ
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	4.3 U	0.85 U	0.43 J	0.29 J	0.85 U	0.27 J	0.85 U	0.85 U	0.85 U	1.7 U	0.85 U	0.34 J	0.85 U	4.3 U	0.85 U
t-Butyl alcohol	0.61 U	3.0 U	0.61 U	0.76	0.61 U	0.61 U	0.61 U	0.39 J	0.61 U	0.61 U	1.2 U	0.61 U	0.61 U	0.61 U	3.0 U	0.61 U
Tetrachloroethane, 1,1,2,2-	1.4 U	6.9 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	2.8 U	1.4 U	1.4 U	1.4 U	6.9 U	1.4 U
Tetrachloroethene	0.95 J	9.8	4.2	57	16	3.9	5.8	5.5	1.2 J	1.1 J	0.96 J	1.0 J	4.4	1.6	12	37
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	0.27 J	5.5 U	1.1 U	1.1 U	1.1 U	0.27 J	0.33 J	1.1 U	1.1 U	1.1 U	2.2 U	1.1 U	1.1 U	1.1 U	5.5 U	1.1 U
Thiophene	0.69 U	3.4 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	1.4 U	0.69 U	0.69 U	0.69 U	3.4 U	0.69 U
Trans-1,2-dichloroethene	0.79 U	4.0 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	1.6 U	0.79 U	0.79 U	0.79 U	4.0 U	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.54 J	7.7 U	1.5 U	1.5 U	0.44 J	0.54 J	0.39 J	1.5 U	1.5 U	1.5 U	3.1 U	0.57 J	0.80 J	0.39 J	7.7 U	0.38 J
Trichlorobenzene, 1,2,4-	1.5 U	7.4 U	1.5 U	1.5 U	1.5 UJ	1.5 U	1.5 U	1.5 U	1.5 UJ	1.5 UJ	3.0 UJ	1.5 U	1.5 U	1.5 U	7.4 U	1.5 UJ
Trichloroethane, 1,1,1-	1.1 U	2.2 J	1.2	14	2.2	1.1 U	0.32 J	7.2	2.1	1.8	2.2 U	1.1 U	0.29 J	1.1 U	6.5	1.8
Trichloroethane, 1,1,2-	1.1 U	5.4 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	2.2 U	1.1 U	1.1 U	1.1 U	5.4 U	1.1 U
Trichloroethene	1.1 U	5.4 U	1.5	0.64 J	1.1 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	1.1 U	5.4 U	1.5
Trichlorofluoromethane	2.2	1.7 J	1.2	4.0	1.6	1.4	1.8	3.0	2.1	2.1	1.9 J	1.1	1.8	1.1 J	3.6 J	1.5
Trimethylbenzene, 1,2,3-	0.84 J	1.8 J	0.98 U	0.98 U	0.98 U	0.69 J	1.5	0.29 J	0.98 U	0.98 U	2.1	0.65 J	2.0	0.98 U	4.9 U	0.98 U
Trimethylbenzene, 1,2,4-	0.34 J	4.9 U	0.98 U	0.98 U	0.98 U	0.98 U	0.53 J	0.98 U	0.98 U	0.98 U	4.2	0.98 U	0.67 J	0.98 U	4.9 U	0.98 U
Trimethylbenzene, 1,3,5-	0.34 J	4.9 U	0.98 U	0.98 U	0.98 U	0.98 U	0.34 J	0.98 U	0.98 U	0.98 U	1.1 J	0.26 J	1.0	0.98 U	4.9 U	0.98 U
Trimethylpentane, 2,2,4-	0.93 U	4.7 U	0.93 U	0.93 U	0.93 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	0.93 U	4.7 U	0.93 U
Undecane, n-	1.0 J	1.7 J	2.0	2.6	1.3 U	0.57 J	1.7	3.2	0.58 J	0.57 J	1.6 J	0.80 J	1.6	1.3 UJ	6.4 U	1.3 U
Vinyl bromide	0.87 U	4.4 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	1.8 U	0.87 U	0.87 U	0.87 U	4.4 U	0.87 U
Vinyl chloride	0.51 U	2.6 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	1.0 U	0.51 U	0.51 U	0.51 U	2.6 U	0.51 U
<b>Other (%)</b>																
Helium	NA	NA	NA	NA	0.0154	NA	NA	NA	0.0161	0.0163	NA	NA	NA	NA	NA	0.0189



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:	OZSG04 2/19/2008	OZSG04 3/17/2008	OZSG04 3/21/2008	OZSG04 6/25/2008	OZSG04 12/31/2008	OZSG05 2/19/2008	OZSG05 3/17/2008	OZSG05 3/21/2008	OZSG05 6/25/2008	OZSG05 12/31/2008
<b>Other VOCs Continued (ug/m3)</b>										
Octane, n-	1.6	60	1.5	4.7 U	0.66 J	2.5	52	0.68 J	0.93 U	0.58 J
Pentane	0.62	40	27	5.8	2.7	0.59 U	0.59 U	0.27 J	1.5	2.5
Propanol, 2-	45	28 J	1.2 UJ	6.1 UJ	0.49 UJ	0.49 U	2.0 J	0.73 J	1.4 UJ	1.4 J
Propylbenzene, n-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	0.85 U	0.22 J	0.85 U	4.3 U	0.85 U	0.85 U	0.22 J	0.85 U	0.85 U	0.85 U
t-Butyl alcohol	0.61 U	0.61 U	0.33 J	4.7	0.68 J	0.61 U	0.27 J	0.26 J	0.48 J	0.50 J
Tetrachloroethane, 1,1,2,2-	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	1.4 U
Tetrachloroethene	12	9.2	4.4	16	4.7	1.2 J	3.5	1.2 J	35	5.7
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetramethylbenzene, 1,2,4,5-	0.49 J	1.1 U	1.1 U	5.5 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Thiophene	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	0.69 U
Trans-1,2-dichloroethene	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	0.79 U
Trichloro-1,2,2-trifluoroethane, 1,1,2-	0.46 J	0.46 J	0.50 J	7.7 U	1.5 U	0.54 J	0.82 J	0.51 J	0.61 J	0.53 J
Trichlorobenzene, 1,2,4-	1.5 U	1.5 U	1.5 U	7.4 U	1.5 UJ	1.5 U	1.5 U	1.5 U	1.5 U	1.5 UJ
Trichloroethane, 1,1,1-	2.3	2.1	2.4	5.2 J	3.0	1.8	1.2	1.1 J	11	2.8
Trichloroethane, 1,1,2-	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	1.1 U
Trichloroethene	1.1 U	1.1 U	1.1 U	5.4 U	0.39 J	1.1 U	1.1 U	1.1 U	0.43 J	1.1 U
Trichlorofluoromethane	7.2	7.4	6.2	22	12	1.5	1.6	1.1	4.4	1.9
Trimethylbenzene, 1,2,3-	1.8	1.4	0.43 J	4.9 U	0.98 U	0.84 J	1.9	0.34 J	0.98 U	0.98 U
Trimethylbenzene, 1,2,4-	0.98	0.42 J	0.98 U	4.9 U	0.98 U	0.25 J	0.50 J	0.98 U	0.98 U	0.98 U
Trimethylbenzene, 1,3,5-	0.69 J	0.51 J	0.98 U	4.9 U	0.98 U	0.34 J	0.67 J	0.98 U	0.98 U	0.98 U
Trimethylpentane, 2,2,4-	0.61 J	0.93 U	0.93 U	4.7 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U	0.93 U
Undecane, n-	0.77 J	1.5	1.5	7.4	1.0 J	0.96 J	2.4	7.3	1.3 U	0.37 J
Vinyl bromide	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	0.87 U
Vinyl chloride	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	0.51 U
<b>Other (%)</b>										
Helium	NA	NA	NA	NA	0.0151	NA	NA	NA	NA	0.019



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/m<sup>3</sup> - micrograms per cubic meter

BTEX - benzene, toluene, ethylbenzene, 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)

**Notes:**

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

<sup>1</sup> 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) <sup>1</sup>	Depth to Water (feet)	Water Elevation (feet above MSL)	Comments
WCMW-01S	11/5/2008	10:35	1.00	18.18	3.73	14.45	Needs new well base.
WCMW-01I	11/5/2008	10:36	1.00	17.99	3.55	14.44	
WCMW-01D	11/5/2008	10:36	1.00	17.69	3.19	14.50	
WCMW-02S	11/5/2008	11:27	1.00	15.34	2.10	13.24	
WCMW-02I	11/5/2008	11:28	1.00	15.23	1.98	13.25	
WCMW-02D	11/5/2008	11:29	1.00	15.15	1.85	13.30	
WCMW-03S	11/5/2008	10:45	2.00	17.15	2.72	14.43	Needs new well base.
WCMW-03I	11/5/2008	10:45	2.00	17.20	2.83	14.37	
WCMW-03I2	11/5/2008	10:46	2.00	17.12	2.75	14.37	
WCMW-04S	11/5/2008	11:01	2.00	19.27	5.10	14.17	
WCMW-04I	11/5/2008	11:02	2.00	19.21	5.05	14.16	
WCMW-04I2	11/5/2008	11:03	2.00	19.16	4.90	14.26	
WCMW-05S	11/5/2008	11:10	2.00	18.46	4.14	14.32	
WCMW-05I	11/5/2008	11:10	2.00	18.27	4.04	14.23	
WCMW-05I2	11/5/2008	11:11	2.00	18.39	4.11	14.28	
WCMW-06S	11/5/2008	11:40	2.00	14.78	0.77	14.01	
WCMW-06I	11/5/2008	11:41	2.00	14.92	0.93	13.99	
WCMW-06I2	11/5/2008	11:41	2.00	15.08	1.06	14.02	
WCMW-07S	NA	NM	2.00	NS	NM	NC	Access Issues.
WCMW-07I	NA	NM	2.00	NS	NM	NC	Access Issues.
WCMW-07I2	NA	NM	2.00	NS	NM	NC	Access Issues.
WCMW-08S	11/5/2008	10:01	2.00	17.65	2.87	14.78	
WCMW-08I	11/5/2008	10:02	2.00	17.72	2.92	14.80	
WCMW-08I2	11/5/2008	10:02	2.00	17.76	2.97	14.79	
WCMW-09S	11/5/2008	11:17	2.00	18.03	3.43	14.60	
WCMW-10S	11/5/2008	7:01	2.00	17.44	3.07	14.37	
WCMW-10D	11/5/2008	7:02	2.00	17.36	2.99	14.37	
WCMW-11S	NA	NM	2.00	NS	NM	NC	Access Issues.
WCMW-11I	NA	NM	2.00	NS	NM	NC	Access Issues.
WCMW-11D	NA	NM	2.00	NS	NM	NC	Access Issues.
WCMW-12S	11/5/2008	11:57	2.00	16.88	3.46	13.42	
WCMW-12I	11/5/2008	11:58	2.00	17.19	3.76	13.43	
WCMW-12D	11/5/2008	11:59	2.00	17.15	3.71	13.44	
WCMW-13S	11/5/2008	12:06	2.00	15.11	1.81	13.30	
WCMW-13I	11/5/2008	12:06	2.00	15.41	2.08	13.33	
WCMW-13D	11/5/2008	12:07	2.00	15.38	2.01	13.37	
WCMW-14S	11/5/2008	11:46	2.00	15.68	1.48	14.20	
WCMW-14I	11/5/2008	11:47	2.00	15.34	1.19	14.15	
WCMW-14I2	11/5/2008	11:48	2.00	15.33	1.17	14.16	
WCMW-14D	11/5/2008	11:48	2.00	15.63	1.43	14.20	
WCMW-16S	11/5/2008	10:24	2.00	17.45	2.60	14.85	
WCMW-16I	11/5/2008	10:25	2.00	17.33	2.47	14.86	
WCMW-16I2	11/5/2008	10:25	2.00	17.25	2.41	14.84	
BBSW-14*	11/5/2008	12:12	NA	15.05	2.82	12.23	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	November-08	Minimum	Average	Maximum
WCMW-01S	2.0 - 12.0	14.28	14.79	13.84	14.45	13.45	14.38	15.27
WCMW-01I	35.0 - 45.0	14.30	14.88	13.77	14.44	13.37	14.38	15.26
WCMW-01D	64.0 - 72.0	14.28	14.87	13.66	14.50	13.41	14.32	15.24
WCMW-02S	3.0 - 13.0	13.07	13.54	12.59	13.24	12.25	13.20	14.07
WCMW-02I	34.5 - 44.5	13.11	13.62	12.64	13.25	12.28	13.17	13.96
WCMW-02D	62.0 - 72.0	13.16	13.65	12.93	13.30	12.34	13.22	14.01
WCMW-03S	4.83 - 9.83	14.28	14.79	13.84	14.43	13.42	14.32	15.04
WCMW-03I	19.4 - 24.4	14.22	14.78	13.76	14.37	13.32	14.33	15.16
WCMW-03I2	28.55 - 33.55	14.17	14.77	13.69	14.37	13.30	14.25	14.98
WCMW-04S	1.5 - 11.5	13.97	14.57	13.49	14.17	13.10	14.11	15.06
WCMW-04I	19.0 - 24.0	14.02	14.59	13.64	14.16	13.10	14.12	15.00
WCMW-04I2	29.85 - 34.85	14.12	14.67	13.45	14.26	13.21	14.20	15.07
WCMW-05S	1.4 - 11.4	14.14	14.64	13.59	14.32	13.18	14.23	15.05
WCMW-05I	19.61 - 24.61	14.07	14.62	13.57	14.23	13.16	14.17	14.99
WCMW-05I2	29.46 - 34.46	14.08	14.66	13.65	14.28	13.17	14.21	15.02
WCMW-06S	2.0 - 12.0	13.83	14.38	13.40	14.01	13.03	13.73	14.38
WCMW-06I	19.55 - 24.55	13.82	14.36	13.31	13.99	13.02	13.70	14.36
WCMW-06I2	29.83 - 34.83	13.83	14.39	13.37	14.02	12.98	13.96	14.79
WCMW-08S	4.2 - 9.2	14.64	15.26	14.14	14.78	13.73	14.76	15.59
WCMW-08I	19.2 - 24.2	14.66	15.27	14.13	14.80	13.85	14.72	15.28
WCMW-08I2	26.9 - 31.9	14.74	15.25	14.11	14.79	13.77	14.77	15.61
WCMW-09S	5.0 - 15.0	14.45	15.04	13.94	14.60	13.64	14.57	15.08
WCMW-10S	15.0 - 20.0	14.18	14.80	13.69	14.37	13.47	14.65	17.44
WCMW-10D	40.0 - 50.0	14.18	14.80	13.74	14.37	13.42	14.59	17.36
WCMW-11S**	5.0 - 15.0	NM	NC	NC	NC	15.84	15.84	15.84
WCMW-11I**	25.0 - 35.0	NM	NC	NC	NC	15.84	15.84	15.84
WCMW-11D**	50.0 - 60.0	NM	NC	NC	NC	15.81	15.81	15.81
WCMW-12S	3.0 - 13.0	NM	13.77	12.82	13.42	12.82	13.30	13.77
WCMW-12I	25.0 - 30.0	NM	13.76	12.82	13.43	12.82	13.29	13.76
WCMW-12D	65.0 - 70.0	NM	13.78	12.81	13.44	12.81	13.30	13.78
WCMW-13S	3.0 - 13.0	NM	13.59	12.71	13.30	12.71	13.15	13.59
WCMW-13I	25.0 - 30.0	NM	13.68	12.74	13.33	12.74	13.21	13.68
WCMW-13D	65.0 - 70.0	NM	13.71	12.92	13.37	12.92	13.32	13.71
WCMW-14S	2.0 - 12.0	NM	14.57	13.80	14.20	13.80	14.19	14.57
WCMW-14I	20.0 - 25.0	NM	14.53	13.50	14.15	13.50	14.02	14.53
WCMW-14I2	30.0 - 35.0	NM	14.53	13.18	14.16	13.18	13.86	14.53
WCMW-14D	67.0 - 72.0	NM	14.56	12.42	14.20	12.42	13.49	14.56
WCMW-16S	2.0 - 12.0	NM	15.29	14.35	14.85	14.35	14.82	15.29
WCMW-16I	20.0 - 25.0	NM	15.28	14.29	14.86	14.29	14.79	15.28
WCMW-16I2	30.0 - 35.0	NM	15.25	14.56	14.84	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 6-5  
 Summary of Expanded Groundwater Analytical Results  
 Bay Shore/Brightwaters Former MGP Site  
 Operations, Maintenance and Monitoring Program  
 Operable Unit No. 4 (OU-4)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU4 WCMW-01D 64-74 12/10/08</b>	<b>OU4 WCMW-01I 35-45 12/10/08</b>	<b>OU4 WCMW-01S 2-12 12/11/08</b>
<b>BTEX (ug/L)</b>				
Benzene	1	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	<b>2 J</b>
Xylene, m,p-	5	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	<b>1 J</b>
Total BTEX	NE	ND	ND	<b>3</b>
<b>Other VOCs (ug/L)</b>				
Acetone	50*	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 U
Butanone, 2-	50*	10 UJ	10 U	10 UJ
Chloroform	7	10 U	10 U	10 U
Chloromethane	5	10 UJ	10 UJ	10 U
Cyclohexane	NE	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U
Heptane, n-	NE	10 U	10 UJ	10 U
Hexane, n-	NE	10 U	10 UJ	10 U
Isopropyl benzene	5	10 U	10 U	10 U
Methyl tert-butyl ether	10*	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	<b>12</b>
Nonane	NE	NA	NA	NA
Octane, n-	NE	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U
Tetrachloroethene	5	10 UJ	10 UJ	10 UJ
Tetrahydrofuran	50*	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	<b>4 J</b>
Trimethylpentane, 2,2,4-	NE	10 U	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>				
Acenaphthene	20*	10 U	10 U	<b>26</b>
Acenaphthylene	NE	10 U	10 U	<b>21</b>
Anthracene	50*	10 U	10 U	<b>3 J</b>
Fluoranthene	50*	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	<b>4 J</b>
Methylnaphthalene, 2-	NE	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	<b>11</b>
Phenanthrene	50*	10 U	10 U	<b>12</b>
Pyrene	50*	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	<b>77</b>
<b>Carcinogenic PAHs (ug/L)</b>				
Total Carcinogenic PAHs	NE	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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU4 WCMW-01D 64-74 12/10/08	OU4 WCMW-01I 35-45 12/10/08	OU4 WCMW-01S 2-12 12/11/08
<b>Total PAHs (ug/L)</b>				
Total PAHs	NE	ND	ND	<b>77</b>
<b>Total Metals (ug/L)</b>				
Aluminum	NE	NA	NA	NA
Arsenic	25	NA	NA	NA
Barium	1000	NA	NA	NA
Cadmium	5	NA	NA	NA
Calcium	NE	NA	NA	NA
Chromium	50	NA	NA	NA
Cobalt	NE	NA	NA	NA
Copper	200	NA	NA	NA
Iron	300	NA	NA	NA
Lead	25	NA	NA	NA
Magnesium	35000*	NA	NA	NA
Manganese	300	NA	NA	NA
Nickel	100	NA	NA	NA
Potassium	NE	NA	NA	NA
Selenium	10	NA	NA	NA
Silver	50	NA	NA	NA
Sodium	20000	NA	NA	NA
Thallium	0.5*	NA	NA	NA
Vanadium	NE	NA	NA	NA
Zinc	2000*	NA	NA	NA
<b>Other (mg/L)</b>				
Nitrogen, Ammonia	2000	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA
Sulfate	250000	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA

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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU4 WCMW-02D 62-72 12/16/08</b>	<b>OU4 WCMW-02I 34.5-44.5 12/16/08</b>	<b>OU4 WCMW-02S 3-13 12/16/08</b>
<b>BTEX (ug/L)</b>				
Benzene	1	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND
<b>Other VOCs (ug/L)</b>				
Acetone	50*	10 UJ	10 UJ	10 U
Bromomethane	5	10 U	10 U	10 UJ
Butanone, 2-	50*	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 UJ
Cyclohexane	NE	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U
Heptane, n-	NE	10 UJ	10 UJ	10 U
Hexane, n-	NE	10 UJ	10 UJ	10 U
Isopropyl benzene	5	10 U	10 U	10 U
Methyl tert-butyl ether	10*	10 U	10 U	7
Naphthalene	10*	10 U	10 U	10 U
Nonane	NE	NA	NA	NA
Octane, n-	NE	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 UJ
Tetrachloroethene	5	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>				
Acenaphthene	20*	10 U	10 U	7
Acenaphthylene	NE	10 U	10 U	2 J
Anthracene	50*	10 U	10 U	4 J
Fluoranthene	50*	10 U	10 U	2 J
Fluorene	50*	10 U	10 U	4 J
Methylnaphthalene, 2-	NE	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	6
Pyrene	50*	10 U	10 U	2 J
Total Non-carcinogenic PAHs	NE	ND	ND	27
<b>Carcinogenic PAHs (ug/L)</b>				
Total Carcinogenic PAHs	NE	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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU4 WCMW-02D 62-72 12/16/08	OU4 WCMW-02I 34.5-44.5 12/16/08	OU4 WCMW-02S 3-13 12/16/08
<b>Total PAHs (ug/L)</b>				
Total PAHs	NE	ND	ND	<b>27</b>
<b>Total Metals (ug/L)</b>				
Aluminum	NE	NA	NA	NA
Arsenic	25	NA	NA	NA
Barium	1000	NA	NA	NA
Cadmium	5	NA	NA	NA
Calcium	NE	NA	NA	NA
Chromium	50	NA	NA	NA
Cobalt	NE	NA	NA	NA
Copper	200	NA	NA	NA
Iron	300	NA	NA	NA
Lead	25	NA	NA	NA
Magnesium	35000*	NA	NA	NA
Manganese	300	NA	NA	NA
Nickel	100	NA	NA	NA
Potassium	NE	NA	NA	NA
Selenium	10	NA	NA	NA
Silver	50	NA	NA	NA
Sodium	20000	NA	NA	NA
Thallium	0.5*	NA	NA	NA
Vanadium	NE	NA	NA	NA
Zinc	2000*	NA	NA	NA
<b>Other (mg/L)</b>				
Nitrogen, Ammonia	2000	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA
Sulfate	250000	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA



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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU4 WCMW-031 19.4-24.4 12/10/08</b>	<b>OU4 WCMW-0312 28.55-33.55 12/10/08</b>	<b>OU4 WCMW-03S 4.83-9.83 12/10/08</b>
<b>BTEX (ug/L)</b>				
Benzene	1	10 U	10 U	8
Toluene	5	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	6
Xylene, m,p-	5	10 U	10 U	4 J
Xylene, o-	5	10 U	10 U	6
Total BTEX	NE	ND	ND	24
<b>Other VOCs (ug/L)</b>				
Acetone	50*	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 U
Butanone, 2-	50*	10 UJ	10 U	10 UJ
Chloroform	7	10 U	10 U	10 U
Chloromethane	5	10 UJ	10 UJ	10 UJ
Cyclohexane	NE	10 UJ	10 U	10 UJ
Dichlorobenzene, 1,2-	3	2 J	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U
Heptane, n-	NE	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 UJ
Isopropyl benzene	5	10 U	10 U	2 J
Methyl tert-butyl ether	10*	10 UJ	10 U	1 J
Naphthalene	10*	460	10 U	190
Nonane	NE	NA	NA	NA
Octane, n-	NE	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U
Tetrachloroethene	5	3 J	10 UJ	10 UJ
Tetrahydrofuran	50*	10 UJ	10 U	10 UJ
Trichloroethene	5	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	11	10 U	20
Trimethylbenzene, 1,2,4-	5	26	10 U	27
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>				
Acenaphthene	20*	39	10 U	100
Acenaphthylene	NE	260	10 U	4 J
Anthracene	50*	16	6	8
Fluoranthene	50*	3 J	6	3 J
Fluorene	50*	79	10 U	34
Methylnaphthalene, 2-	NE	560	10 U	7
Naphthalene	10*	79	10 U	47
Phenanthrene	50*	67	4 J	33
Pyrene	50*	4 J	8	3 J
Total Non-carcinogenic PAHs	NE	1107	24	239
<b>Carcinogenic PAHs (ug/L)</b>				
Total Carcinogenic PAHs	NE	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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>		<b>OU4 WCMW-031 19.4-24.4 12/10/08</b>	<b>OU4 WCMW-0312 28.55-33.55 12/10/08</b>	<b>OU4 WCMW-03S 4.83-9.83 12/10/08</b>
<b>Total PAHs (ug/L)</b>				
Total PAHs	NE	<b>1107</b>	<b>24</b>	<b>239</b>
<b>Total Metals (ug/L)</b>				
Aluminum	NE	NA	NA	NA
Arsenic	25	NA	NA	NA
Barium	1000	NA	NA	NA
Cadmium	5	NA	NA	NA
Calcium	NE	NA	NA	NA
Chromium	50	NA	NA	NA
Cobalt	NE	NA	NA	NA
Copper	200	NA	NA	NA
Iron	300	NA	NA	NA
Lead	25	NA	NA	NA
Magnesium	35000*	NA	NA	NA
Manganese	300	NA	NA	NA
Nickel	100	NA	NA	NA
Potassium	NE	NA	NA	NA
Selenium	10	NA	NA	NA
Silver	50	NA	NA	NA
Sodium	20000	NA	NA	NA
Thallium	0.5*	NA	NA	NA
Vanadium	NE	NA	NA	NA
Zinc	2000*	NA	NA	NA
<b>Other (mg/L)</b>				
Nitrogen, Ammonia	2000	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA
Sulfate	250000	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA

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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU4 WCMW-04I 19-24 12/11/08</b>	<b>OU4 WCMW-04I2 19-24 12/11/08</b>	<b>OU4 WCMW-04S 1.5-11.5 12/11/08</b>
<b>BTEX (ug/L)</b>				
Benzene	1	10 U	10 U	1 J
Toluene	5	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	16
Xylene, m,p-	5	10 U	10 U	2 J
Xylene, o-	5	10 U	10 U	7
Total BTEX	NE	ND	ND	26
<b>Other VOCs (ug/L)</b>				
Acetone	50*	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 U
Butanone, 2-	50*	10 UJ	10 UJ	10 UJ
Chloroform	7	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U
Heptane, n-	NE	10 U	10 U	10 U
Hexane, n-	NE	10 U	10 U	10 U
Isopropyl benzene	5	10 U	10 U	5
Methyl tert-butyl ether	10*	10 U	10 U	10 U
Naphthalene	10*	3 J	10 U	540 J
Nonane	NE	NA	NA	NA
Octane, n-	NE	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	3 J
Styrene	5	10 U	10 U	10 U
Tetrachloroethene	5	10 UJ	10 UJ	10 UJ
Tetrahydrofuran	50*	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	37
Trimethylbenzene, 1,2,4-	5	10 U	10 U	54
Trimethylpentane, 2,2,4-	NE	10 UJ	10 U	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>				
Acenaphthene	20*	11	10 U	140
Acenaphthylene	NE	36	10 U	15
Anthracene	50*	7	10 U	8
Fluoranthene	50*	2 J	10 U	2 J
Fluorene	50*	13	10 U	37
Methylnaphthalene, 2-	NE	10 U	10 U	37
Naphthalene	10*	2 J	10 U	55
Phenanthrene	50*	27	10 U	36
Pyrene	50*	2 J	10 U	2 J
Total Non-carcinogenic PAHs	NE	100	ND	332
<b>Carcinogenic PAHs (ug/L)</b>				
Total Carcinogenic PAHs	NE	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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU4 WCMW-041 19-24 12/11/08	OU4 WCMW-0412 19-24 12/11/08	OU4 WCMW-04S 1.5-11.5 12/11/08
<b>Total PAHs (ug/L)</b>				
Total PAHs	NE	<b>100</b>	ND	<b>332</b>
<b>Total Metals (ug/L)</b>				
Aluminum	NE	NA	NA	NA
Arsenic	25	NA	NA	NA
Barium	1000	NA	NA	NA
Cadmium	5	NA	NA	NA
Calcium	NE	NA	NA	NA
Chromium	50	NA	NA	NA
Cobalt	NE	NA	NA	NA
Copper	200	NA	NA	NA
Iron	300	NA	NA	NA
Lead	25	NA	NA	NA
Magnesium	35000*	NA	NA	NA
Manganese	300	NA	NA	NA
Nickel	100	NA	NA	NA
Potassium	NE	NA	NA	NA
Selenium	10	NA	NA	NA
Silver	50	NA	NA	NA
Sodium	20000	NA	NA	NA
Thallium	0.5*	NA	NA	NA
Vanadium	NE	NA	NA	NA
Zinc	2000*	NA	NA	NA
<b>Other (mg/L)</b>				
Nitrogen, Ammonia	2000	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA
Sulfate	250000	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA

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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU4 WCMW-051 19.61-24.61 12/12/08</b>	<b>OU4 WCMW-0512 29.46 - 34.46 12/12/08</b>	<b>OU4 WCMW-05S 1.4-11.4 12/12/08</b>
<b>BTEX (ug/L)</b>				
Benzene	1	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND
<b>Other VOCs (ug/L)</b>				
Acetone	50*	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 U
Butanone, 2-	50*	10 UJ	10 UJ	10 UJ
Chloroform	7	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U
Heptane, n-	NE	10 U	10 U	10 U
Hexane, n-	NE	10 U	10 U	10 U
Isopropyl benzene	5	10 U	10 U	10 U
Methyl tert-butyl ether	10*	1 J	2 J	10 U
Naphthalene	10*	41	4 J	10 U
Nonane	NE	NA	NA	NA
Octane, n-	NE	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U
Tetrachloroethene	5	10 UJ	10 UJ	10 UJ
Tetrahydrofuran	50*	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	3 J	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>				
Acenaphthene	20*	11	1 J	2 J
Acenaphthylene	NE	37	6	10 U
Anthracene	50*	7	10 U	10 U
Fluoranthene	50*	3 J	10 U	10 U
Fluorene	50*	22	3 J	10 U
Methylnaphthalene, 2-	NE	36	9	10 U
Naphthalene	10*	6	42	10 U
Phenanthrene	50*	25	2 J	10 U
Pyrene	50*	3 J	10 U	10 U
Total Non-carcinogenic PAHs	NE	150	63	2
<b>Carcinogenic PAHs (ug/L)</b>				
Total Carcinogenic PAHs	NE	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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU4 WCMW-05I 19.61-24.61 12/12/08	OU4 WCMW-05I2 29.46 - 34.46 12/12/08	OU4 WCMW-05S 1.4-11.4 12/12/08
<b>Total PAHs (ug/L)</b>				
Total PAHs	NE	<b>150</b>	<b>63</b>	<b>2</b>
<b>Total Metals (ug/L)</b>				
Aluminum	NE	NA	NA	NA
Arsenic	25	NA	NA	NA
Barium	1000	NA	NA	NA
Cadmium	5	NA	NA	NA
Calcium	NE	NA	NA	NA
Chromium	50	NA	NA	NA
Cobalt	NE	NA	NA	NA
Copper	200	NA	NA	NA
Iron	300	NA	NA	NA
Lead	25	NA	NA	NA
Magnesium	35000*	NA	NA	NA
Manganese	300	NA	NA	NA
Nickel	100	NA	NA	NA
Potassium	NE	NA	NA	NA
Selenium	10	NA	NA	NA
Silver	50	NA	NA	NA
Sodium	20000	NA	NA	NA
Thallium	0.5*	NA	NA	NA
Vanadium	NE	NA	NA	NA
Zinc	2000*	NA	NA	NA
<b>Other (mg/L)</b>				
Nitrogen, Ammonia	2000	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA
Sulfate	250000	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA

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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU4 WCMW-061 19.55-24.55 12/15/08</b>	<b>OU4 WCMW-0612 29.83-34.83 12/15/08</b>	<b>OU4 WCMW-06S 2-12 12/15/08</b>
<b>BTEX (ug/L)</b>				
Benzene	1	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND
<b>Other VOCs (ug/L)</b>				
Acetone	50*	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 U
Butanone, 2-	50*	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U
Heptane, n-	NE	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 UJ
Isopropyl benzene	5	10 U	10 U	10 U
Methyl tert-butyl ether	10*	3 J	2 J	3 J
Naphthalene	10*	10 U	10 U	10 U
Nonane	NE	NA	NA	NA
Octane, n-	NE	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>				
Acenaphthene	20*	10 UJ	10 UJ	10 UJ
Acenaphthylene	NE	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U
Naphthalene	10*	10 UJ	10 UJ	10 UJ
Phenanthrene	50*	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>				
Total Carcinogenic PAHs	NE	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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU4 WCMW-061 19.55-24.55 12/15/08	OU4 WCMW-0612 29.83-34.83 12/15/08	OU4 WCMW-06S 2-12 12/15/08
<b>Total PAHs (ug/L)</b>				
Total PAHs	NE	ND	ND	ND
<b>Total Metals (ug/L)</b>				
Aluminum	NE	NA	NA	NA
Arsenic	25	NA	NA	NA
Barium	1000	NA	NA	NA
Cadmium	5	NA	NA	NA
Calcium	NE	NA	NA	NA
Chromium	50	NA	NA	NA
Cobalt	NE	NA	NA	NA
Copper	200	NA	NA	NA
Iron	300	NA	NA	NA
Lead	25	NA	NA	NA
Magnesium	35000*	NA	NA	NA
Manganese	300	NA	NA	NA
Nickel	100	NA	NA	NA
Potassium	NE	NA	NA	NA
Selenium	10	NA	NA	NA
Silver	50	NA	NA	NA
Sodium	20000	NA	NA	NA
Thallium	0.5*	NA	NA	NA
Vanadium	NE	NA	NA	NA
Zinc	2000*	NA	NA	NA
<b>Other (mg/L)</b>				
Nitrogen, Ammonia	2000	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA
Sulfate	250000	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA



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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU4 WCMW-09 5-15 12/16/08</b>	<b>OU4 WCMW-10D 40-50 12/17/08</b>	<b>OU4 WCMW-10S 15-20 12/17/08</b>
<b>BTEX (ug/L)</b>				
Benzene	1	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND
<b>Other VOCs (ug/L)</b>				
Acetone	50*	10 UJ	10 U	10 U
Bromomethane	5	10 U	10 UJ	10 UJ
Butanone, 2-	50*	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U
Heptane, n-	NE	10 UJ	10 U	10 U
Hexane, n-	NE	10 UJ	10 U	10 U
Isopropyl benzene	5	10 U	10 U	10 U
Methyl tert-butyl ether	10*	10 U	1 J	10 U
Naphthalene	10*	10 U	10 U	10 U
Nonane	NE	NA	NA	NA
Octane, n-	NE	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U
Styrene	5	10 U	10 UJ	10 UJ
Tetrachloroethene	5	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>				
Acenaphthene	20*	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>				
Total Carcinogenic PAHs	NE	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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU4 WCMW-09 5-15 12/16/08	OU4 WCMW-10D 40-50 12/17/08	OU4 WCMW-10S 15-20 12/17/08
<b>Total PAHs (ug/L)</b>				
Total PAHs	NE	ND	ND	ND
<b>Total Metals (ug/L)</b>				
Aluminum	NE	NA	NA	NA
Arsenic	25	NA	NA	NA
Barium	1000	NA	NA	NA
Cadmium	5	NA	NA	NA
Calcium	NE	NA	NA	NA
Chromium	50	NA	NA	NA
Cobalt	NE	NA	NA	NA
Copper	200	NA	NA	NA
Iron	300	NA	NA	NA
Lead	25	NA	NA	NA
Magnesium	35000*	NA	NA	NA
Manganese	300	NA	NA	NA
Nickel	100	NA	NA	NA
Potassium	NE	NA	NA	NA
Selenium	10	NA	NA	NA
Silver	50	NA	NA	NA
Sodium	20000	NA	NA	NA
Thallium	0.5*	NA	NA	NA
Vanadium	NE	NA	NA	NA
Zinc	2000*	NA	NA	NA
<b>Other (mg/L)</b>				
Nitrogen, Ammonia	2000	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA
Sulfate	250000	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA

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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU4 WCMW-12D 67-72 12/15/08</b>	<b>OU4 WCMW-12I 25-30 12/15/08</b>	<b>OU4 WCMW-12S 3-13 12/15/08</b>
<b>BTEX (ug/L)</b>				
Benzene	1	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND
<b>Other VOCs (ug/L)</b>				
Acetone	50*	10 UJ	10 U	10 U
Bromomethane	5	10 U	10 U	10 U
Butanone, 2-	50*	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 UJ	10 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U
Heptane, n-	NE	10 UJ	10 U	10 U
Hexane, n-	NE	10 UJ	10 UJ	10 UJ
Isopropyl benzene	5	10 U	10 U	10 U
Methyl tert-butyl ether	10*	10 U	3 J	2 J
Naphthalene	10*	10 U	10 U	10 U
Nonane	NE	NA	NA	NA
Octane, n-	NE	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 UJ	10 UJ
Tetrahydrofuran	50*	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>				
Acenaphthene	20*	10 UJ	10 UJ	10 UJ
Acenaphthylene	NE	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U
Naphthalene	10*	10 UJ	10 UJ	10 UJ
Phenanthrene	50*	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	1 J
Total Non-carcinogenic PAHs	NE	ND	ND	1
<b>Carcinogenic PAHs (ug/L)</b>				
Total Carcinogenic PAHs	NE	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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU4 WCMW-12D 67-72 12/15/08	OU4 WCMW-12I 25-30 12/15/08	OU4 WCMW-12S 3-13 12/15/08
<b>Total PAHs (ug/L)</b>				
Total PAHs	NE	ND	ND	1
<b>Total Metals (ug/L)</b>				
Aluminum	NE	NA	NA	NA
Arsenic	25	NA	NA	NA
Barium	1000	NA	NA	NA
Cadmium	5	NA	NA	NA
Calcium	NE	NA	NA	NA
Chromium	50	NA	NA	NA
Cobalt	NE	NA	NA	NA
Copper	200	NA	NA	NA
Iron	300	NA	NA	NA
Lead	25	NA	NA	NA
Magnesium	35000*	NA	NA	NA
Manganese	300	NA	NA	NA
Nickel	100	NA	NA	NA
Potassium	NE	NA	NA	NA
Selenium	10	NA	NA	NA
Silver	50	NA	NA	NA
Sodium	20000	NA	NA	NA
Thallium	0.5*	NA	NA	NA
Vanadium	NE	NA	NA	NA
Zinc	2000*	NA	NA	NA
<b>Other (mg/L)</b>				
Nitrogen, Ammonia	2000	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA
Sulfate	250000	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA

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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU4 WCMW-13D 65-70 12/16/08</b>	<b>OU4 WCMW-13I 25-30 12/16/08</b>	<b>OU4 WCMW-13S 3-13 12/16/08</b>
<b>BTEX (ug/L)</b>				
Benzene	1	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND
<b>Other VOCs (ug/L)</b>				
Acetone	50*	10 UJ	10 UJ	10 UJ
Bromomethane	5	10 U	10 U	10 U
Butanone, 2-	50*	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	2 J	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U
Heptane, n-	NE	10 UJ	10 UJ	10 UJ
Hexane, n-	NE	10 UJ	10 UJ	10 UJ
Isopropyl benzene	5	10 U	10 U	10 U
Methyl tert-butyl ether	10*	10 U	10 U	1 J
Naphthalene	10*	10 U	10 U	48
Nonane	NE	NA	NA	NA
Octane, n-	NE	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U
Styrene	5	10 U	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	4 J
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>				
Acenaphthene	20*	10 U	10 U	6
Acenaphthylene	NE	10 U	10 U	20
Anthracene	50*	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	2 J
Methylnaphthalene, 2-	NE	10 U	10 U	10 U
Naphthalene	10*	1 J	10 U	23
Phenanthrene	50*	10 U	10 U	2 J
Pyrene	50*	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	1	ND	53
<b>Carcinogenic PAHs (ug/L)</b>				
Total Carcinogenic PAHs	NE	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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU4 WCMW-13D 65-70 12/16/08	OU4 WCMW-13I 25-30 12/16/08	OU4 WCMW-13S 3-13 12/16/08
<b>Total PAHs (ug/L)</b>				
Total PAHs	NE	1	ND	53
<b>Total Metals (ug/L)</b>				
Aluminum	NE	NA	NA	NA
Arsenic	25	NA	NA	NA
Barium	1000	NA	NA	NA
Cadmium	5	NA	NA	NA
Calcium	NE	NA	NA	NA
Chromium	50	NA	NA	NA
Cobalt	NE	NA	NA	NA
Copper	200	NA	NA	NA
Iron	300	NA	NA	NA
Lead	25	NA	NA	NA
Magnesium	35000*	NA	NA	NA
Manganese	300	NA	NA	NA
Nickel	100	NA	NA	NA
Potassium	NE	NA	NA	NA
Selenium	10	NA	NA	NA
Silver	50	NA	NA	NA
Sodium	20000	NA	NA	NA
Thallium	0.5*	NA	NA	NA
Vanadium	NE	NA	NA	NA
Zinc	2000*	NA	NA	NA
<b>Other (mg/L)</b>				
Nitrogen, Ammonia	2000	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA
Sulfate	250000	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA

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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU4 WCMW-14D 67-72 12/17/08	OU4 WCMW-14I 20-25 12/17/08	OU4 WCMW-14I2 30-35 12/17/08
<b>BTEX (ug/L)</b>				
Benzene	1	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND
<b>Other VOCs (ug/L)</b>				
Acetone	50*	10 U	10 U	10 U
Bromomethane	5	10 UJ	10 UJ	10 UJ
Butanone, 2-	50*	10 U	10 U	10 U
Chloroform	7	10 U	10 U	10 U
Chloromethane	5	10 U	10 U	10 U
Cyclohexane	NE	10 U	10 U	10 U
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 U	10 U
Dichloroethane, 1,1-	5	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U
Heptane, n-	NE	10 U	10 U	10 U
Hexane, n-	NE	10 U	10 U	10 U
Isopropyl benzene	5	10 U	10 U	10 U
Methyl tert-butyl ether	10*	10 U	<b>270 J</b>	<b>170</b>
Naphthalene	10*	10 U	<b>18</b>	<b>31</b>
Nonane	NE	NA	NA	NA
Octane, n-	NE	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U
Styrene	5	10 UJ	10 UJ	10 UJ
Tetrachloroethene	5	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	<b>2 J</b>	<b>2 J</b>
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>				
Acenaphthene	20*	10 U	10 U	<b>2 J</b>
Acenaphthylene	NE	10 U	10 U	<b>6</b>
Anthracene	50*	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	<b>2 J</b>
Methylnaphthalene, 2-	NE	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U
Pyrene	50*	10 U	<b>2 J</b>	10 U
Total Non-carcinogenic PAHs	NE	ND	<b>2</b>	<b>10</b>
<b>Carcinogenic PAHs (ug/L)</b>				
Total Carcinogenic PAHs	NE	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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU4 WCMW-14D 67-72 12/17/08	OU4 WCMW-14I 20-25 12/17/08	OU4 WCMW-14I2 30-35 12/17/08
<b>Total PAHs (ug/L)</b>				
Total PAHs	NE	ND	<b>2</b>	<b>10</b>
<b>Total Metals (ug/L)</b>				
Aluminum	NE	NA	NA	NA
Arsenic	25	NA	NA	NA
Barium	1000	NA	NA	NA
Cadmium	5	NA	NA	NA
Calcium	NE	NA	NA	NA
Chromium	50	NA	NA	NA
Cobalt	NE	NA	NA	NA
Copper	200	NA	NA	NA
Iron	300	NA	NA	NA
Lead	25	NA	NA	NA
Magnesium	35000*	NA	NA	NA
Manganese	300	NA	NA	NA
Nickel	100	NA	NA	NA
Potassium	NE	NA	NA	NA
Selenium	10	NA	NA	NA
Silver	50	NA	NA	NA
Sodium	20000	NA	NA	NA
Thallium	0.5*	NA	NA	NA
Vanadium	NE	NA	NA	NA
Zinc	2000*	NA	NA	NA
<b>Other (mg/L)</b>				
Nitrogen, Ammonia	2000	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA
Sulfate	250000	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA



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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU4 WCMW-14S 2-12 12/17/08</b>	<b>OU4 WCMW-16I 20-25 12/22/08</b>	<b>OU4 WCMW-16I2 30-35 12/22/08</b>
<b>BTEX (ug/L)</b>				
Benzene	1	10 U	10 U	10 U
Toluene	5	10 U	10 U	10 U
Ethylbenzene	5	10 U	10 U	10 U
Xylene, m,p-	5	10 U	10 U	10 U
Xylene, o-	5	10 U	10 U	10 U
Total BTEX	NE	ND	ND	ND
<b>Other VOCs (ug/L)</b>				
Acetone	50*	10 U	10 UJ	10 UJ
Bromomethane	5	10 UJ	10 U	10 U
Butanone, 2-	50*	10 U	10 UJ	10 UJ
Chloroform	7	10 U	10 U	10 U
Chloromethane	5	10 U	10 UJ	10 UJ
Cyclohexane	NE	10 U	10 UJ	10 UJ
Dichlorobenzene, 1,2-	3	10 U	10 U	10 U
Dichlorobenzene, 1,3-	3	10 U	10 U	10 U
Dichlorobenzene, 1,4-	3	10 U	10 U	10 U
Dichlorodifluoromethane	5	10 U	10 UJ	10 UJ
Dichloroethane, 1,1-	5	10 U	10 U	10 U
Dichloroethene, 1,1-	0.07	10 U	10 U	10 U
Dichloroethene, cis-1,2-	5	10 U	10 U	10 U
Heptane, n-	NE	10 U	10 UJ	10 UJ
Hexane, n-	NE	10 U	10 UJ	10 UJ
Isopropyl benzene	5	10 U	10 U	10 U
Methyl tert-butyl ether	10*	10 U	10 UJ	10 UJ
Naphthalene	10*	10 U	10 U	10 U
Nonane	NE	NA	NA	NA
Octane, n-	NE	NA	NA	NA
Propylbenzene, n-	5	10 U	10 U	10 U
Styrene	5	10 UJ	10 U	10 U
Tetrachloroethene	5	10 U	10 U	10 U
Tetrahydrofuran	50*	10 U	10 U	10 U
Trichloroethene	5	10 U	10 U	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U	10 U	10 U
Trimethylbenzene, 1,2,4-	5	10 U	10 U	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ	10 UJ	10 UJ
<b>Non-carcinogenic PAHs (ug/L)</b>				
Acenaphthene	20*	10 U	10 U	10 U
Acenaphthylene	NE	10 U	10 U	10 U
Anthracene	50*	10 U	10 U	10 U
Fluoranthene	50*	10 U	10 U	10 U
Fluorene	50*	10 U	10 U	10 U
Methylnaphthalene, 2-	NE	10 U	10 U	10 U
Naphthalene	10*	10 U	10 U	10 U
Phenanthrene	50*	10 U	10 U	10 U
Pyrene	50*	10 U	10 U	10 U
Total Non-carcinogenic PAHs	NE	ND	ND	ND
<b>Carcinogenic PAHs (ug/L)</b>				
Total Carcinogenic PAHs	NE	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: Well ID: Screened Interval (feet): Date Sampled:	NYS AWQS	OU4 WCMW-14S 2-12 12/17/08	OU4 WCMW-16I 20-25 12/22/08	OU4 WCMW-16I2 30-35 12/22/08
<b>Total PAHs (ug/L)</b>				
Total PAHs	NE	ND	ND	ND
<b>Total Metals (ug/L)</b>				
Aluminum	NE	NA	NA	NA
Arsenic	25	NA	NA	NA
Barium	1000	NA	NA	NA
Cadmium	5	NA	NA	NA
Calcium	NE	NA	NA	NA
Chromium	50	NA	NA	NA
Cobalt	NE	NA	NA	NA
Copper	200	NA	NA	NA
Iron	300	NA	NA	NA
Lead	25	NA	NA	NA
Magnesium	35000*	NA	NA	NA
Manganese	300	NA	NA	NA
Nickel	100	NA	NA	NA
Potassium	NE	NA	NA	NA
Selenium	10	NA	NA	NA
Silver	50	NA	NA	NA
Sodium	20000	NA	NA	NA
Thallium	0.5*	NA	NA	NA
Vanadium	NE	NA	NA	NA
Zinc	2000*	NA	NA	NA
<b>Other (mg/L)</b>				
Nitrogen, Ammonia	2000	NA	NA	NA
Nitrogen, Nitrate	10000	NA	NA	NA
Nitrogen, Total	NE	NA	NA	NA
Nitrogen, Total Kjeldahl	NE	NA	NA	NA
Standard Plate Count	NE	NA	NA	NA
Sulfate	250000	NA	NA	NA
Total Phosphorous	NE	NA	NA	NA

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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	<b>NYS AWQS</b>	<b>OU4 WCMW-16S 2-12 12/22/08</b>
<b><i>BTEX (ug/L)</i></b>		
Benzene	1	10 U
Toluene	5	10 U
Ethylbenzene	5	10 U
Xylene, m,p-	5	10 U
Xylene, o-	5	10 U
Total BTEX	NE	ND
<b><i>Other VOCs (ug/L)</i></b>		
Acetone	50*	10 UJ
Bromomethane	5	10 U
Butanone, 2-	50*	10 UJ
Chloroform	7	10 U
Chloromethane	5	10 UJ
Cyclohexane	NE	10 UJ
Dichlorobenzene, 1,2-	3	10 U
Dichlorobenzene, 1,3-	3	10 U
Dichlorobenzene, 1,4-	3	10 U
Dichlorodifluoromethane	5	10 UJ
Dichloroethane, 1,1-	5	10 U
Dichloroethene, 1,1-	0.07	10 U
Dichloroethene, cis-1,2-	5	10 U
Heptane, n-	NE	10 UJ
Hexane, n-	NE	10 UJ
Isopropyl benzene	5	10 U
Methyl tert-butyl ether	10*	10 UJ
Naphthalene	10*	10 U
Nonane	NE	NA
Octane, n-	NE	NA
Propylbenzene, n-	5	10 U
Styrene	5	10 U
Tetrachloroethene	5	10 U
Tetrahydrofuran	50*	10 U
Trichloroethene	5	10 U
Trimethylbenzene 1,3,5-/P-ethyltoluene	NE	10 U
Trimethylbenzene, 1,2,4-	5	10 U
Trimethylpentane, 2,2,4-	NE	10 UJ
<b><i>Non-carcinogenic PAHs (ug/L)</i></b>		
Acenaphthene	20*	10 U
Acenaphthylene	NE	10 U
Anthracene	50*	10 U
Fluoranthene	50*	10 U
Fluorene	50*	10 U
Methylnaphthalene, 2-	NE	10 U
Naphthalene	10*	10 U
Phenanthrene	50*	10 U
Pyrene	50*	10 U
Total Non-carcinogenic PAHs	NE	ND
<b><i>Carcinogenic PAHs (ug/L)</i></b>		
Total Carcinogenic PAHs	NE	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)

<b>Operable Unit: Well ID: Screened Interval (feet): Date Sampled:</b>	NYS AWQS	OU4 WCMW-16S 2-12 12/22/08
<b>Total PAHs (ug/L)</b>		
Total PAHs	NE	ND
<b>Total Metals (ug/L)</b>		
Aluminum	NE	NA
Arsenic	25	NA
Barium	1000	NA
Cadmium	5	NA
Calcium	NE	NA
Chromium	50	NA
Cobalt	NE	NA
Copper	200	NA
Iron	300	NA
Lead	25	NA
Magnesium	35000*	NA
Manganese	300	NA
Nickel	100	NA
Potassium	NE	NA
Selenium	10	NA
Silver	50	NA
Sodium	20000	NA
Thallium	0.5*	NA
Vanadium	NE	NA
Zinc	2000*	NA
<b>Other (mg/L)</b>		
Nitrogen, Ammonia	2000	NA
Nitrogen, Nitrate	10000	NA
Nitrogen, Total	NE	NA
Nitrogen, Total Kjeldahl	NE	NA
Standard Plate Count	NE	NA
Sulfate	250000	NA
Total Phosphorous	NE	NA

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

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

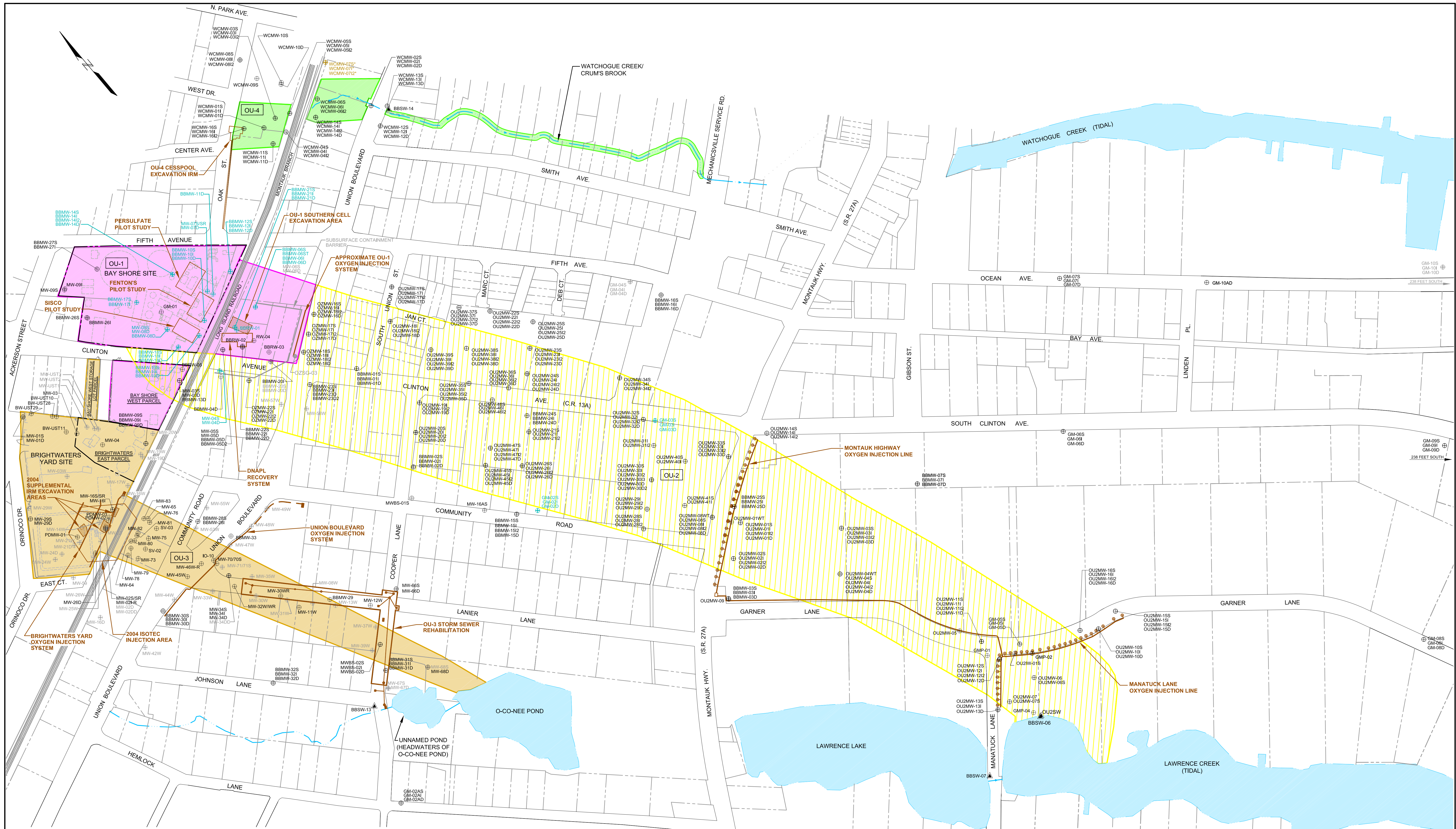
U - indicates not detected at or above the reporting limit shown

J - estimated value

UU - not detected at or above the reporting limit shown and the reporting limit is  
estimated

## Figures

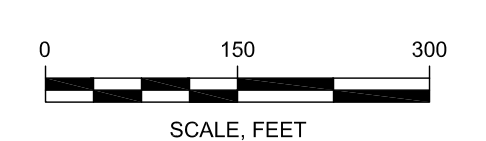
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- SOURCES:**
1. MAP TITLED "BAY SHORE/BRIGHTWATERS, FORMER MGP SITE FINAL REMEDIAL INVESTIGATION, BAY SHORE, NEW YORK, OFF-SITE SAMPLE LOCATION MAP" DATED: SEPT. 2002 BY DVIRKA AND BARTILUCCI.
  2. FIGURE 2. GROUNDWATER MONITORING WELL AND SURFACE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

**LEGEND:**

⊕ GM-02AS	ACTIVE MONITORING WELL LOCATION	⊕ OUMW-01S	EXISTING MONITORING WELL CLUSTER LOCATION
⊕ MW-67D	DESTROYED MONITORING WELL LOCATION	⊕ OUMW-01I	S=SHALLOW
⊕ GM-03S	ABANDONED MONITORING WELL LOCATION	⊕ OUMW-01I2	I=INTERMEDIATE
⊕ WCMW-07S*	CONDITION UNKNOWN	⊕ OUMW-01D	I2= INTERMEDIATE TWO
▲ BBSW-06	SURFACE WATER GAUGING STATION LOCATION		D=DEEP



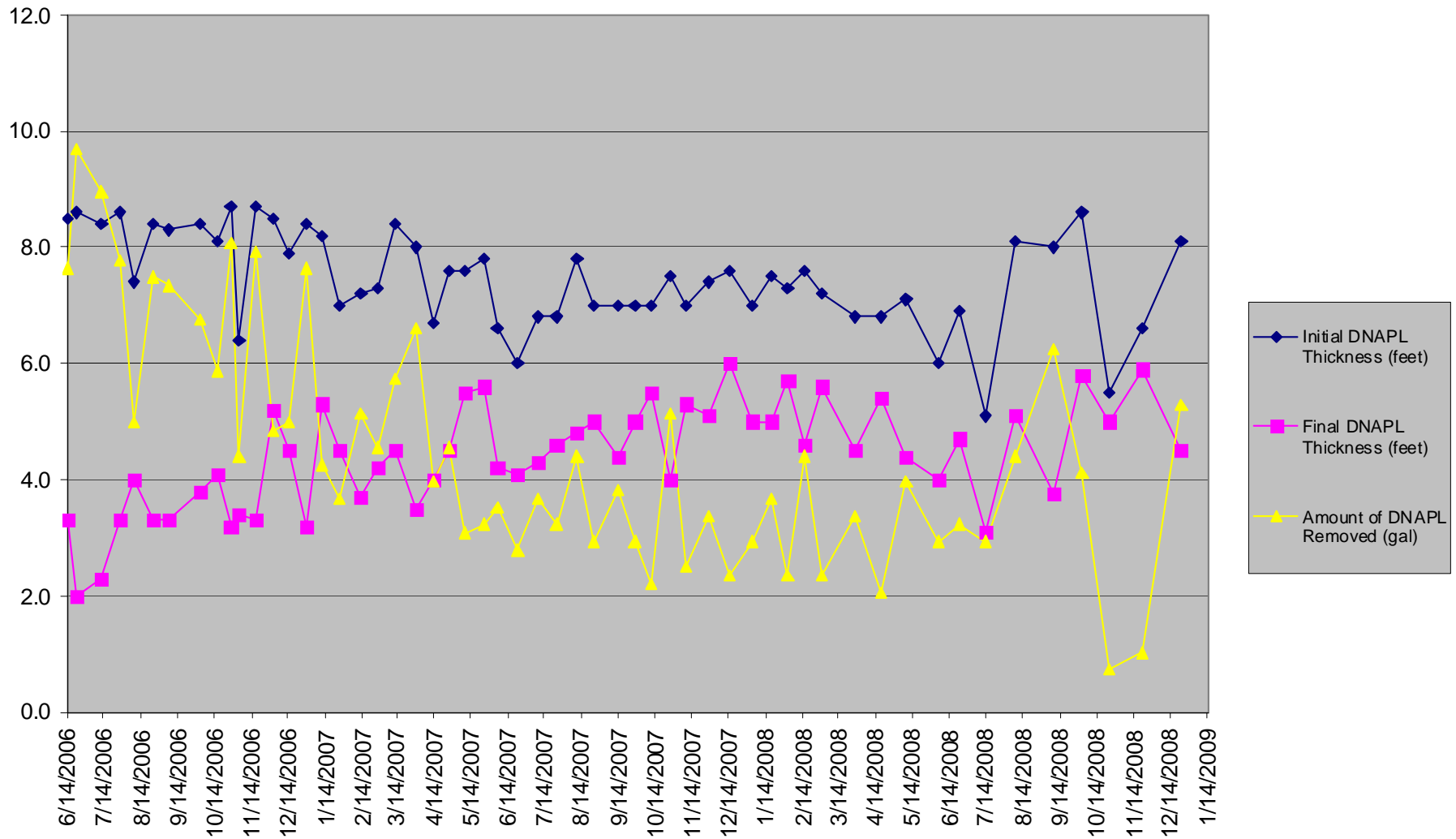
BAY SHORE/BRIGHTWATERS  
FORMER MGP SITE  
BAY SHORE, NEW YORK  
**nationalgrid**  
PROJECT 061140-8-1707



**MONITORING WELL AND SURFACE WATER GAUGING STATION LOCATION MAP**

I:\GEN\National Grid\Bay Shore\Groundwater-Quarterly Monitoring\Figs\Bay-wells PLATE Q4-08.DWG \Mar 31, 2009

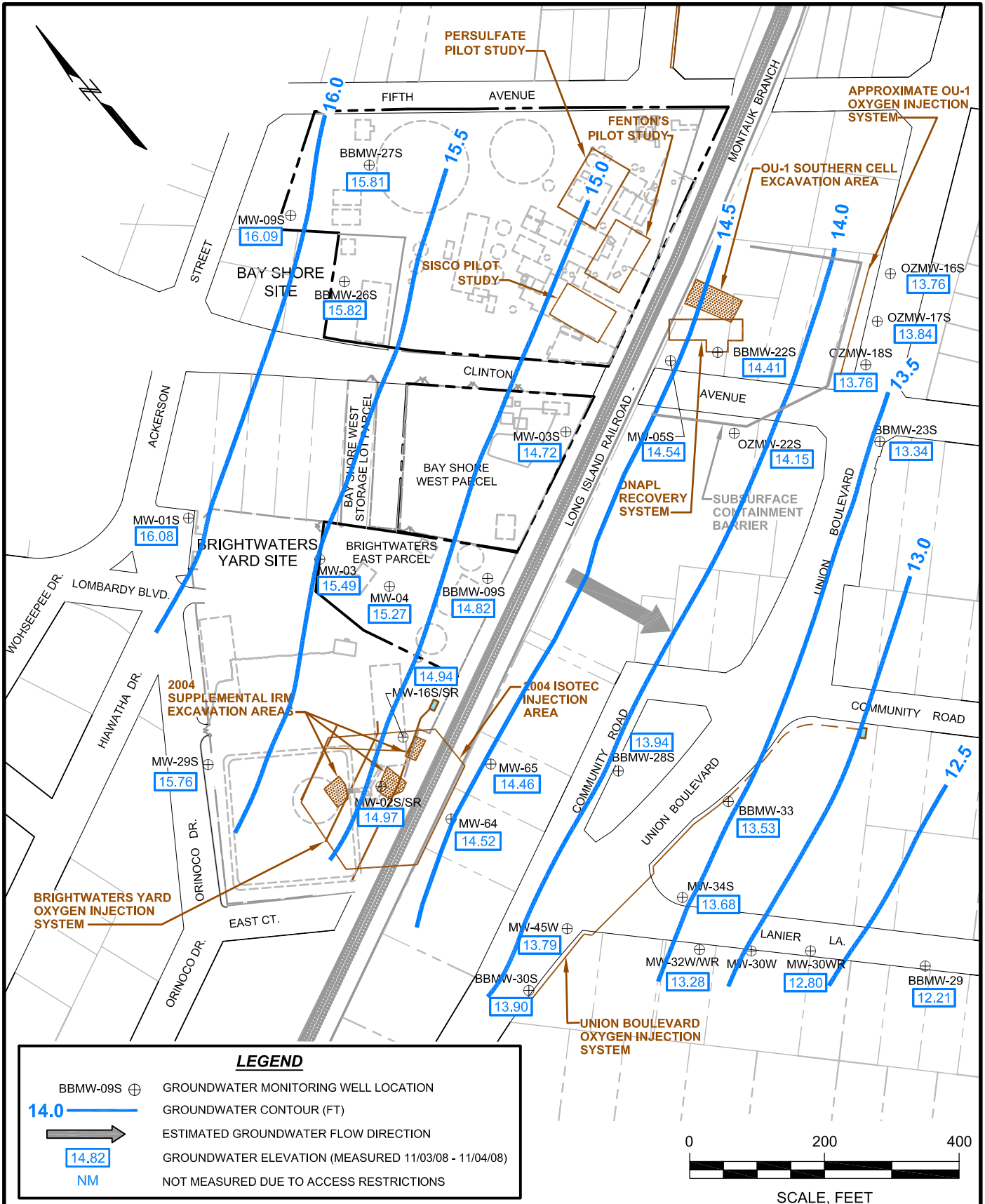
### DNAPL Recovery Data BBRW-02



BAY SHORE/BRIGHTWATERS FORMER MGP SITE BAY SHORE, NEW YORK	
	Project 061140-8-1707

<b>DNAPL RECOVERY DATA BBRW-02</b>
March 2009
Figure 2





BAY SHORE/BRIGHTWATERS  
FORMER MGP SITE  
BAY SHORE, NEW YORK

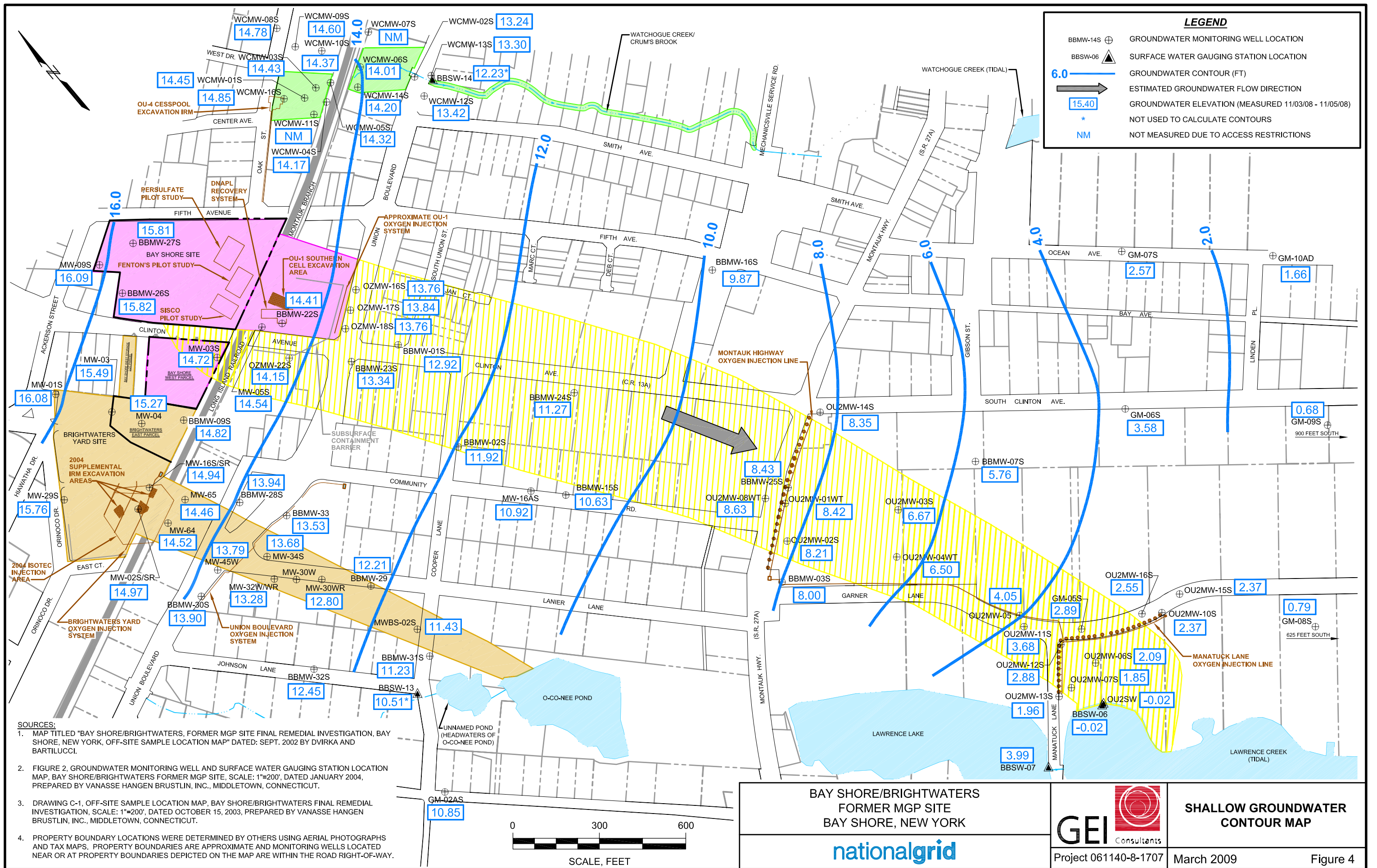


**ON-SITE  
SHALLOW GROUNDWATER  
CONTOUR MAP**

Project 061140-8-1707

March 2009

Figure 3



**LEGEND**

- BBMW-14S ⊕ GROUNDWATER MONITORING WELL LOCATION
- BBSW-06 ▲ SURFACE WATER GAUGING STATION LOCATION
- 6.0 — GROUNDWATER CONTOUR (FT)
- ESTIMATED GROUNDWATER FLOW DIRECTION
- 15.40 GROUNDWATER ELEVATION (MEASURED 11/03/08 - 11/05/08)
- \* NOT USED TO CALCULATE CONTOURS
- NM NOT MEASURED DUE TO ACCESS RESTRICTIONS

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

BAY SHORE/BRIGHTWATERS  
FORMER MGP SITE  
BAY SHORE, NEW YORK

**nationalgrid**

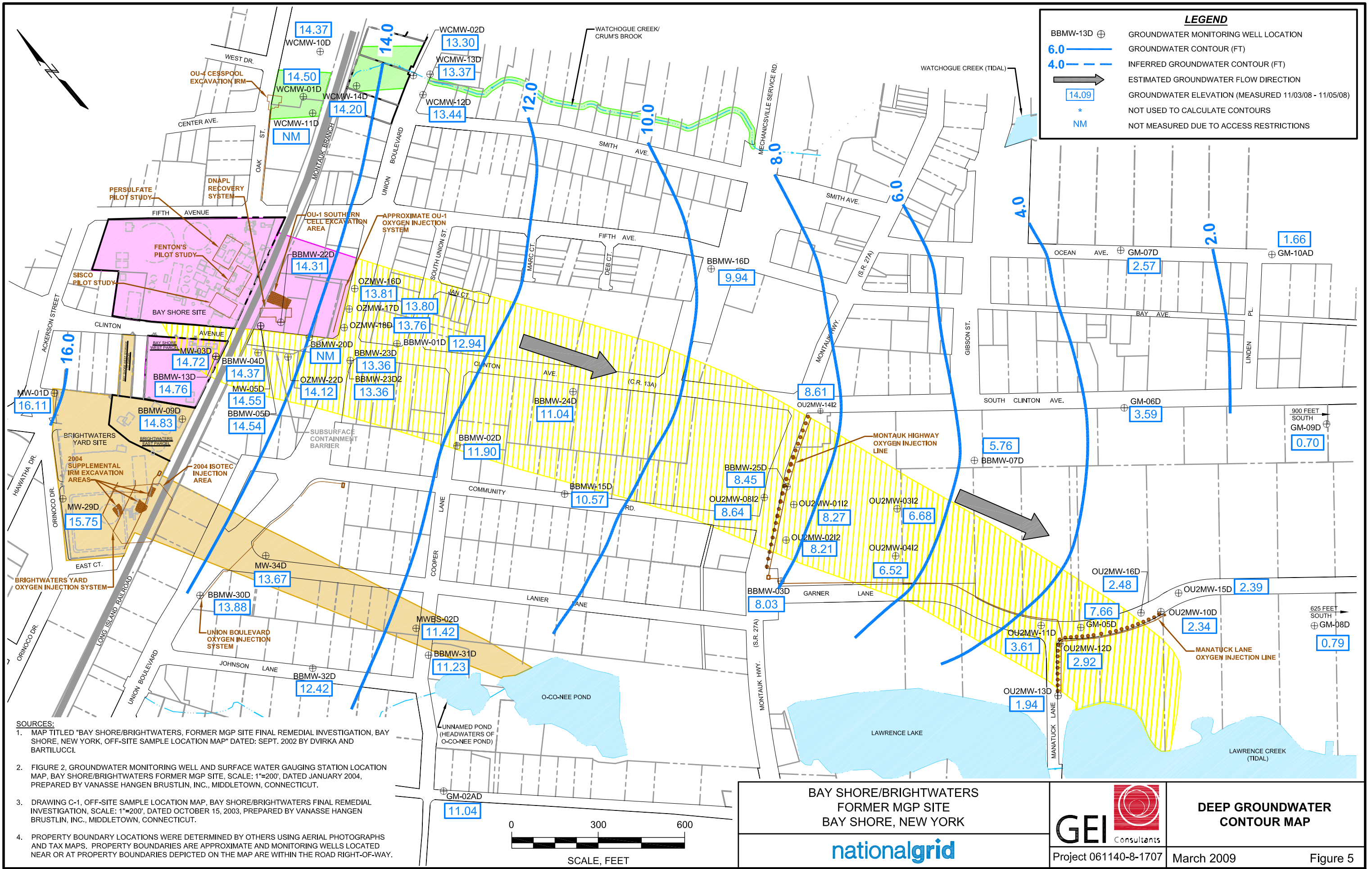
**GEI** Consultants

Project 061140-8-1707

**SHALLOW GROUNDWATER  
CONTOUR MAP**

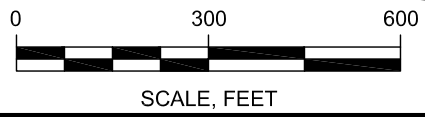
March 2009

Figure 4



LEGEND	
BMW-13D ⊕	GROUNDWATER MONITORING WELL LOCATION
6.0 ———	GROUNDWATER CONTOUR (FT)
4.0 - - -	INFERRED GROUNDWATER CONTOUR (FT)
→	ESTIMATED GROUNDWATER FLOW DIRECTION
14.09	GROUNDWATER ELEVATION (MEASURED 11/03/08 - 11/05/08)
*	NOT USED TO CALCULATE CONTOURS
NM	NOT MEASURED DUE TO ACCESS RESTRICTIONS

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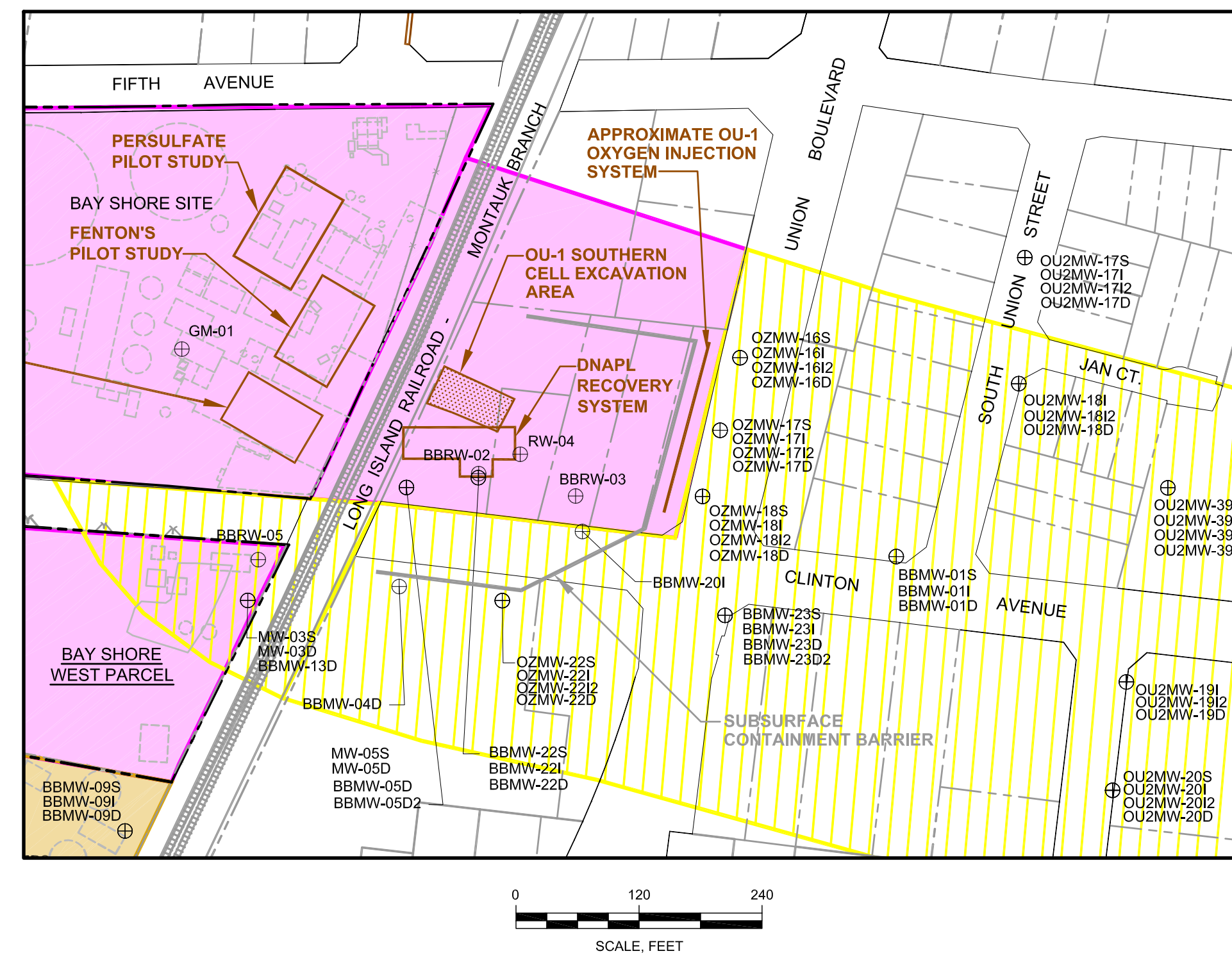
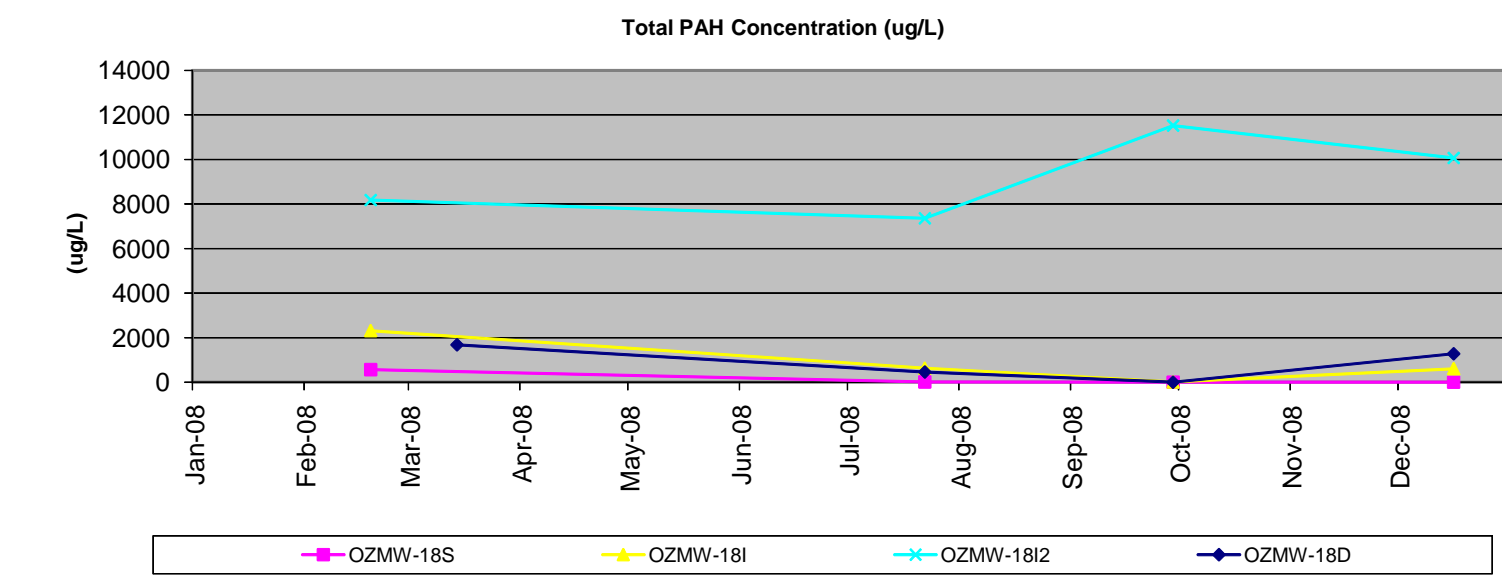
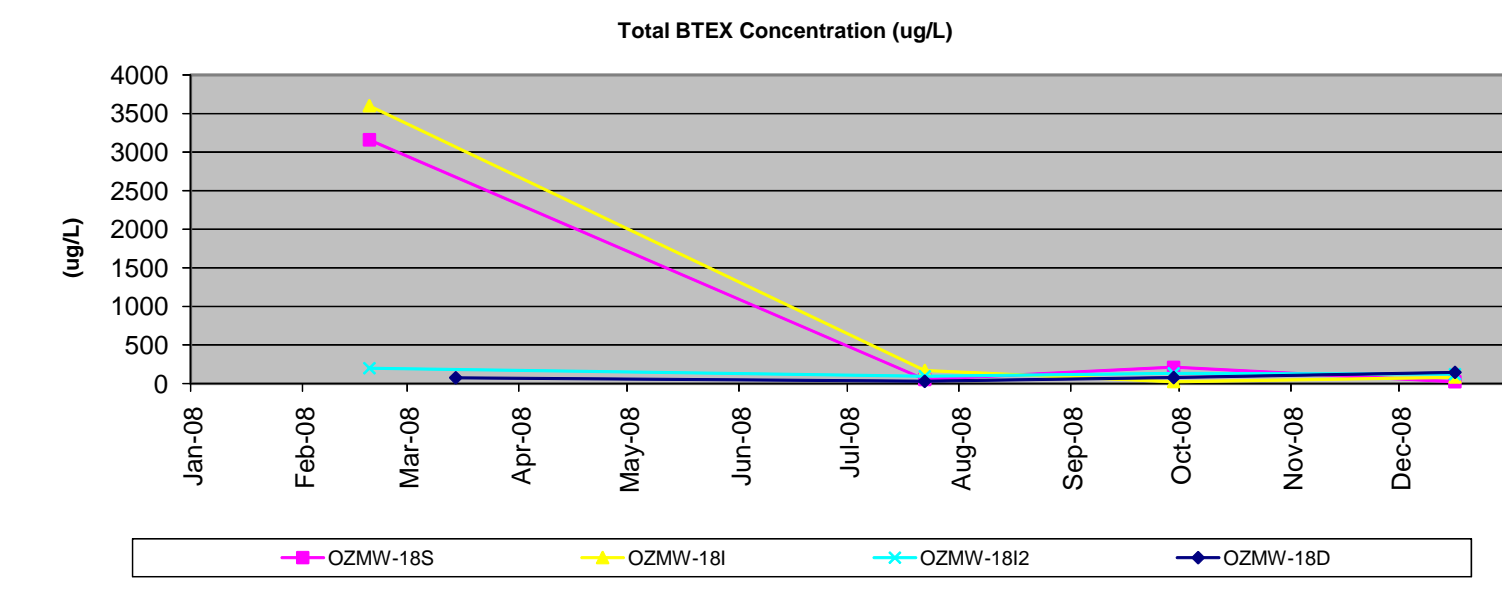
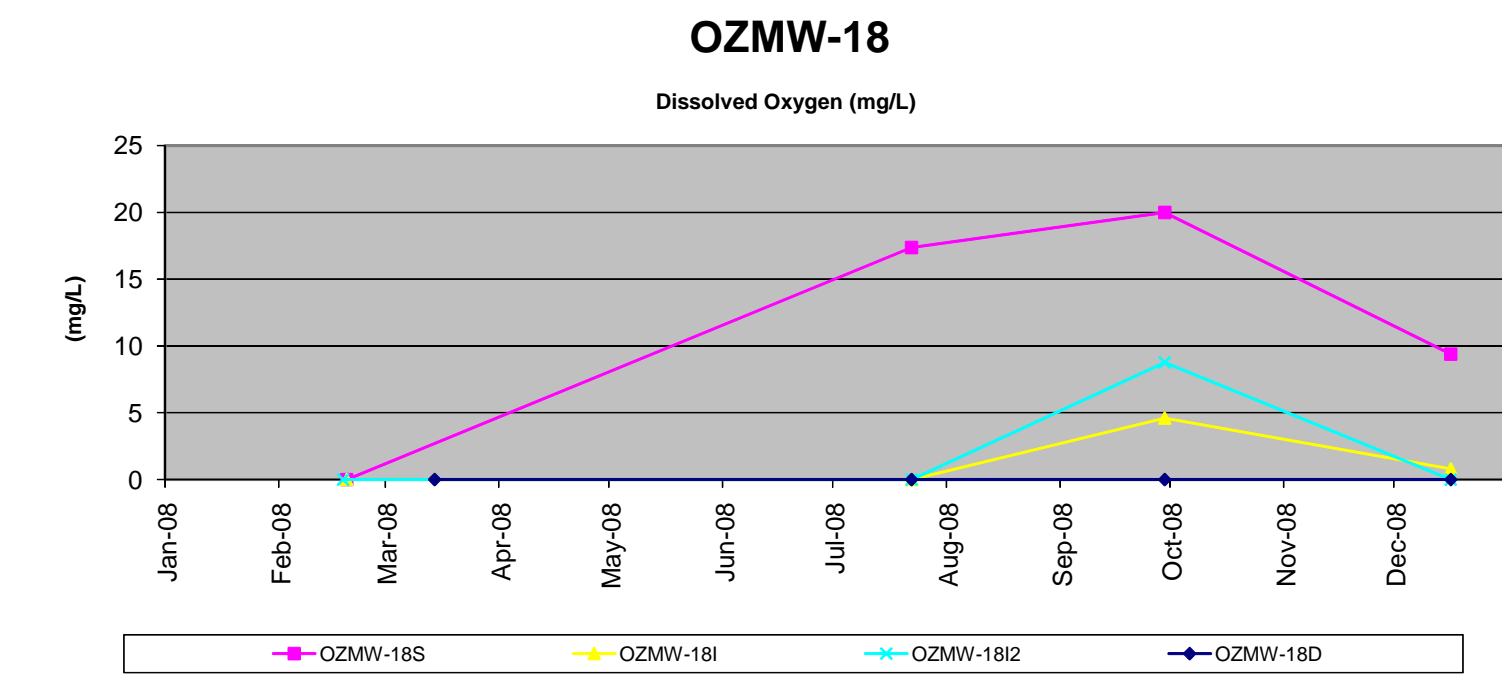
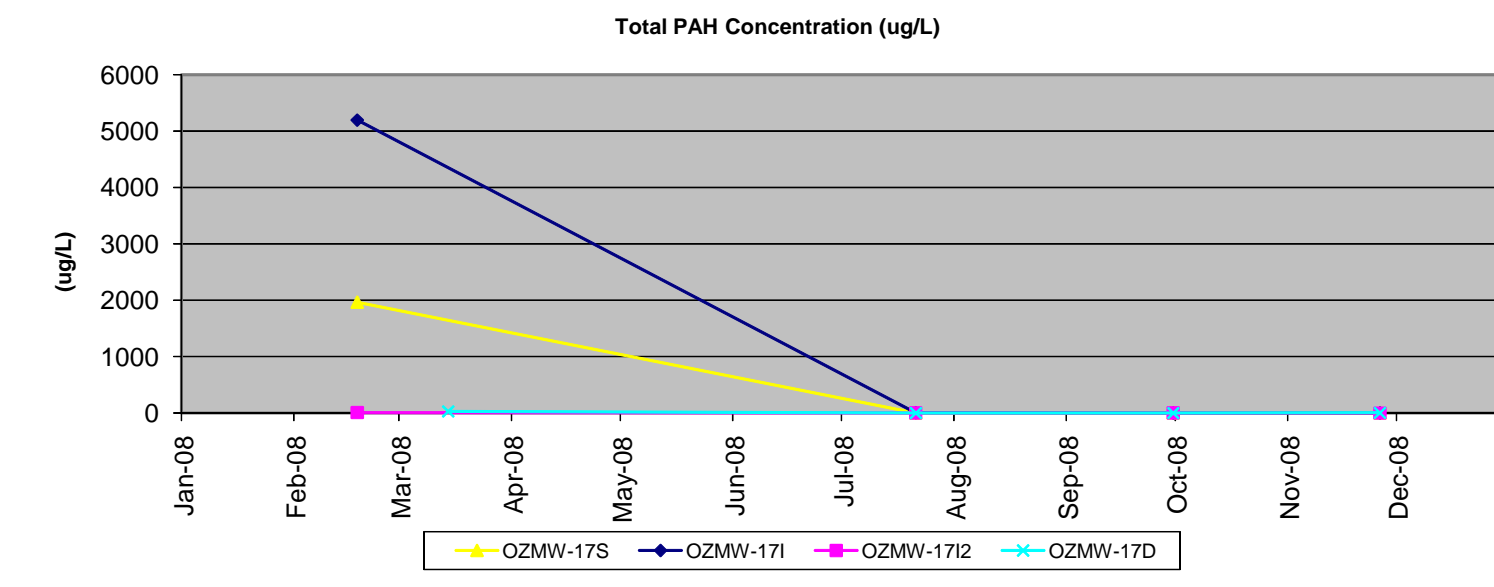
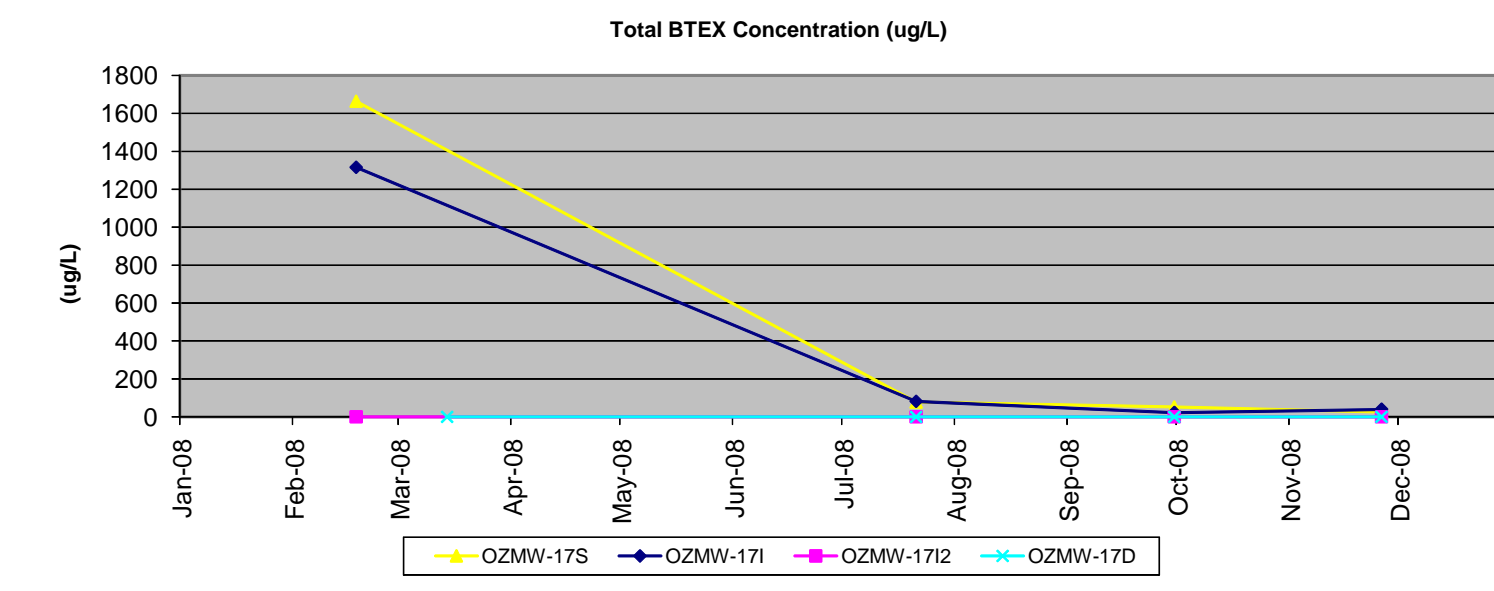
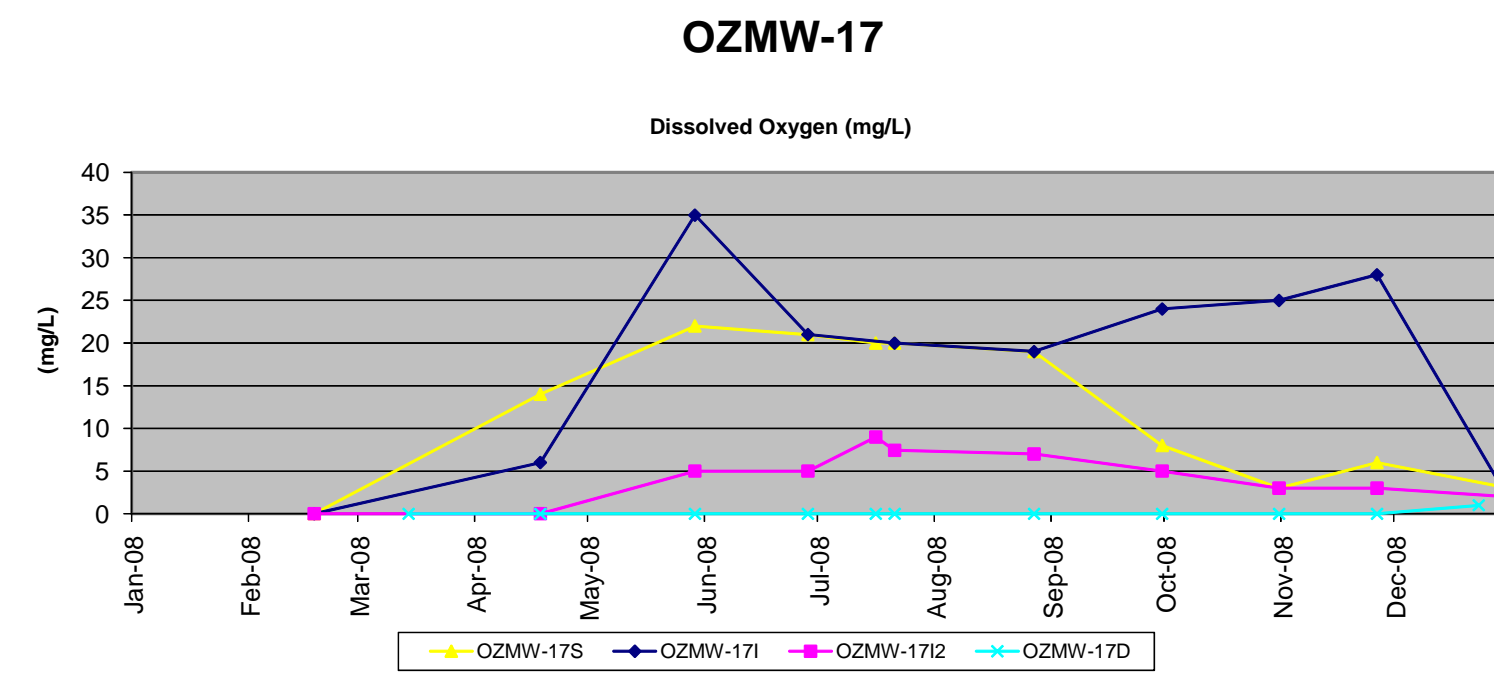
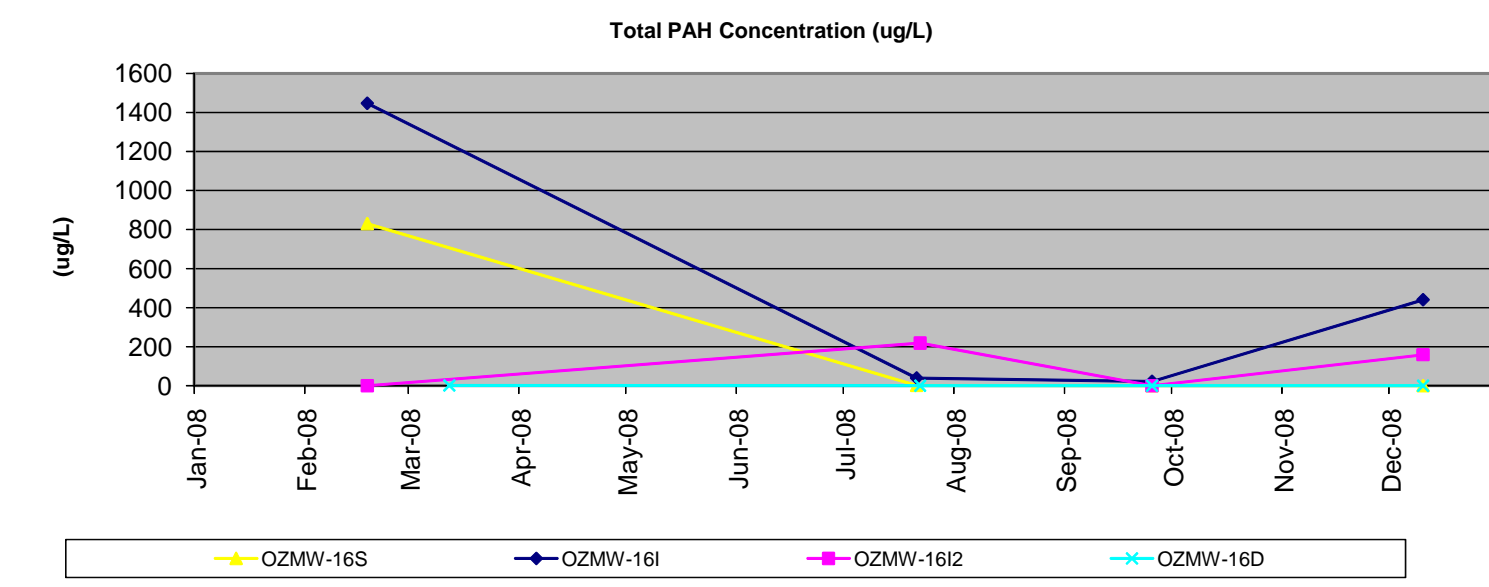
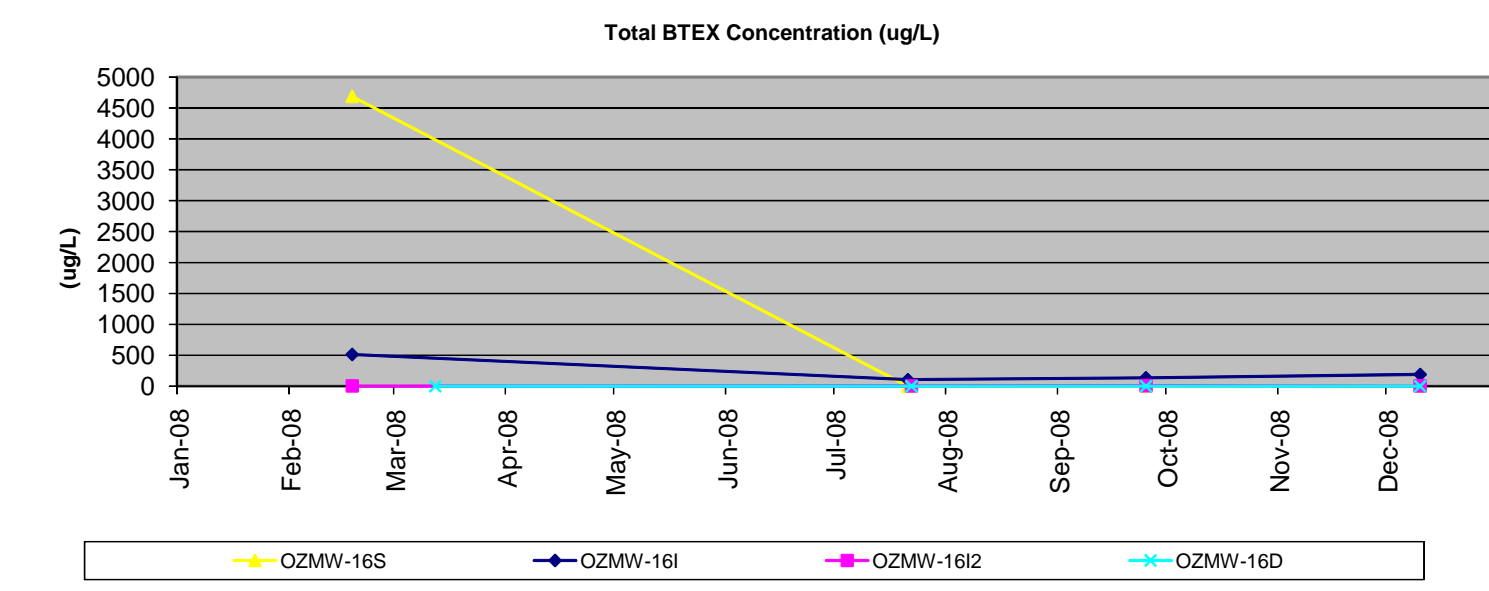
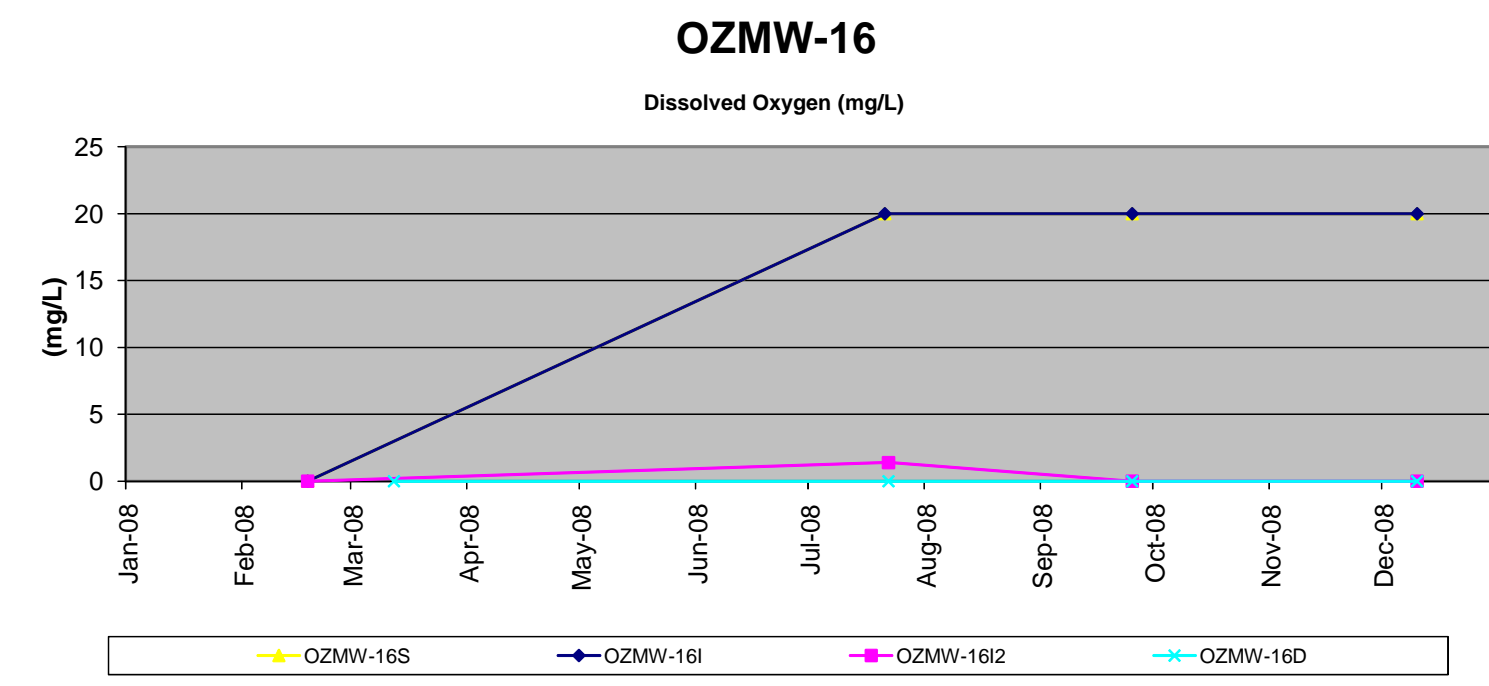
BAY SHORE/BRIGHTWATERS  
FORMER MGP SITE  
BAY SHORE, NEW YORK

Project 061140-8-1707

DEEP GROUNDWATER  
CONTOUR MAP

March 2009

Figure 5



**LEGEND:**  
 ⊕ OZMW-08  
 ⊕ WT, S, I, J, 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 DVIKKA AND BARTILUCCI.
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BAY SHORE/BRIGHTWATERS  
 FORMER MGP SITE  
 BAY SHORE, NEW YORK  
**nationalgrid**  
 PROJECT 061140-8-1707

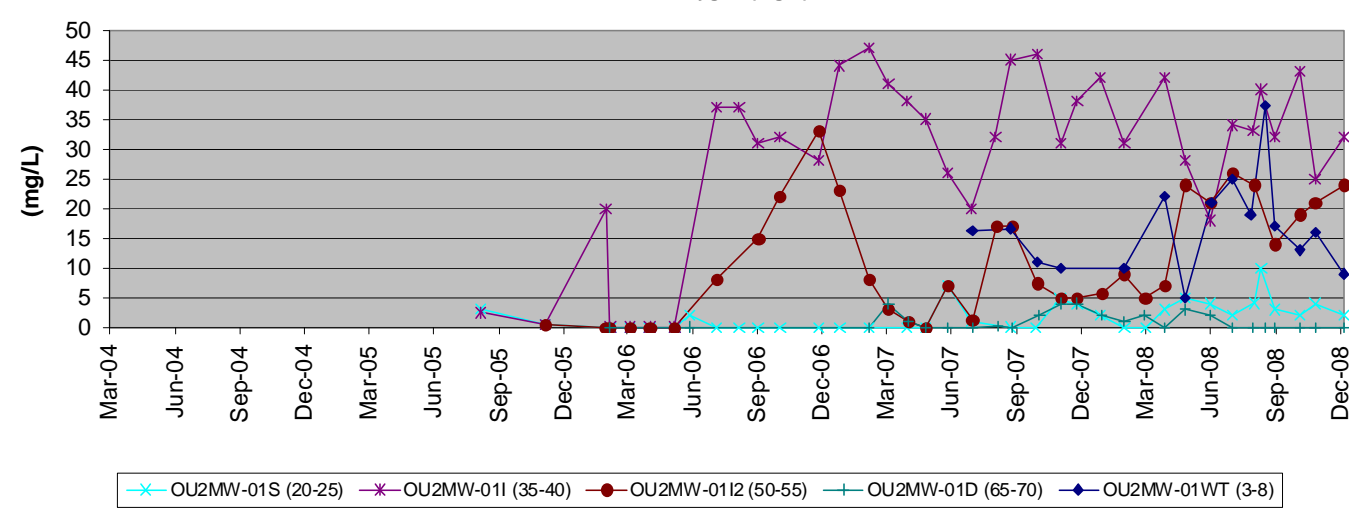
**GEI** Consultants  
 455 WINDING BROOK DRIVE  
 SUITE 201  
 GLASTONBURY, CONNECTICUT 06033

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

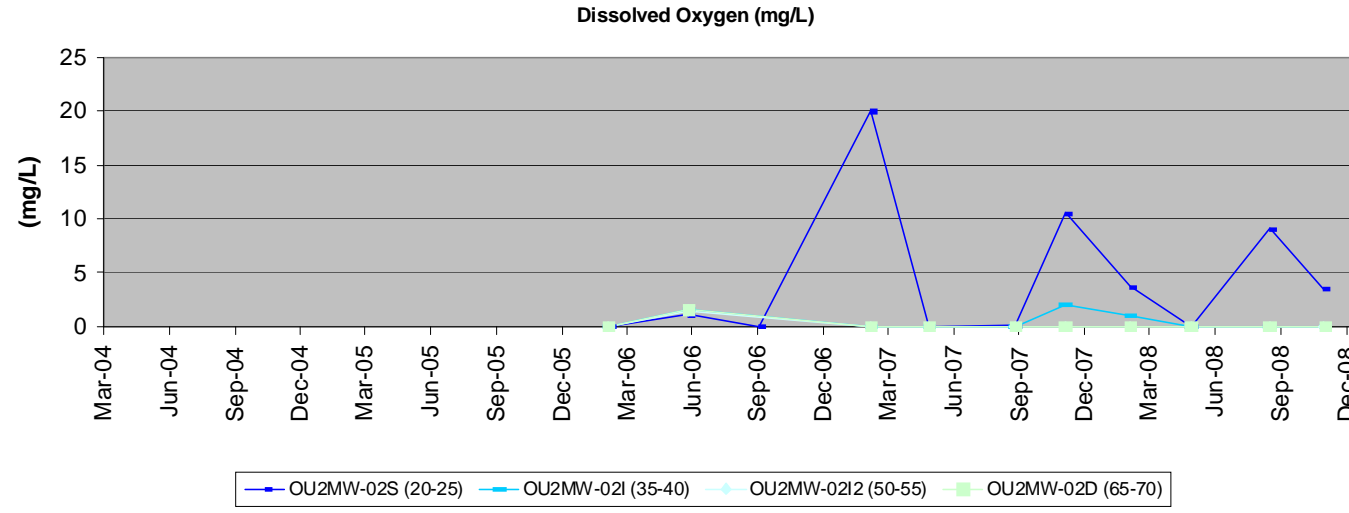
March 2009

Figure 6

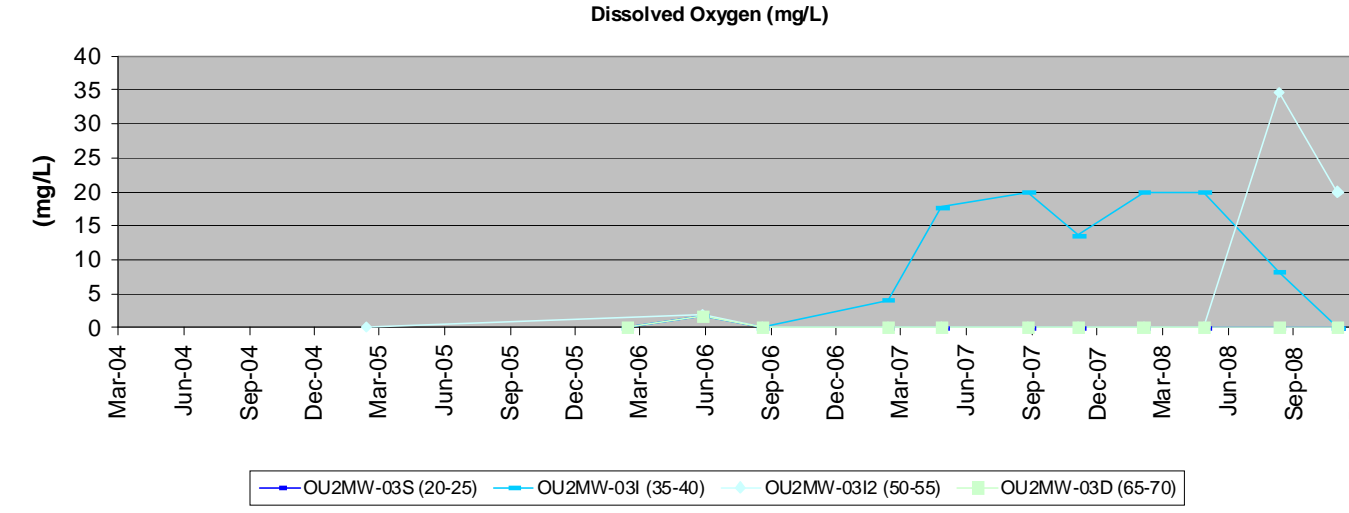
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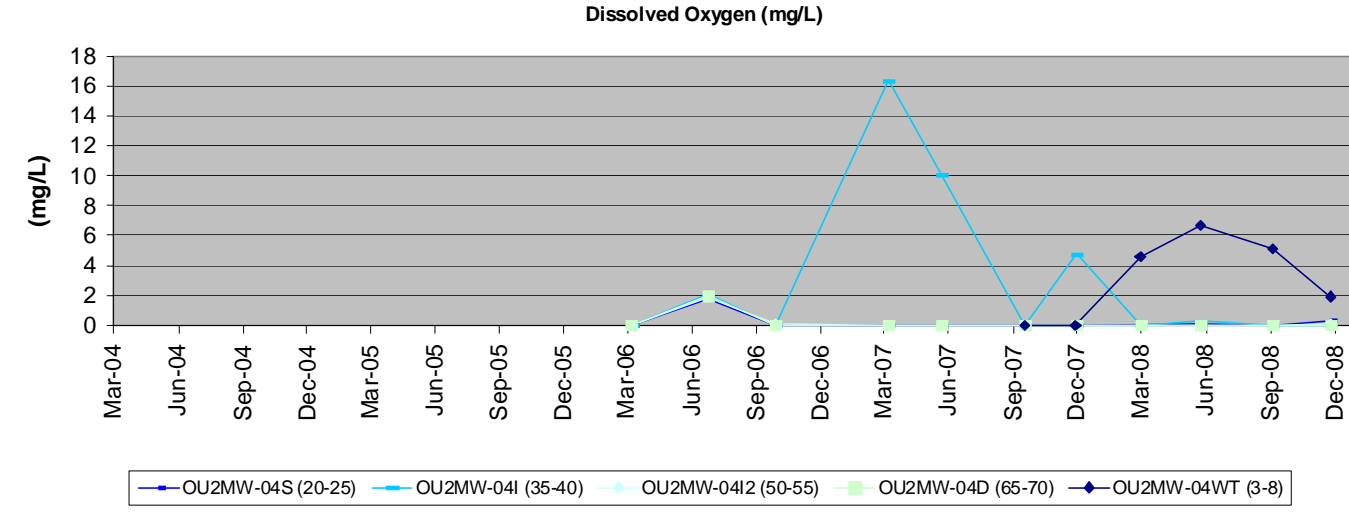
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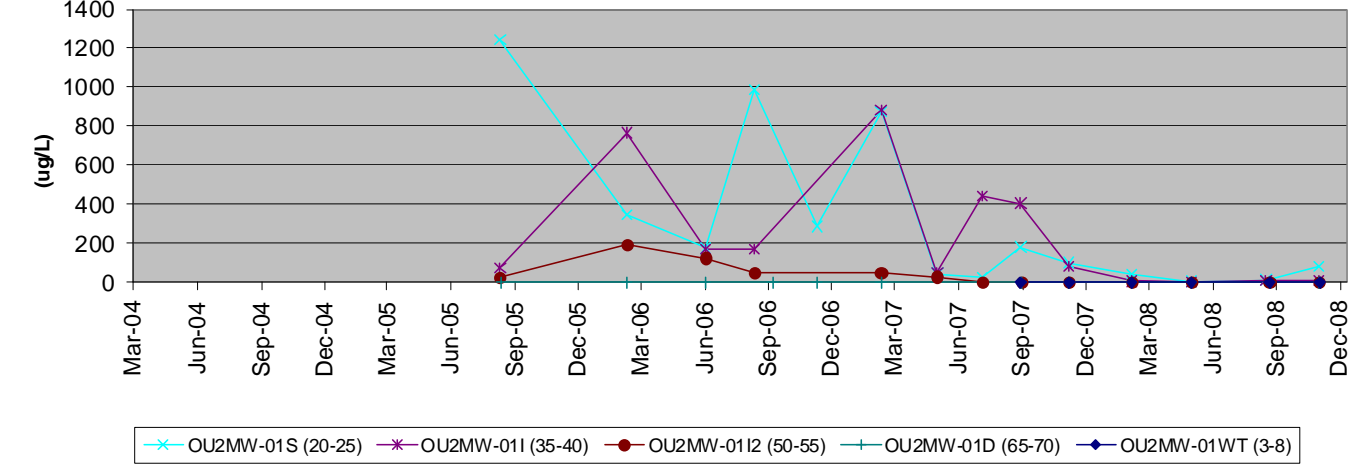
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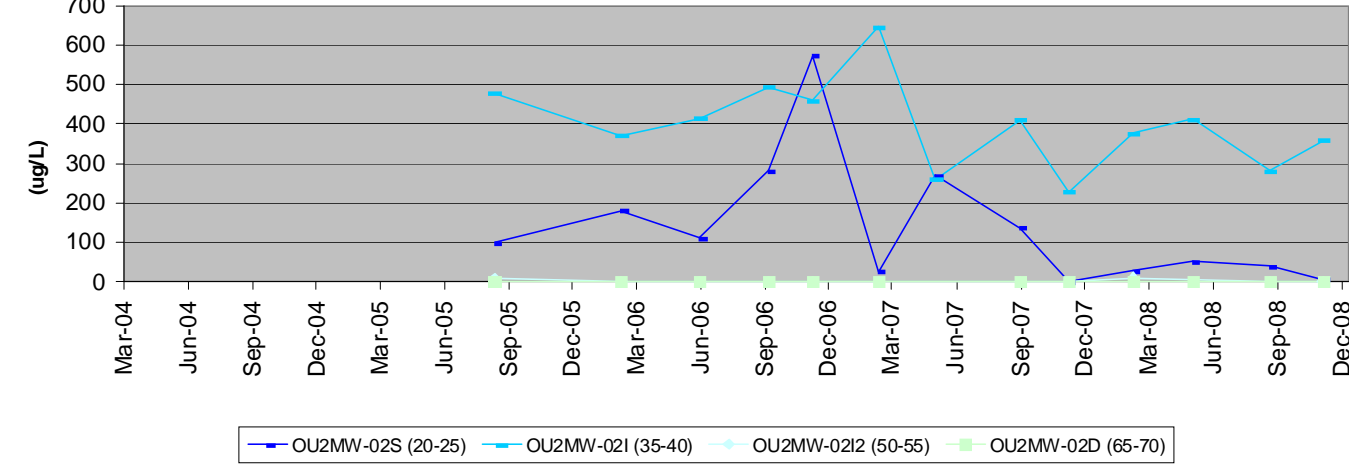
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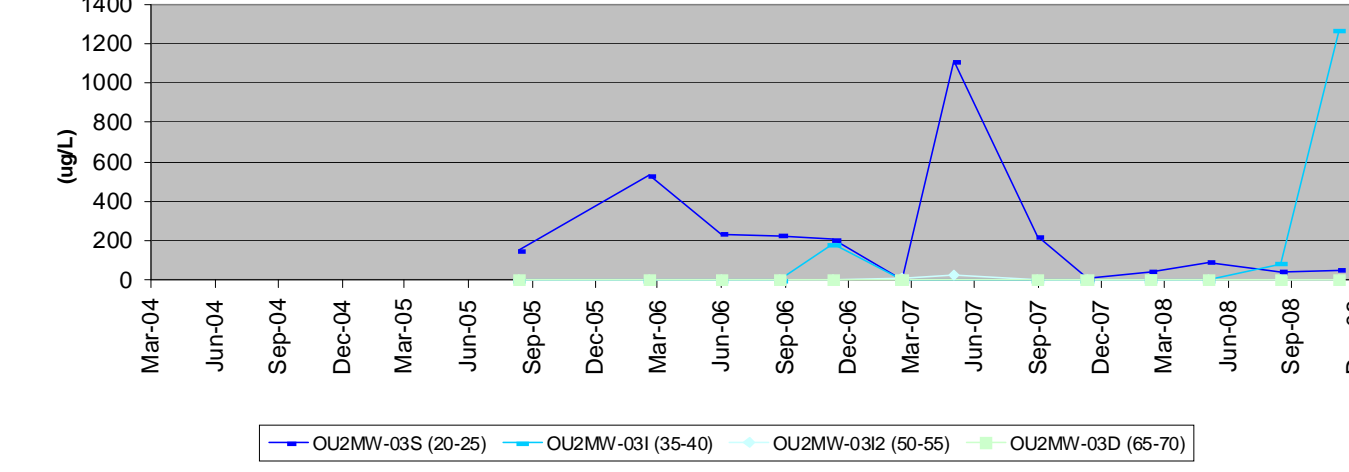
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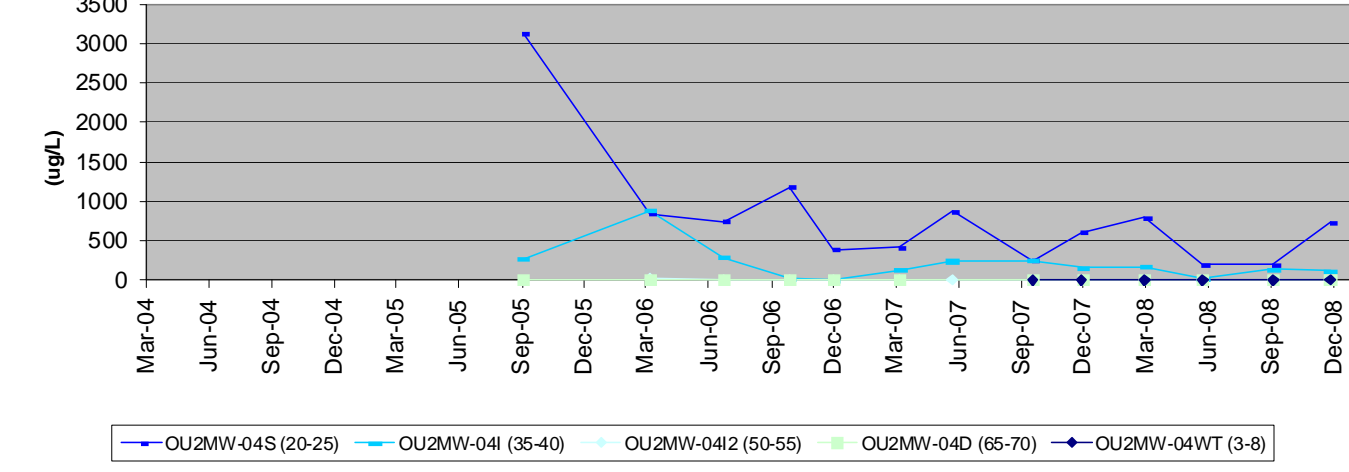
Total BTEX Concentration (ug/L)



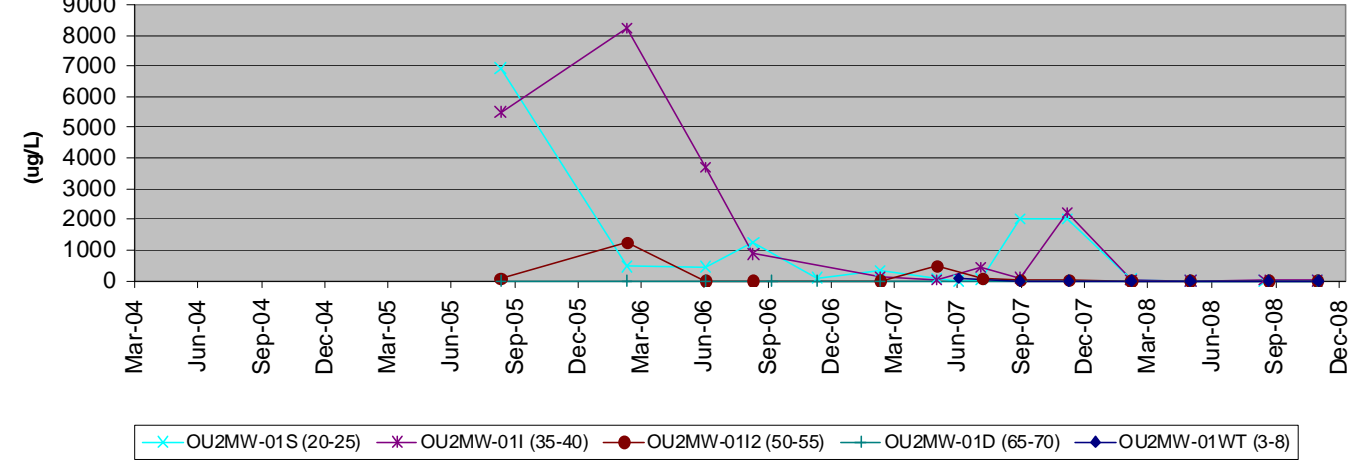
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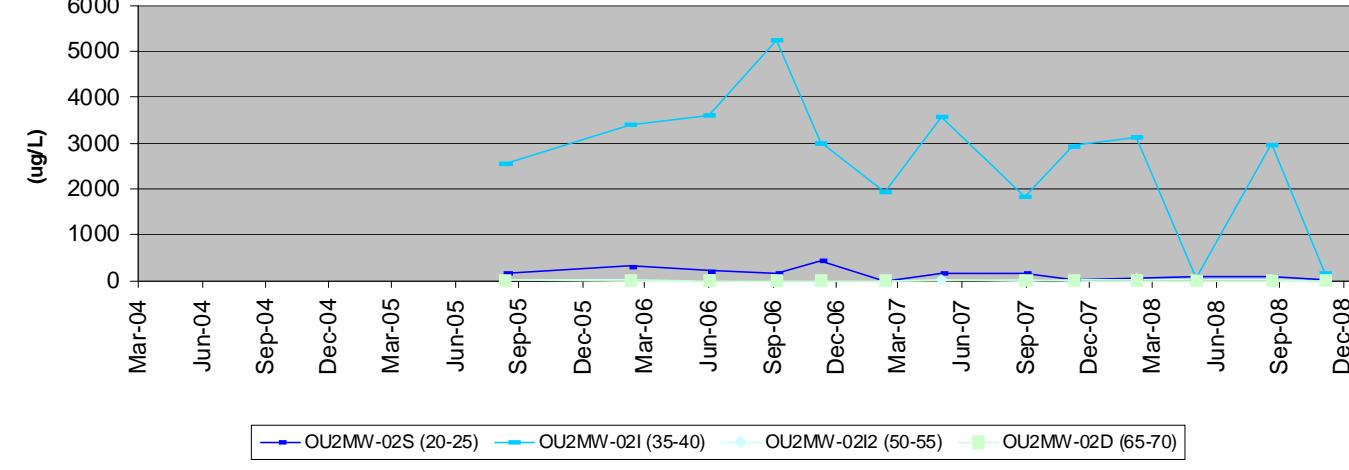
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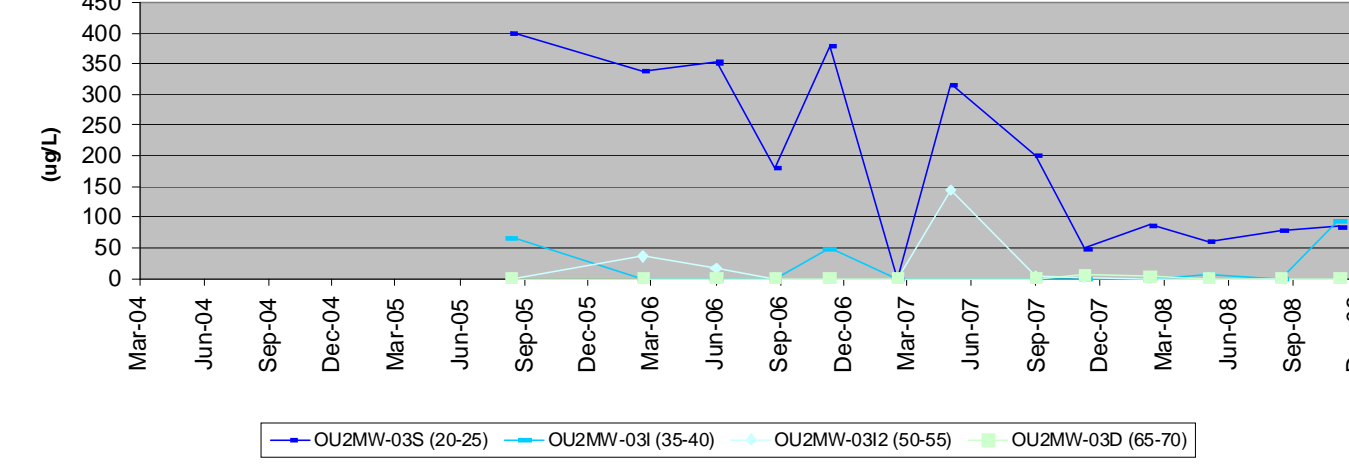
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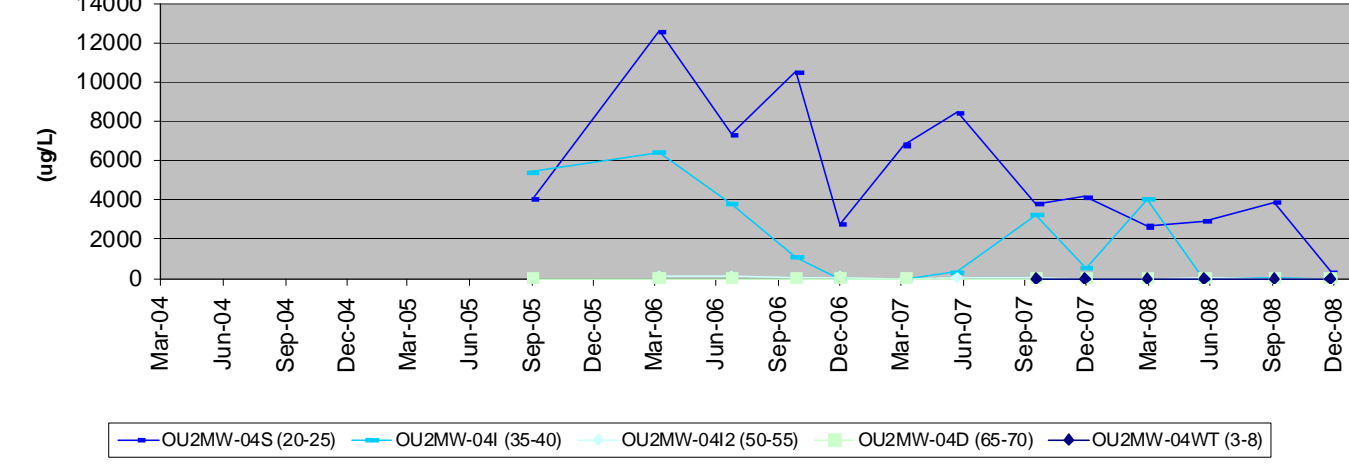
Total PAH Concentration (ug/L)



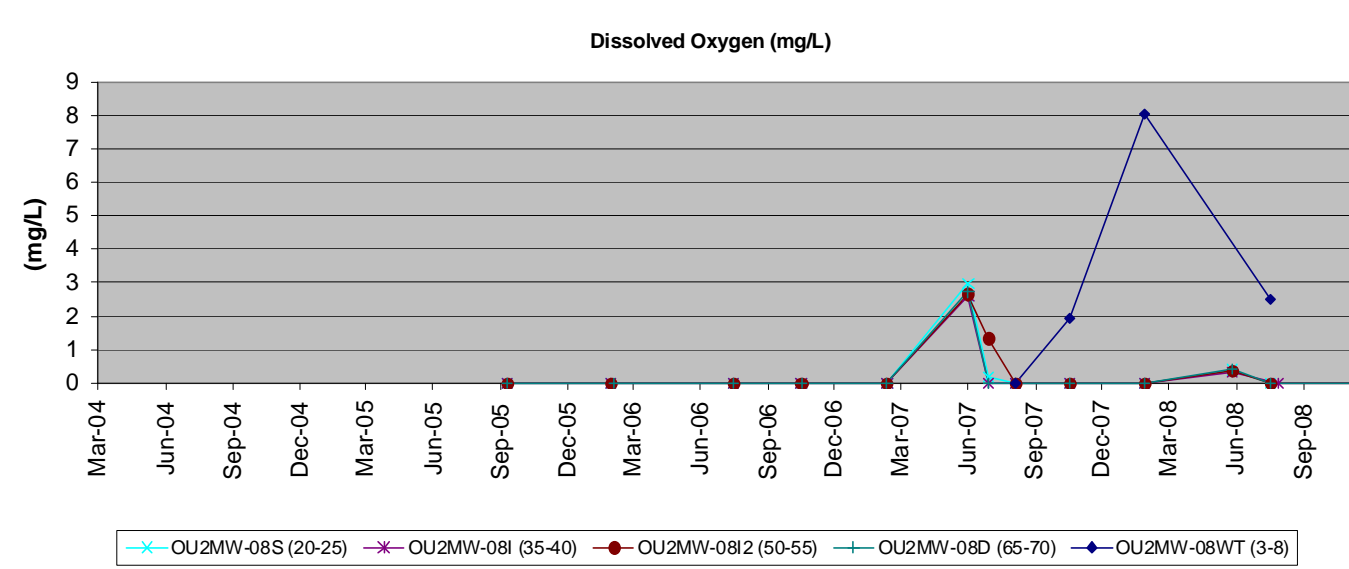
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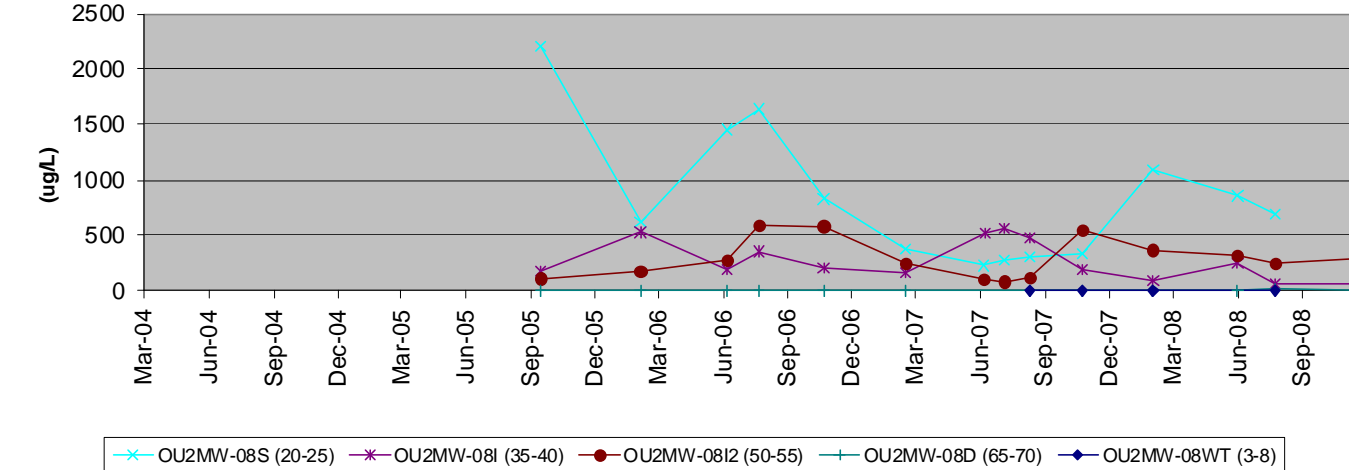
Total PAH Concentration (ug/L)



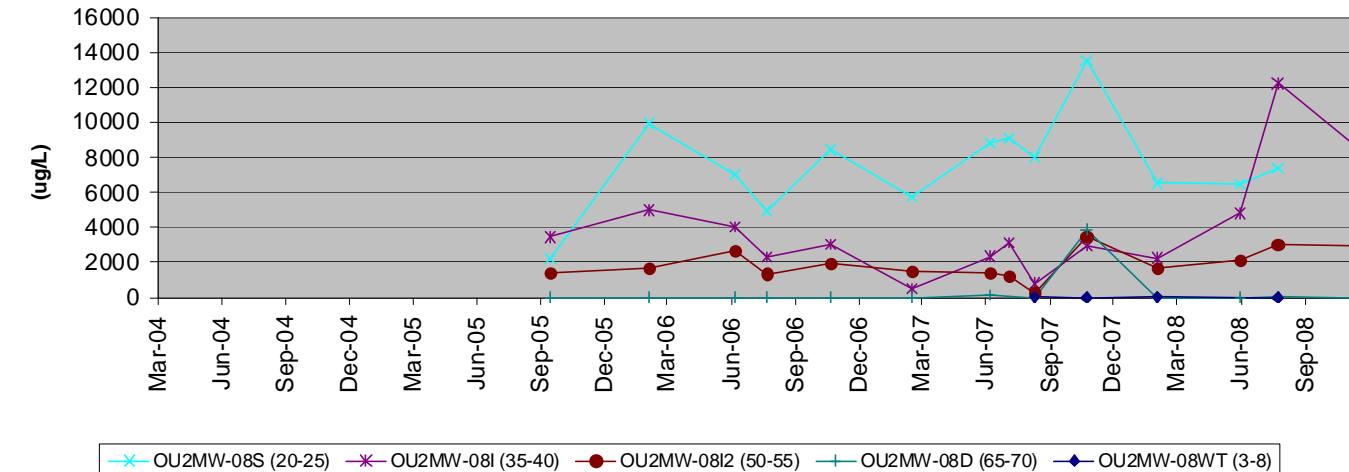
OU2MW-08



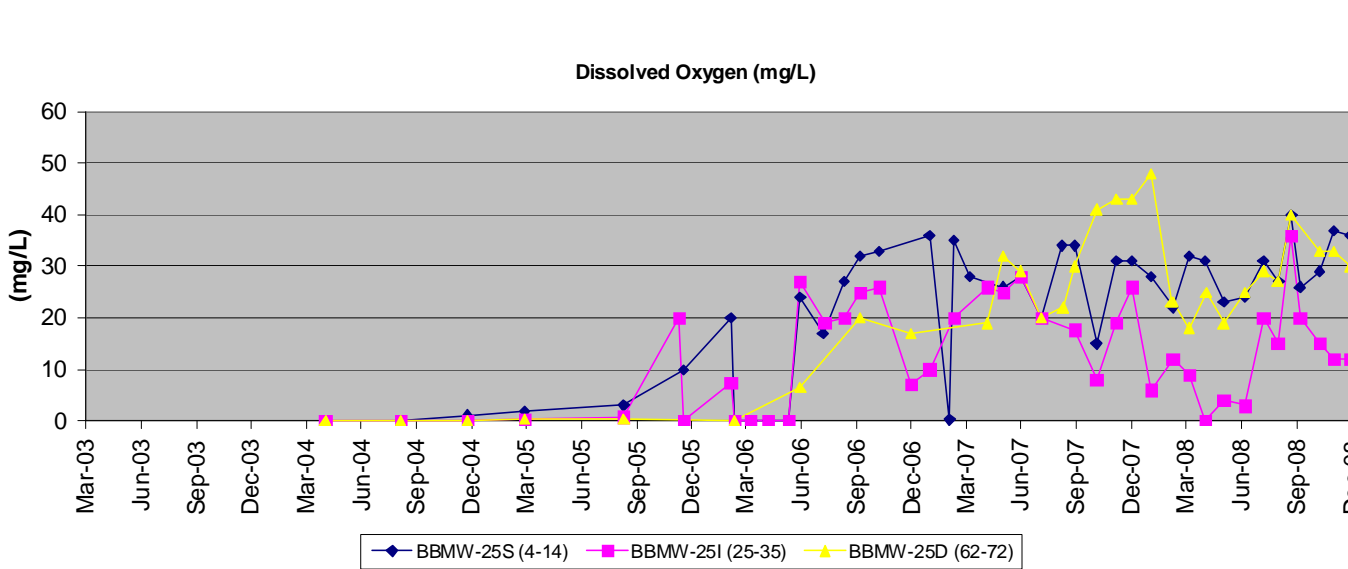
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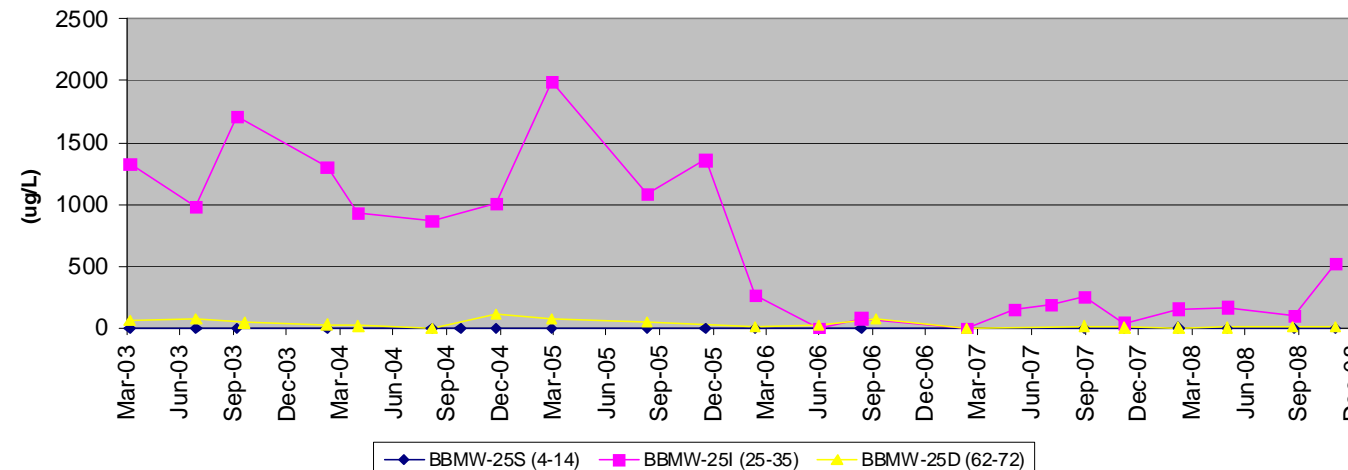
Total PAH Concentration (ug/L)



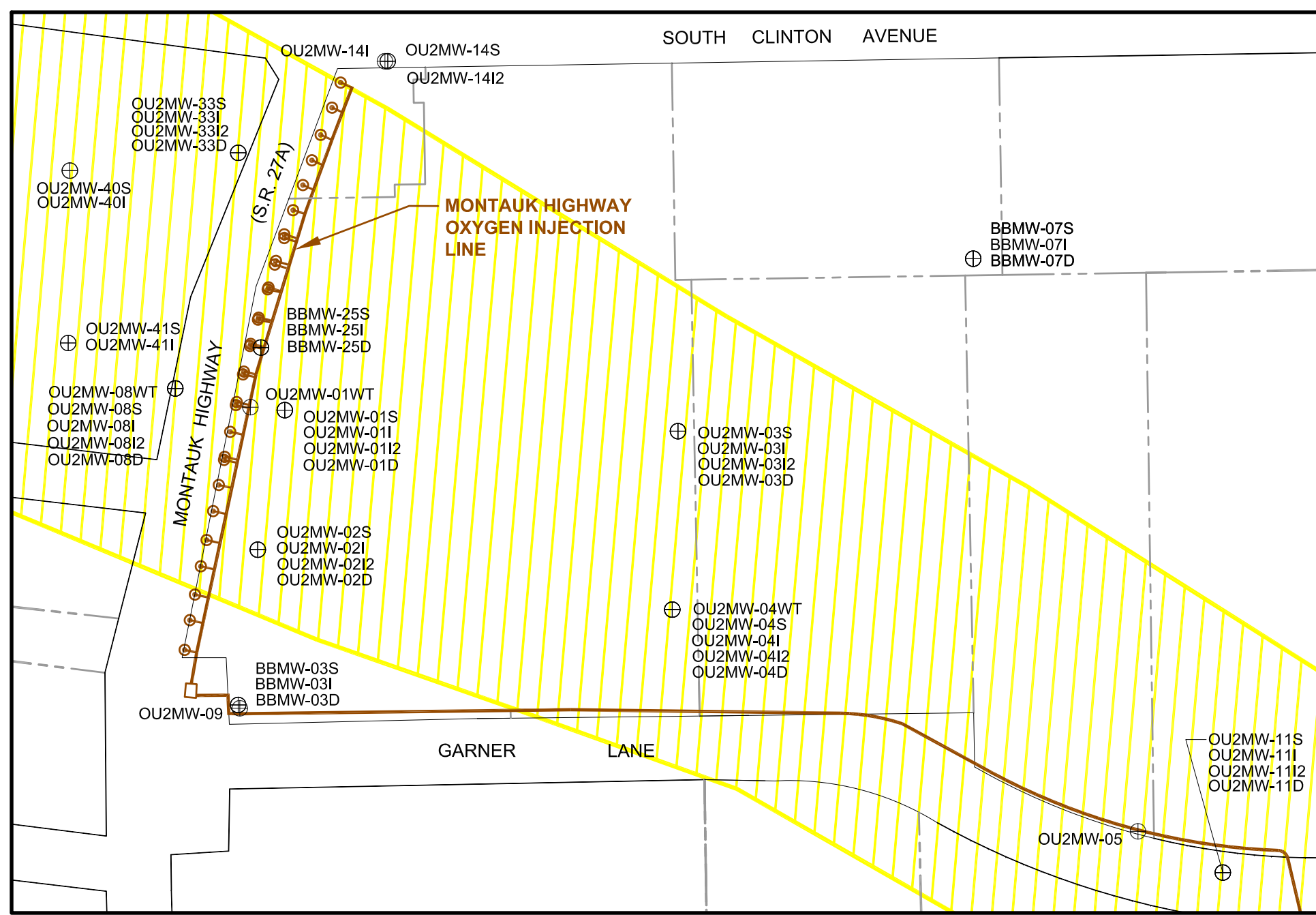
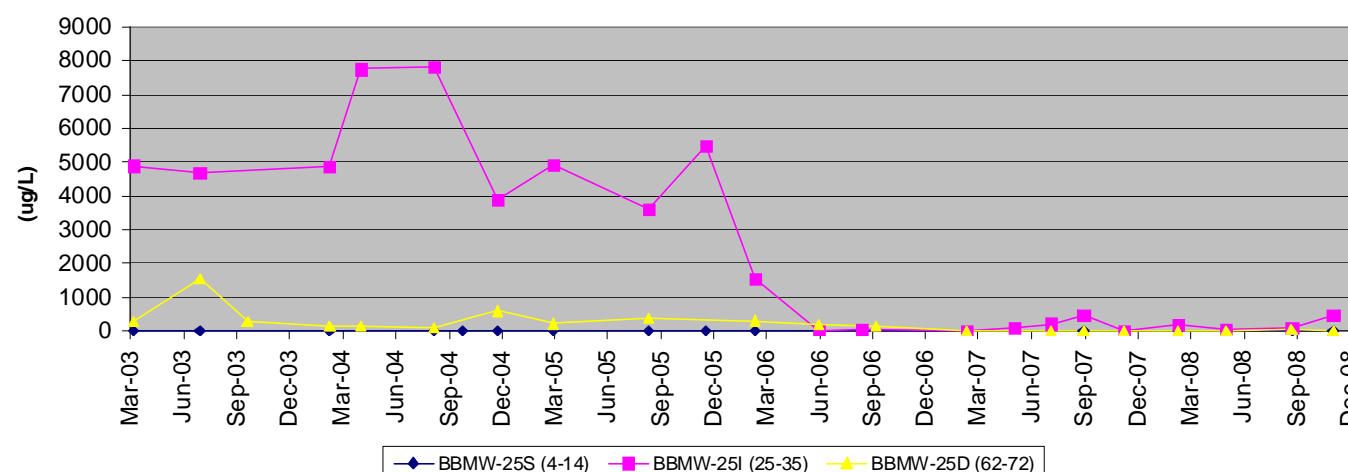
BBMW-25



Total BTEX Concentration (ug/L)



Total PAH Concentration (ug/L)



LEGEND:

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

SOURCES:

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BAY SHORE/BRIGHTWATERS  
FORMER MGP SITE  
BAY SHORE, NEW YORK



PROJECT 061140-8-1707

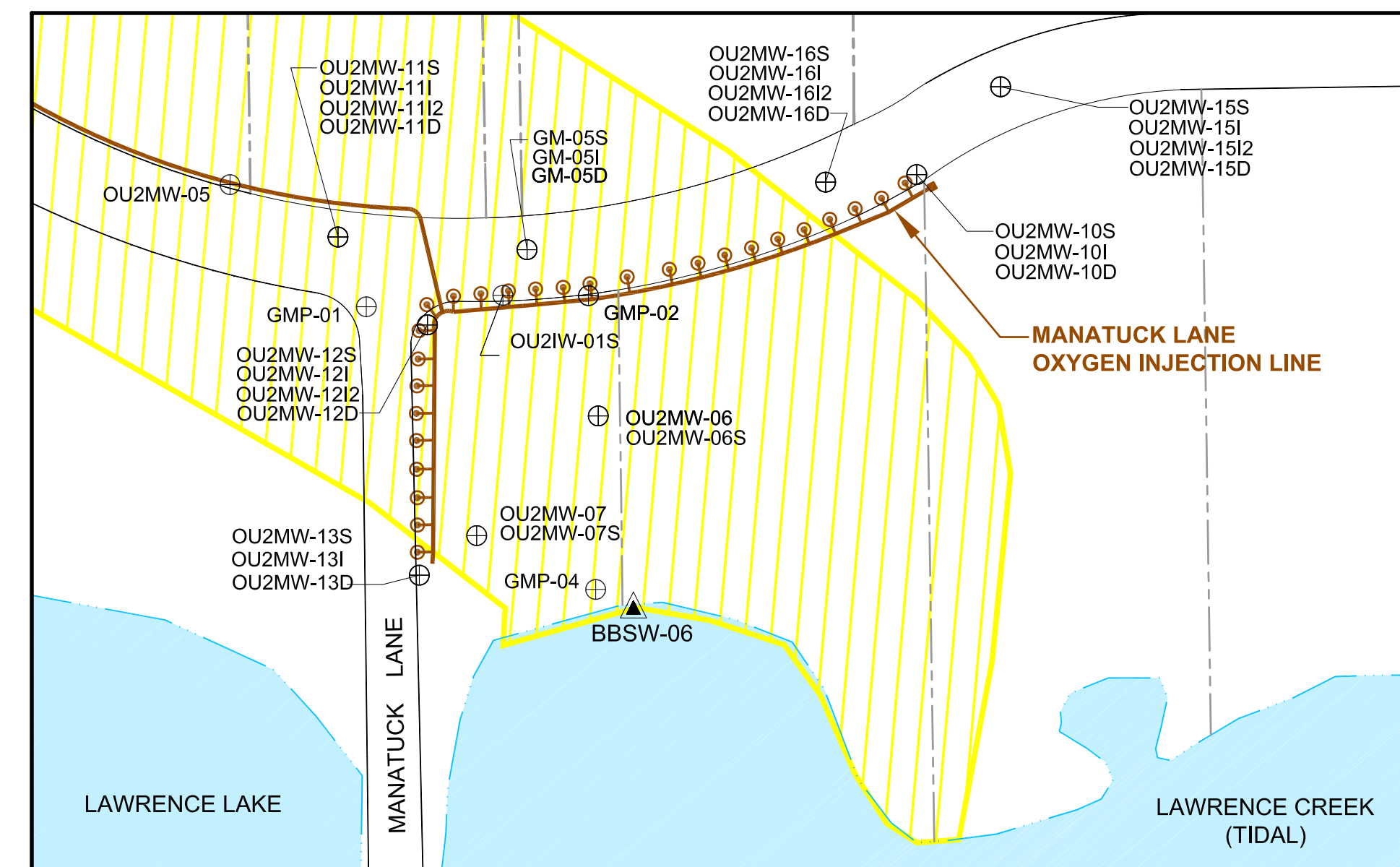
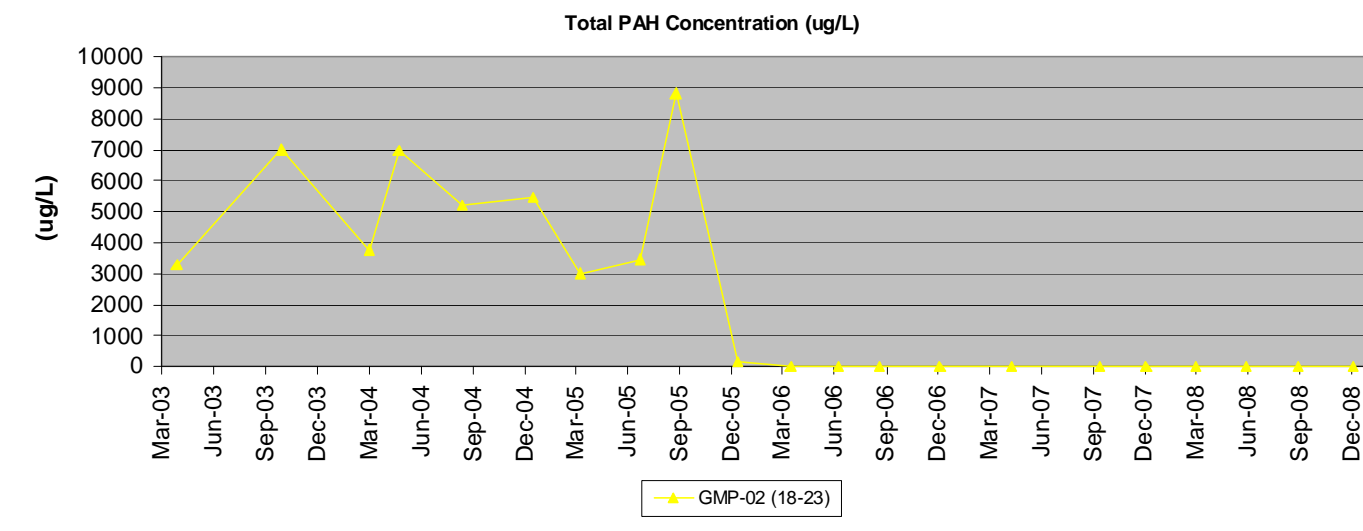
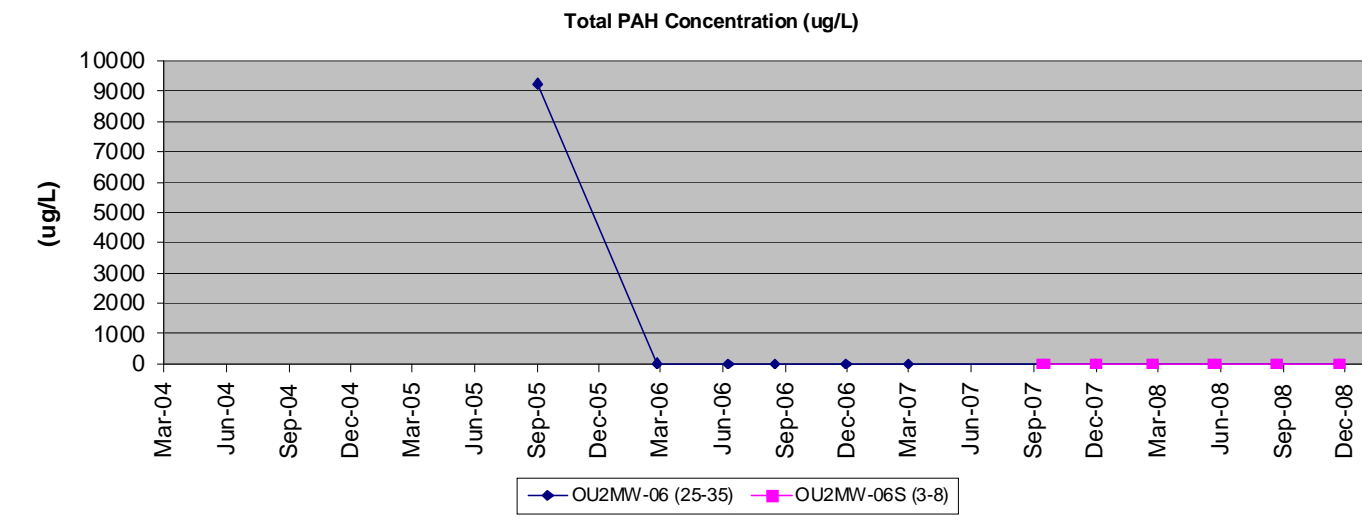
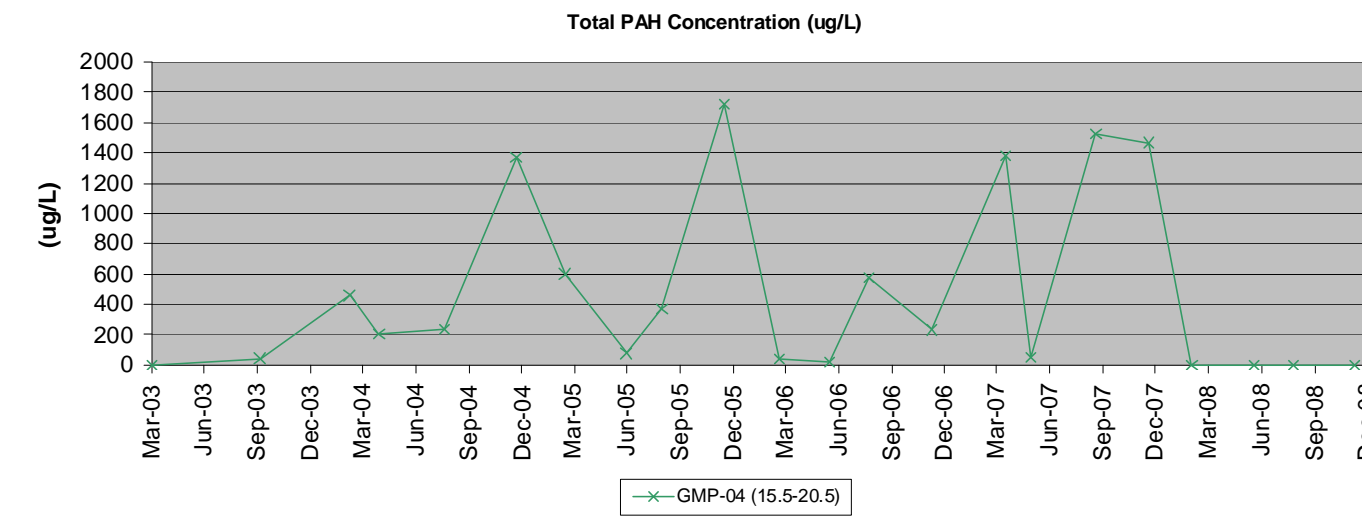
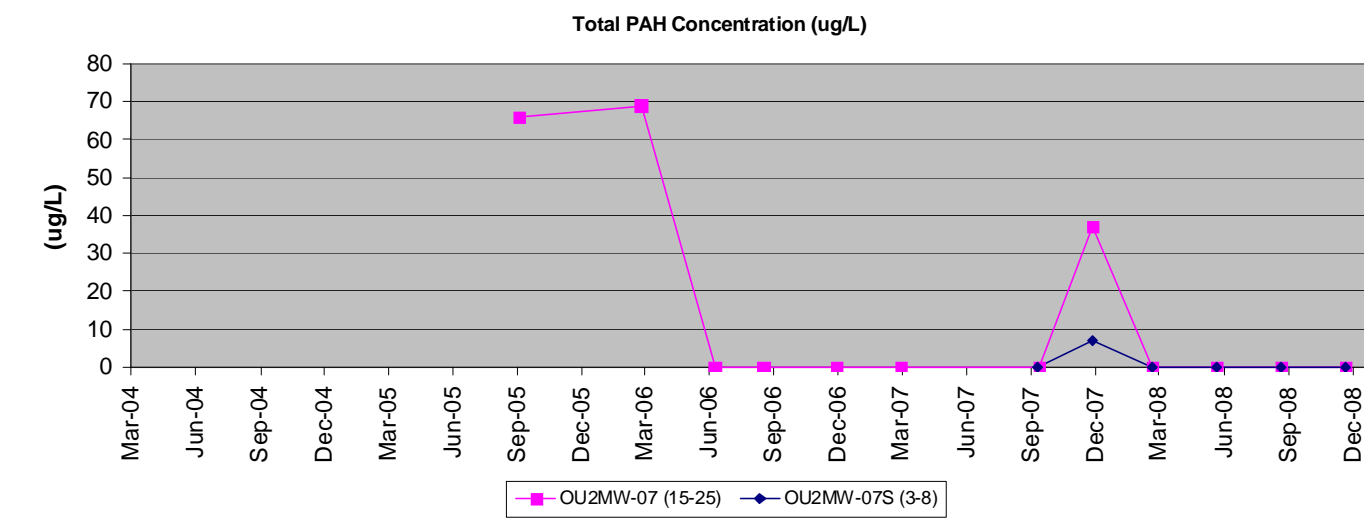
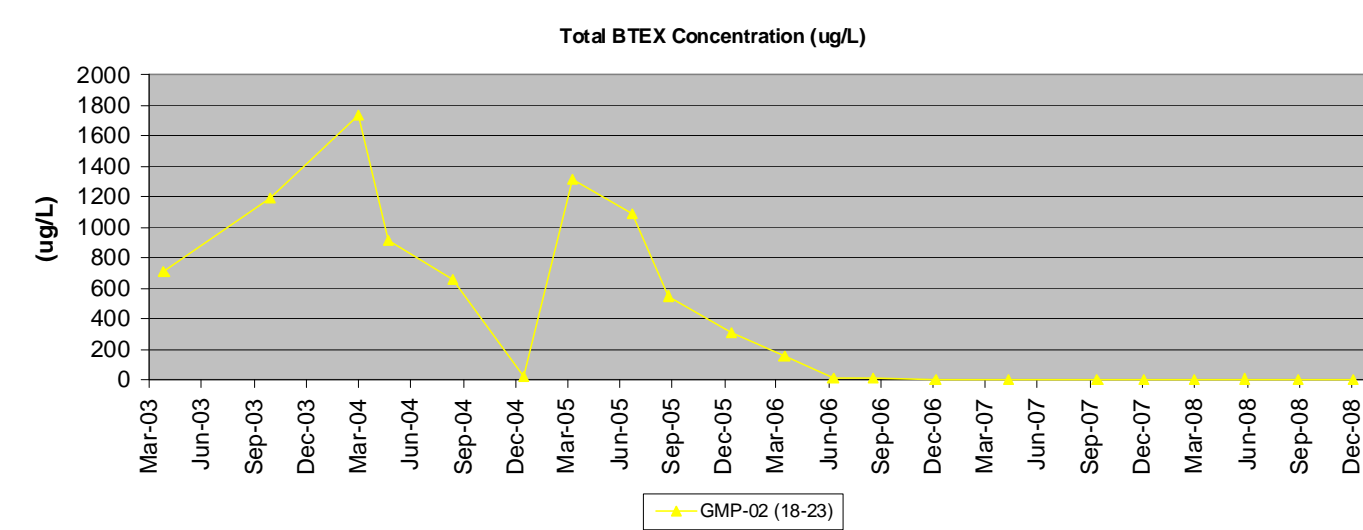
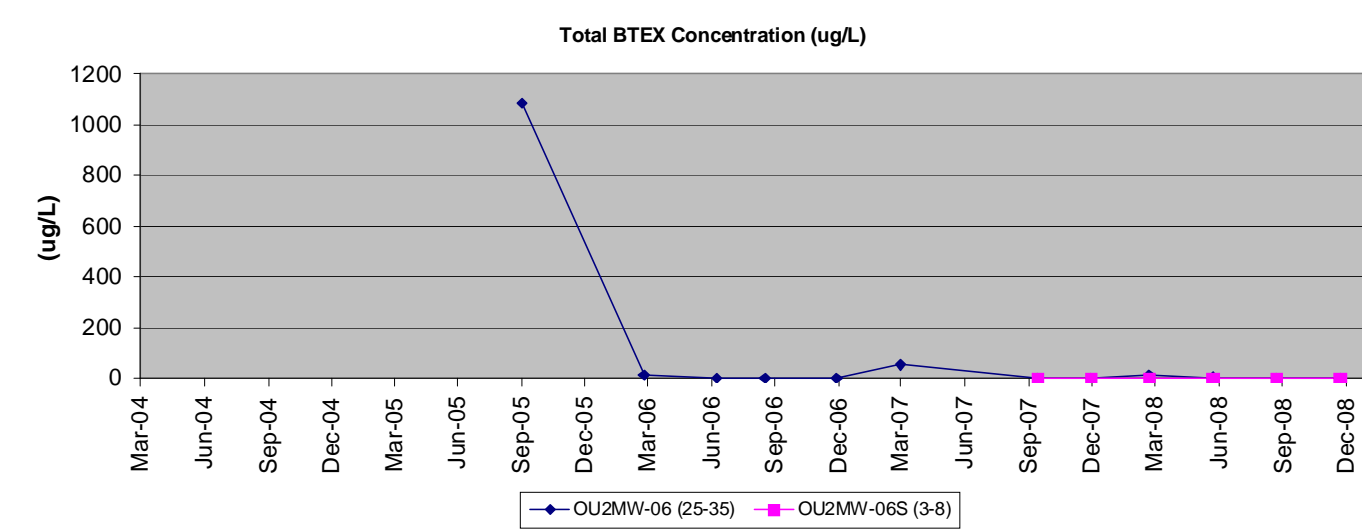
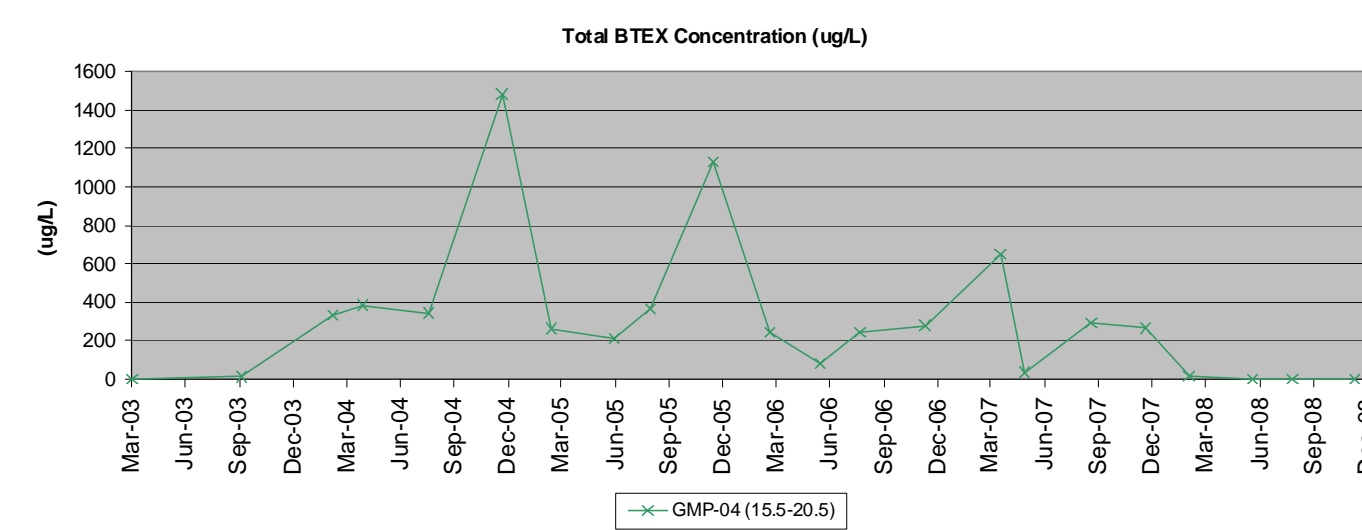
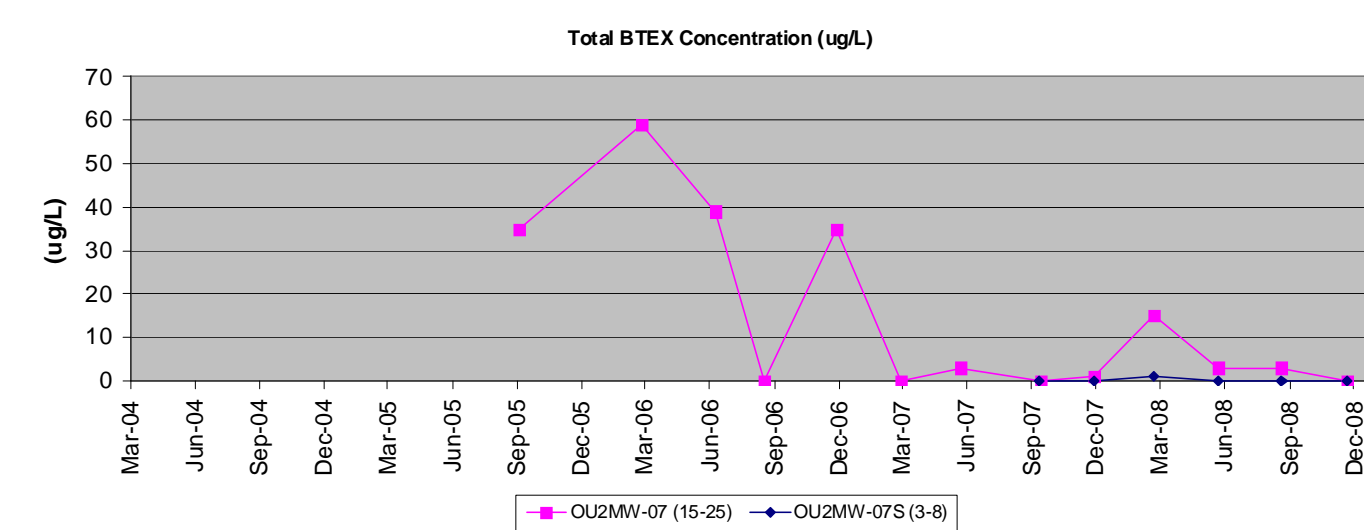
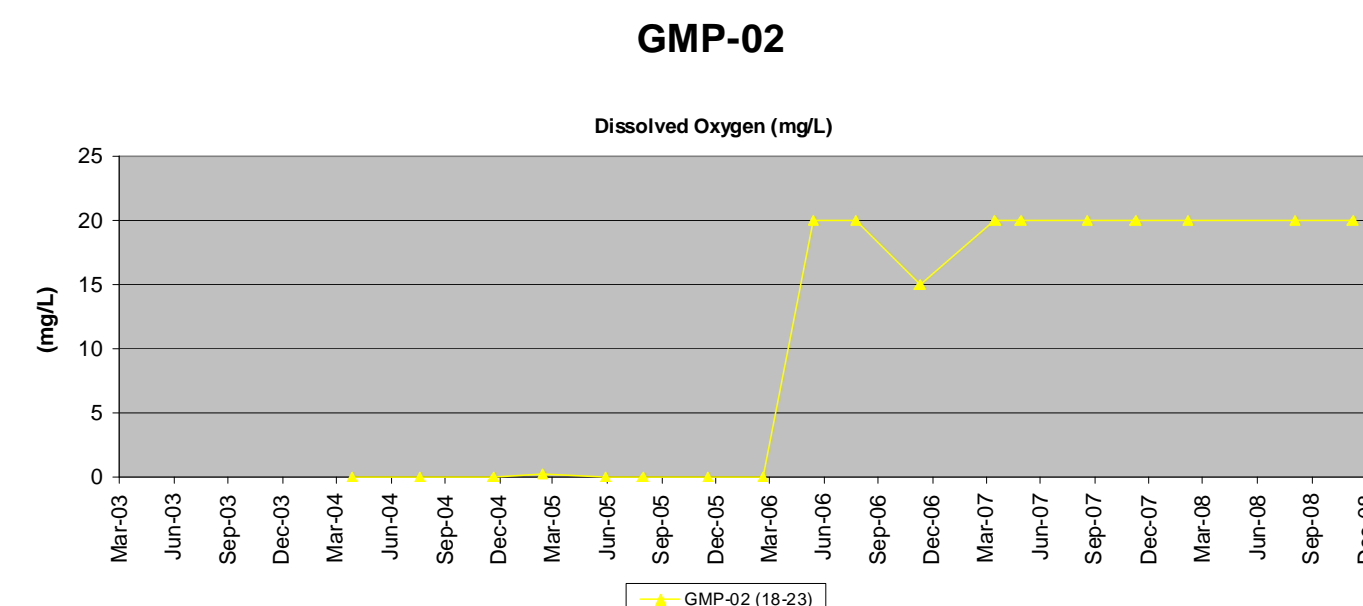
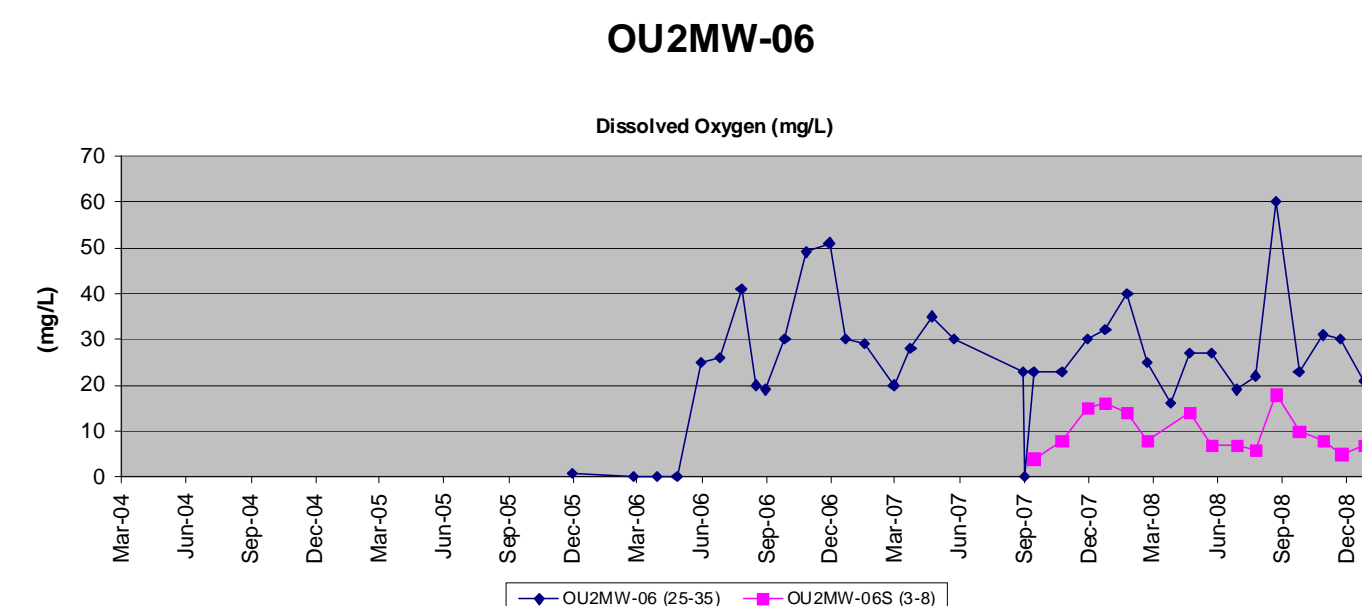
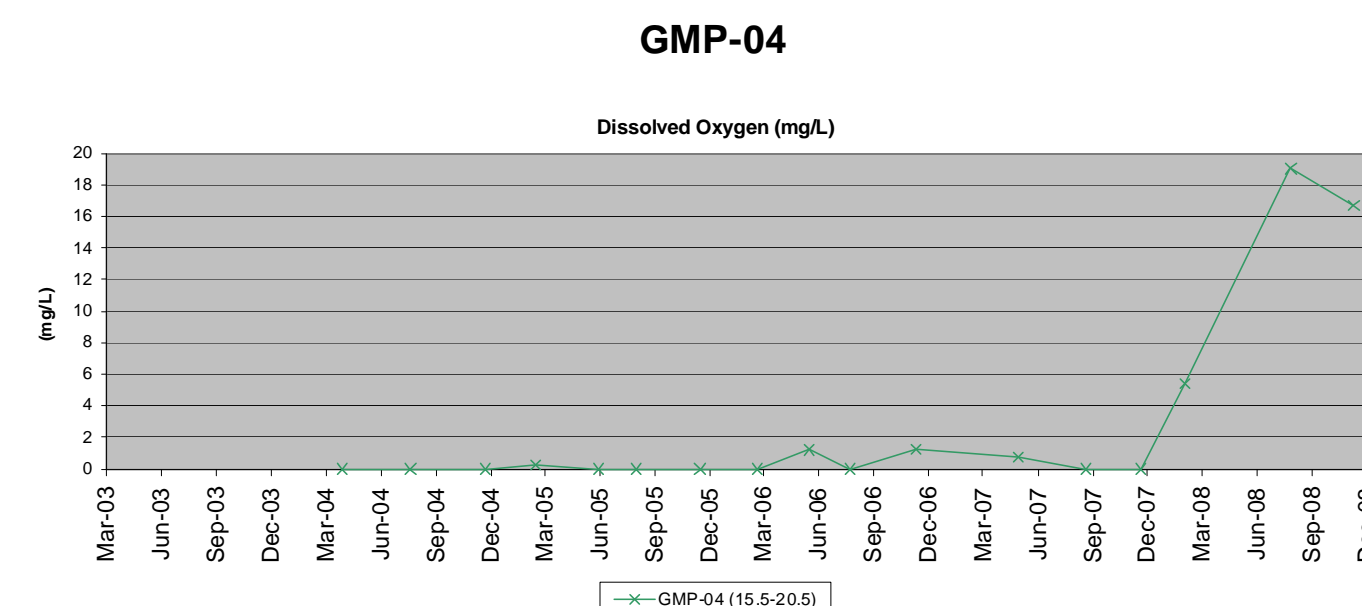
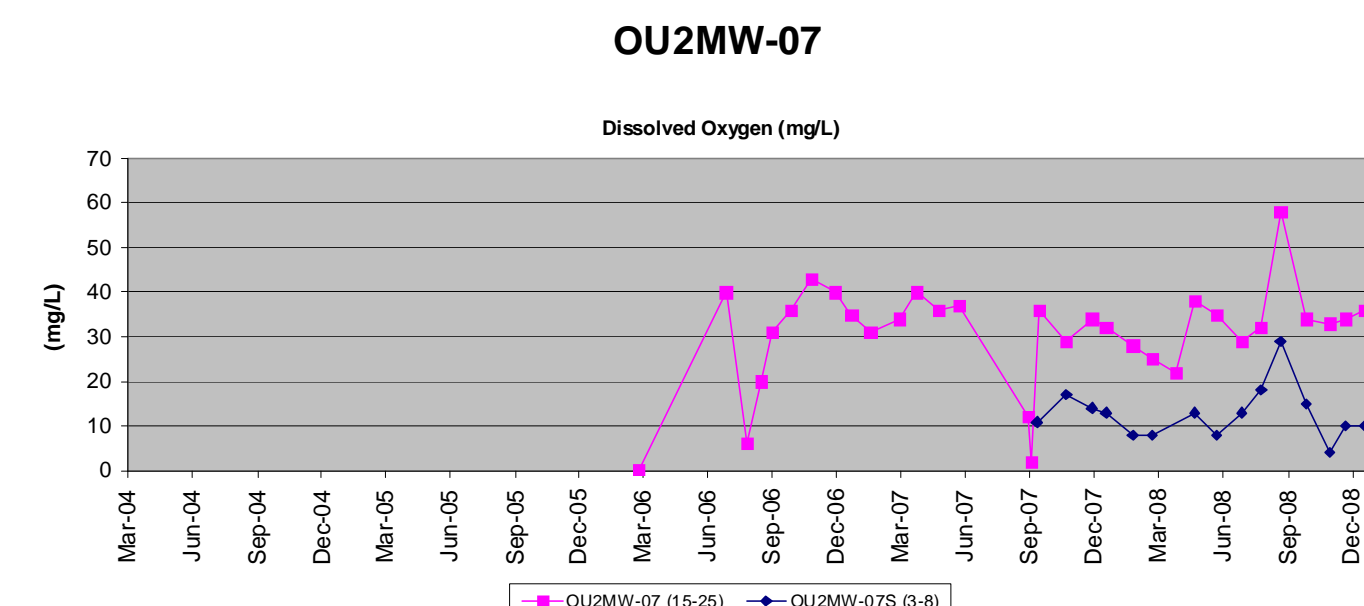


455 WINDING BROOK DRIVE  
SUITE 201  
GLASTONBURY, CONNECTICUT 06033

MONTAUK HIGHWAY  
OXYGEN INJECTION LINE  
GROUNDWATER DATA

March 2009

Figure 7



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

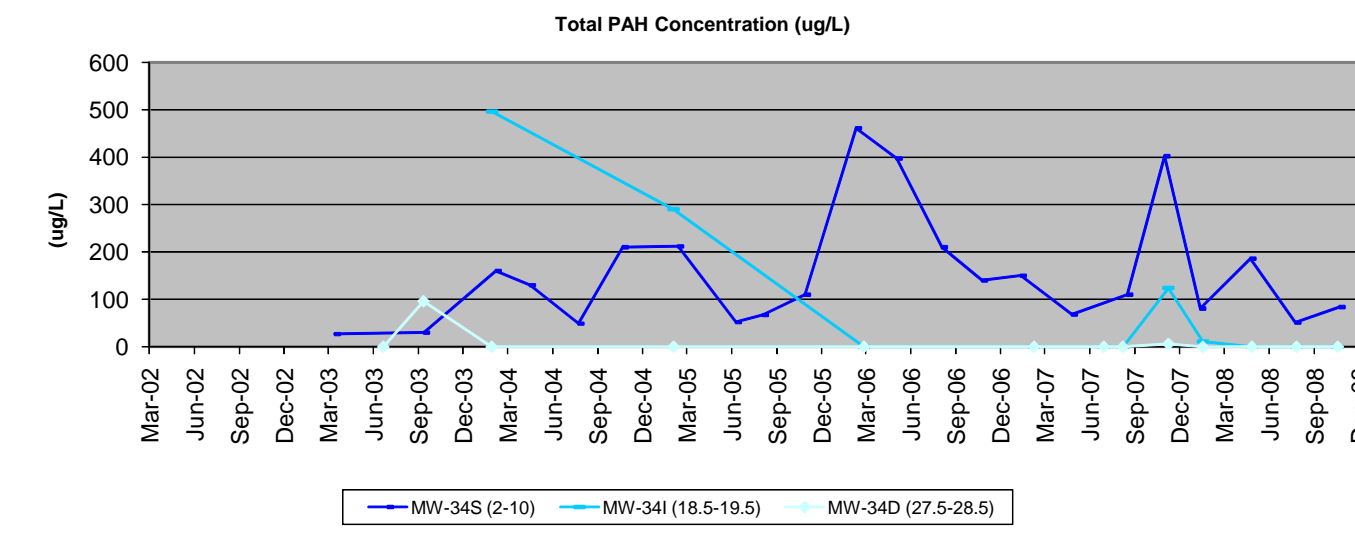
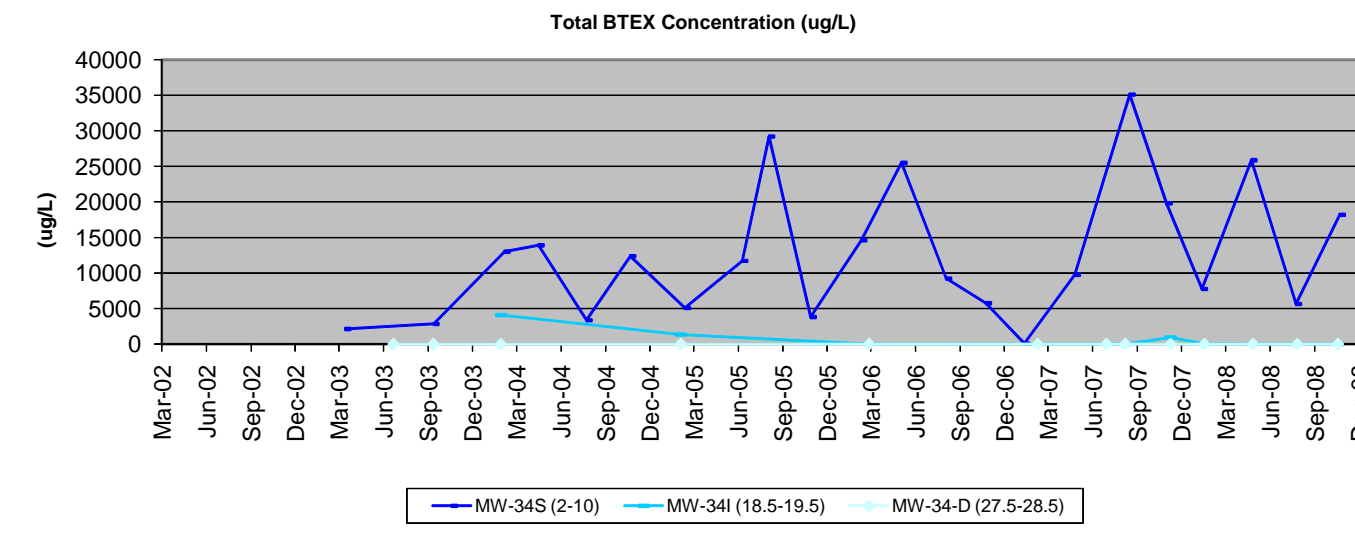
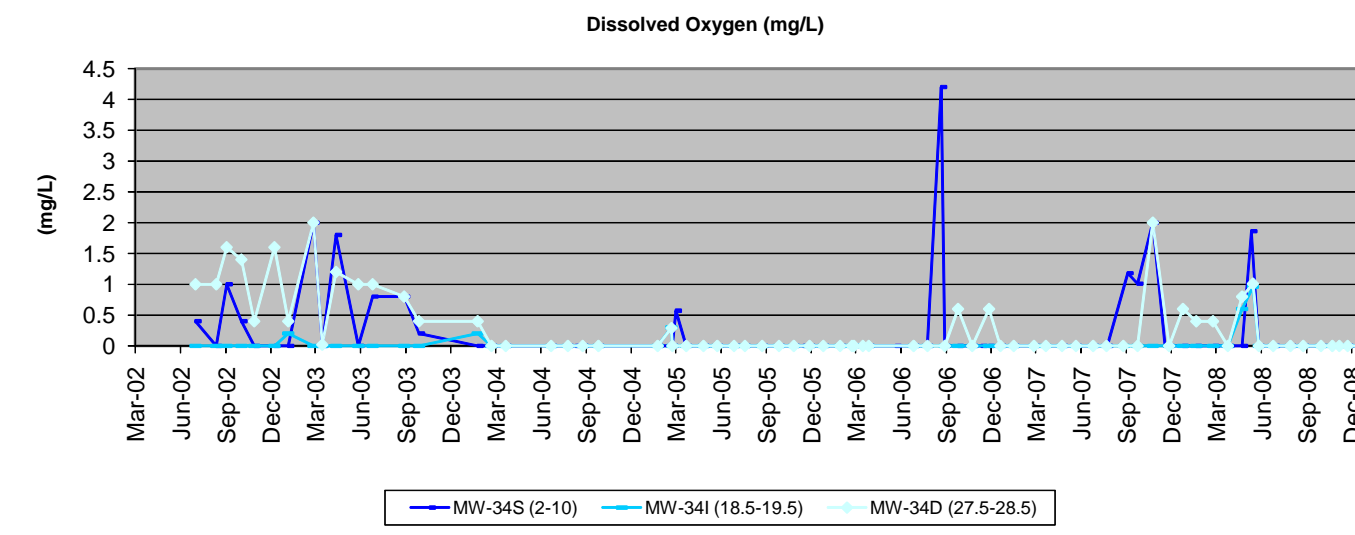
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BAY SHORE/BRIGHTWATERS  
 FORMER MGP SITE  
 BAY SHORE, NEW YORK  
 nationalgrid  
 PROJECT 061140-8-1707

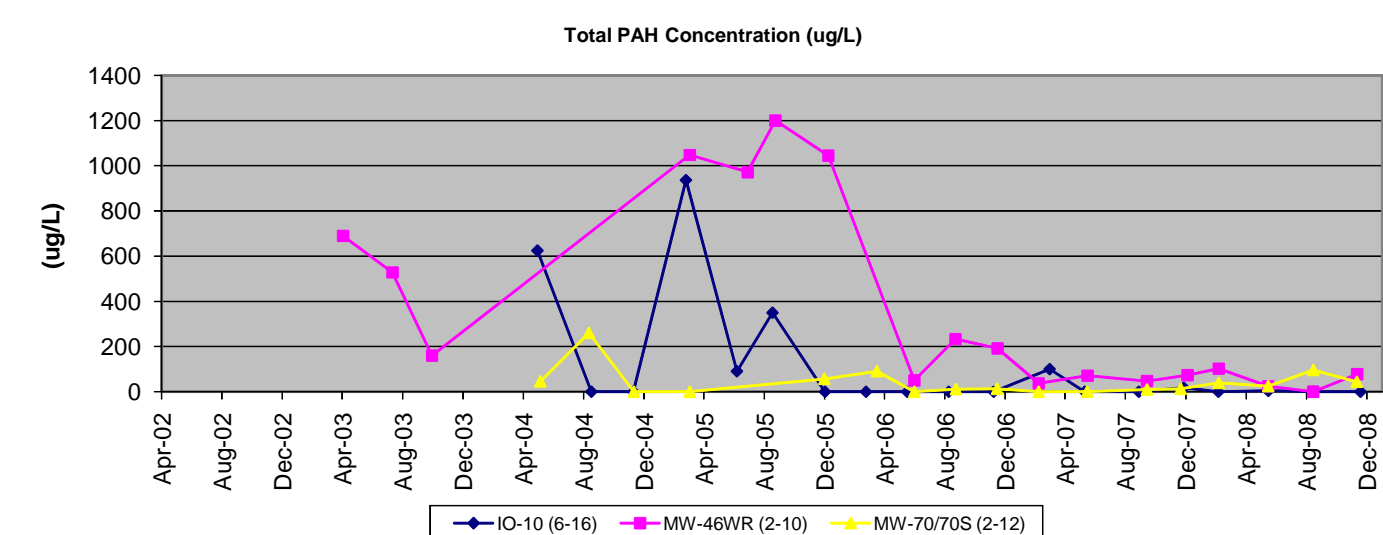
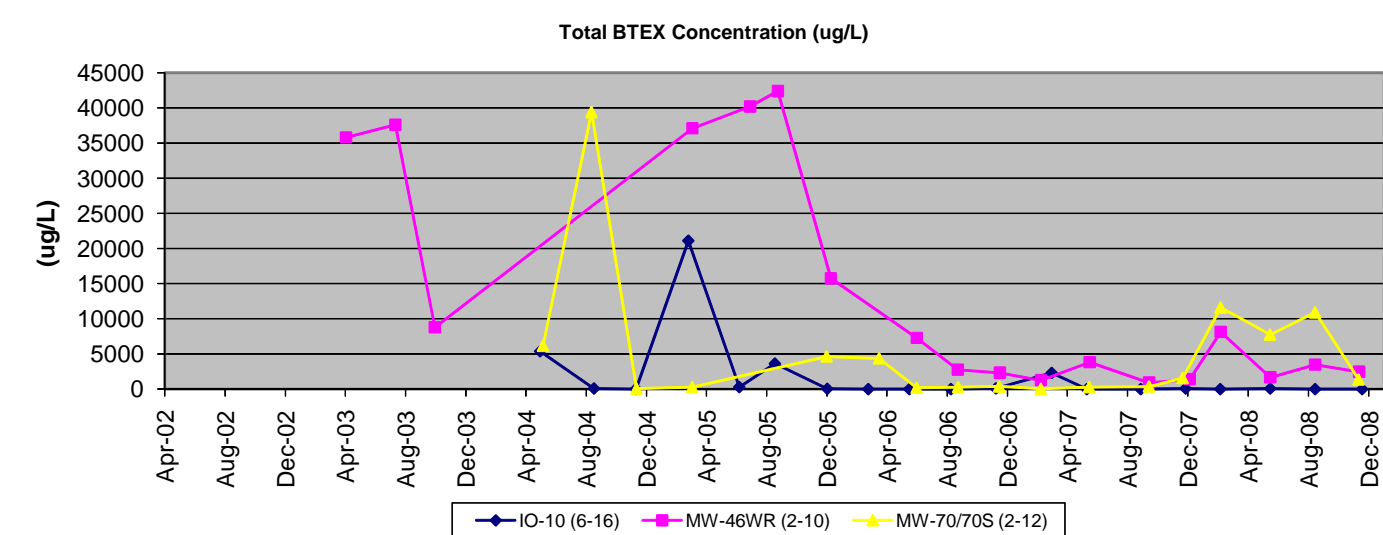
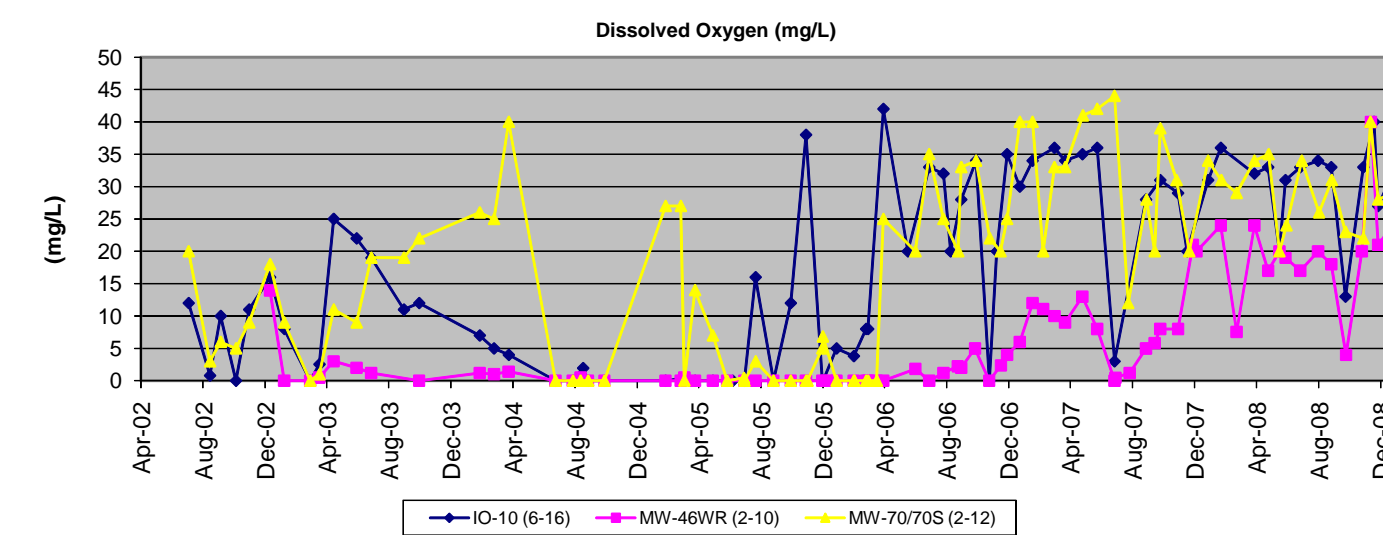


MANATTUCK LANE  
 OXYGEN INJECTION LINE  
 GROUNDWATER DATA

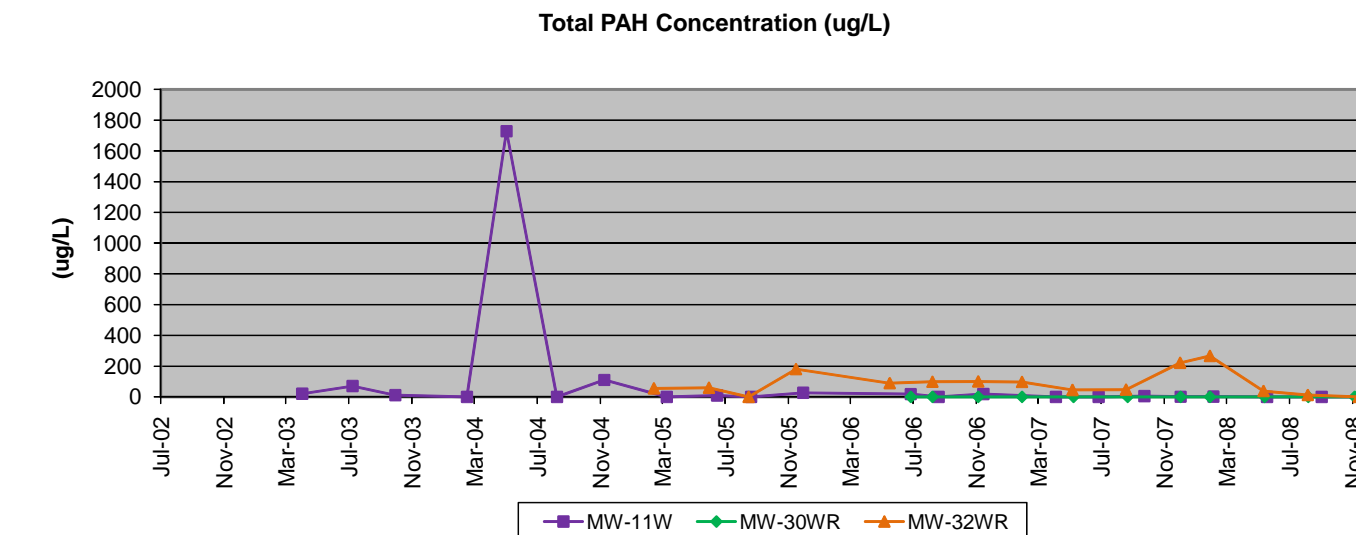
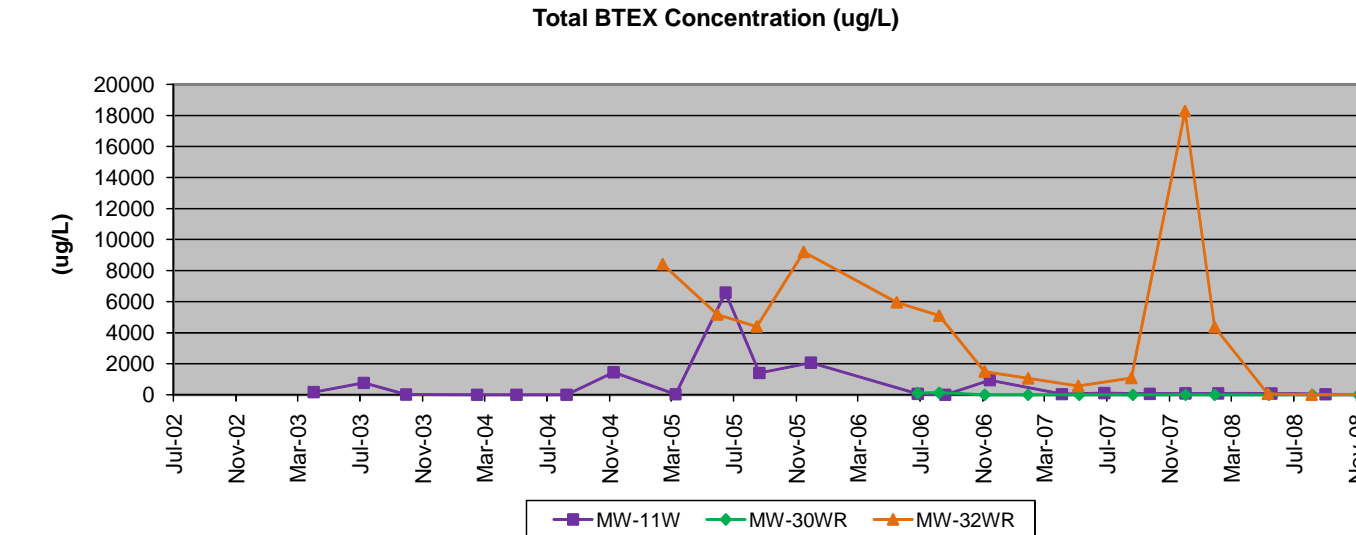
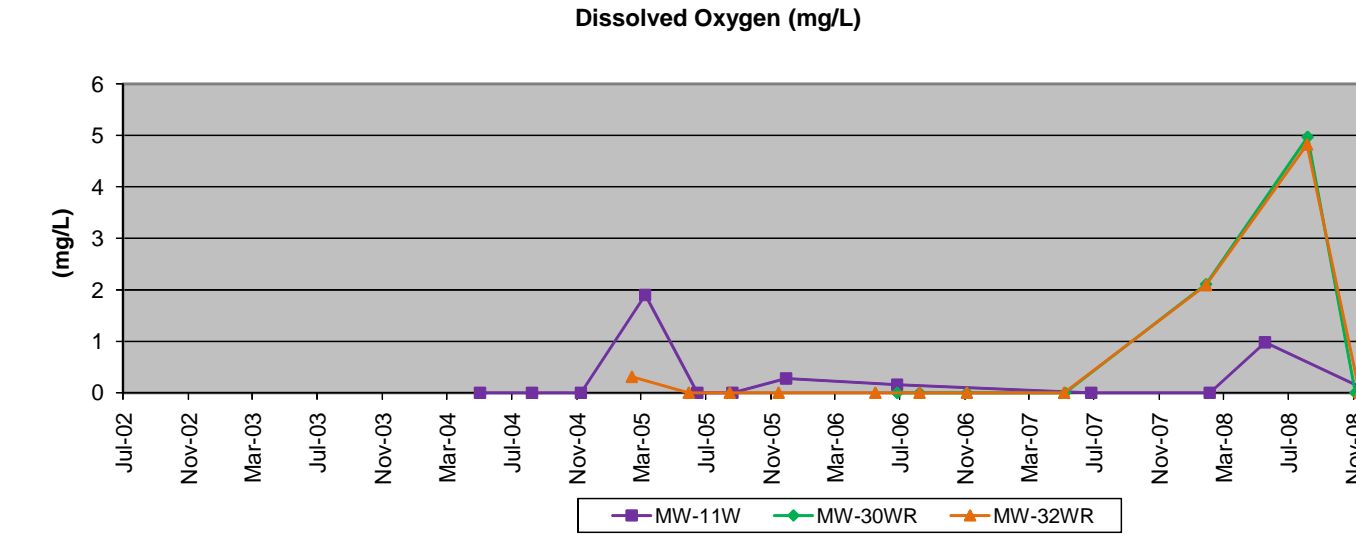
**MW-34S, MW-34I, MW-34D**



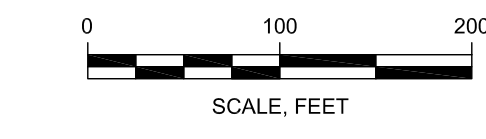
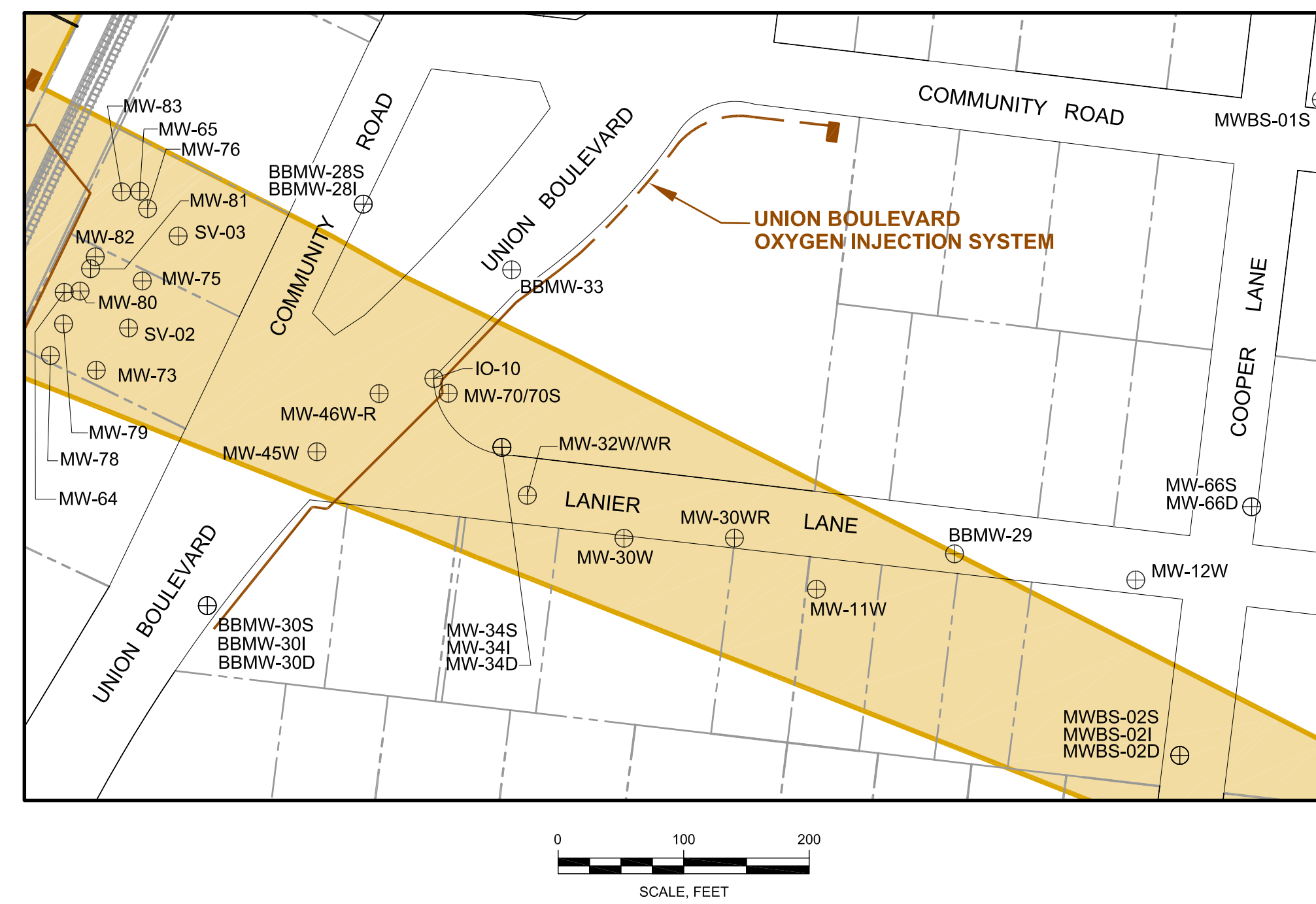
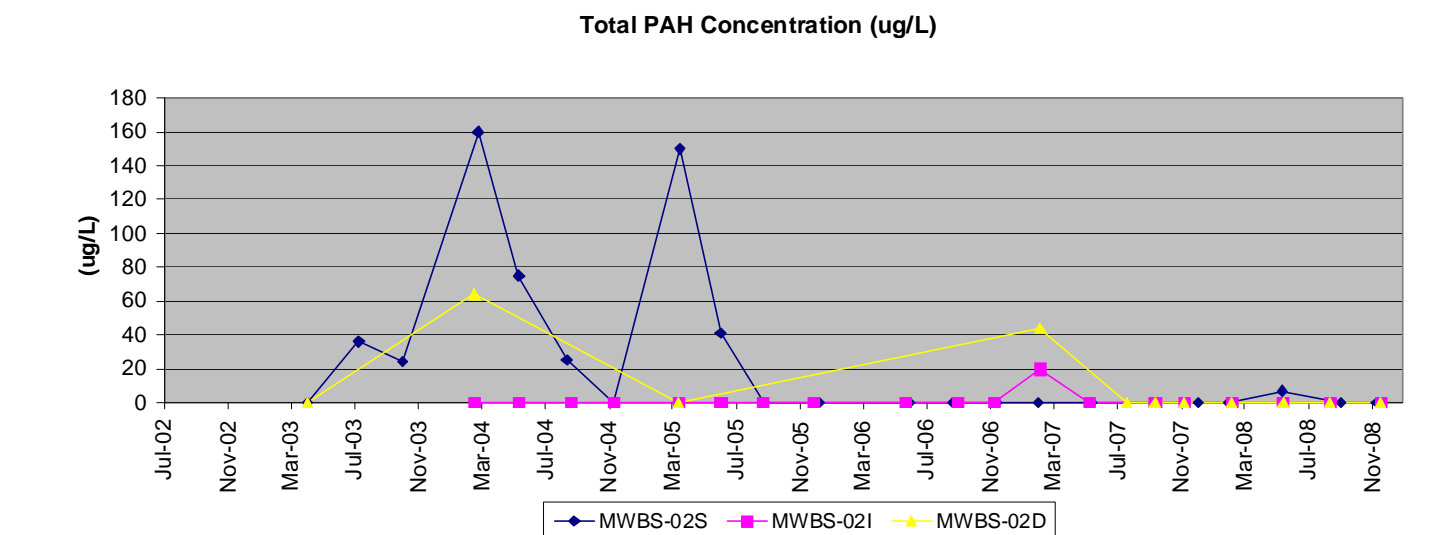
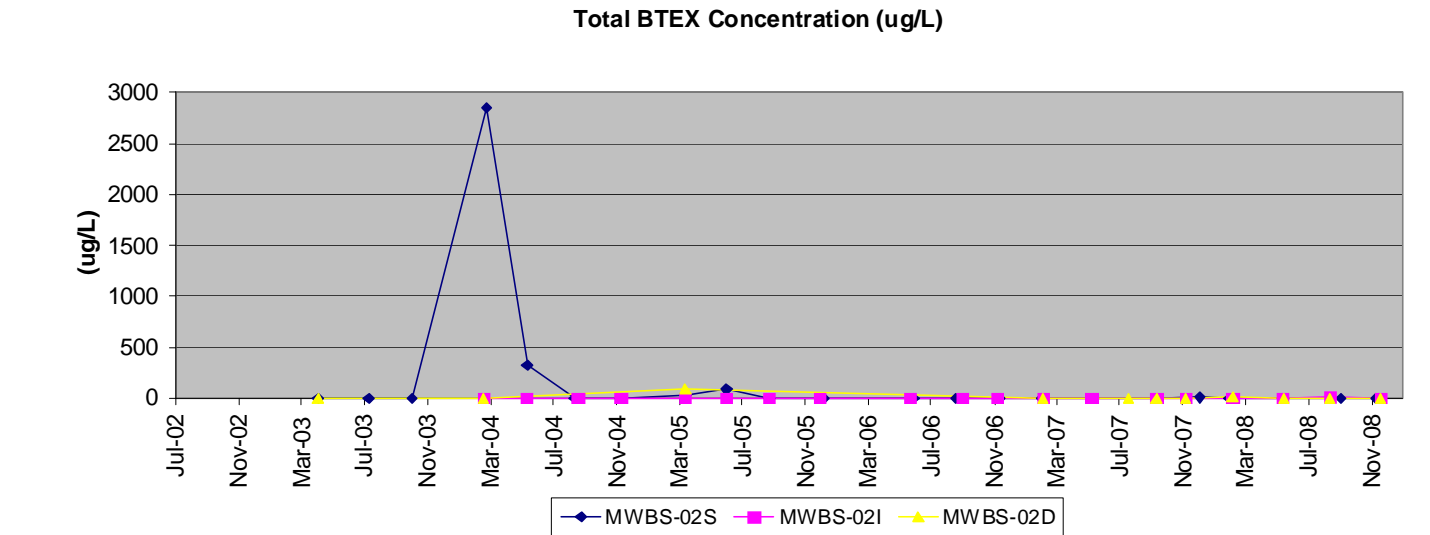
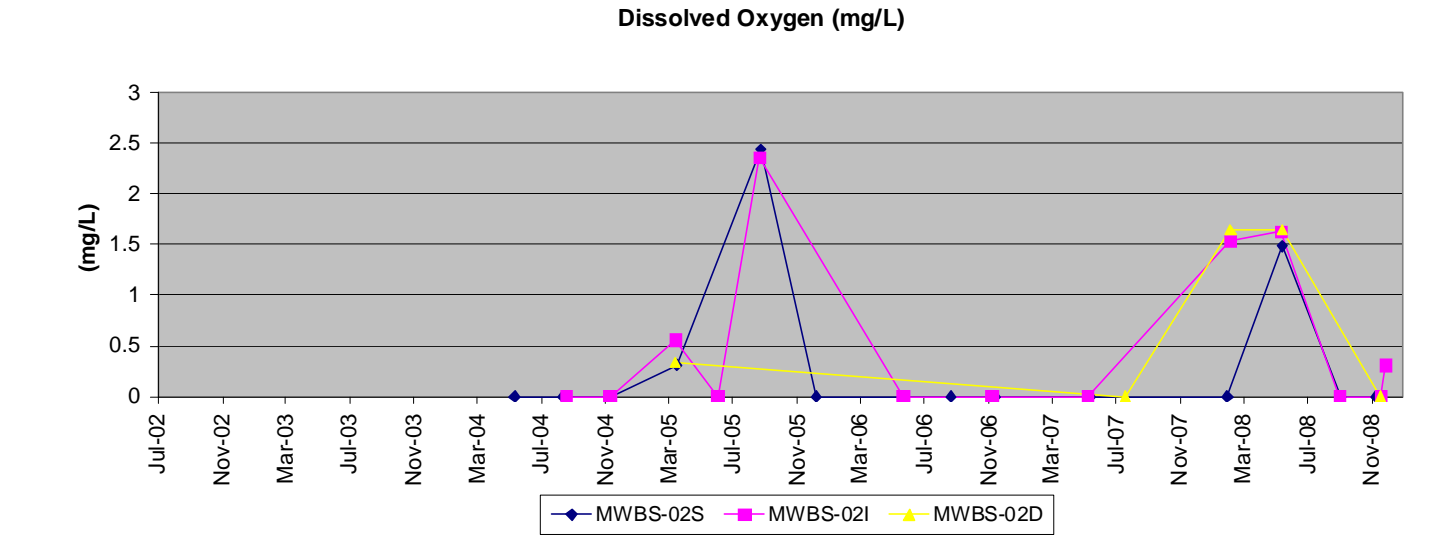
**IO-10, MW-46WR, MW-70/70S**



**MW-11W, MW-30WR, MW-32WR**



**MWBS-02S, MWBS-02I, MWBS-02D**



**LEGEND:**

- ⊕ OU2MW-01 ACTIVE MONITORING WELL
- S,I,I2,D LOCATION USED
- 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.
2. FIGURE 2. GROUNDWATER MONITORING WELL AND SURFACE WATER GAUGING STATION LOCATION MAP, BAY SHORE/BRIGHTWATERS FORMER MGP SITE, SCALE: 1"=200', DATED JANUARY 2004, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
3. DRAWING C-1. OFF-SITE SAMPLE LOCATION MAP, BAY SHORE/BRIGHTWATERS FINAL REMEDIAL INVESTIGATION, SCALE: 1"=200', DATED OCTOBER 15, 2003, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
4. PROPERTY BOUNDARY LOCATIONS WERE DETERMINED BY OTHERS USING AERIAL PHOTOGRAPHS AND TAX MAPS. PROPERTY BOUNDARIES ARE APPROXIMATE AND MONITORING WELLS LOCATED NEAR OR AT PROPERTY BOUNDARIES DEPICTED ON THE MAP ARE WITHIN THE ROAD RIGHT-OF-WAY.

BAY SHORE/BRIGHTWATERS  
FORMER MGP SITE  
BAY SHORE, NEW YORK

**nationalgrid**

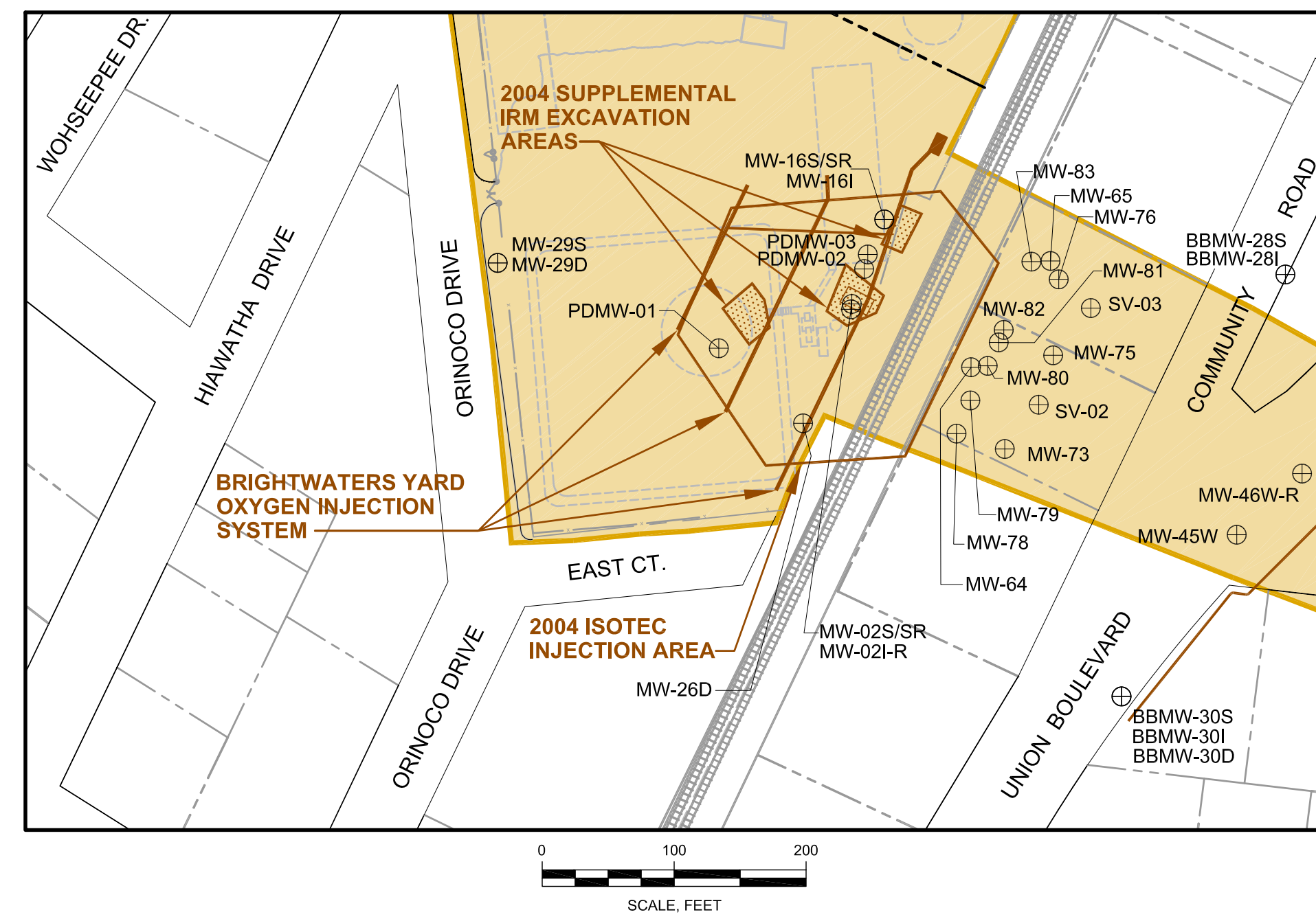
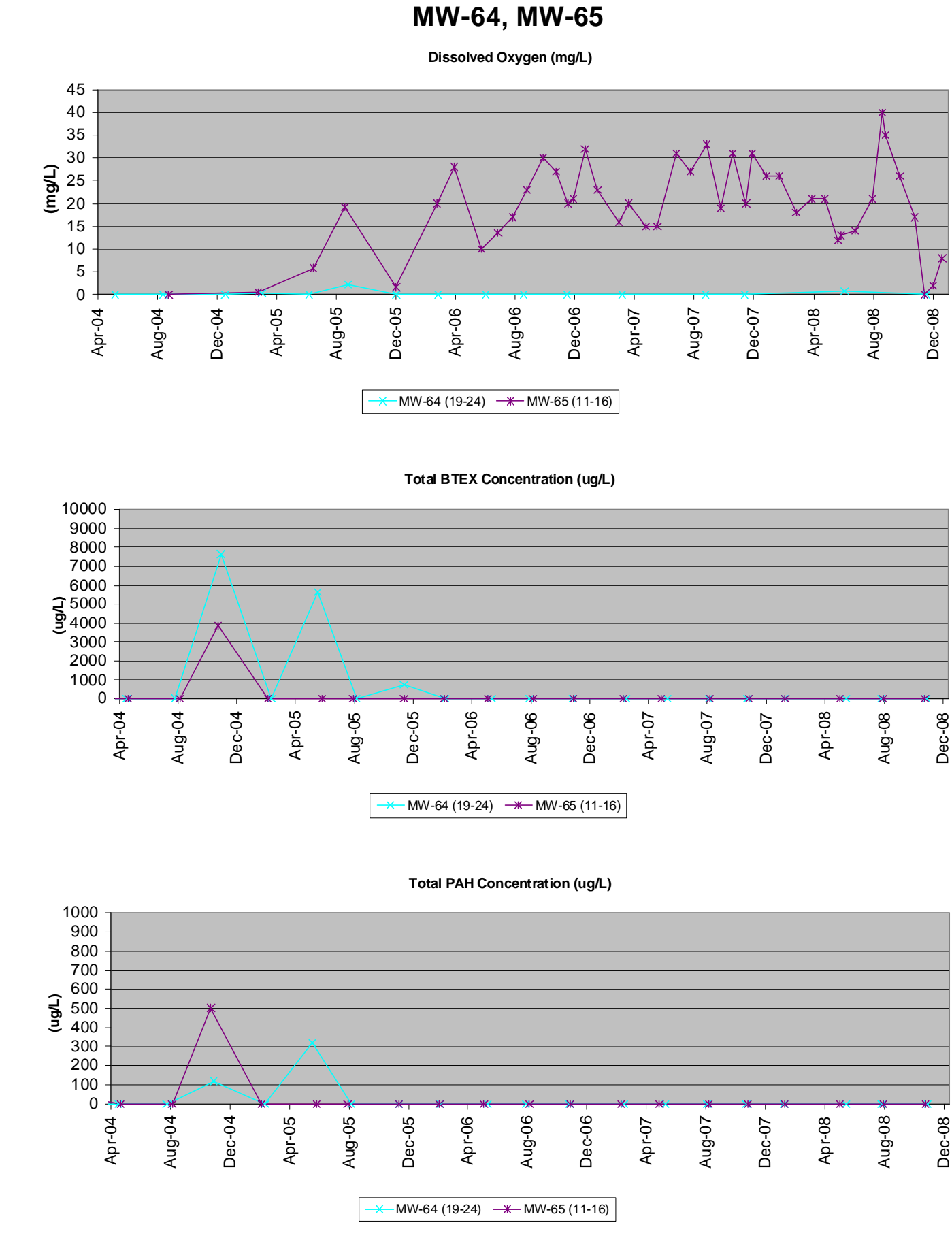
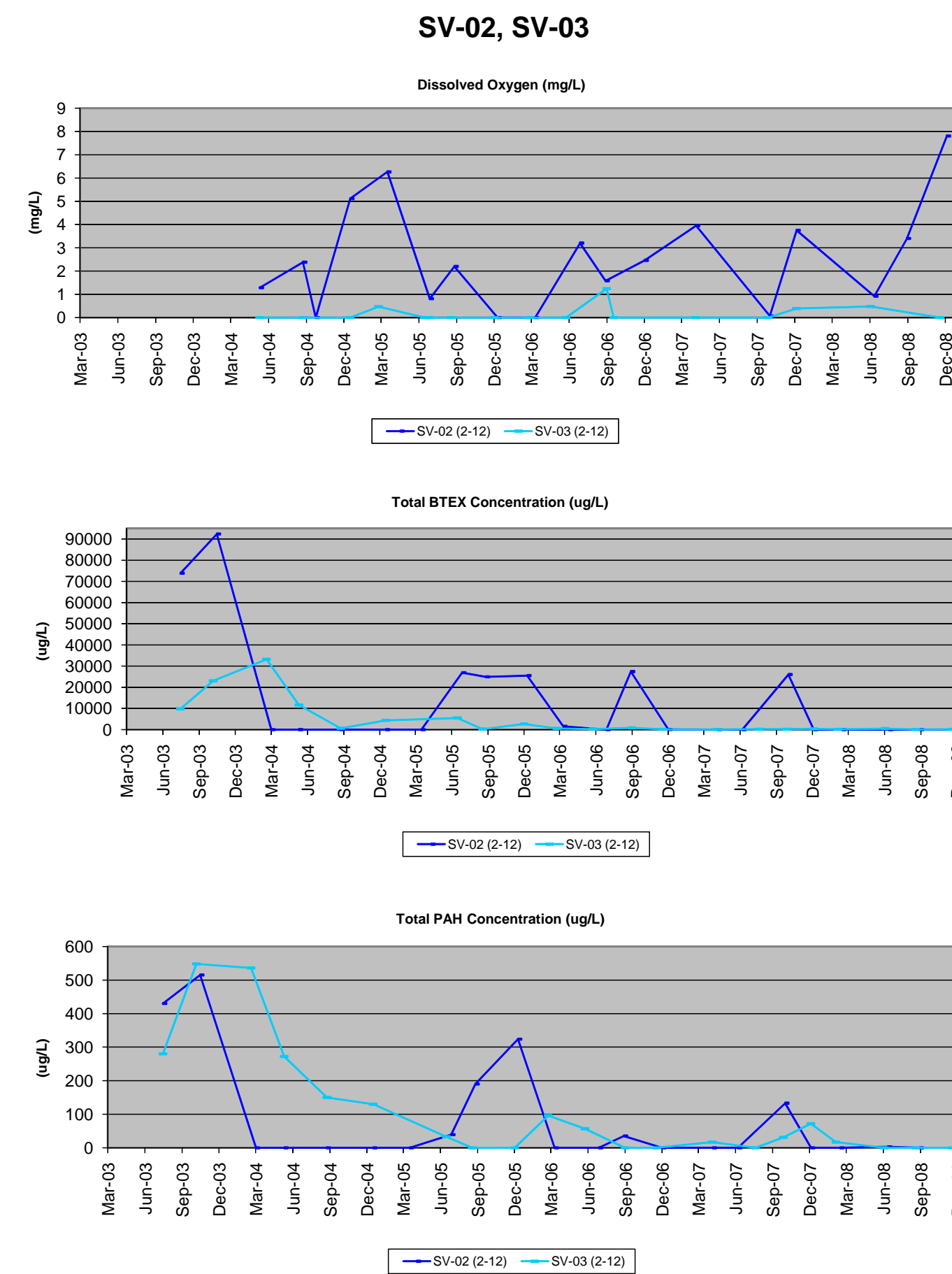
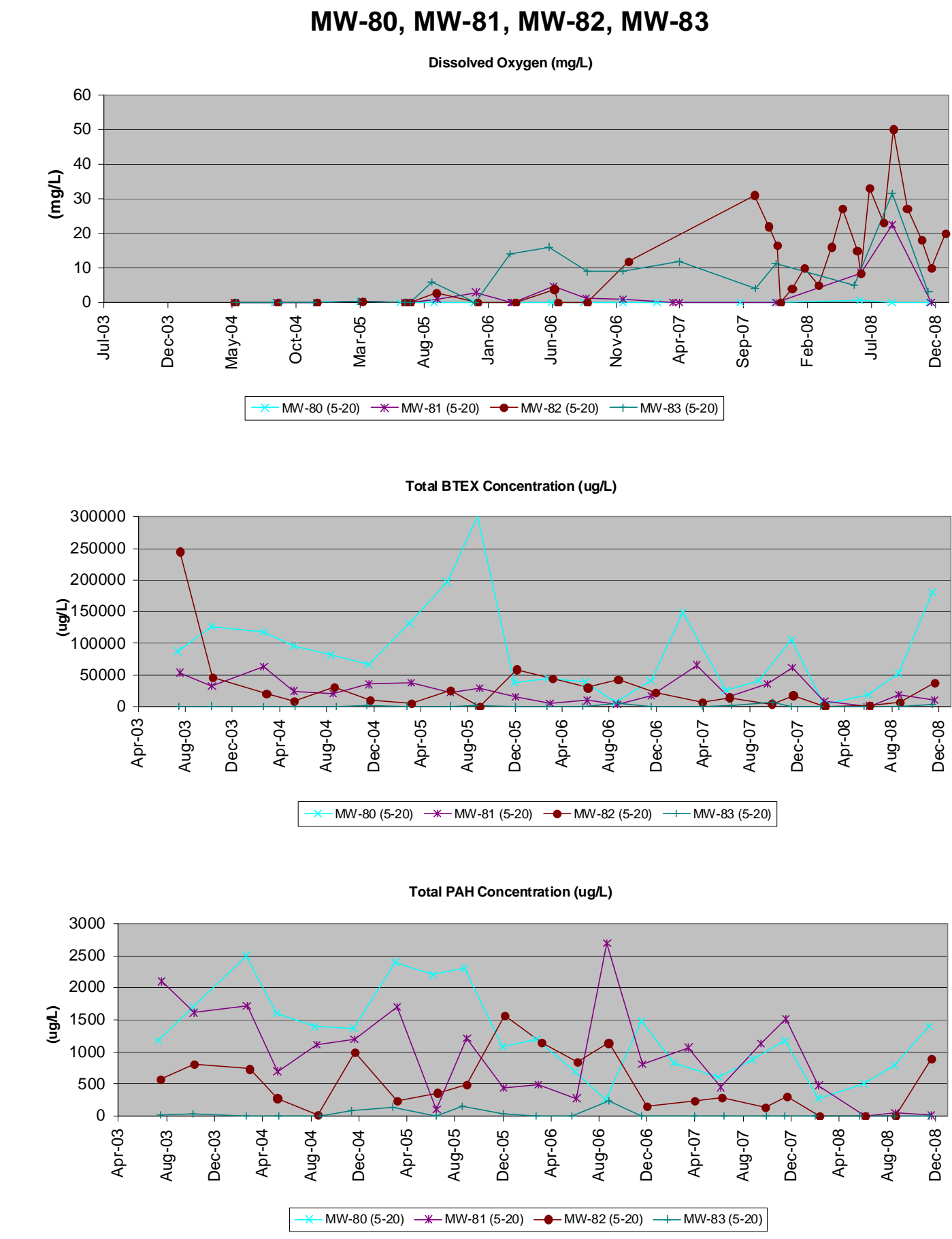
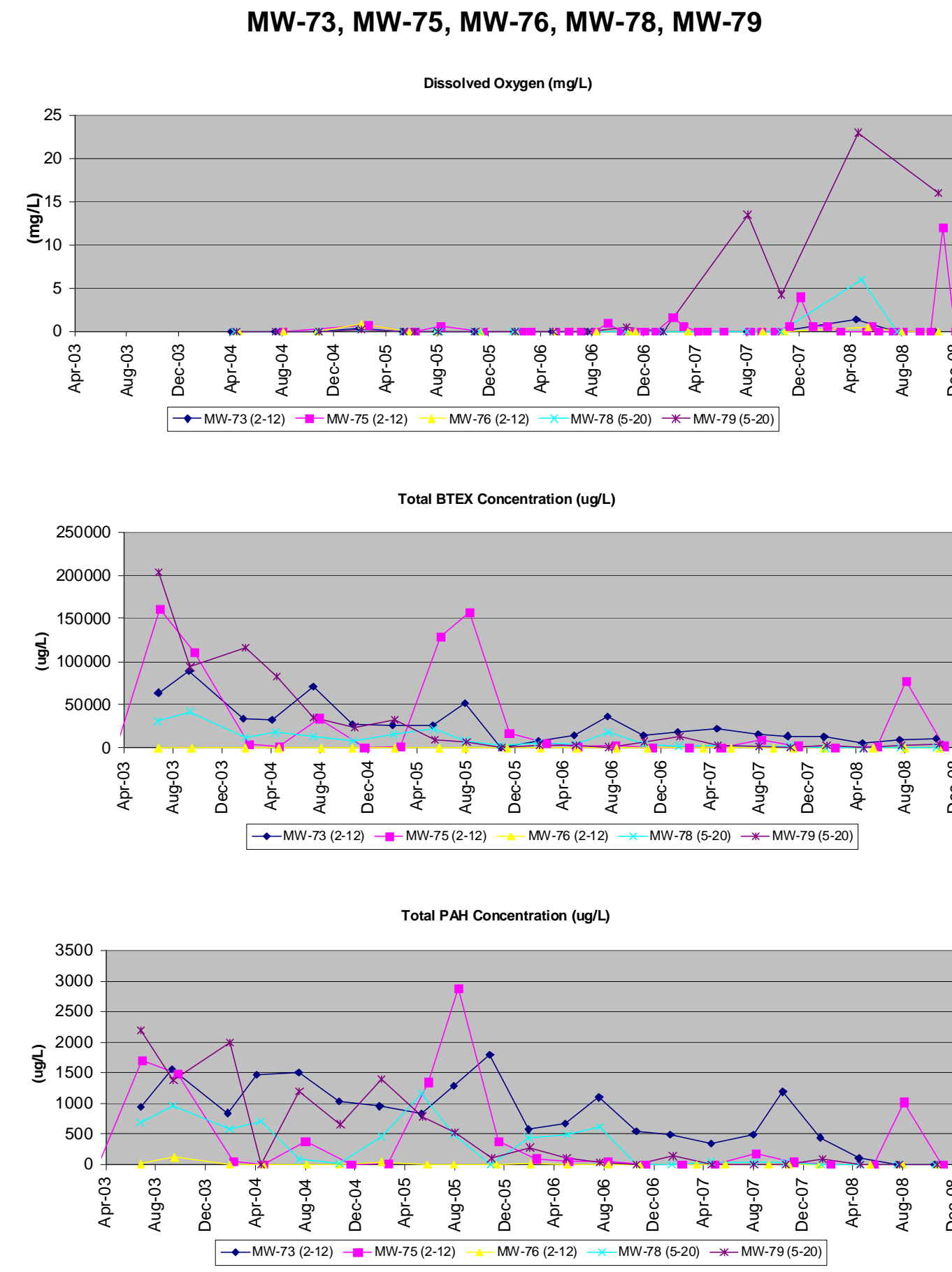
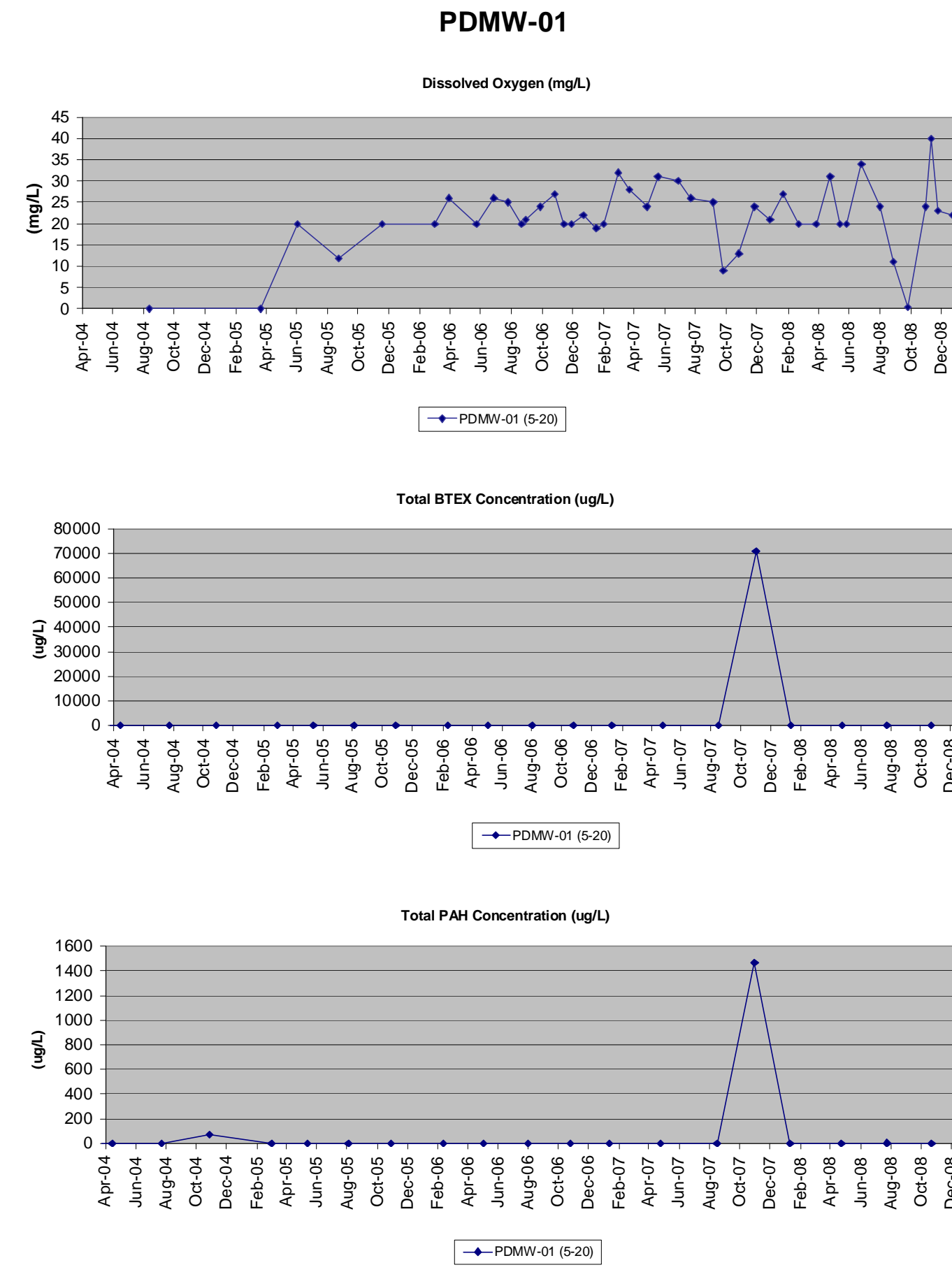
PROJECT 061140-8-1707

**GEI** Consultants  
455 WINDING BROOK DRIVE  
SUITE 201  
GLASTONBURY, CONNECTICUT 06033

**UNION BOULEVARD  
OXYGEN INJECTION SYSTEM  
GROUNDWATER DATA**

March 2009

Figure 9



- SOURCES:**
- 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.
  - FIGURE 2, GROUNDWATER MONITORING WELL AND SURFACE WATER GAUGING STATION LOCATION MAP, BAY SHORE/BRIGHTWATERS FORMER MGP SITE, SCALE: 1"=200', DATED JANUARY 2004, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
  - DRAWING C-1, OFF-SITE SAMPLE LOCATION MAP, BAY SHORE/BRIGHTWATERS FINAL REMEDIAL INVESTIGATION, SCALE: 1"=200', DATED OCTOBER 15, 2003, PREPARED BY VANASSE HANGEN BRUSTLIN, INC., MIDDLETOWN, CONNECTICUT.
  - 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.

BAY SHORE/BRIGHTWATERS  
FORMER MGP SITE  
BAY SHORE, NEW YORK  
**nationalgrid**  
PROJECT 061140-8-1707

**GEI** Consultants  
455 WINDING BROOK DRIVE  
SUITE 201  
GLASTONBURY, CONNECTICUT 06033

**BRIGHTWATERS YARD  
OXYGEN INJECTION SYSTEM  
GROUNDWATER DATA**

March 2009

Figure 10



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

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**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 Q3 2008 924 lbs

Operational Days		Oxygen Injected Per Month (Lbs)
Month 1	Oct-08	31
Month 2	Nov-08	30
Month 3	Dec-08	31
Total Operational Days In Q4 2008		92
Total Oxygen in Q4 2008 (Lbs)		456.84
Running Total Through Q4 2008 (Lbs)		1,380.84

**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 course of day)

	OZ% R Temp R (T)	11/3/2008							11/24/2008							12/24/2008						
		35							35							35						
		10.73							10.73							10.73						
		530							530							530						
	Depth	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C)	CFD (V)	PSI (M)	PSia (P)	n=PV/RT lbs O2			
Injection Bank 1	Point 1	41	32	44.642	89.284	17	31.7	0.473	30	41.852	83.704	17	31.7	0.443	30	42.181	84.361	17.5	32.2	0.454		
	Point 4	26	28	31.944	63.888	6.5	21.2	0.226	30	34.226	68.452	6.5	21.2	0.242	20	23.085	46.169	7	21.7	0.167		
	Point 5	41	34	44.737	89.474	13.5	28.2	0.421	29	37.475	74.951	12.5	27.2	0.341	30	39.822	79.645	14	28.7	0.382		
	Point 8	26	30	34.627	69.254	7.0	21.7	0.251	30	34.627	69.254	7.0	21.7	0.251	22	25.393	50.786	7.0	21.7	0.184		
	Point 9	41	28	36.842	73.685	13.5	28.2	0.347	29	38.158	76.316	13.5	28.2	0.360	29	38.327	76.654	13.75	28.45	0.364		
	Point 12	26	28	32.319	64.637	7	21.7	0.234	29	33.473	66.946	7	21.7	0.243	18	20.292	40.584	6	20.7	0.140		
	Point 13	41	24	31.858	63.716	14	28.7	0.305	29	38.495	76.990	14	28.7	0.369	30	40.168	80.336	14.5	29.2	0.392		
Point 16	26	22	25.684	51.368	7.5	22.2	0.191	29	33.856	67.713	7.5	22.2	0.251	26	30.694	61.388	8	22.7	0.233			
<b>Total Oxygen Injected per Day (LBS)</b>		<b>2.449</b>							<b>2.500</b>							<b>2.316</b>						
Injection Bank 2	Point 2	26	28	32.689	65.378	7.5	22.2	0.242	31	35.781	71.563	7.0	21.7	0.259	23	26.852	53.703	7.5	22.2	0.199		
	Point 3	41	35	48.827	97.655	17.0	31.7	0.517	31	43.247	86.494	17.0	31.7	0.458	28	39.369	78.737	17.5	32.2	0.424		
	Point 6	26	25	29.186	58.373	7.5	22.2	0.216	31	35.781	71.563	7.0	21.7	0.259	28	32.689	65.378	7.5	22.2	0.242		
	Point 7	41	34	44.737	89.474	13.5	28.2	0.421	30	39.474	78.948	13.5	28.2	0.372	27	35.840	71.680	14	28.7	0.344		
	Point 10	26	28	32.689	65.378	7.5	22.2	0.242	30	35.024	70.048	7.5	22.2	0.260	24	28.333	56.666	8	22.7	0.215		
	Point 11	41	30	39.474	78.948	13.5	28.2	0.372	30	39.122	78.245	13	27.7	0.362	26	34.211	68.422	13.5	28.2	0.322		
	Point 14	26	26	30.354	60.708	7.5	22.2	0.225	31	36.191	72.382	7.5	22.2	0.268	27	31.521	63.043	7.5	22.2	0.234		
Point 15	41	32	42.477	84.954	14	28.7	0.407	30	39.822	79.645	14	28.7	0.382	30	40.168	80.336	14.5	29.2	0.392			
<b>Total Oxygen Injected per Day (LBS)</b>		<b>2.644</b>							<b>2.621</b>							<b>2.372</b>						
<b>System Total Per Day (LBS)</b>		<b>5.09</b>							<b>5.12</b>							<b>4.69</b>						

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

Weight of Oxygen Injected through Q3 2008 8,045 lbs

Operational Days		Oxygen Injected Per Month	
Month 1	Oct-08	31	278
Month 2	Nov-08	30	296
Month 3	Dec-08	31	353
Total Operational Days In Q4 2008		92	
Total Oxygen in Q4 2008 (Lbs)		927.18	
Running Total Through Q4 2008 (Lbs)		8,972.18	

**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  
 PSI (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 course of day)

	Depth	10/27/2008								11/20/2008								12/15/2008								
		SCFH (M)		SCFH (C*)		CF/D (V)	PSI (M)	PSI (P)	n=PV/RT lbs O2	SCFH (M)		SCFH (C*)		CF/D (V)	PSI (M)	PSI (P)	n=PV/RT lbs O2	SCFH (M)		SCFH (C*)		CF/D (V)	PSI (M)	PSI (P)	n=PV/RT lbs O2	
		530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	530	
<b>MID PLUME Injection Bank 1</b>																										
	Point 1	25	30.156	32.167	9	23.7	0.127	30	36.567	39.005	9.5	24.2	0.158	31	38.175	40.720	10	24.7	0.168	32	38.175	40.720	10	24.7	0.168	
	Point 2	25	24	28.333	30.222	8	22.7	0.115	30	35.416	37.777	8	22.7	0.143	31	36.597	39.036	8	22.7	0.148	32	36.597	39.036	8	22.7	0.148
	Point 3	25	25	29.513	31.496	8	22.7	0.119	28	33.055	35.259	8	22.7	0.134	30	35.416	37.777	8	22.7	0.143	31	36.597	39.036	8	22.7	0.148
	Point 4	25	24	28.019	29.887	7.5	22.2	0.111	31	36.191	38.604	7.5	22.2	0.143	33	38.958	41.555	8	22.7	0.158	34	38.958	41.555	8	22.7	0.158
	Point 5	25	24	28.019	29.887	7.5	22.2	0.111	28	32.689	34.868	7.5	22.2	0.129	30	35.416	37.777	8	22.7	0.143	31	36.597	39.036	8	22.7	0.148
	Point 6	25	24	28.643	30.553	8.5	23.2	0.118	28	33.417	35.645	8.5	23.2	0.138	30	36.188	38.600	9	23.7	0.153	31	37.369	39.858	9	23.7	0.153
	Point 7	25	24	28.019	29.887	7.5	22.2	0.111	28	32.689	34.868	7.5	22.2	0.129	29	34.235	36.518	8	22.7	0.138	30	35.416	37.777	8	22.7	0.143
	Point 8	25	24	28.333	30.222	8	22.7	0.115	28	33.055	35.259	8	22.7	0.134	32	36.191	40.737	8.5	23.2	0.158	33	36.191	40.737	8.5	23.2	0.158
	Point 9	50	30	43.152	46.029	19	33.7	0.259	31	44.550	47.563	19	33.7	0.268	32	45.369	49.460	19.5	34.2	0.283	33	45.369	49.460	19.5	34.2	0.283
	Point 10	25	25	29.186	31.132	7.5	22.2	0.115	26	30.354	32.378	7.5	22.2	0.120	30	32.571	34.743	4.5	19.2	0.111	31	32.571	34.743	4.5	19.2	0.111
<b>Total Oxygen Injected per Day (LBS)</b>		<b>1.301</b>								<b>1.498</b>								<b>1.603</b>								
<b>MID PLUME Injection Bank 2</b>																										
	Point 11	25	19	21.250	22.666	8	22.7	0.086	28	33.055	35.259	8	22.7	0.134	26	30.694	32.740	8	22.7	0.124	28	33.055	35.259	8	22.7	0.134
	Point 12	50	22	31.645	33.754	19	33.7	0.190	27	39.124	41.732	19.5	34.2	0.238	30	43.788	46.707	20	34.7	0.271	32	43.788	46.707	20	34.7	0.271
	Point 13	25	18	21.560	22.666	8	22.7	0.086	28	33.055	35.259	8	22.7	0.134	26	30.694	32.740	8	22.7	0.124	28	33.055	35.259	8	22.7	0.134
	Point 14	68	28	44.801	47.788	27	41.7	0.333	27	43.201	46.081	27	41.7	0.321	38	61.165	65.243	27.5	42.2	0.460	39	61.165	65.243	27.5	42.2	0.460
	Point 15	25	20	23.611	25.185	8	22.7	0.096	26	30.694	32.740	8	22.7	0.124	28	33.055	35.259	8	22.7	0.134	30	35.416	37.777	8	22.7	0.143
	Point 16	50	20	28.768	30.688	19	33.7	0.173	24	34.522	36.223	19	33.7	0.207	40	54.915	58.576	19	33.7	0.200	40	54.915	58.576	19	33.7	0.200
	Point 17	25	20	23.611	25.185	8	22.7	0.096	24	28.333	30.222	8	22.7	0.115	28	33.417	35.645	8.5	23.2	0.138	30	35.416	37.777	8	22.7	0.143
	Point 18	66	35	57.329	61.151	29	43.7	0.448	30	49.698	53.011	30	44.7	0.396	22	36.445	38.875	30	44.7	0.290	22	36.445	38.875	30	44.7	0.290
	Point 19	25	20	23.611	25.185	8	22.7	0.096	28	32.319	34.473	7	21.7	0.125	29	34.235	36.518	8	22.7	0.138	30	35.416	37.777	8	22.7	0.143
	Point 20	50	28	40.275	42.960	19	33.7	0.242	29	41.714	44.455	19	33.7	0.250	39	48.989	52.255	11	25.7	0.224	39	48.989	52.255	11	25.7	0.224
<b>Total Oxygen Injected per Day (LBS)</b>		<b>1.842</b>								<b>2.039</b>								<b>2.191</b>								
<b>MID PLUME Injection Bank 3</b>																										
	Point 21	27	25	29.513	31.481	8	22.7	0.119	27	32.223	34.372	8.5	23.2	0.133	30	36.188	38.600	9	23.7	0.153	32	36.188	38.600	9	23.7	0.153
	Point 22	65.5	28	42.587	45.426	29	43.7	0.332	26	42.830	45.685	29.5	44.2	0.337	32	48.034	51.236	22	36.7	0.314	32	48.034	51.236	22	36.7	0.314
	Point 23	25	22	25.972	27.703	8	22.7	0.105	31	36.597	39.036	8	22.7	0.148	32	37.777	40.296	8	22.7	0.143	33	37.777	40.296	8	22.7	0.143
	Point 24	50	25	35.960	38.357	19	33.7	0.216	26	37.398	39.892	19	33.7	0.225	28	40.868	43.593	20	34.7	0.253	28	40.868	43.593	20	34.7	0.253
	Point 25	25	20	23.349	24.906	7.5	22.2	0.092	27	31.874	33.999	8	22.7	0.129	32	37.777	40.296	8	22.7	0.143	33	37.777	40.296	8	22.7	0.143
	Point 26	25	26	30.354	32.378	7.5	22.2	0.120	27	31.521	33.623	7.5	22.2	0.125	34	40.138	42.814	8	22.7	0.162	34	40.138	42.814	8	22.7	0.162
	Point 27	25	22	25.684	27.396	7.5	22.2	0.102	26	30.354	32.378	7.5	22.2	0.120	30	35.416	37.777	8	22.7	0.143	31	36.597	39.036	8	22.7	0.148
	Point 28	25	20	23.349	24.906	7.5	22.2	0.092	27	31.521	33.623	7.5	22.2	0.125	30	34.627	36.936	7	21.7	0.134	30	34.627	36.936	7	21.7	0.134
	Point 29	25	20	23.611	25.185	8	22.7	0.096	27	31.874	33.999	8	22.7	0.129	32	36.191	40.737	8.5	23.2	0.158	33	36.191	40.737	8.5	23.2	0.158
	Point 30	25	20	23.085	24.624	7	21.7	0.089	26	30.354	32.378	7.5	22.2	0.120	31	34.947	37.277	6	20.7	0.129	31	34.947	37.277	6	20.7	0.129
<b>Total Oxygen Injected per Day (LBS)</b>		<b>1.363</b>								<b>1.591</b>								<b>1.752</b>								
<b>TAIL PLUME Injection Bank 4</b>																										
	Point 1	25	26	32.017	34.152	10	24.7	0.141	29	35.712	38.093	10	24.7	0.157	34	41.869	44.860	10	24.7	0.164	34	41.869	44.860	10	24.7	0.164
	Point 2	27	26	32.340	34.496	10.5	25.2	0.145	27	33.249	35.465	10	24.7	0.146	34	42.291	45.110	10.5	25.2	0.190	34	42.291	45.110	10.5	25.2	0.190
	Point 3	30	28	35.849	38.239	12	26.7	0.171	30	38.410	40.970	12	26.7	0.183	32	40.970	43.702	12	26.7	0.195	32	40.970	43.702	12	26.7	0.195
	Point 4	35	28	36.842	39.299	13.5	28.2	0.185	28	36.183	38.595	12.5	27.2	0.175	35	46.053	49.123	13.5	28.2	0.231	35	46.053	49.123	13.5	28.2	0.231
	Point 5	35	25	32.895	35.088	13.5	28.2	0.165	28	36.514	38.949	13	27.7	0.180	36	46.947	50.077	13	27.7	0.232	36	46.947	50.077	13	27.7	0.232
	Point 6	40	28	38.753	41.336	16.5	31.2	0.215	27	36.459	38.890	15	29.7	0.193	38	49.825	53.146	16.5	31.2	0.277	38	49.825	53.146	16.5	31.2	0.277
	Point 7	45	28	40.275																						

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 Q3 2008 3,685 lbs

	Operational Days	Oxygen Injected Per Month (Lbs)
Month 1	Oct-08 31	127
Month 2	Nov-08 30	122
Month 3	Dec-08 31	131
Total Operational Days In Q4 2008		92
Total Oxygen in Q4 2008 (Lbs)		380.60
Running Total Through Q4 2008 (Lbs)		4,065.60

	Depth	10/24/2008						11/21/2008						12/26/2008						
		SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=P/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=P/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=P/RT lbs O2	
		Temp R (T)																		
		R																		
Injection Bank 1	Point 1	-	32	35.636	71.272	5.5	20.2	0.241	33	36.750	73.500	5.5	20.2	0.248	34	38.329	76.658	6	20.7	0.265
	Point 2	-	33	36.750	73.500	5.5	20.2	0.248	33	37.202	74.404	6.0	20.7	0.257	35	39.456	78.913	6	20.7	0.273
	Point 3	-	33	36.750	73.500	5.5	20.2	0.248	34	37.863	75.727	5.5	20.2	0.256	35	39.456	78.913	6	20.7	0.273
	Point 4	-	33	37.202	74.404	6.0	20.7	0.257	34	38.329	76.658	6.0	20.7	0.265	34	38.789	77.579	6.5	21.2	0.275
	Point 5	-	34	37.863	75.727	5.5	20.2	0.256	33	36.750	73.500	5.5	20.2	0.248	33	37.202	74.404	6	20.7	0.257
	Point 6	-	34	38.329	76.658	6.0	20.7	0.265	33	37.202	74.404	6.0	20.7	0.257	33	37.648	75.297	6.5	21.2	0.267
	Point 7	-	33	37.604	75.208	6.5	21.15	0.266	30	34.627	69.254	7.0	21.7	0.251	30	34.627	69.254	7	21.7	0.251
	Point 8	-	35	40.398	80.797	7.0	21.7	0.293	32	36.936	73.871	7.0	21.7	0.268	33	38.309	76.617	7.25	21.95	0.281
	<b>Total Oxygen Injected per Day (LBS)</b>		<b>2.073</b>						<b>2.050</b>						<b>2.142</b>					
Injection Bank 2	Point 9	-	32	36.074	72.149	6.0	20.7	0.249	33	37.202	74.404	6.0	20.7	0.257	35	39.694	79.388	6.3	20.95	0.278
	Point 10	-	32	36.074	72.149	6.0	20.7	0.249	33	37.648	75.297	6.5	21.2	0.267	33	37.648	75.297	6.5	21.2	0.267
	Point 11	-	34	37.863	75.727	5.5	20.2	0.256	33	36.750	73.500	5.5	20.2	0.248	34	38.329	76.658	6.0	20.7	0.265
	Point 12	-	31	34.947	69.894	6.0	20.7	0.242	33	37.202	74.404	6.0	20.7	0.257	34	38.560	77.120	6.3	20.95	0.270
	Point 13	-	34	37.863	75.727	5.5	20.2	0.256	33	36.750	73.500	5.5	20.2	0.248	34	38.103	76.205	5.8	20.456	0.260
	Point 14	-	37	41.204	82.409	5.5	20.2	0.278	33	36.750	73.500	5.5	20.2	0.248	34	38.329	76.658	6.0	20.7	0.265
	Point 15	-	32	35.192	70.385	5.0	19.7	0.232	32	35.636	71.272	5.5	20.2	0.241	32	35.636	71.272	5.5	20.2	0.241
	Point 16	-	36	40.091	80.181	5.5	20.2	0.271	33	36.750	73.500	5.5	20.2	0.248	33	36.976	73.953	5.8	20.45	0.253
<b>Total Oxygen Injected per Day (LBS)</b>		<b>2.032</b>						<b>2.014</b>						<b>2.098</b>						
<b>System Total Per Day (LBS)</b>		<b>4.11</b>						<b>4.06</b>						<b>4.24</b>						

**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 course 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 5,945 lbs

O2%  
R  
Temp R (T)

	Operational Days	Oxygen Injected Per Month (Lbs)
Month 1	Oct-08	27
Month 2	Nov-08	30
Month 3	Dec-08	31
Total Operational Days In Q4 2008		88
Total Oxygen in Q4 2008 (Lbs)		500.50
Running Total Through Q4 2008 (Lbs)		6,445.50

**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

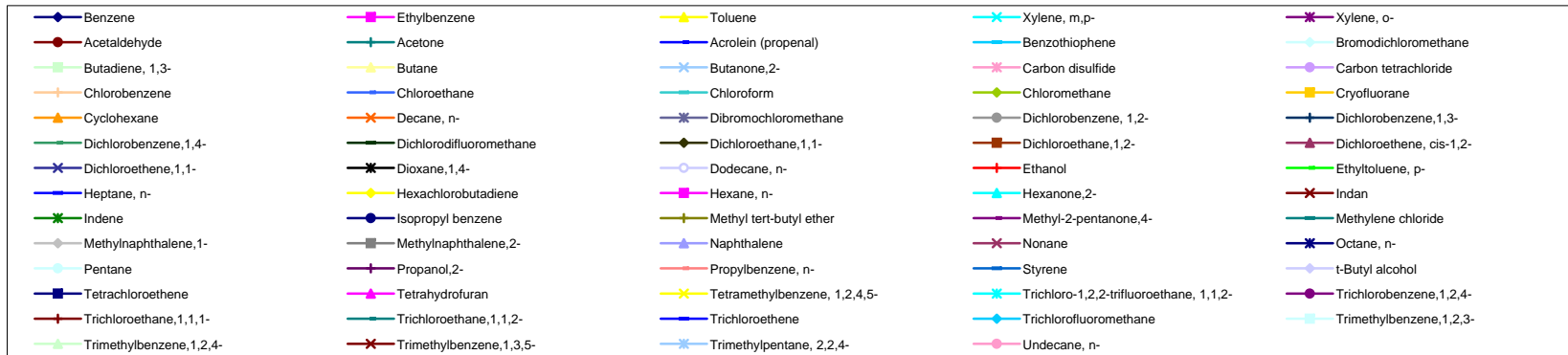
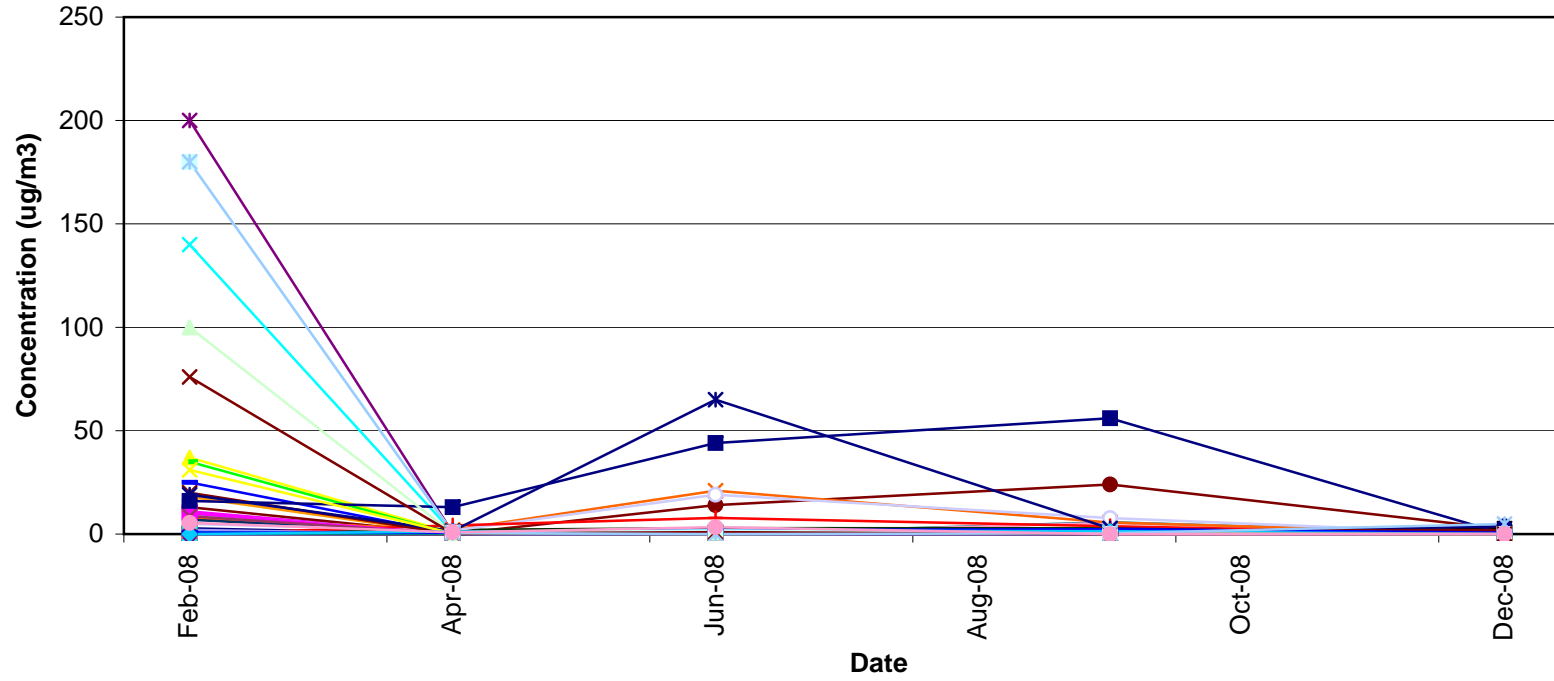
Bank 2 starts injection at 830AM  
Bank 2 finishes injection at 846AM  
System is recharging 846AM to 1000AM  
Bank 3 starts injection at 1000AM  
Bank 3 finishes injection at 1016AM  
System is recharging from 1016AM to 1130AM  
Bank 4 starts injection at 1130AM

Bank 4 Finishes injection at 1146AM  
System is recharging from 1146AM to 100PM

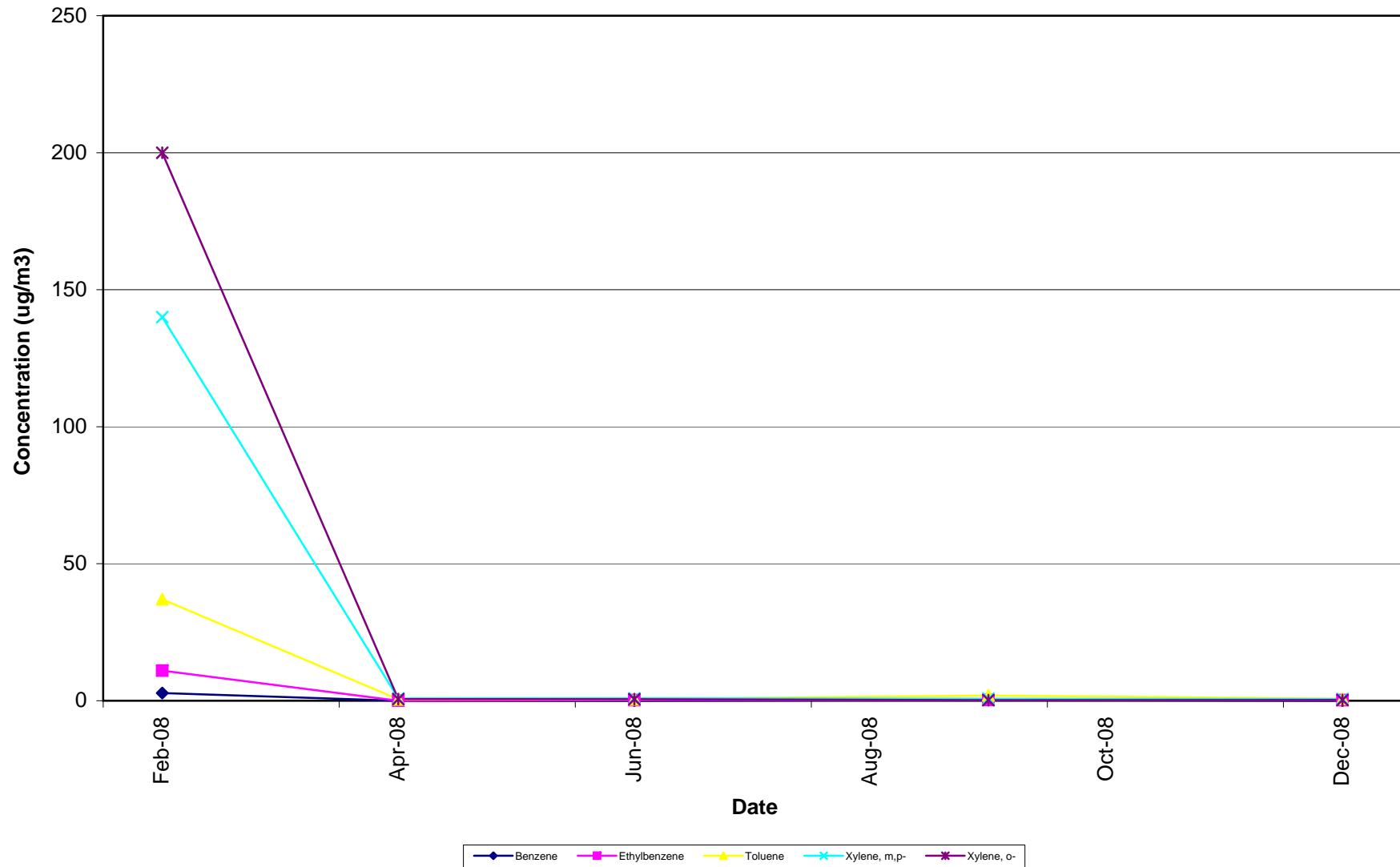
(Keep repeating cycle for course of day)

	Depth	10/24/2008							11/25/2008							12/24/2008						
		SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2	SCFH (M)	SCFH (C*)	CF/D (V)	PSI (M)	PSIa (P)	n=PV/RT lbs O2			
		95							95							95						
		10.73							10.73							10.73						
		530							530							530						
Injection Bank 1	Point 1	-	42	46.772	49.891	5.5	20.2	0.168	39	43.432	46.327	5.5	20.2	0.156	40	44.545	47.515	5.5	20.2	0.160		
	Point 2	-	38	41.791	44.577	5.0	19.7	0.147	40	43.990	46.923	5.0	19.7	0.154	41	45.659	48.703	5.5	20.2	0.164		
	Point 3	-	40	43.429	46.324	4.5	19.2	0.149	40	43.990	46.923	5.0	19.7	0.154	41	45.090	48.096	5.0	19.7	0.158		
	Point 4	-	42	46.772	49.891	5.5	20.2	0.168	39	43.966	46.897	6.0	20.7	0.162	41	46.220	49.302	6.0	20.7	0.170		
	Point 5	-	42	45.002	48.002	4.0	18.7	0.150	40	43.429	46.324	4.5	19.2	0.149	42	45.600	48.640	4.5	19.2	0.156		
	Point 6	-	38	41.257	44.008	4.5	19.2	0.141	40	43.990	46.923	5.0	19.7	0.154	40	43.990	46.923	5.0	19.7	0.154		
	Point 7	-	40	45.093	48.099	6.0	20.7	0.166	40	45.093	48.099	6.0	20.7	0.166	40	45.093	48.099	6.0	20.7	0.166		
	Point 8	-	37	42.707	45.554	7.0	21.7	0.165	39	45.015	48.016	7.0	21.7	0.174	39	45.015	48.016	7.0	21.7	0.174		
	Point 9	-	38	43.861	46.785	7.0	21.7	0.170	38	44.363	47.321	7.5	22.2	0.175	38	44.363	47.321	7.5	22.2	0.175		
	Point 10	-	38	42.318	45.139	5.5	20.2	0.152	39	43.432	46.327	5.5	20.2	0.156	40	45.093	48.099	6.0	20.7	0.166		
<b>Total Oxygen Injected per Day (LBS)</b>		<b>1.576</b>							<b>1.603</b>							<b>1.646</b>						
Injection Bank 2	Point 11	-	52	60.708	64.755	7.5	22.2	0.240	37	43.680	46.592	8.0	22.7	0.177	26	30.694	32.740	8.0	22.7	0.124		
	Point 12	-	35	38.000	40.533	4.5	19.2	0.130	36	39.591	42.231	5.0	19.7	0.139	27	29.694	31.673	5.0	19.7	0.104		
	Point 13	-	35	38.977	41.575	5.5	20.2	0.140	35	39.456	42.087	6.0	20.7	0.146	29	32.692	34.872	6.0	20.7	0.121		
	Point 14	-	38	41.791	44.577	5.0	19.7	0.147	35	38.977	41.575	5.5	20.2	0.140	32	35.636	38.012	5.5	20.2	0.128		
	Point 15	-	39	44.494	47.460	6.5	21.2	0.168	36	41.553	44.323	7.0	21.7	0.161	28	32.319	34.473	7.0	21.7	0.125		
	Point 16	-	36	41.553	44.323	7.0	21.7	0.161	36	42.029	44.830	7.5	22.2	0.166	30	35.024	37.359	7.5	22.2	0.139		
	Point 17	-	34	38.789	41.375	6.5	21.2	0.147	35	40.398	43.091	7.0	21.7	0.156	30	34.627	36.936	7.0	21.7	0.134		
	Point 18	-	34	38.329	40.884	6.0	20.7	0.141	36	41.071	43.809	6.5	21.2	0.155	30	34.226	36.508	6.5	21.2	0.129		
	Point 19	-	36	41.553	44.323	7.0	21.7	0.161	36	42.029	44.830	7.5	22.2	0.166	30	35.024	37.359	7.5	22.2	0.139		
	Point 20	-	38	42.838	45.694	6.0	20.7	0.158	36	41.071	43.809	6.5	21.2	0.155	26	29.662	31.640	6.5	21.2	0.112		
<b>Total Oxygen Injected per Day (LBS)</b>		<b>1.592</b>							<b>1.561</b>							<b>1.255</b>						
Injection Bank 3	Point 21	-	44	50.198	53.544	6.5	21.2	0.190	39	45.015	48.016	7.0	21.7	0.174	44	50.786	54.172	7.0	21.7	0.196		
	Point 22	-	42	47.916	51.111	6.5	21.2	0.181	40	46.169	49.247	7.0	21.7	0.179	42	48.478	51.710	7.0	21.7	0.187		
	Point 23	-	44	49.602	52.909	6.0	20.7	0.183	40	45.093	48.099	6.0	20.7	0.166	42	47.348	50.504	6.0	20.7	0.175		
	Point 24	-	44	49.602	52.909	6.0	20.7	0.183	42	47.916	51.111	6.5	21.2	0.181	45	51.339	54.761	6.5	21.2	0.194		
	Point 25	-	40	45.093	48.099	6.0	20.7	0.166	39	44.494	47.460	6.5	21.2	0.168	40	45.634	48.677	6.5	21.2	0.172		
	Point 26	-	44	49.602	52.909	6.0	20.7	0.183	40	45.093	48.099	6.0	20.7	0.166	42	47.916	51.111	6.5	21.2	0.181		
	Point 27	-	40	43.990	46.923	5.0	19.7	0.154	40	43.990	46.923	5.0	19.7	0.154	40	44.545	47.515	5.5	20.2	0.160		
	Point 28	-	40	43.990	46.923	5.0	19.7	0.154	39	43.432	46.327	5.5	20.2	0.156	40	44.545	47.515	5.5	20.2	0.160		
Point 29	-	43	47.886	51.078	5.5	20.2	0.172	39	43.432	46.327	5.5	20.2	0.156	40	45.093	48.099	6.0	20.7	0.166			
Point 30	-	42	46.772	49.891	5.5	20.2	0.168	39	43.432	46.327	5.5	20.2	0.156	40	45.093	48.099	6.0	20.7	0.166			
<b>Total Oxygen Injected per Day (LBS)</b>		<b>1.735</b>							<b>1.658</b>							<b>1.759</b>						
Injection Bank 4	Point 31	-	43	48.475	51.707	6.0	20.7	0.179	39	44.494	47.460	6.5	21.2	0.168	40	46.169	49.247	7.0	21.7	0.179		
	Point 32	-	42	46.190	49.269	5.0	19.7	0.162	40	44.545	47.515	5.5	20.2	0.160	40	44.545	47.515	5.5	20.2	0.160		
	Point 10A	-	42	49.033	52.302	7.5	22.2	0.194	40	47.221	50.369	8.0	22.7	0.191	43	51.319	54.740	8.5	23.2	0.212		
	Point 11A	-	42	49.033	52.302	7.5	22.2	0.194	39	46.041	49.110	8.0	22.7	0.186	42	50.125	53.467	8.5	23.2	0.207		
Point 11B	-	46	50.589	53.962	5.0	19.7	0.178	39	43.432	46.327	5.5	20.2	0.156	40	45.093	48.099	6.0	20.7	0.166			
<b>Total Oxygen Injected per Day (LBS)</b>		<b>0.906</b>							<b>0.862</b>							<b>0.925</b>						
<b>System Total Per Day (LBS)</b>		<b>5.81</b>							<b>5.68</b>							<b>5.58</b>						

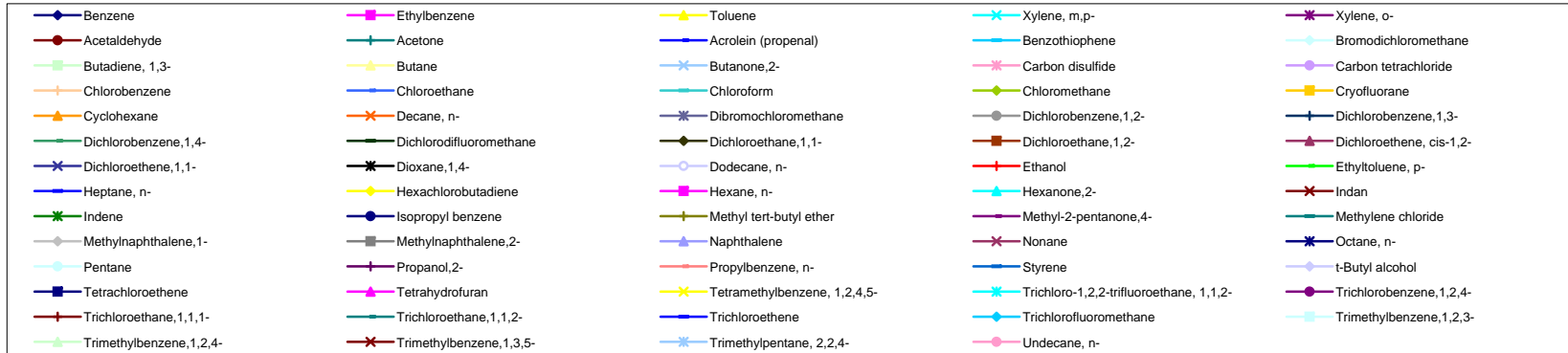
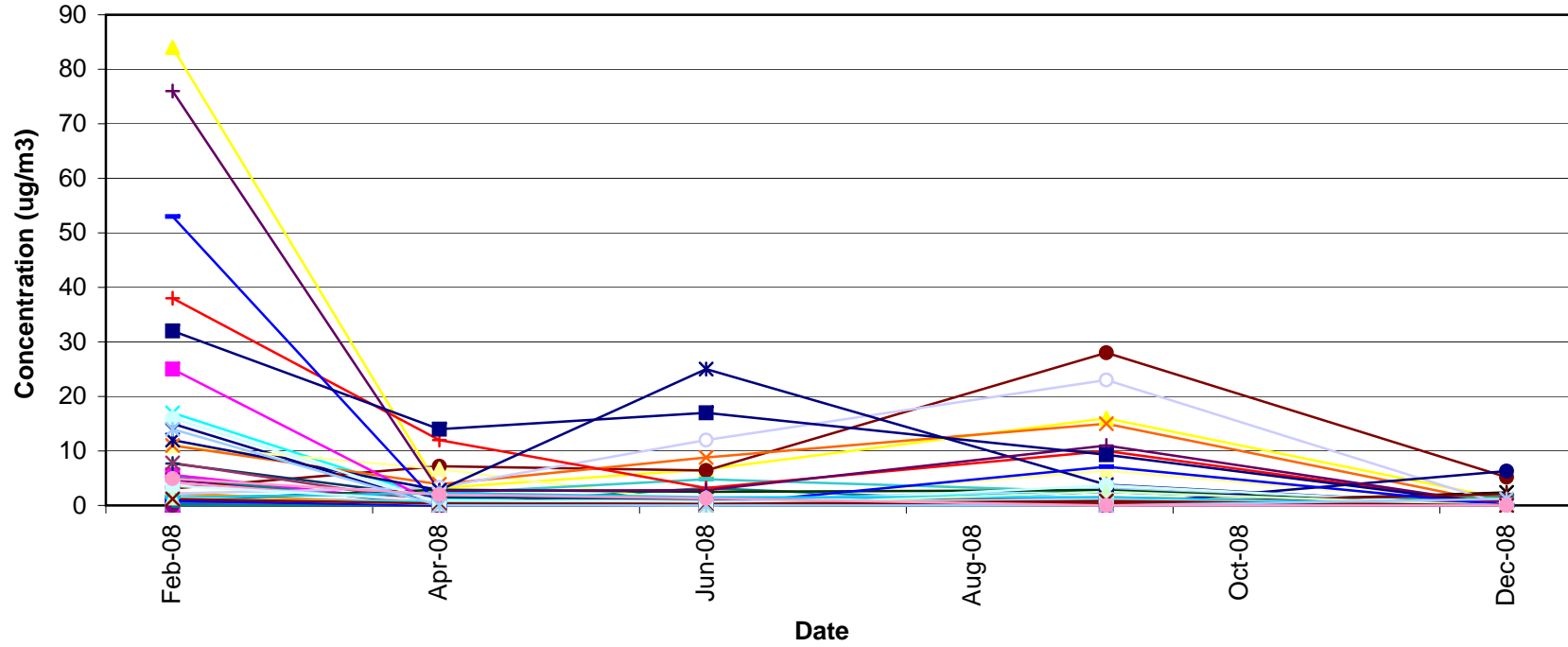
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No.1  
Bay Shore/Brightwaters Former MGP Site  
**OU1SG-06**



Appendix D  
Soil Vapor Analytical Results  
Operable Unit No.1  
Bay Shore/Brightwaters Former MGP Site  
**OU1SG06 BTEX**

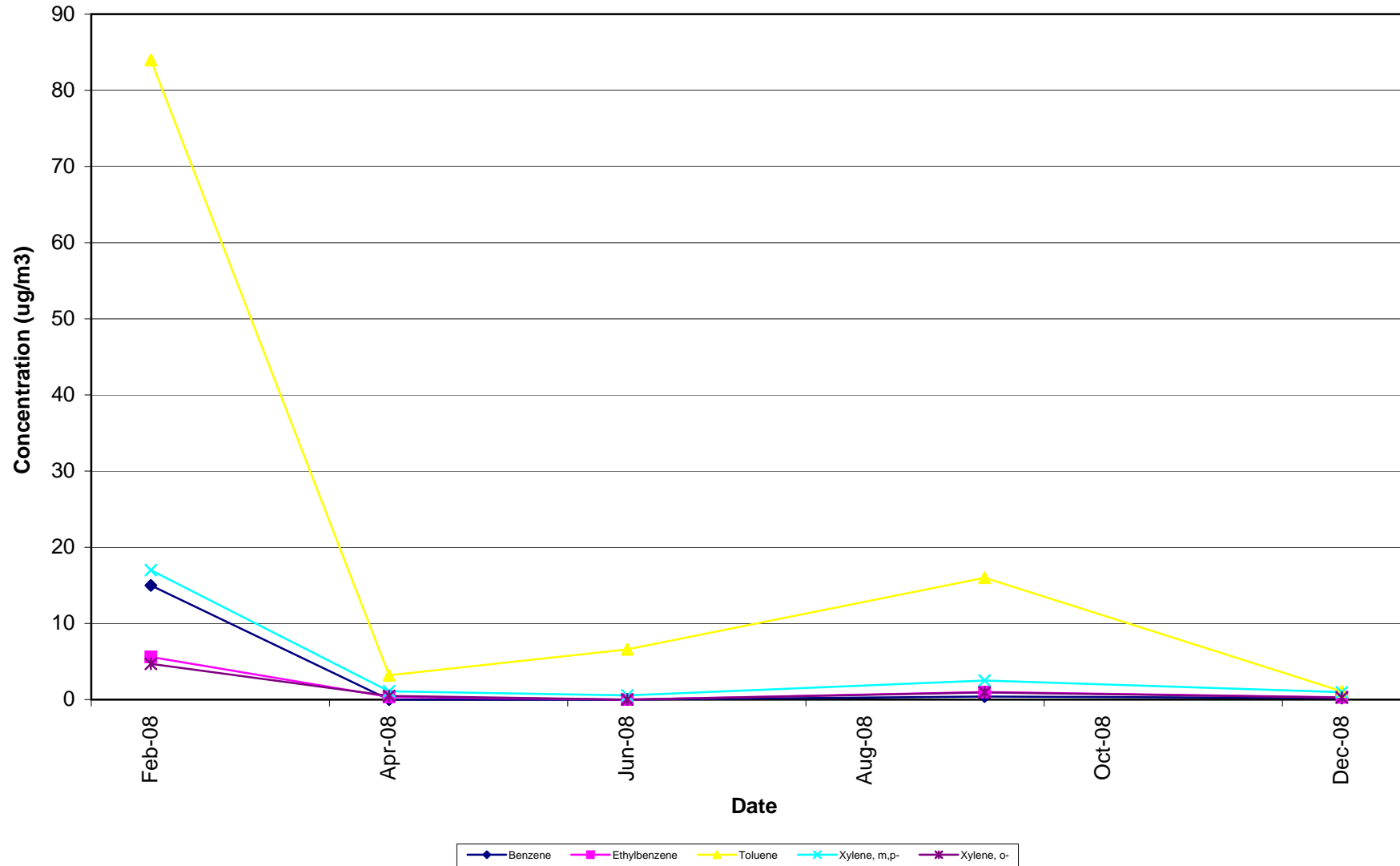


Appendix D  
Soil Vapor Analytical Results  
Operable Unit No.1  
Bay Shore/Brightwaters Former MGP Site  
**OU1SG07**

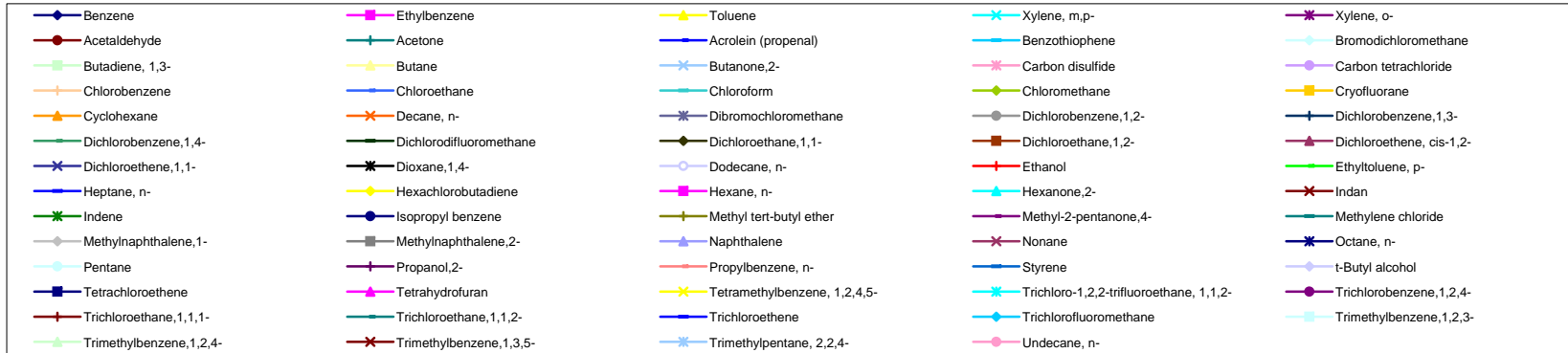
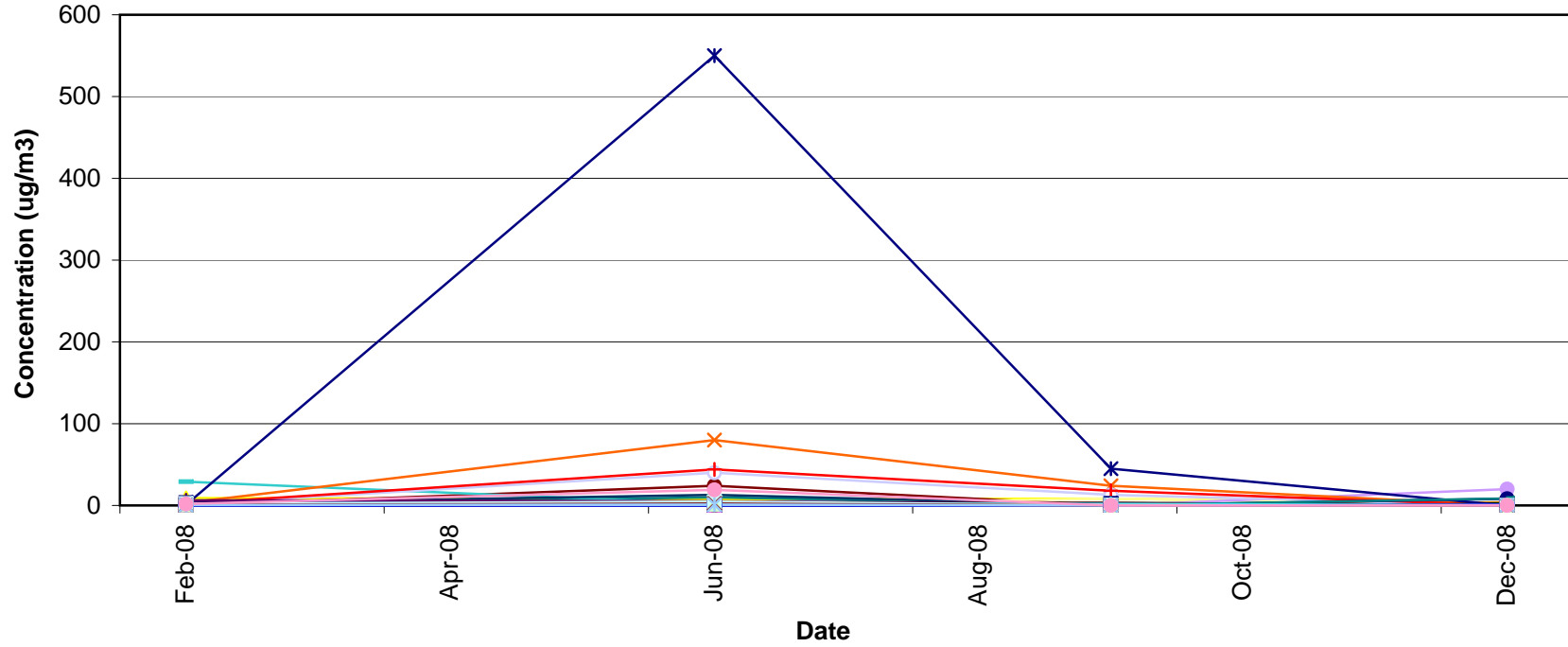




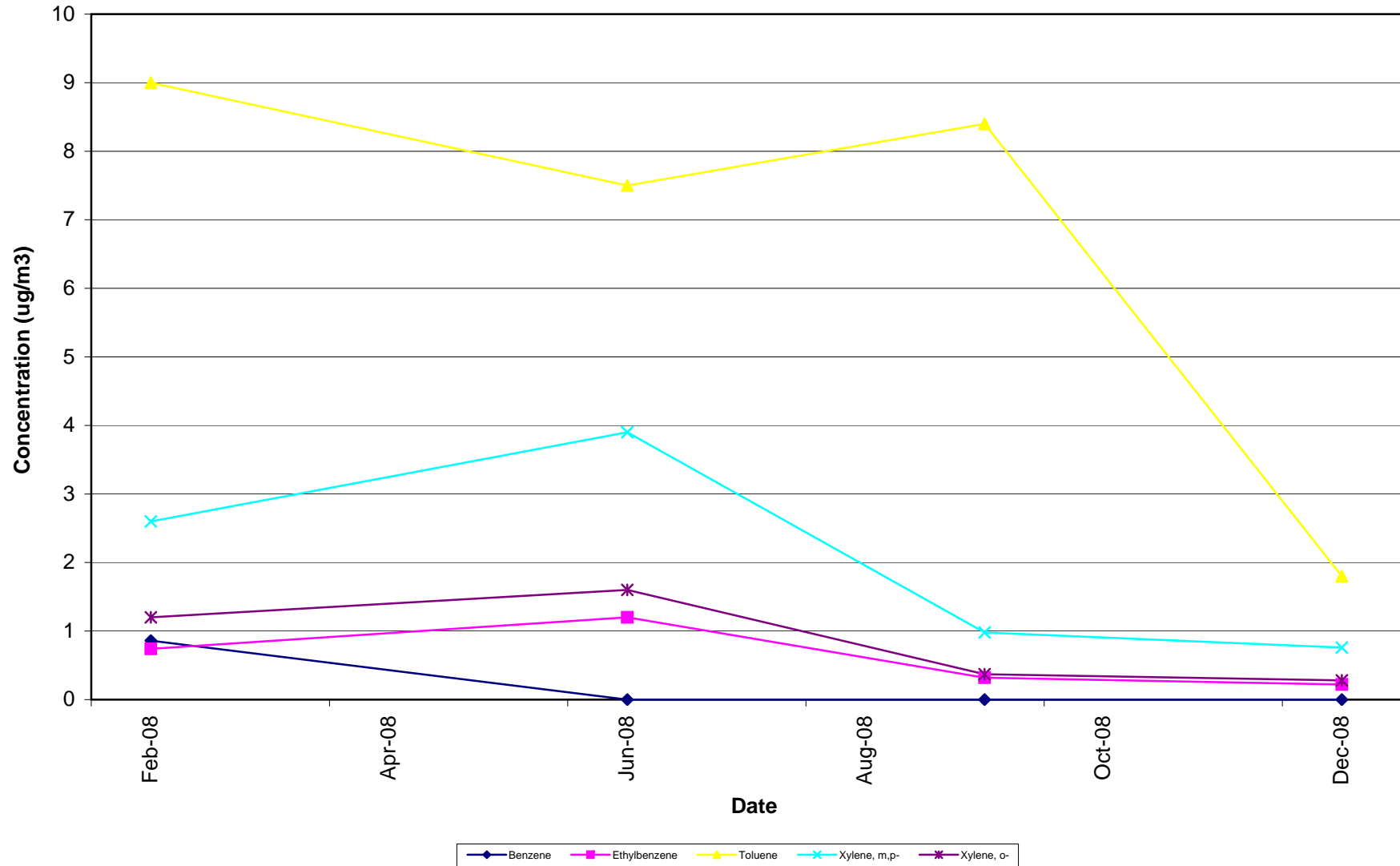
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No.1  
Bay Shore/Brightwaters Former MGP Site  
**OU1SG07 BTEX**



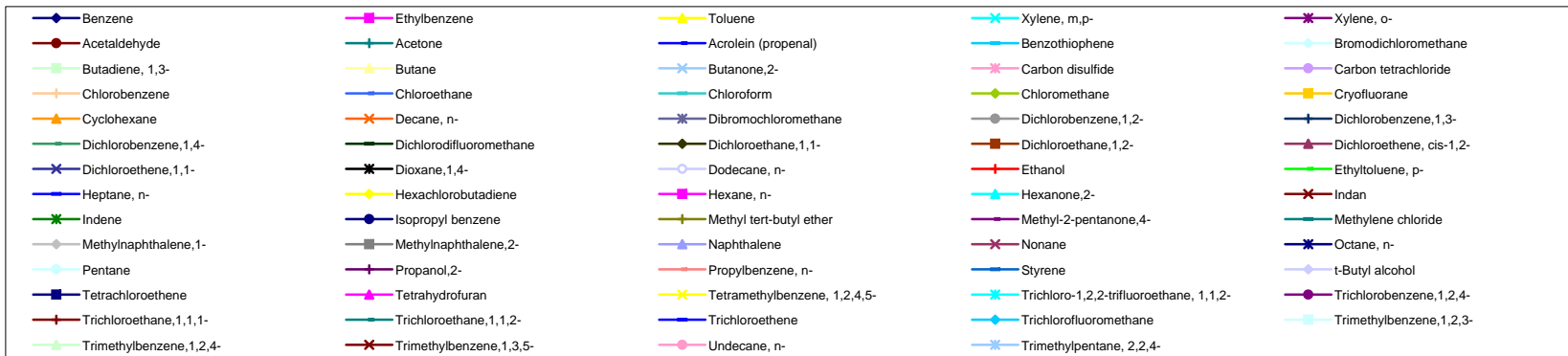
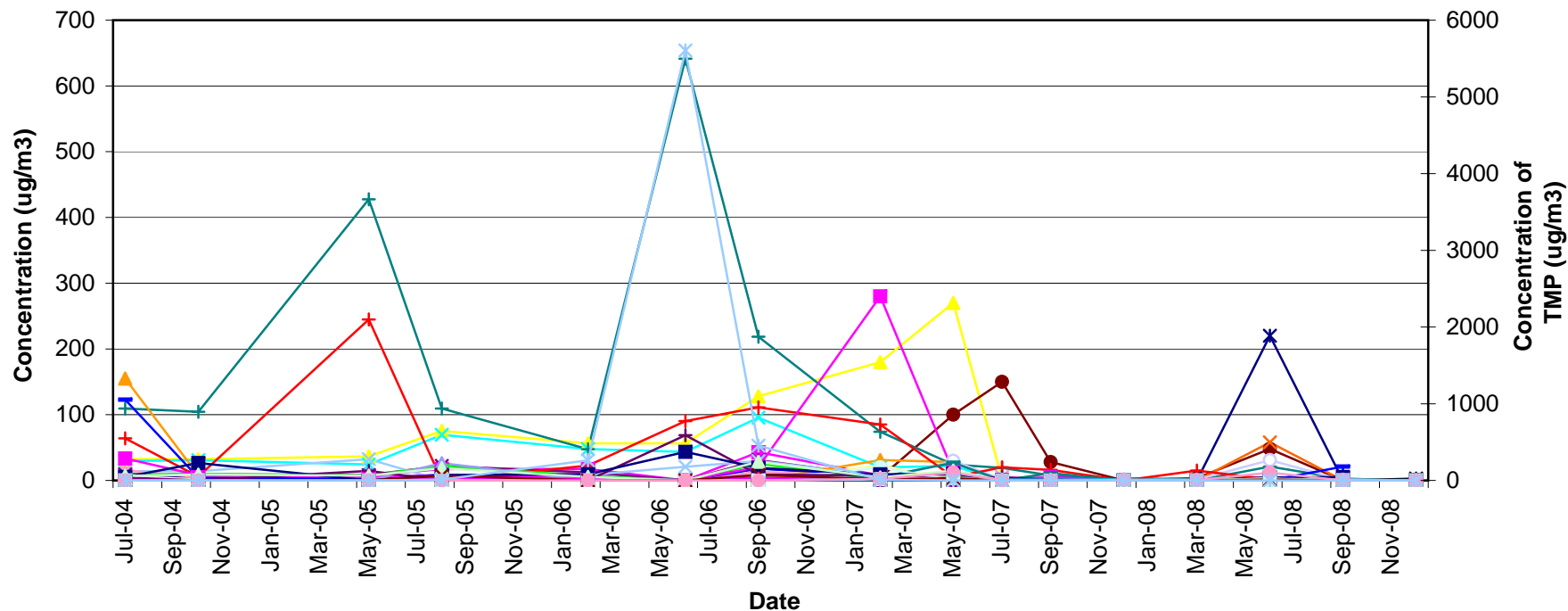
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No.1  
Bay Shore/Brightwaters Former MGP Site  
**OU1SG08**



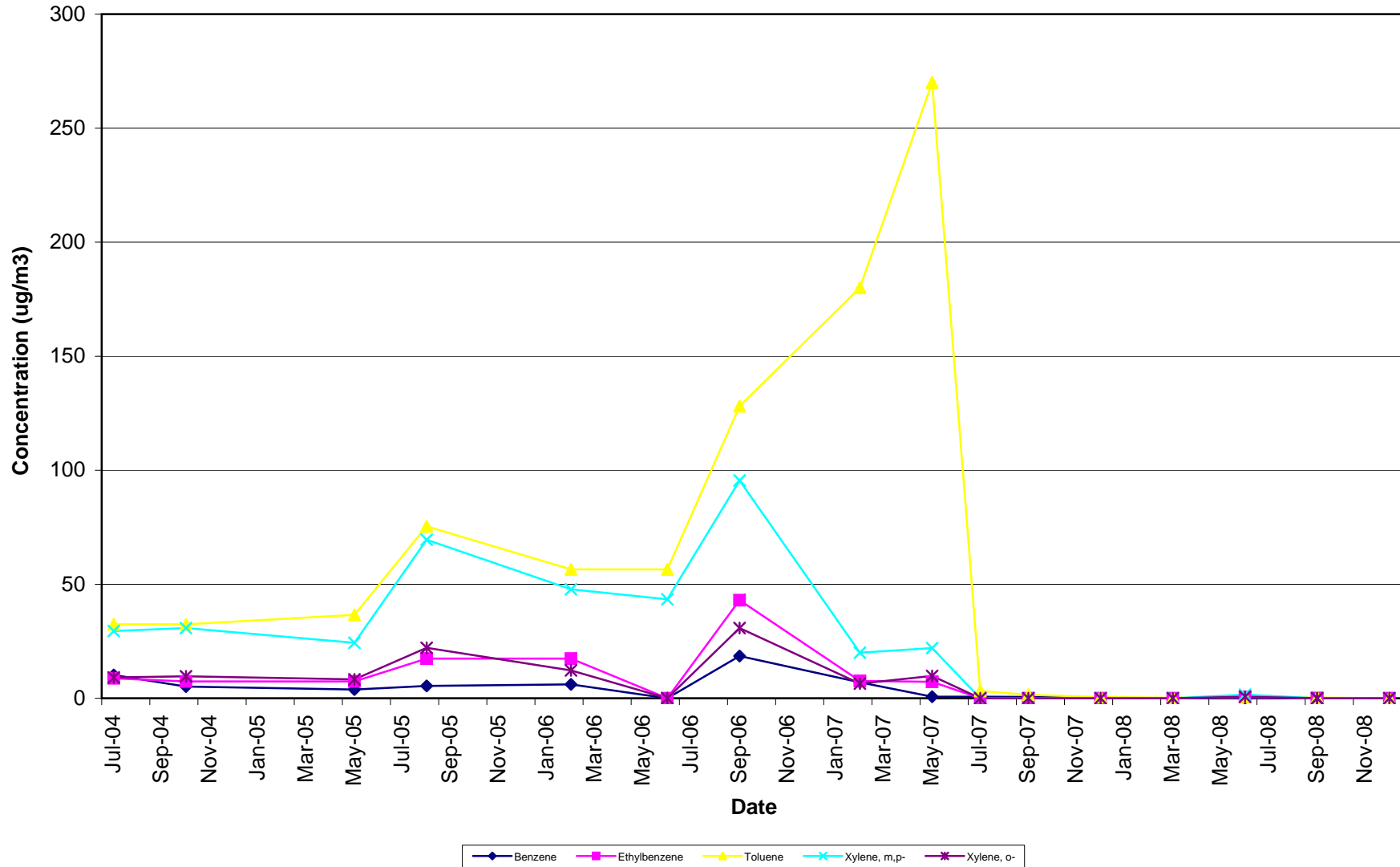
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No.1  
Bay Shore/Brightwaters Former MGP Site  
**OU1SG08 BTEX**



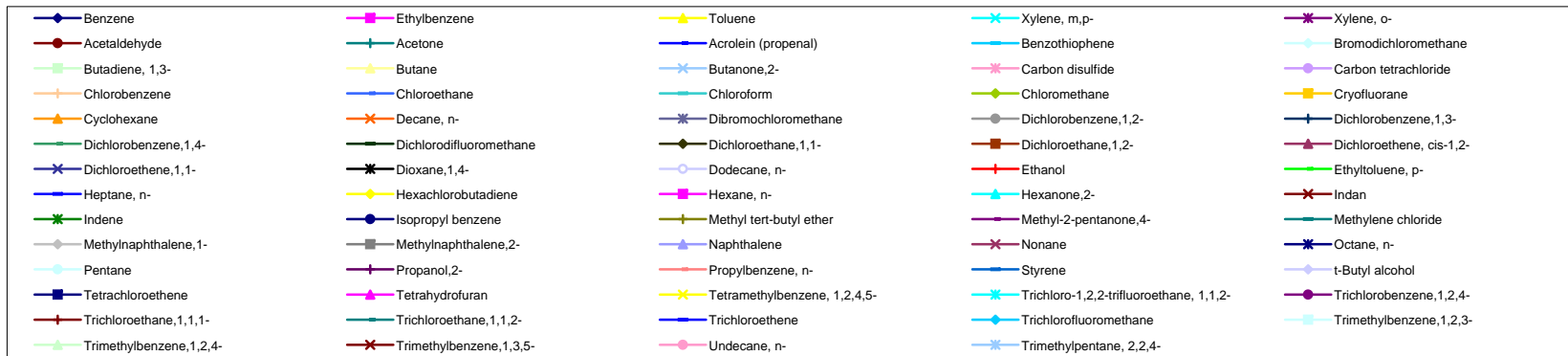
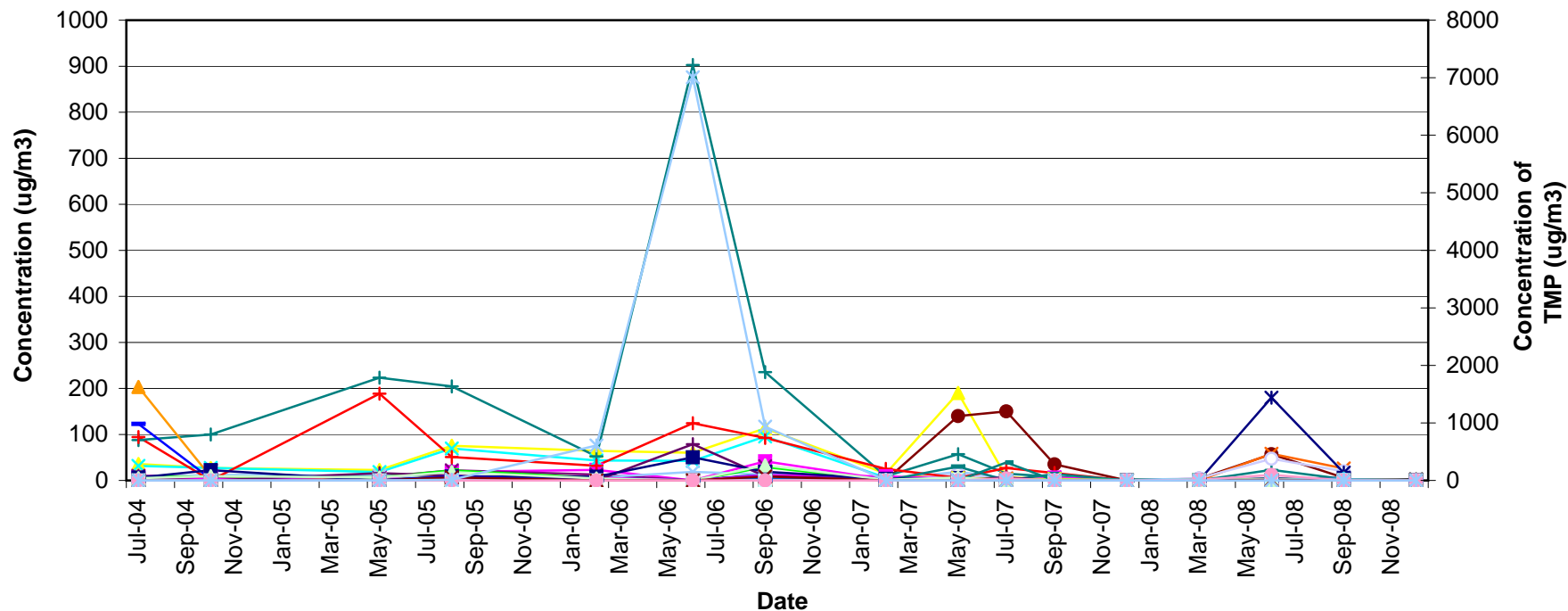
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG01**



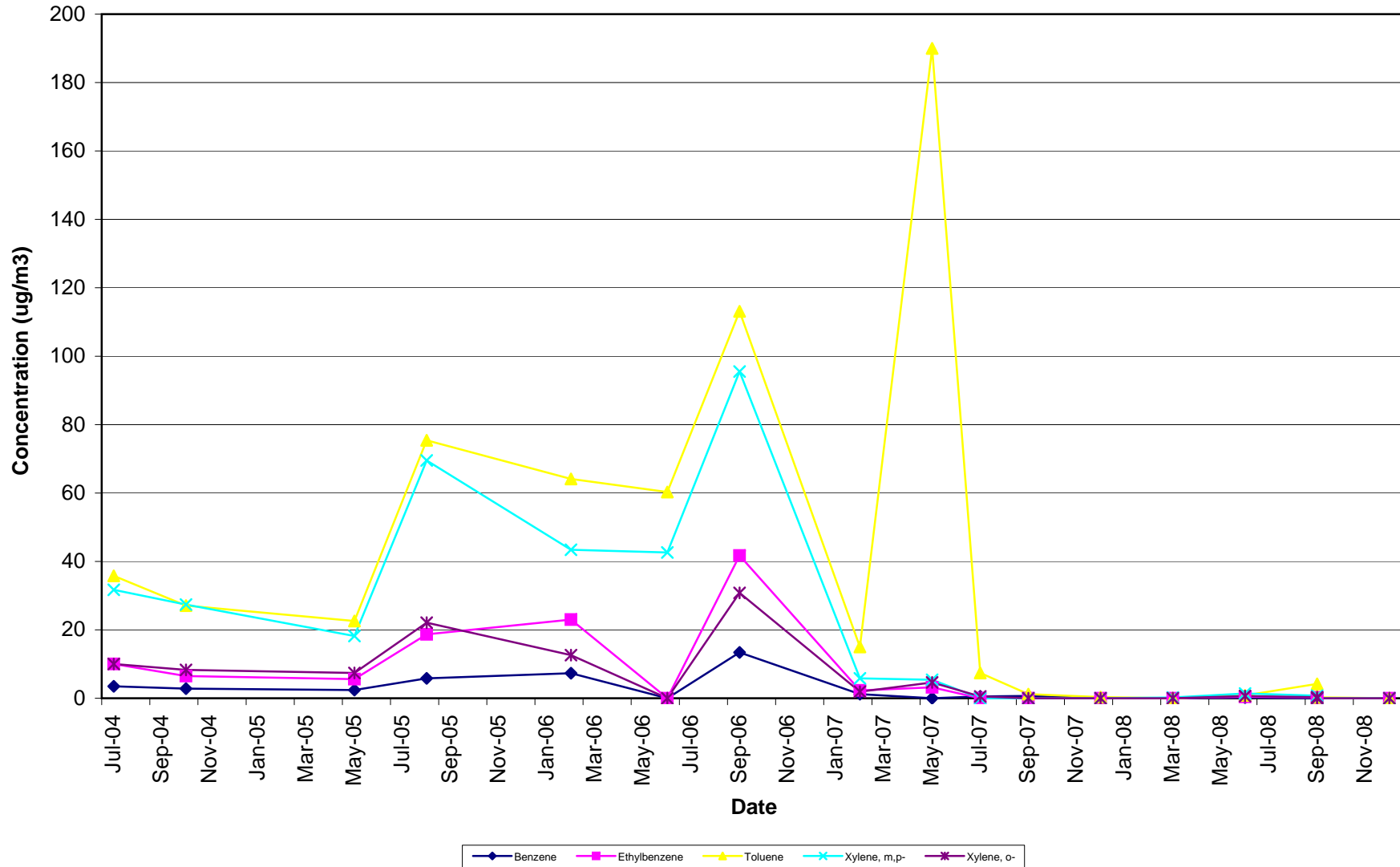
Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG01 BTEX**



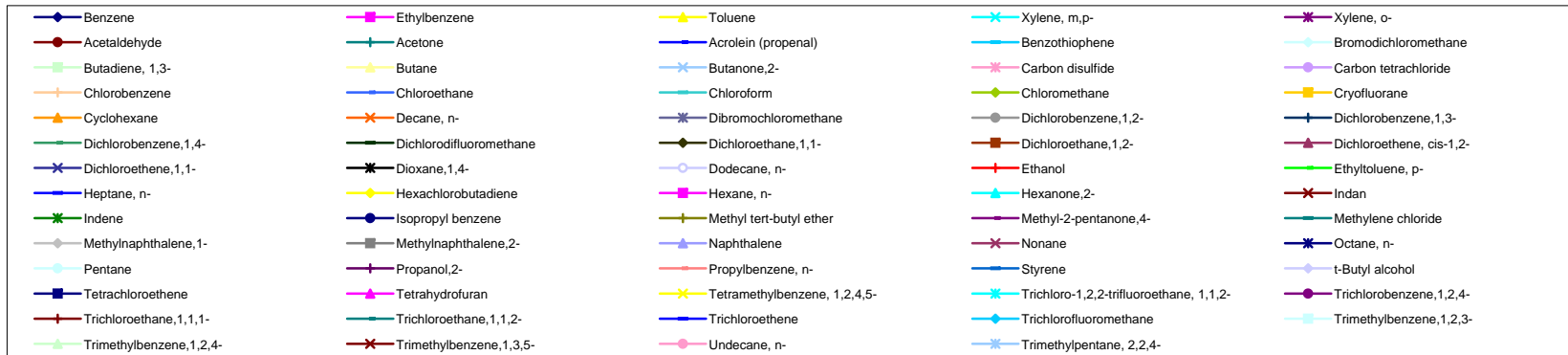
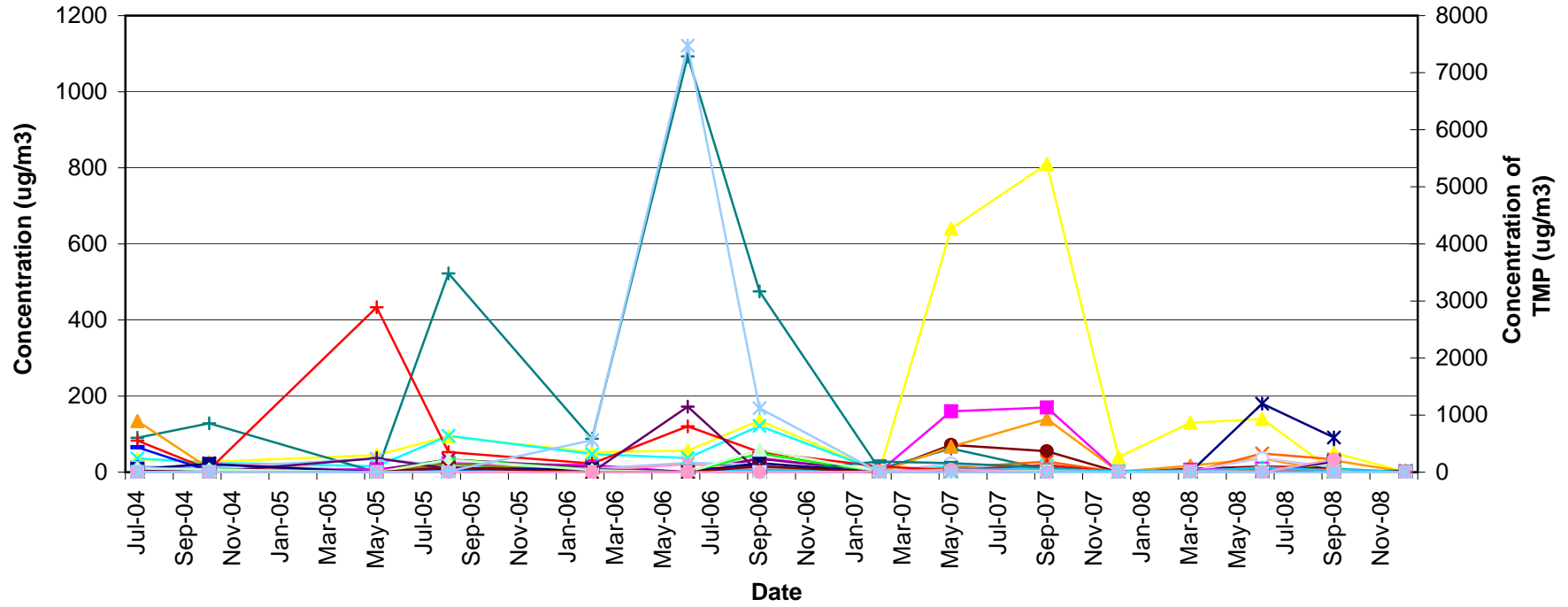
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG02**



Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG02 BTEX**

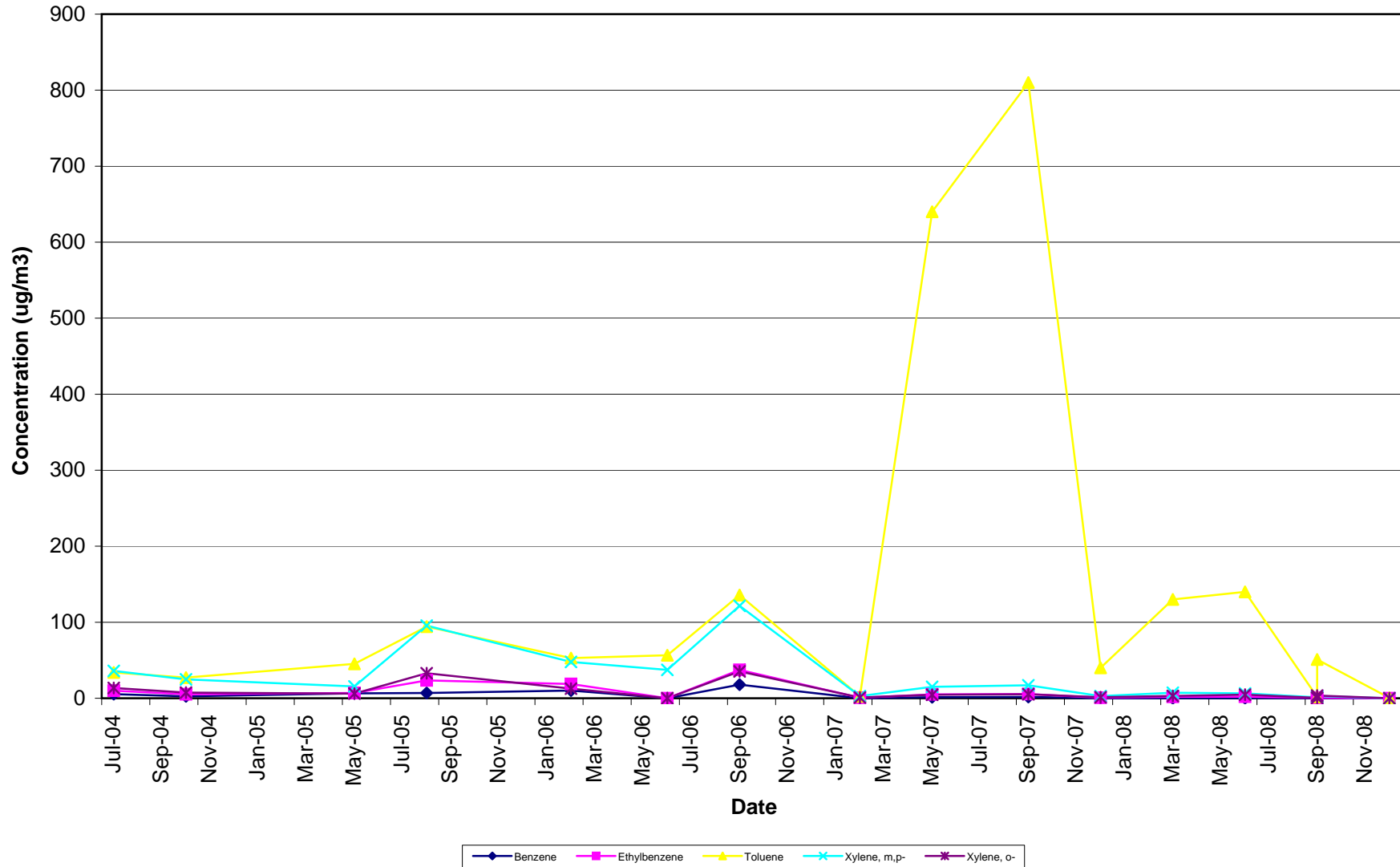


Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG03**

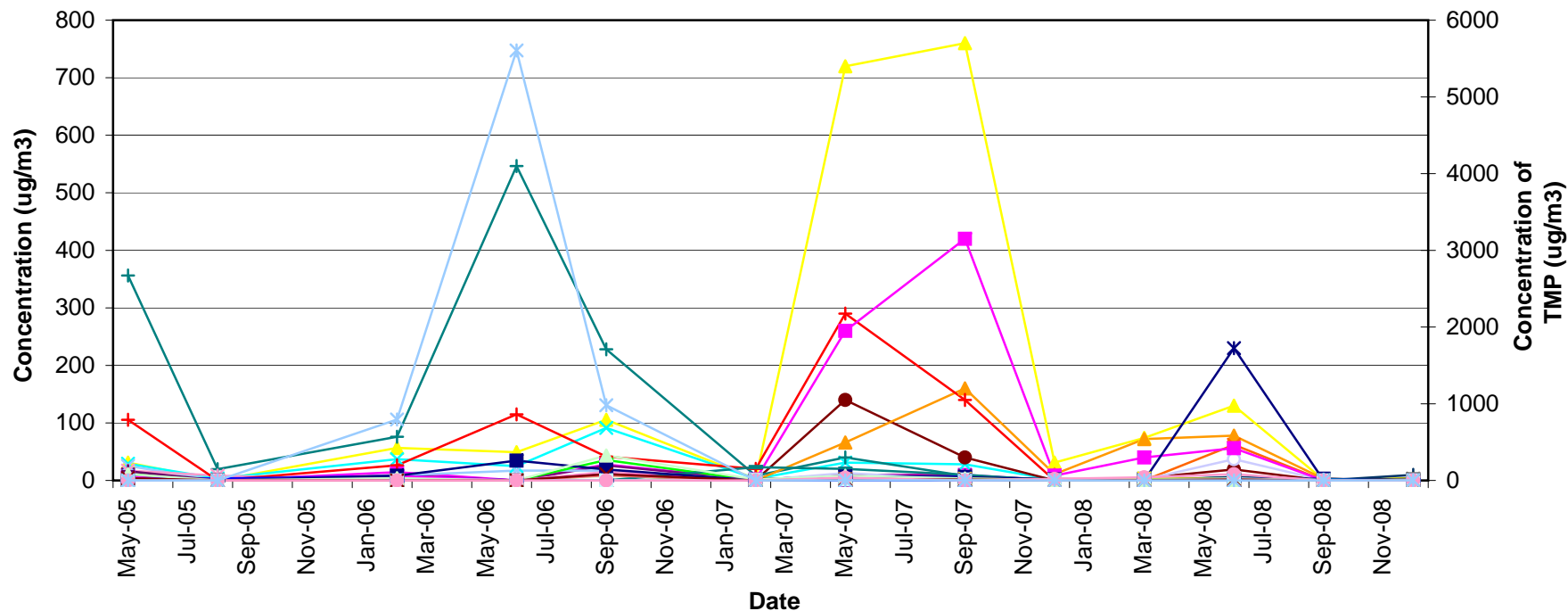




Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG03 BTEX**

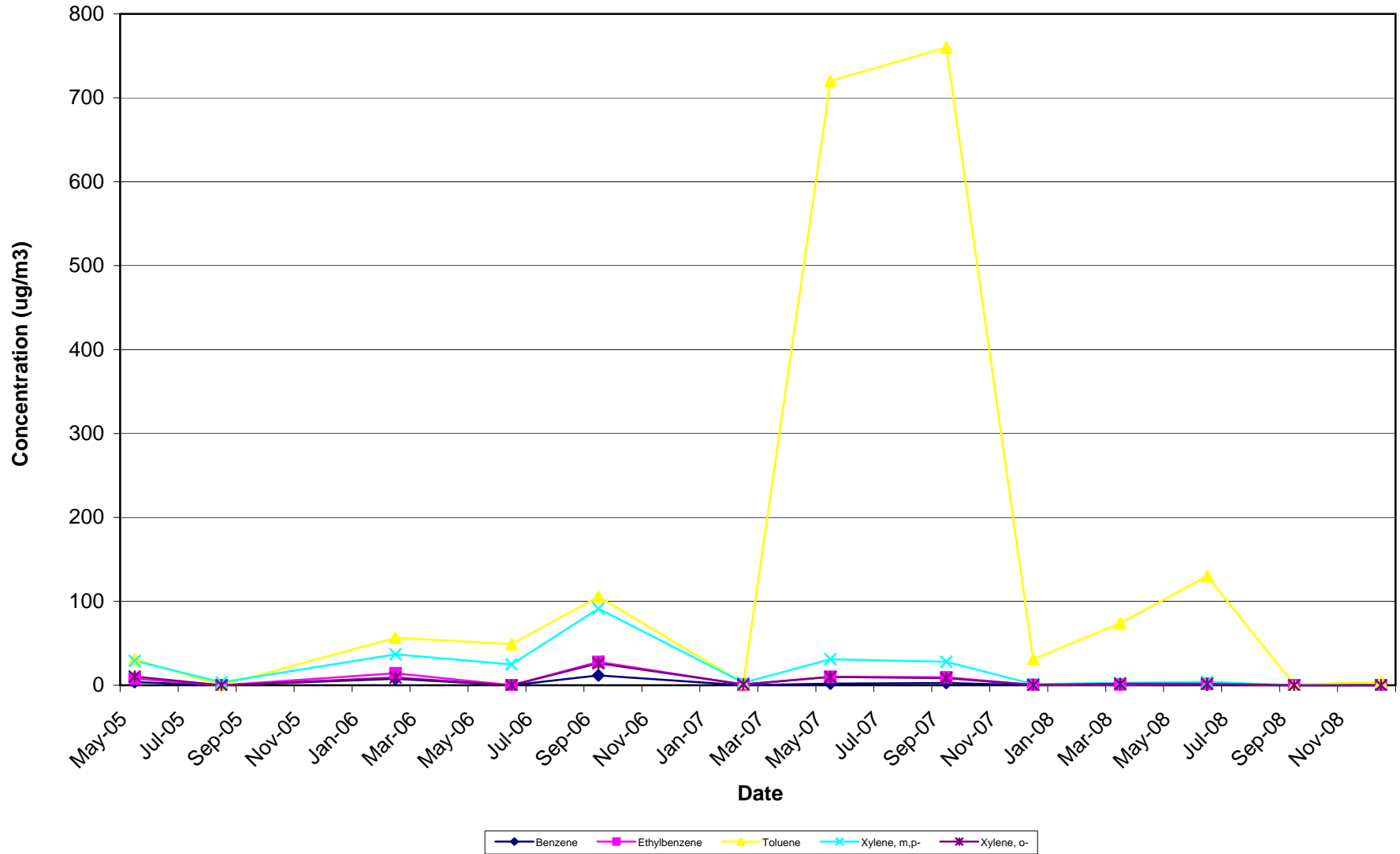


Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG04**

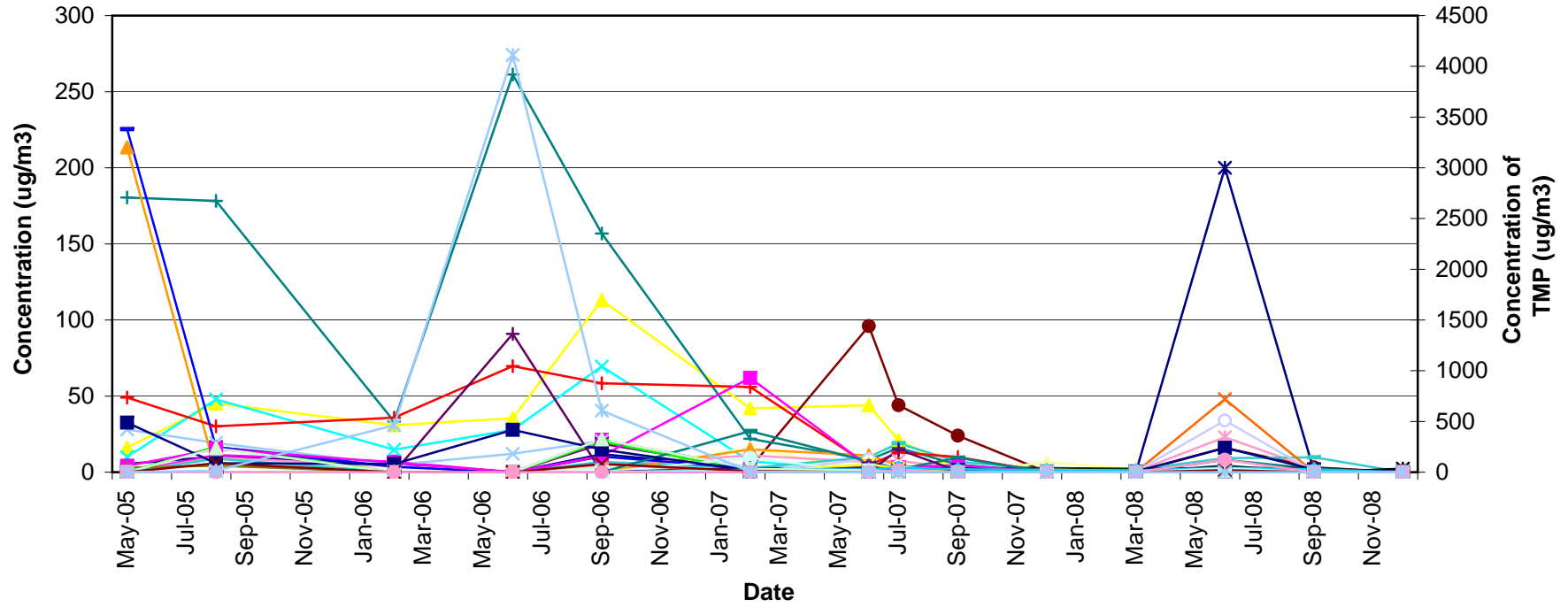


◆ Benzene	◆ Ethylbenzene	◆ Toluene	◆ Xylene, m,p-	◆ Xylene, o-
◆ Acetaldehyde	◆ Acetone	◆ Acrolein (propenal)	◆ Benzothiophene	◆ Bromodichloromethane
◆ Butadiene, 1,3-	◆ Butane	◆ Butanone, 2-	◆ Carbon disulfide	◆ Carbon tetrachloride
◆ Chlorobenzene	◆ Chloroethane	◆ Chloroform	◆ Chloromethane	◆ Cryofluorane
◆ 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-	◆ Undecane, n-	◆ Trimethylpentane, 2,2,4-	

Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG04 BTEX**

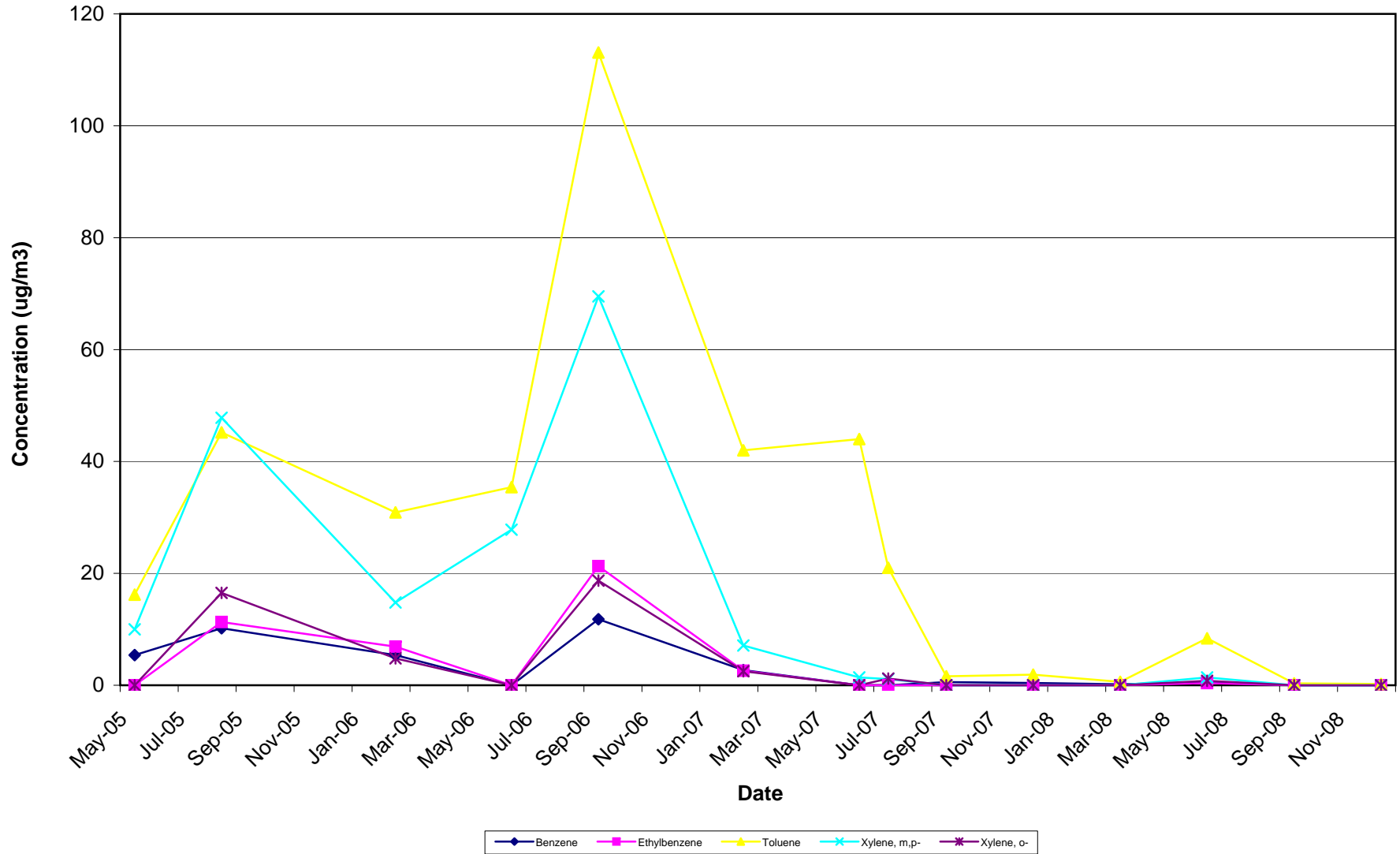


Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG05**

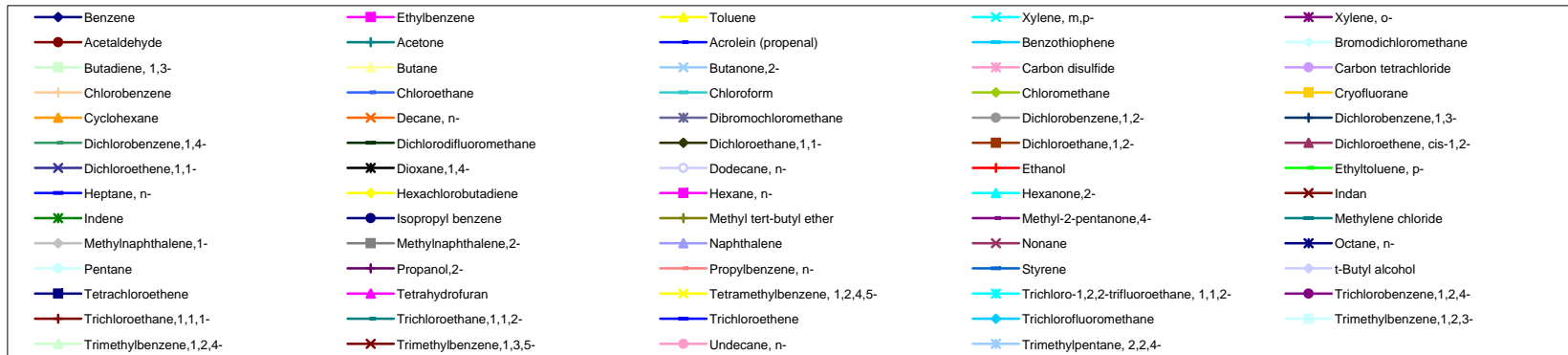
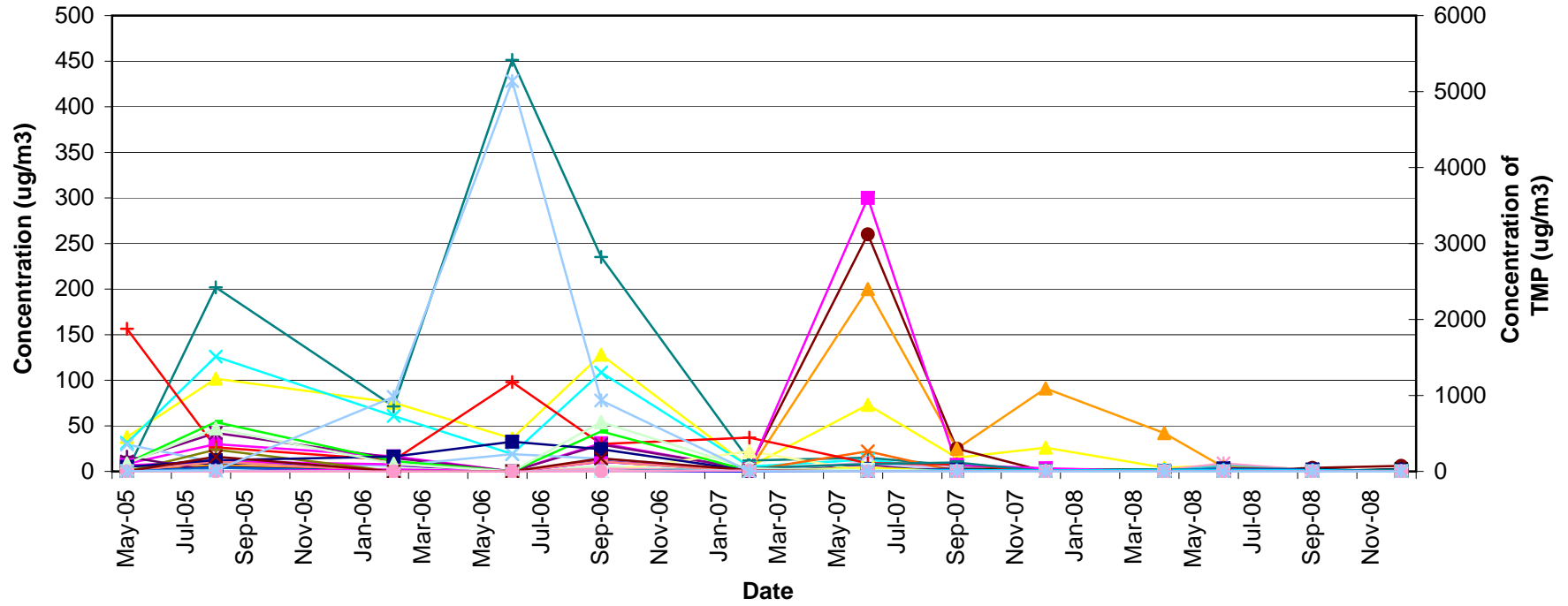


◆ Benzene	◆ Ethylbenzene	◆ Toluene	◆ Xylene, m,p-	◆ Xylene, o-
◆ Acetaldehyde	◆ Acetone	◆ Acrolein (propenal)	◆ Benzothiophene	◆ Bromodichloromethane
◆ Butadiene, 1,3-	◆ Butane	◆ Butanone, 2-	◆ Carbon disulfide	◆ Carbon tetrachloride
◆ Chlorobenzene	◆ Chloroethane	◆ Chloroform	◆ Chloromethane	◆ Cryofluorane
◆ 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-	◆ Undecane, n-	◆ Trimethylpentane, 2,2,4-	

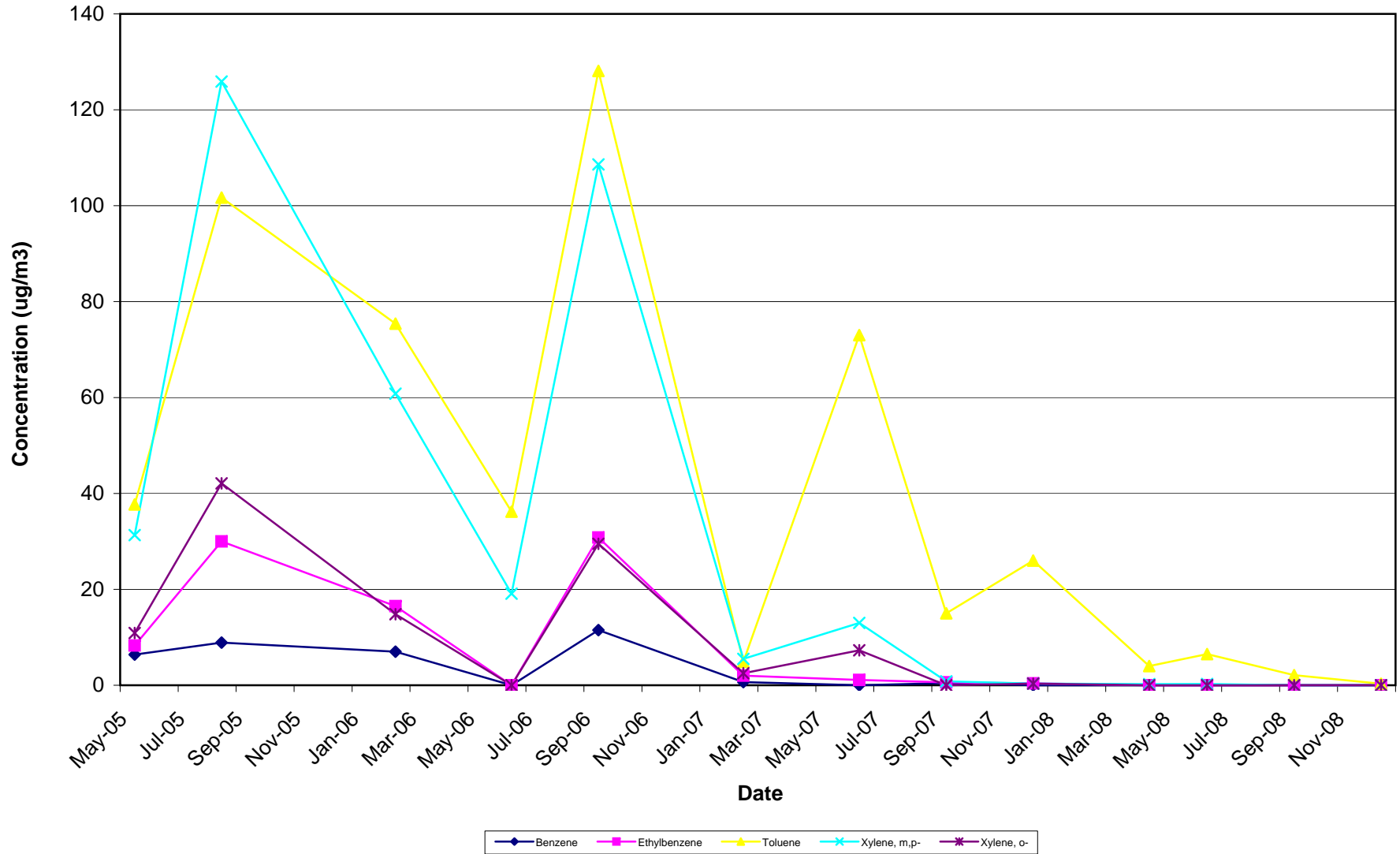
Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG05 BTEX**



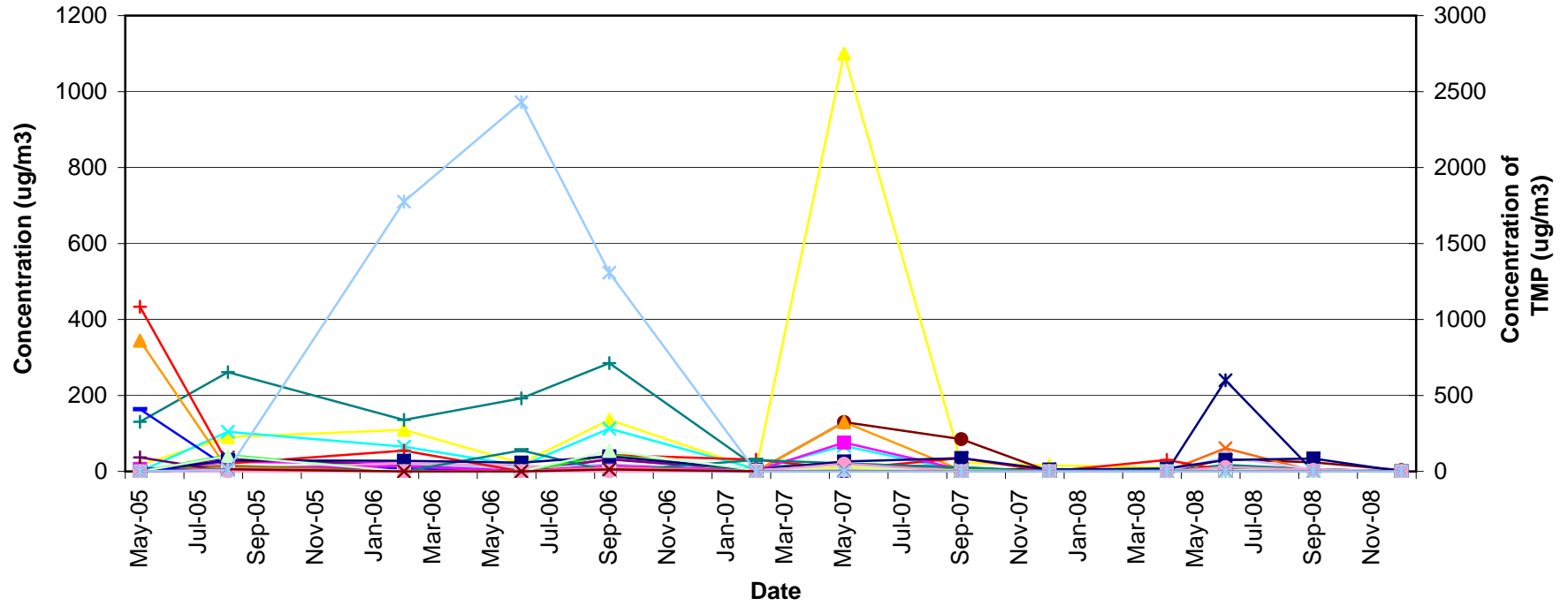
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG06**



Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG06 BTEX**



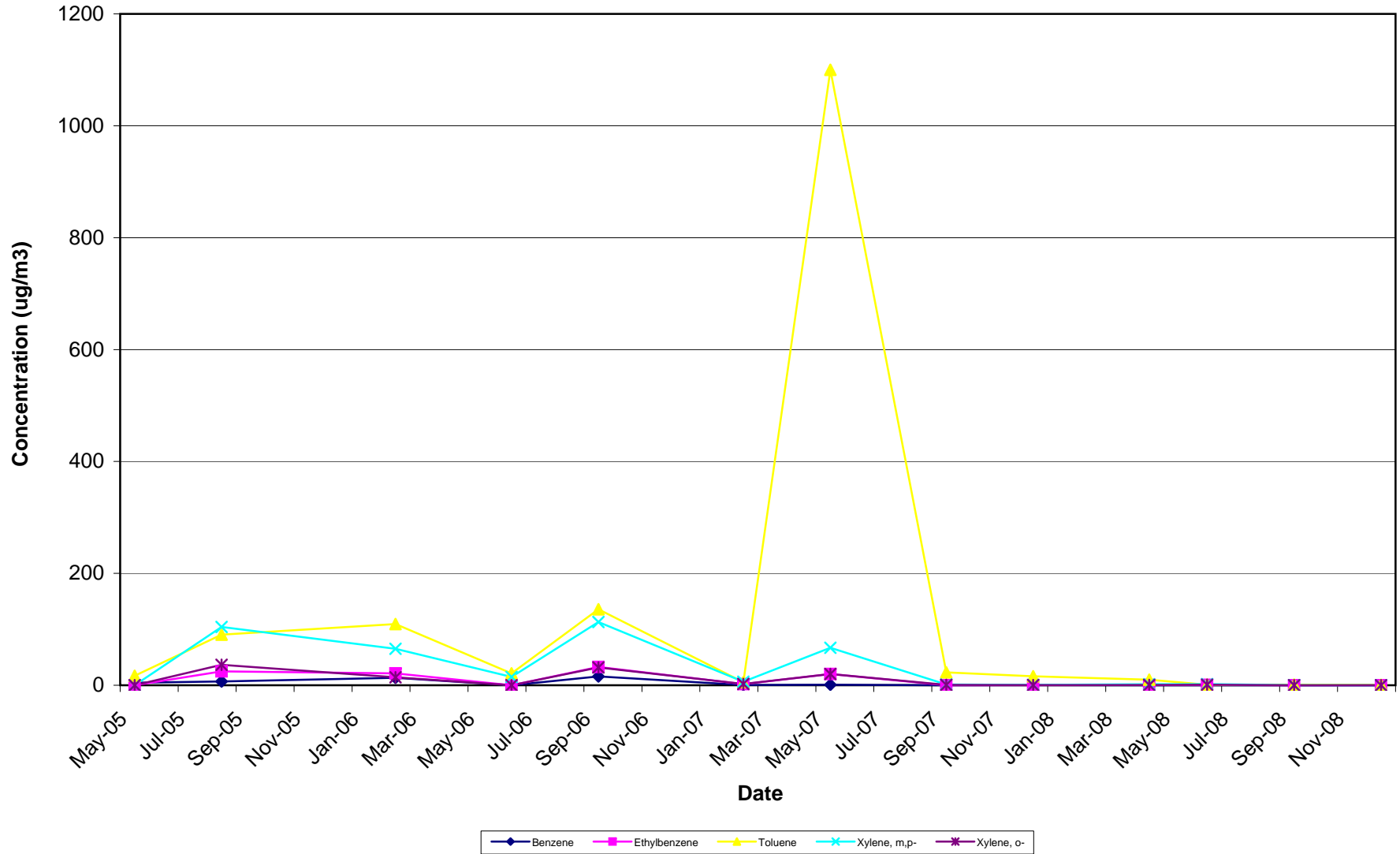
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG07**



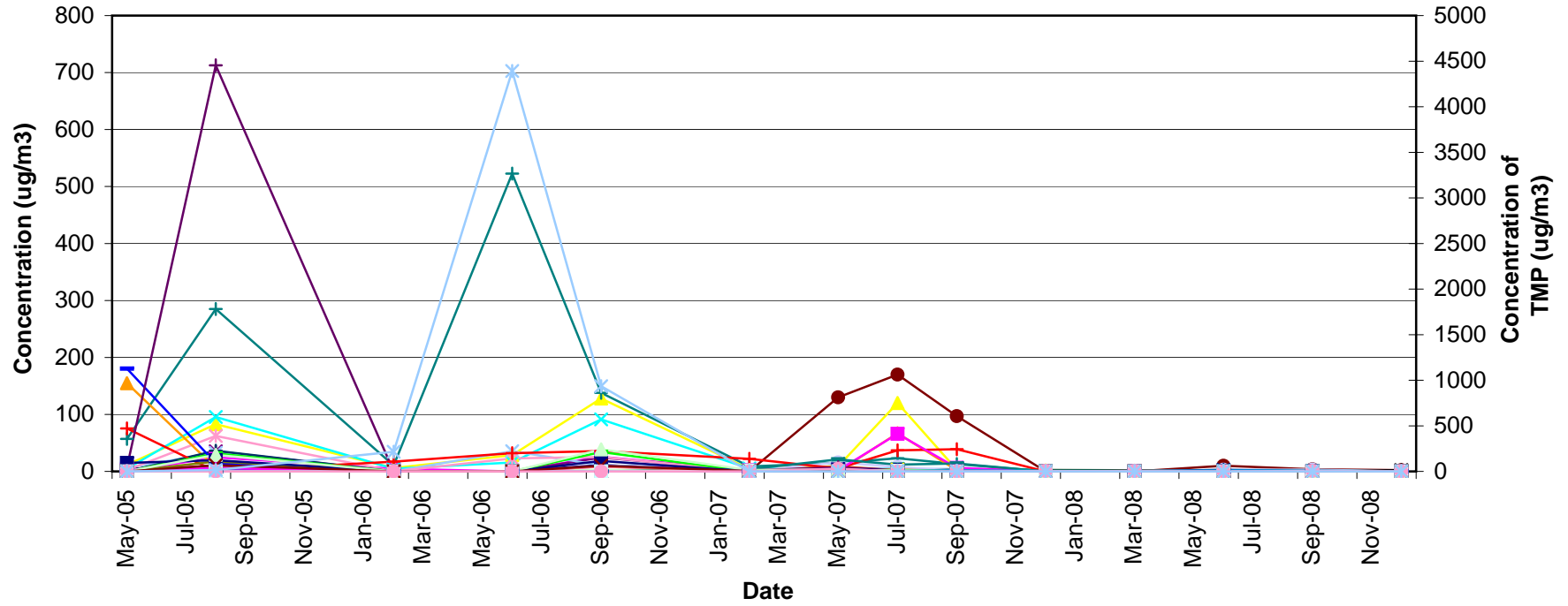
◆ Benzene	◆ Ethylbenzene	◆ Toluene	◆ Xylene, m,p-	◆ Xylene, o-
◆ Acetaldehyde	◆ Acetone	◆ Acrolein (propenal)	◆ Benzothiophene	◆ Bromodichloromethane
◆ Butadiene, 1,3-	◆ Butane	◆ Butanone,2-	◆ Carbon disulfide	◆ Carbon tetrachloride
◆ Chlorobenzene	◆ Chloroethane	◆ Chloroform	◆ Chloromethane	◆ Cryofluorane
◆ 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-	◆ Undecane, n-	◆ Trimethylbenzene,1,3,5-	◆ Trimethylpentane, 2,2,4-	



Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG07 BTEX**

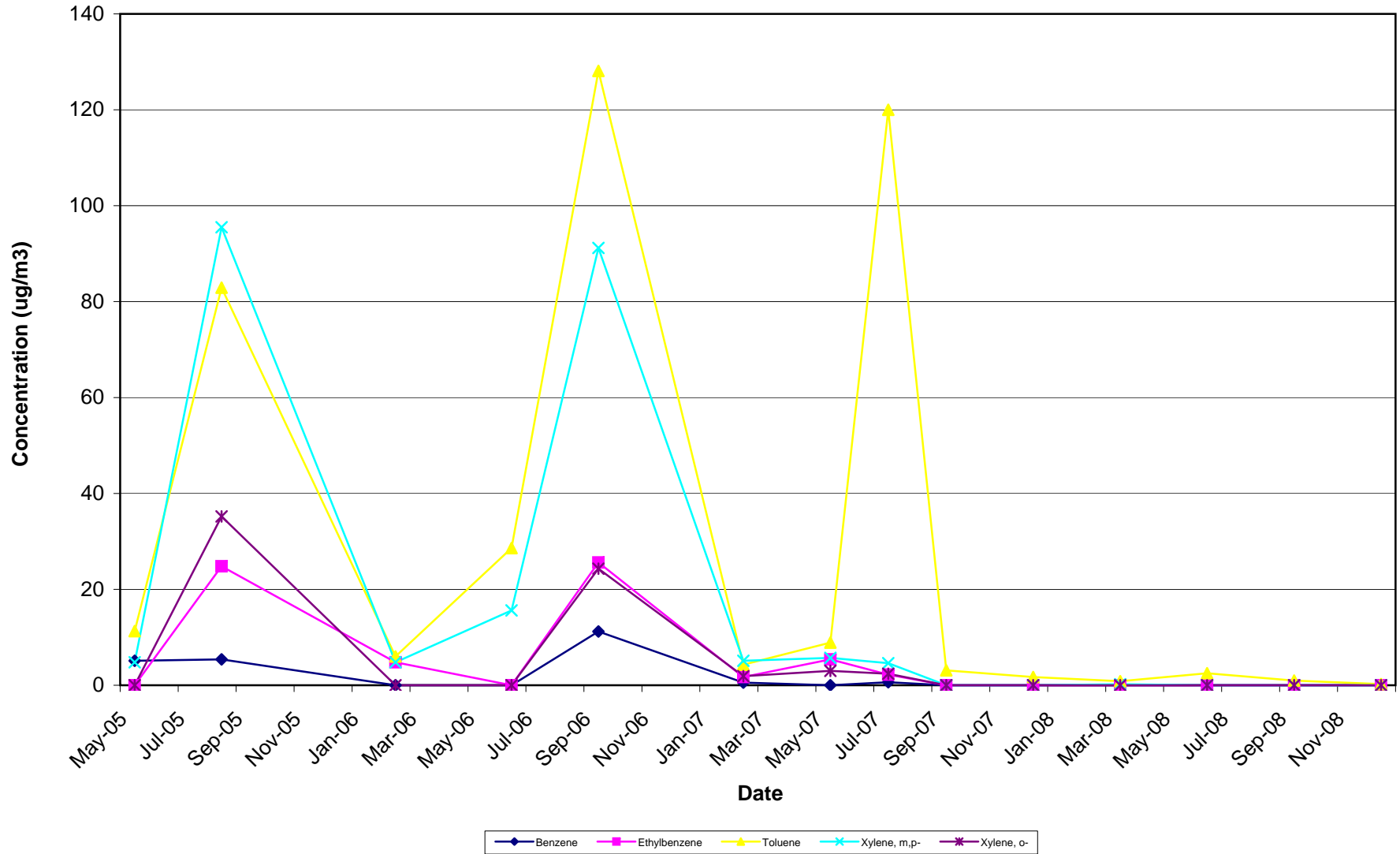


Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG08**

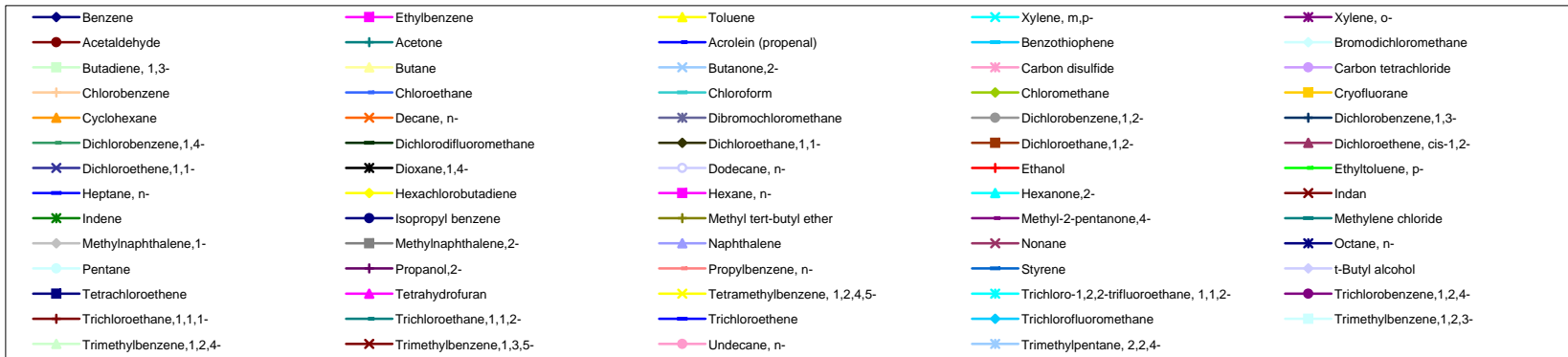
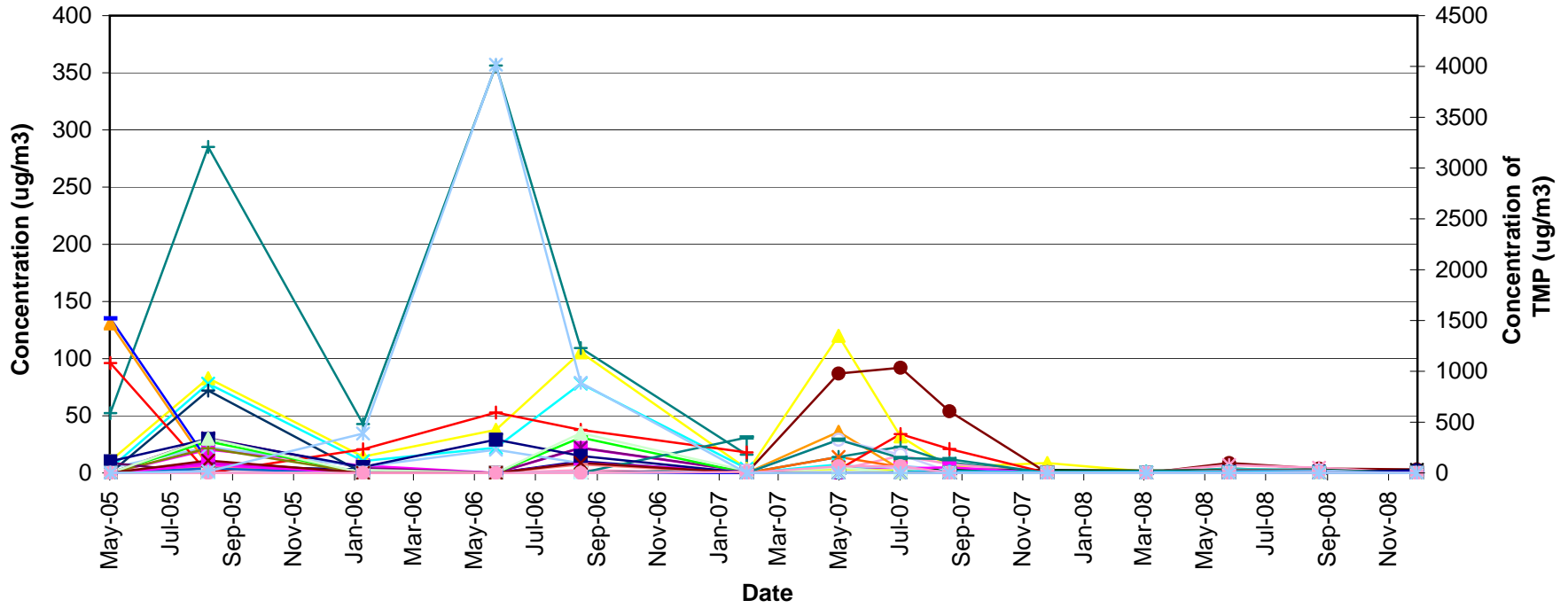


◆ Benzene	◆ Ethylbenzene	◆ Toluene	◆ Xylene, m,p-	◆ Xylene, o-
◆ Acetaldehyde	◆ Acetone	◆ Acrolein (propenal)	◆ Benzothiophene	◆ Bromodichloromethane
◆ Butadiene, 1,3-	◆ Butane	◆ Butanone, 2-	◆ Carbon disulfide	◆ Carbon tetrachloride
◆ Chlorobenzene	◆ Chloroethane	◆ Chloroform	◆ Chloromethane	◆ Cryofluorane
◆ 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-	◆ Undecane, n-	◆ Trimethylpentane, 2,2,4-	

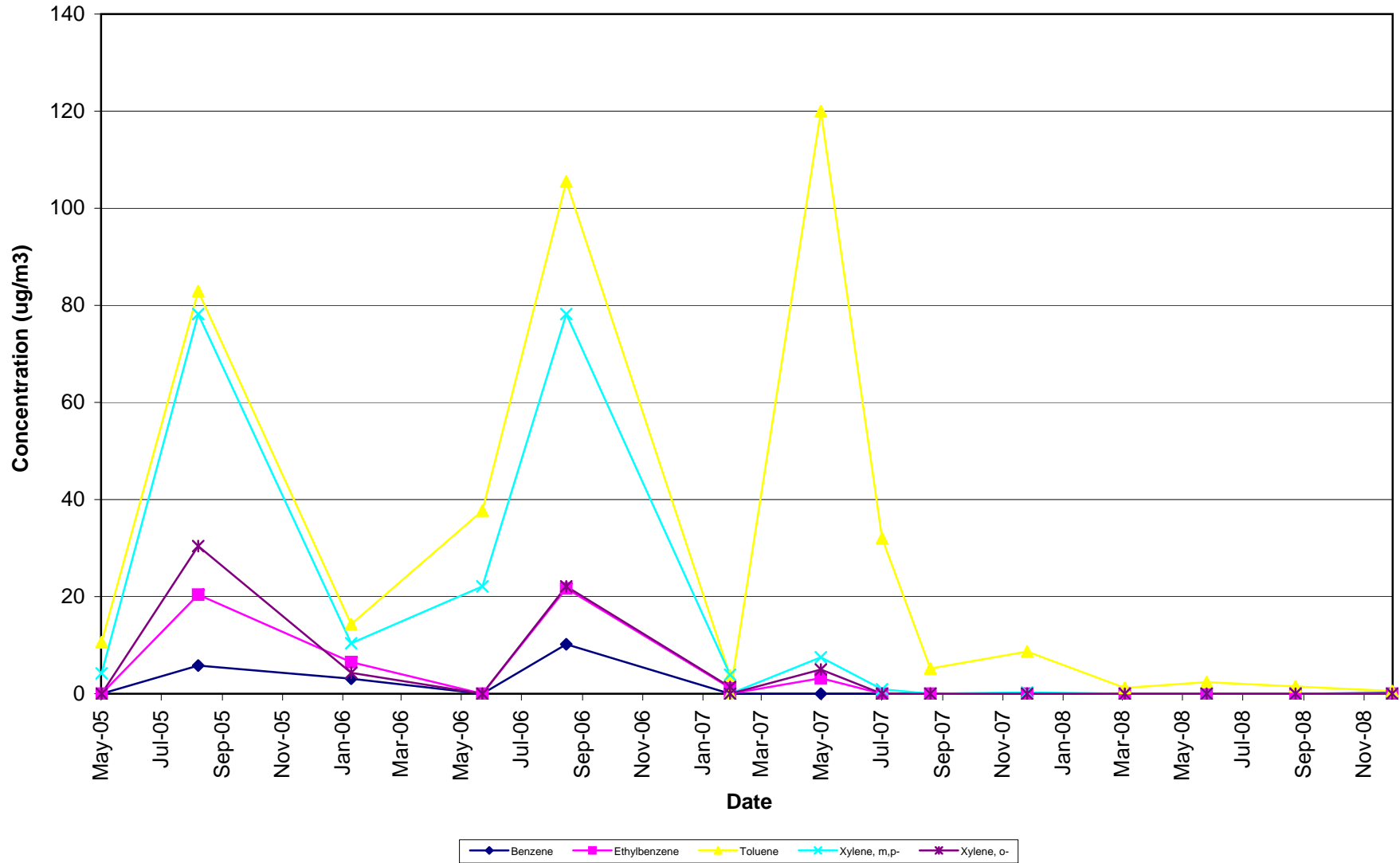
Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG08 BTEX**



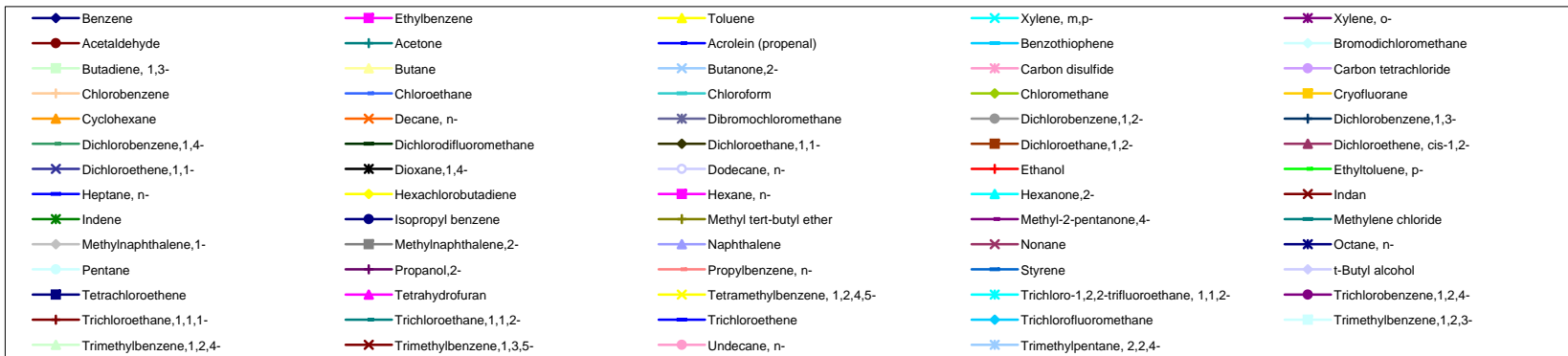
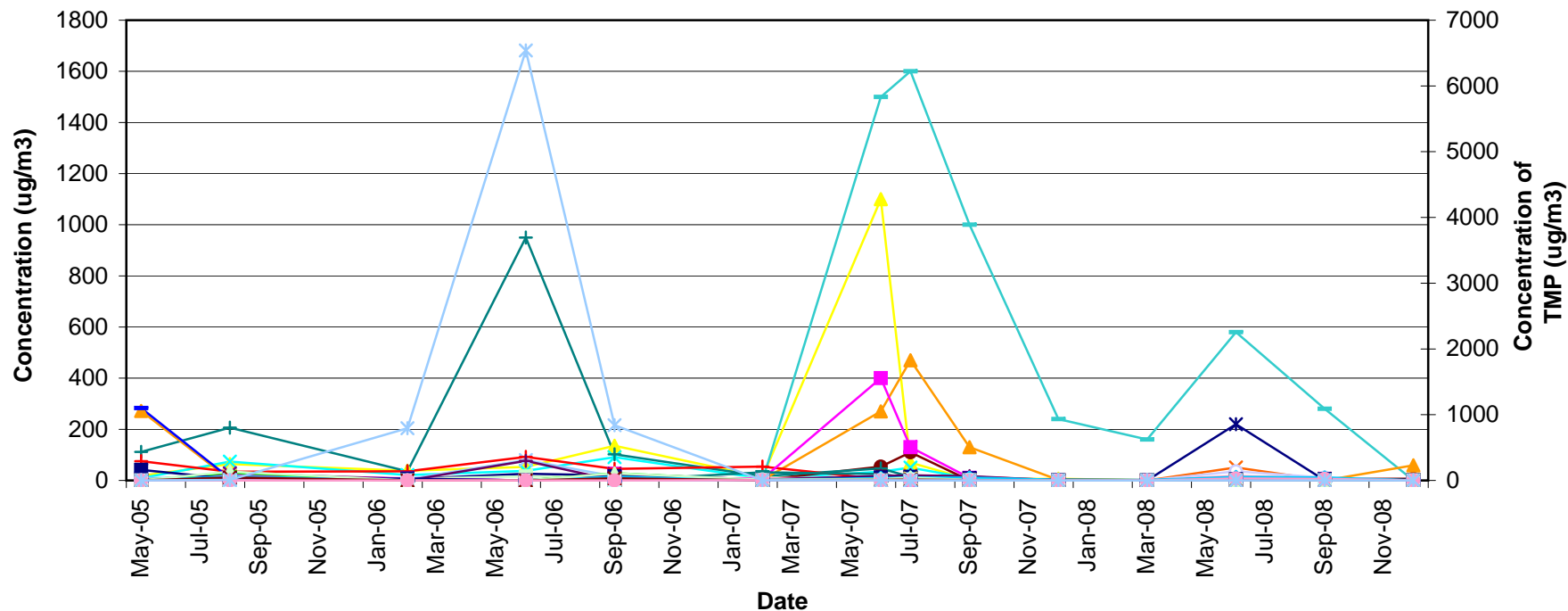
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG09**



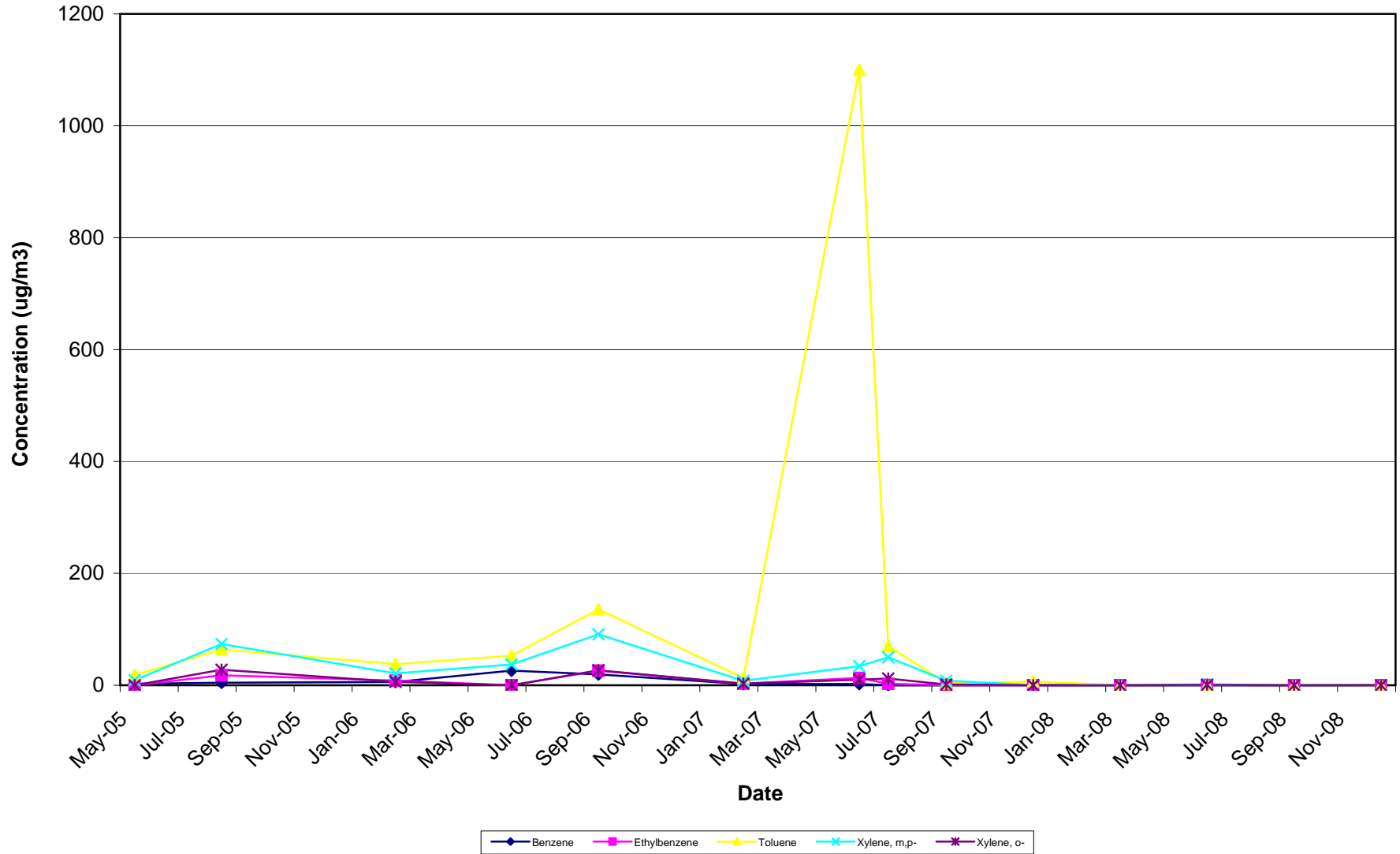
Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG09 BTEX**



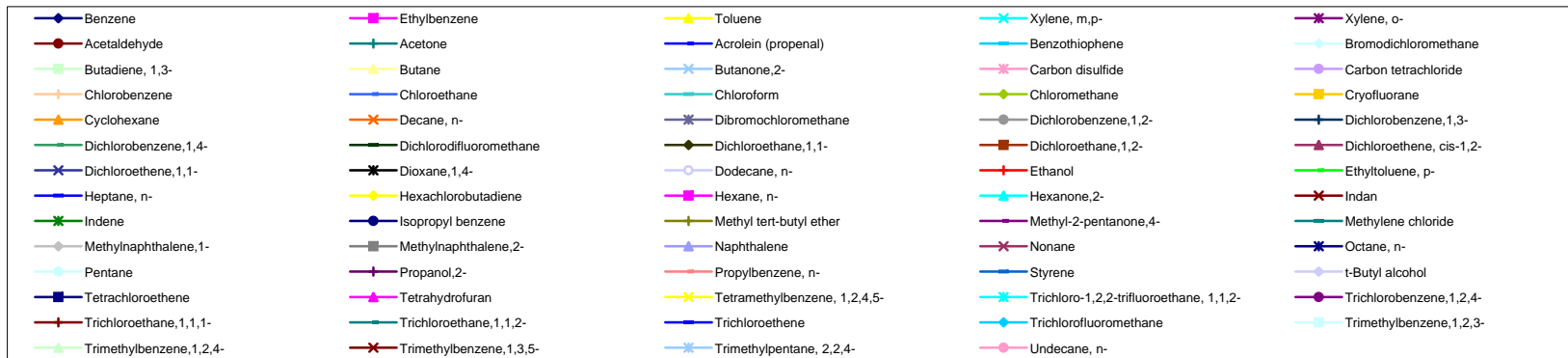
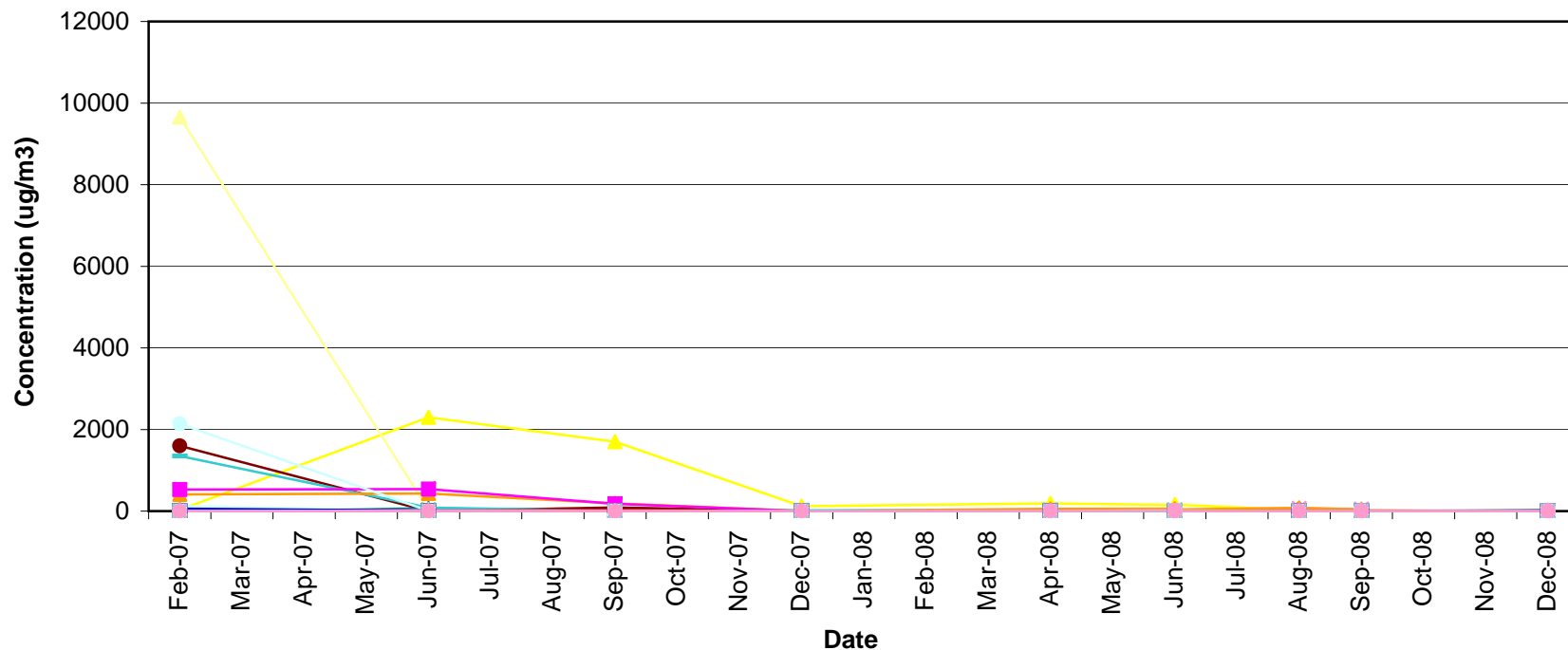
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG10**



Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG10 BTEX**

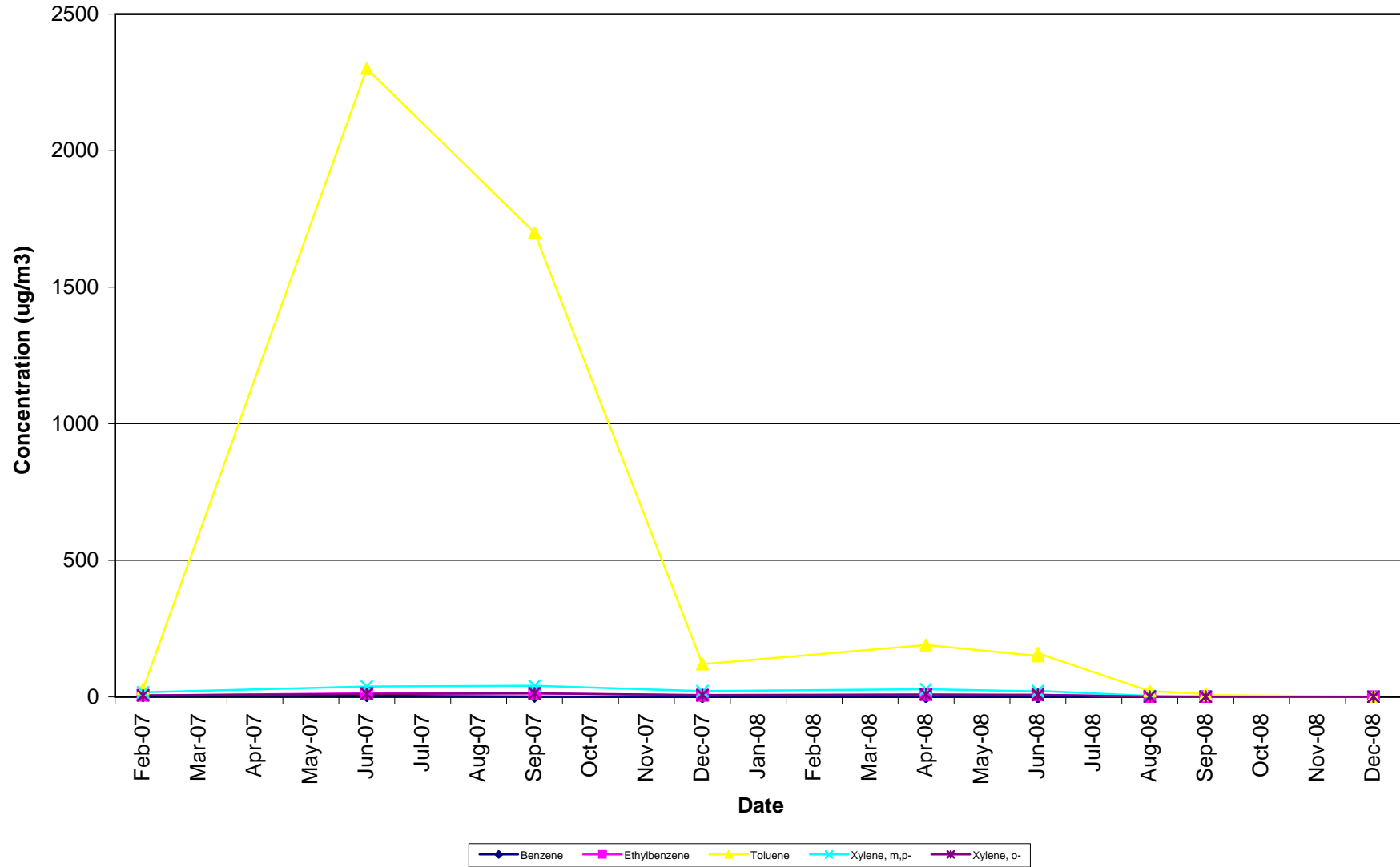


Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG11**

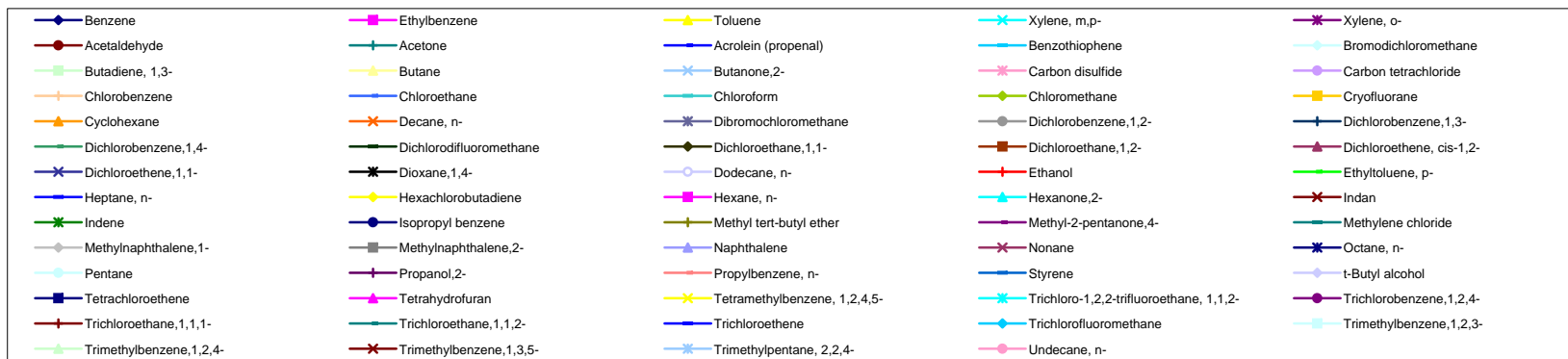
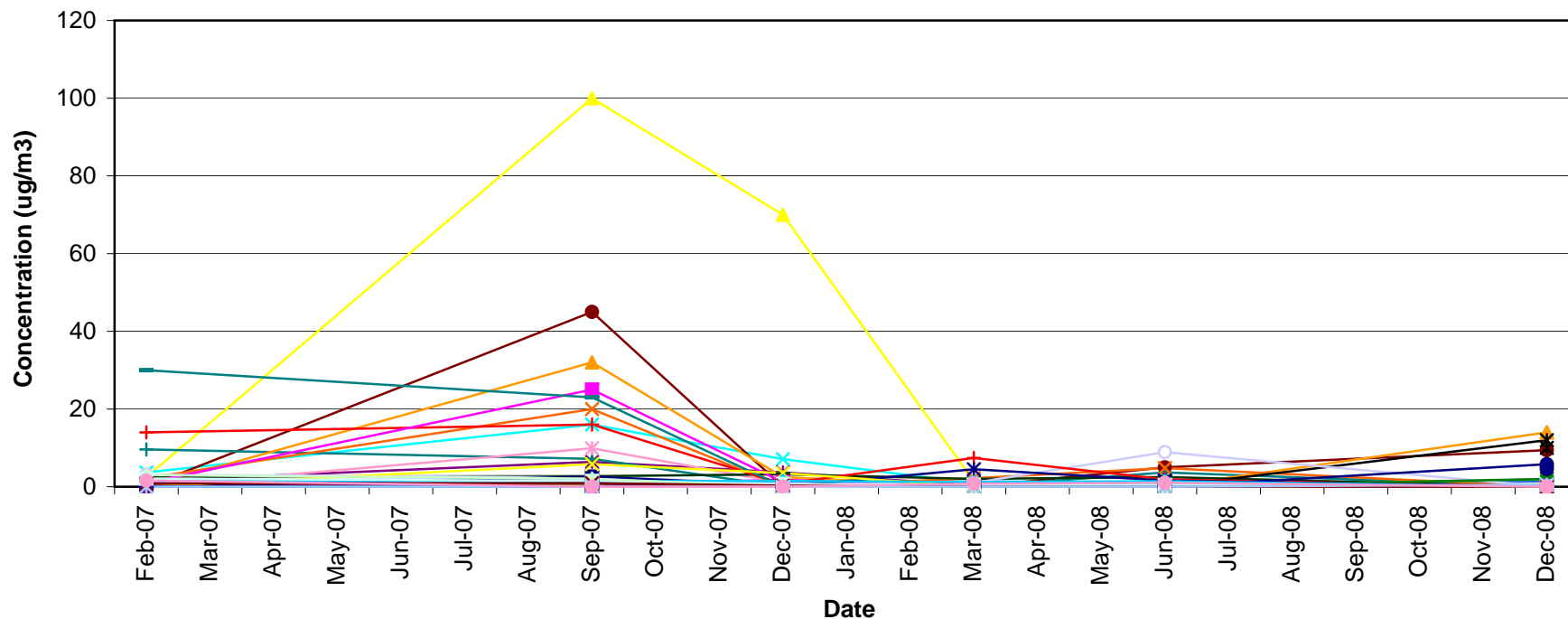




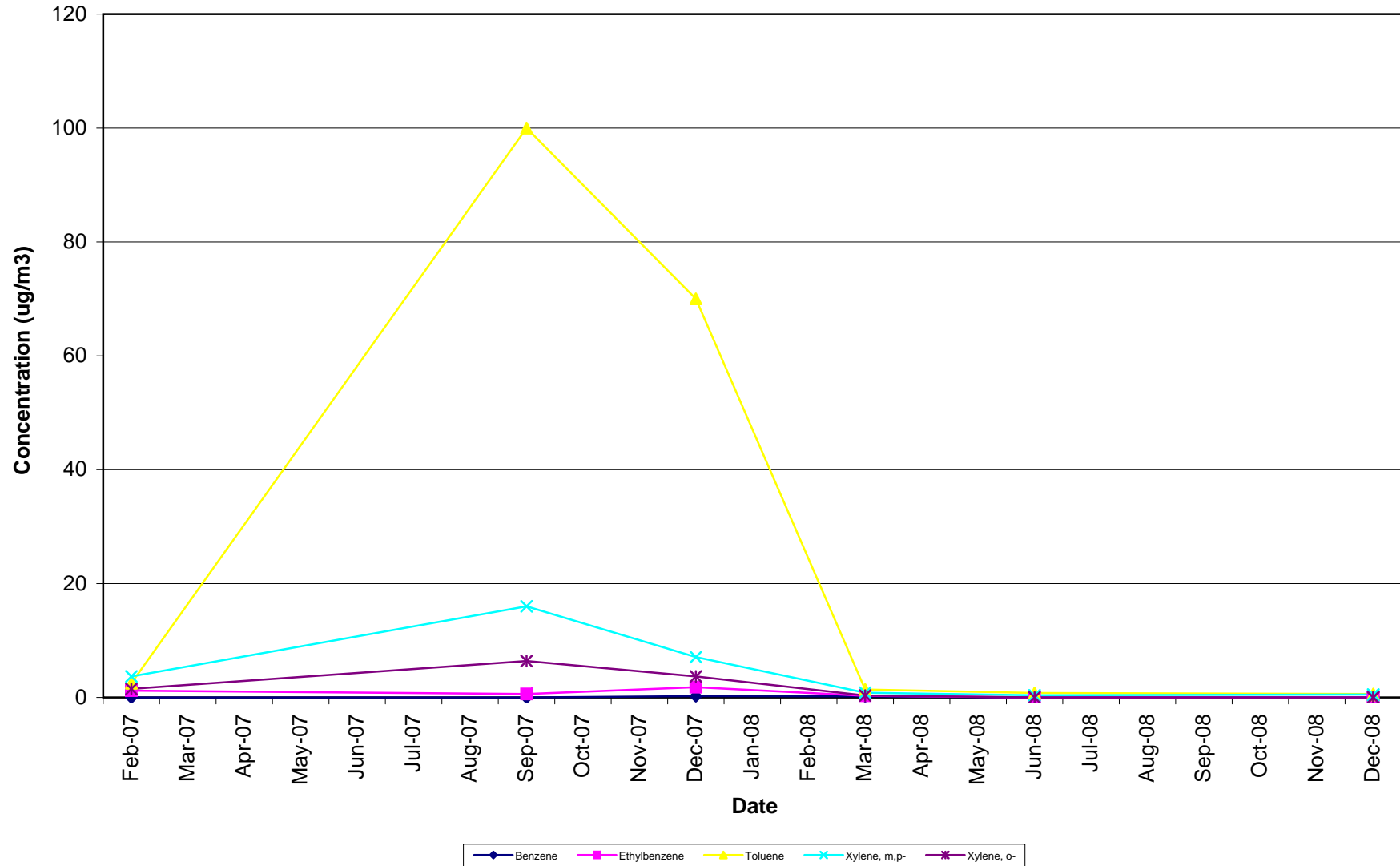
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG11 BTEX**



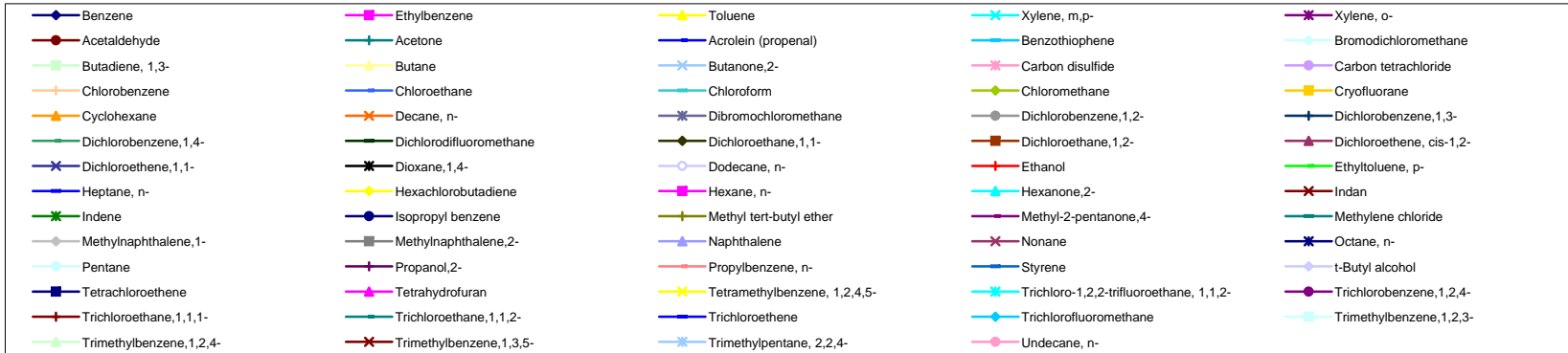
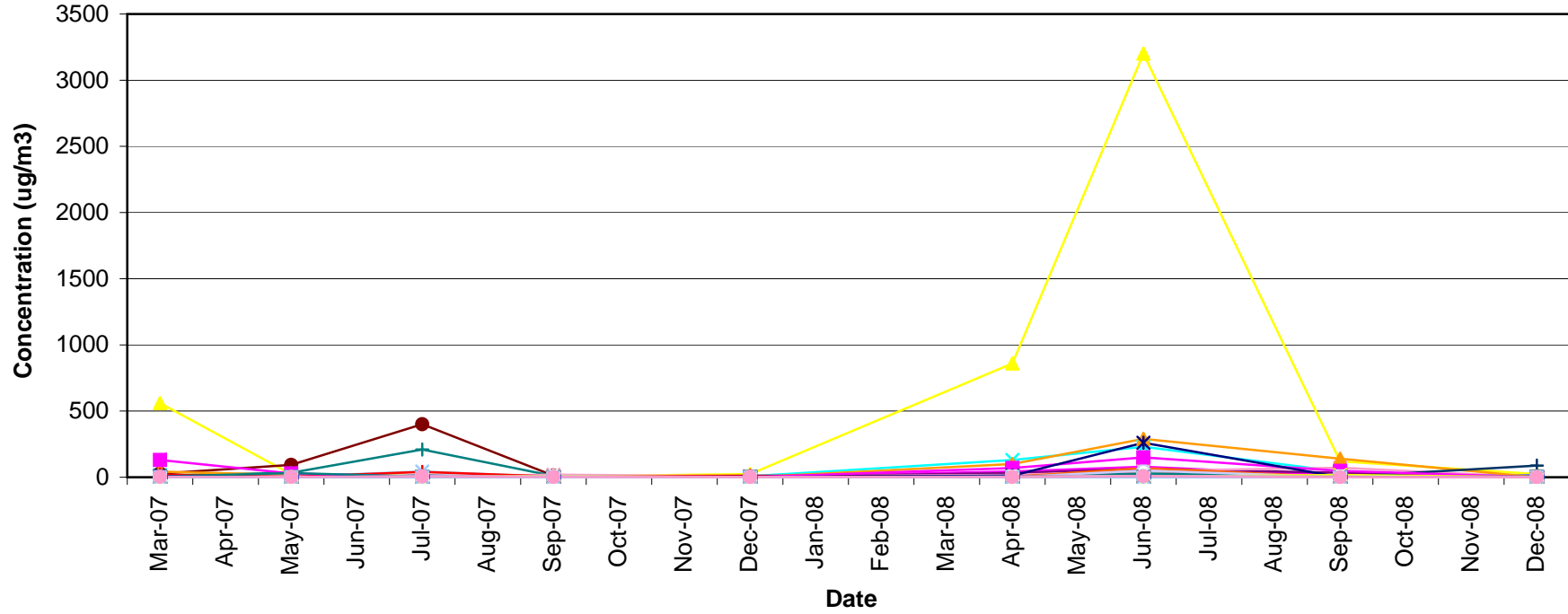
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG12**



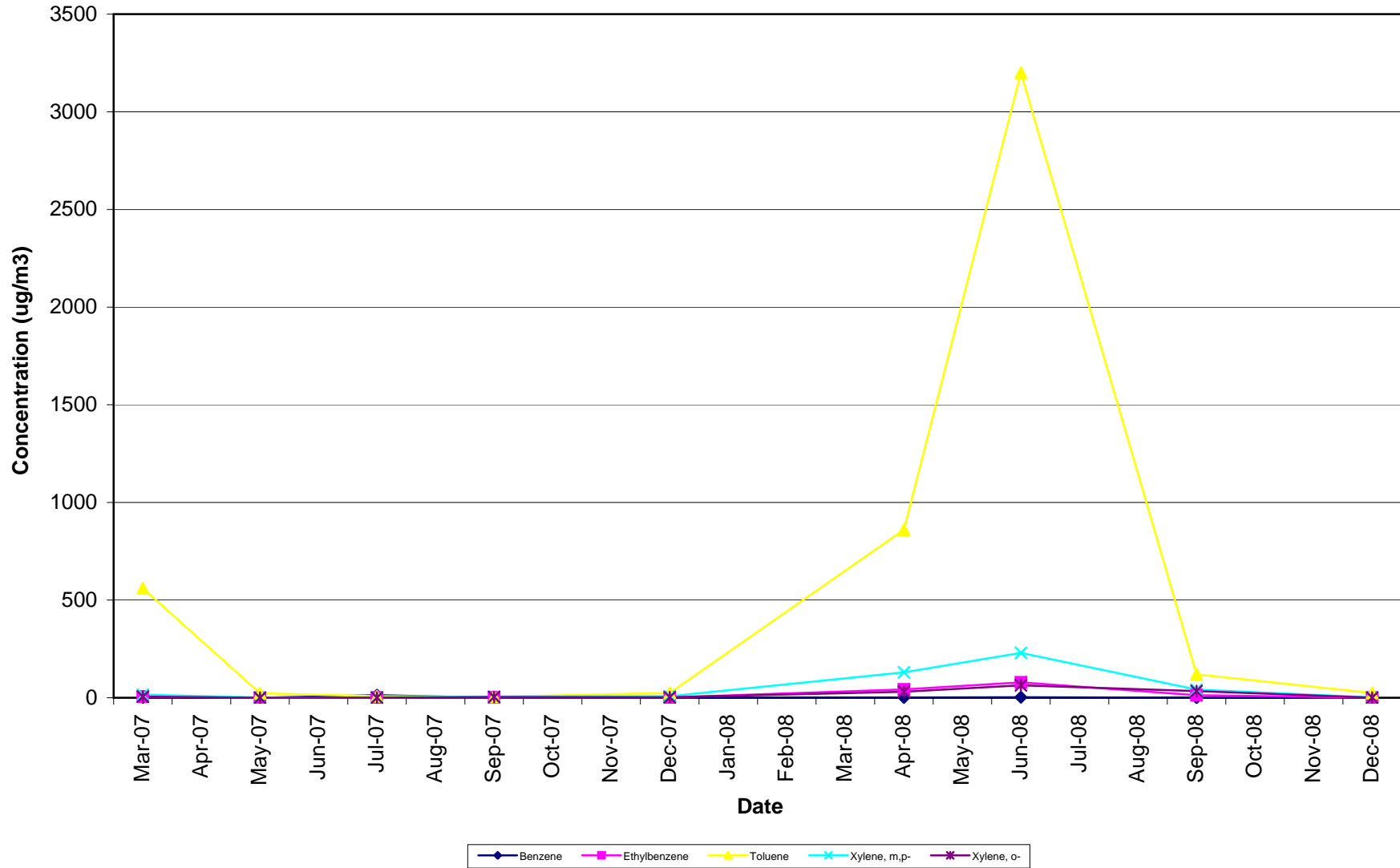
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG12 BTEX**



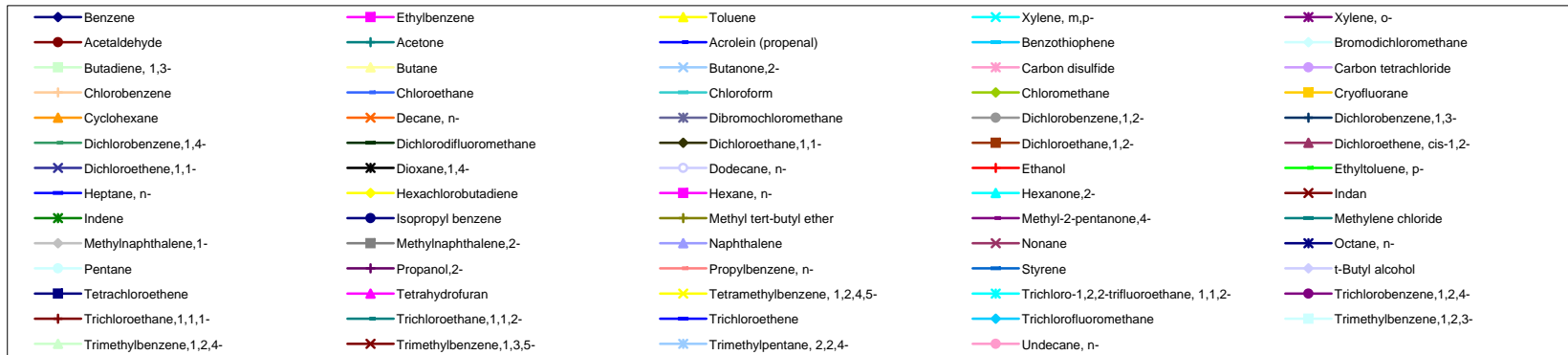
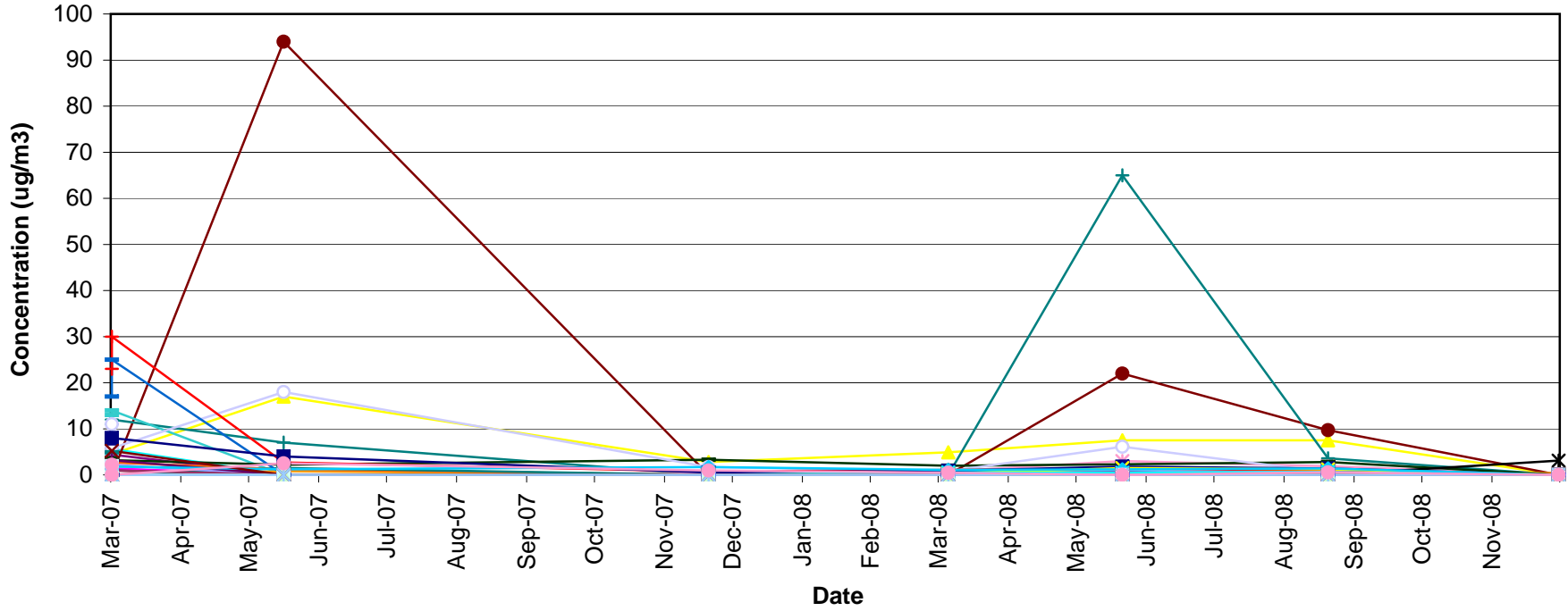
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG13**



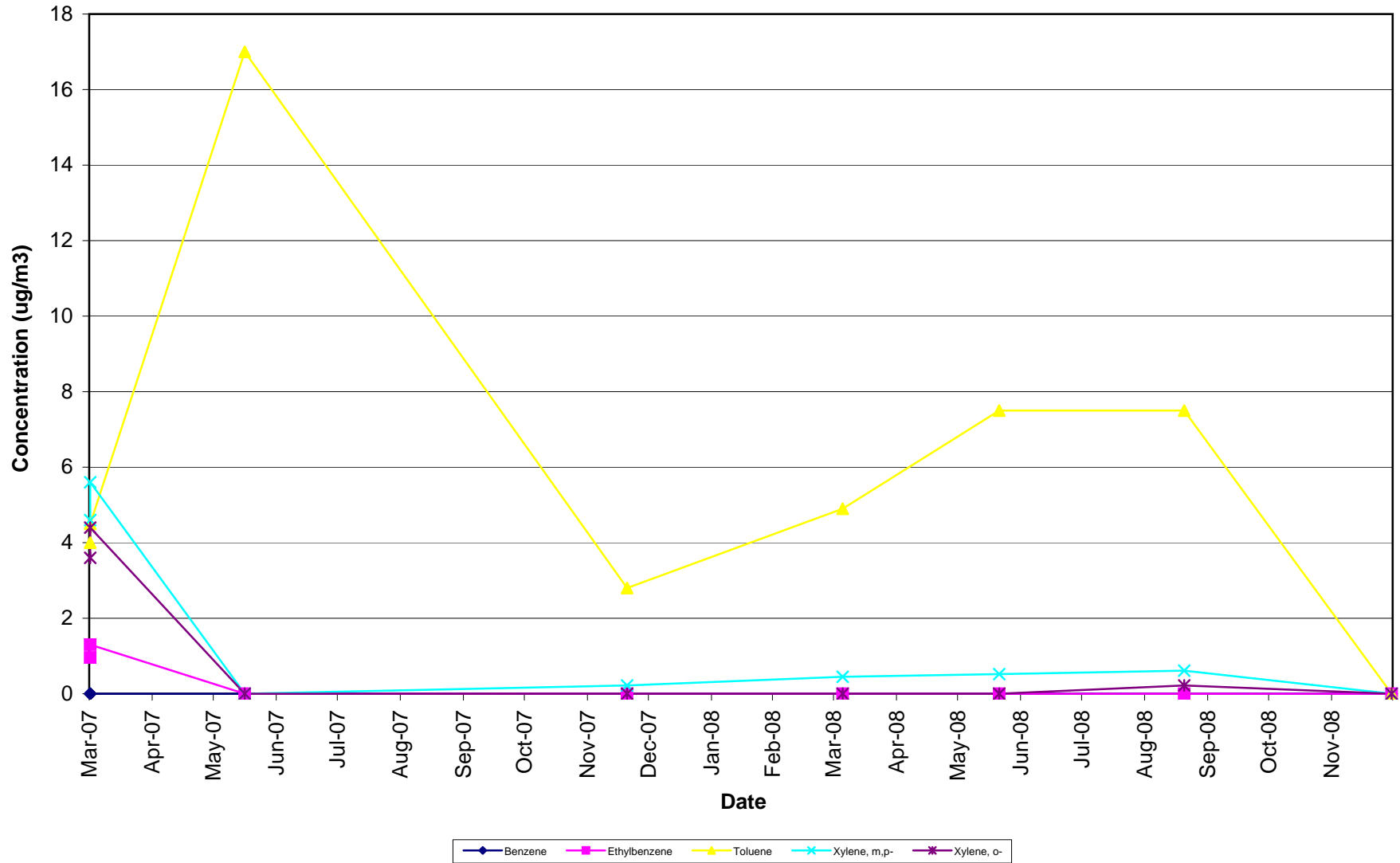
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG13 BTEX**



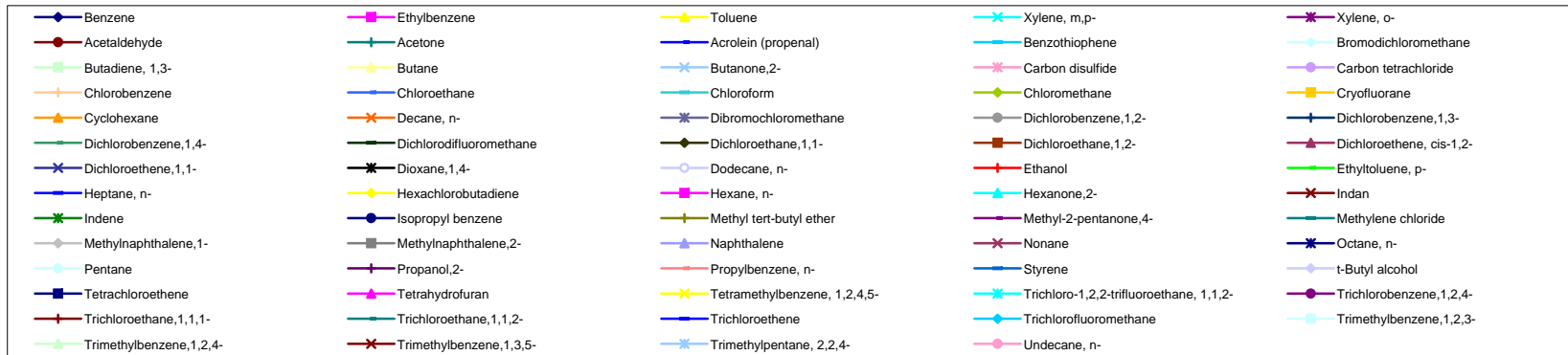
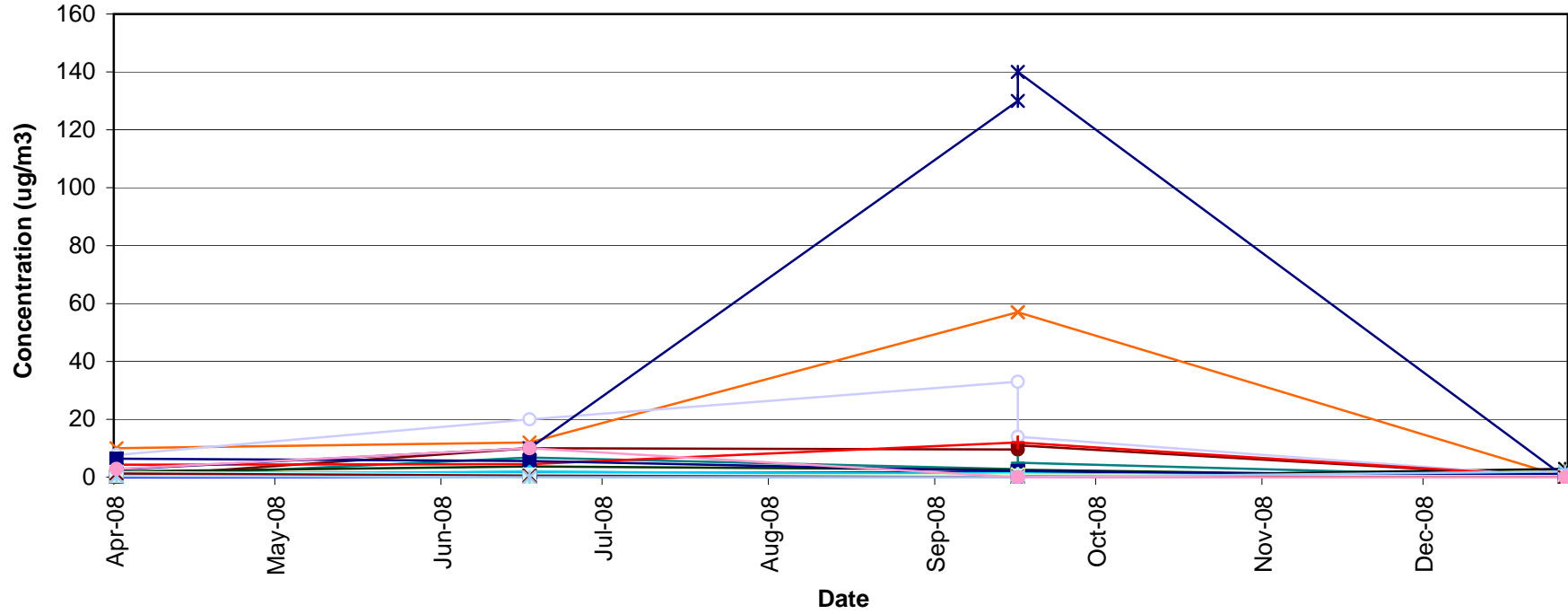
Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG14**



Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG14 BTEX**

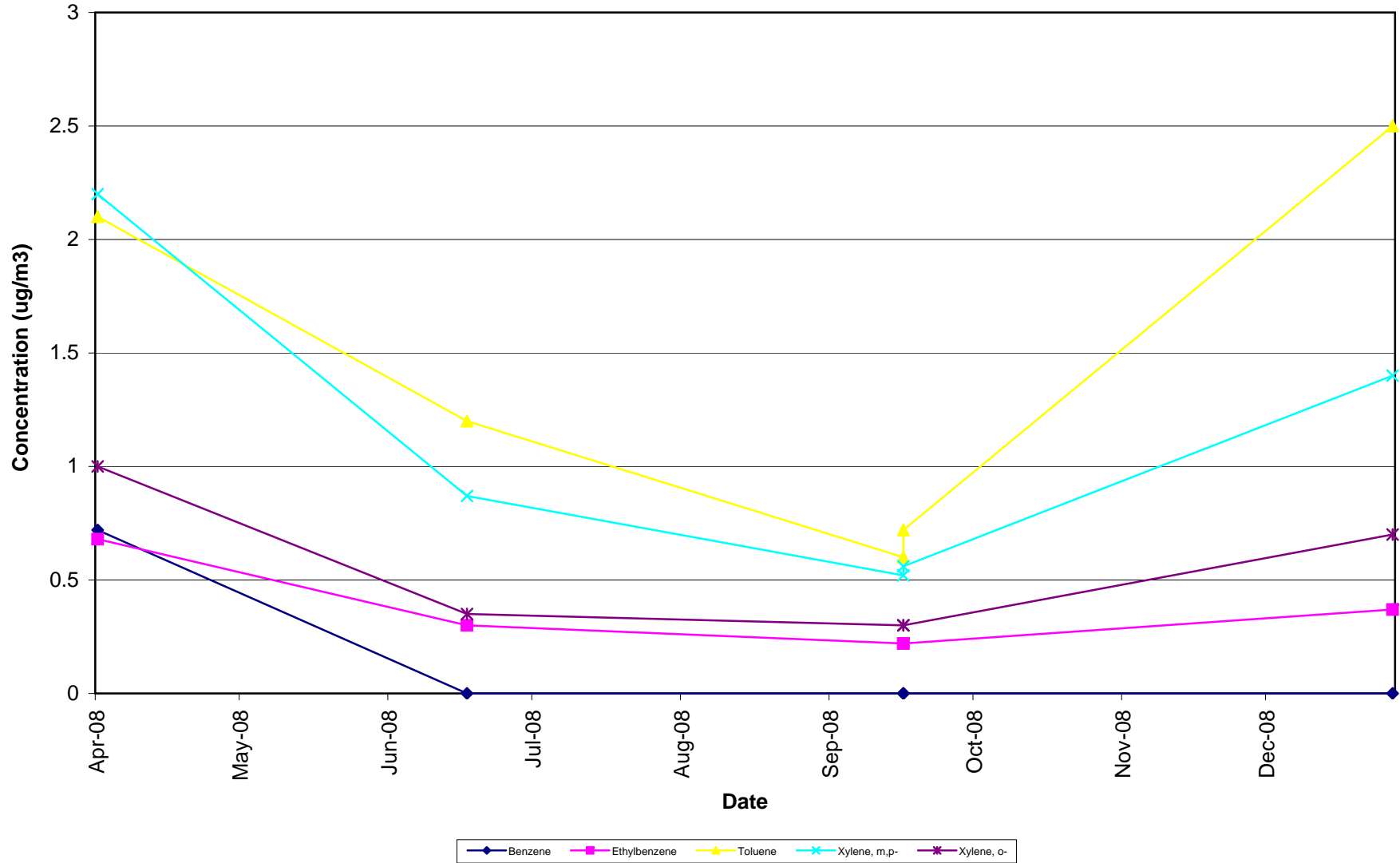


Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG15**

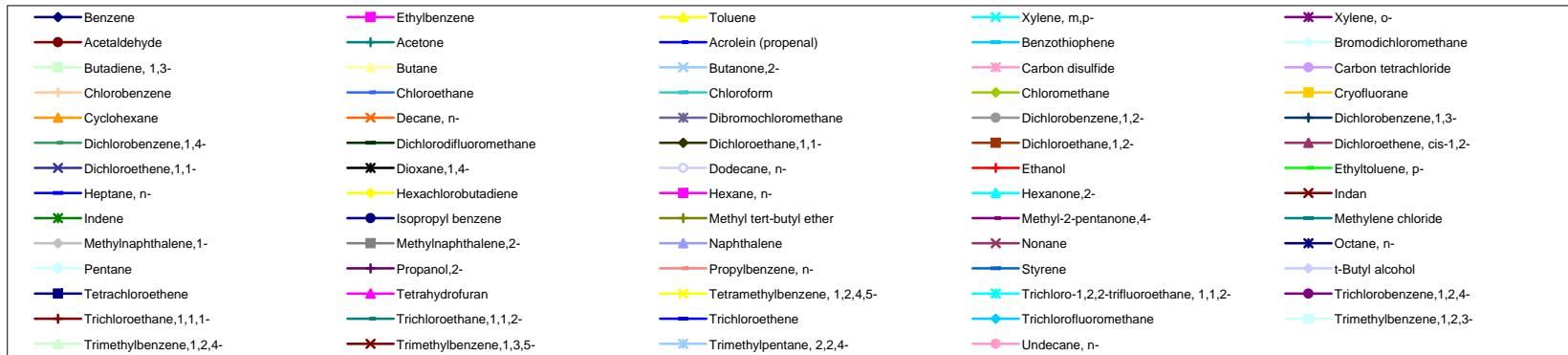
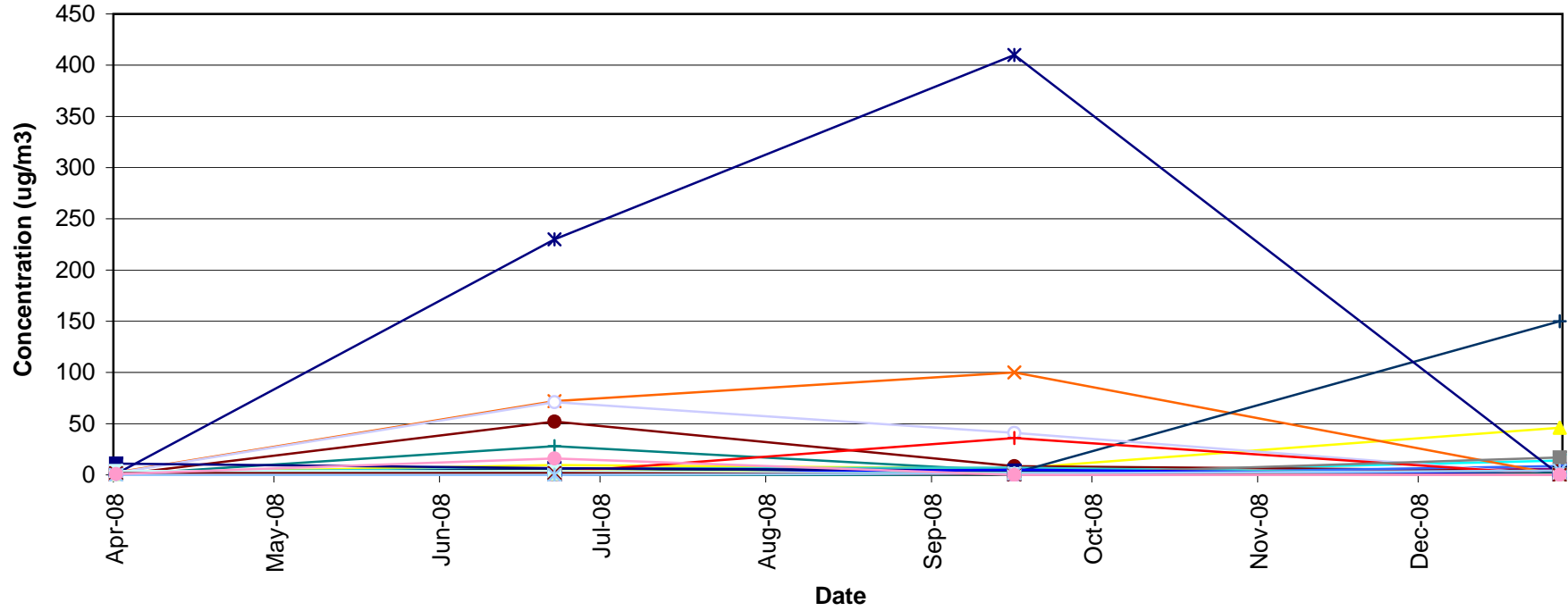




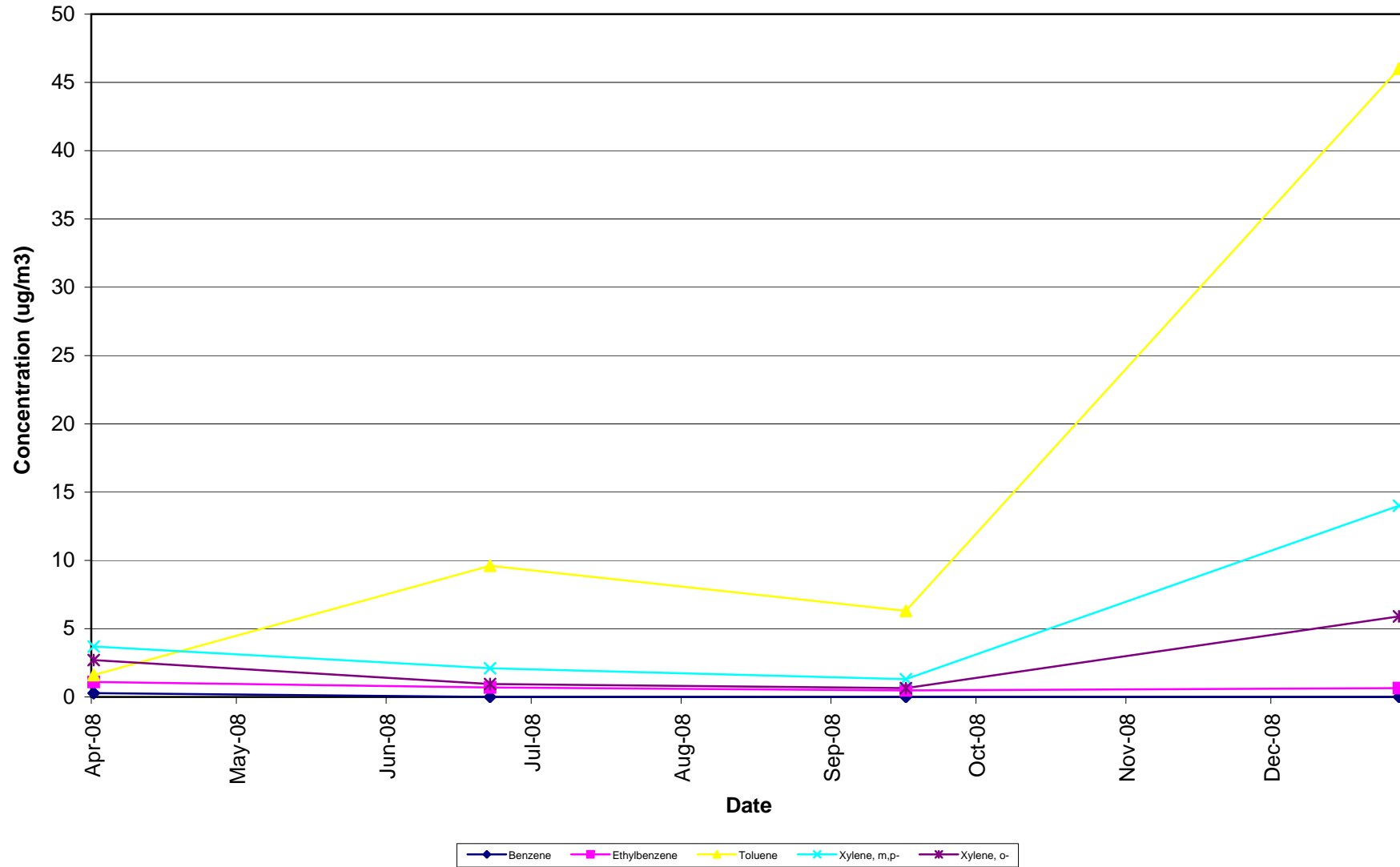
Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG15 BTEX**



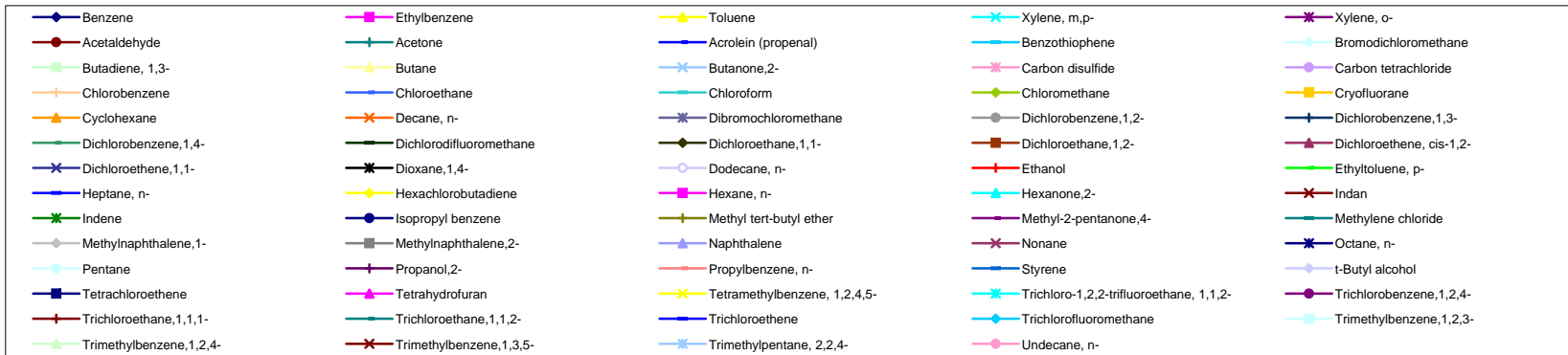
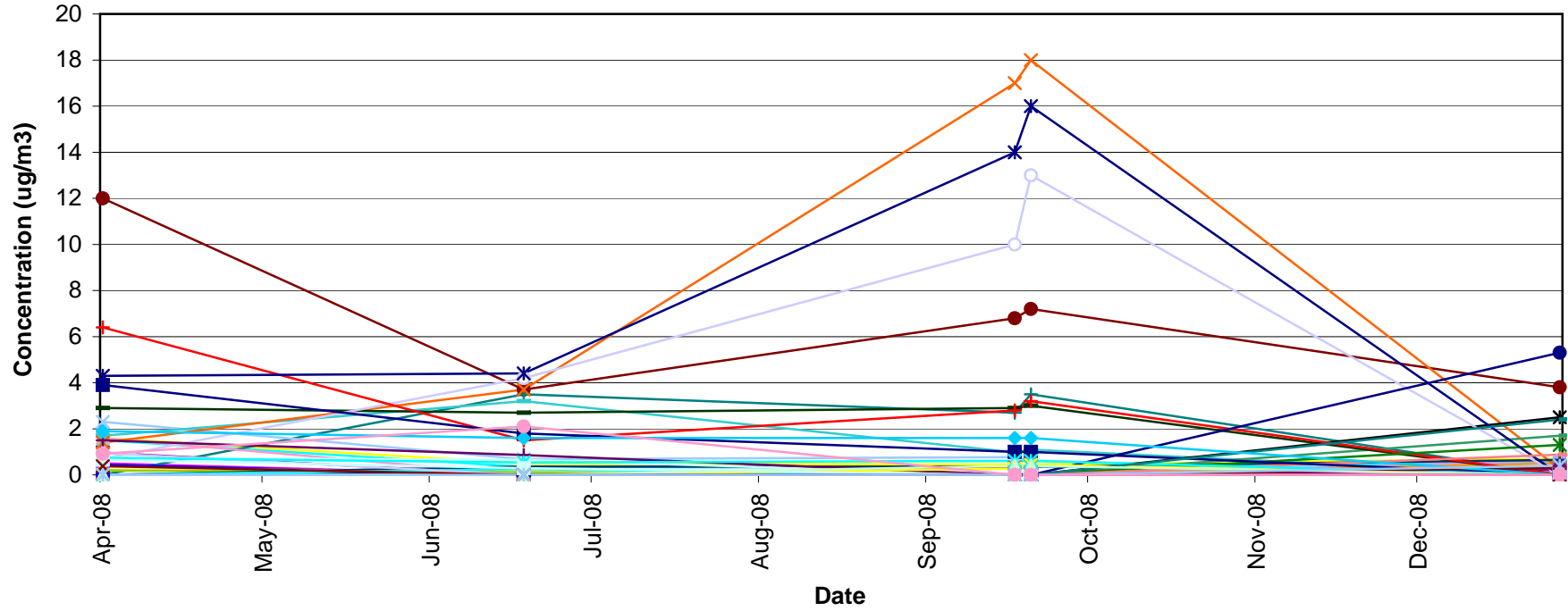
Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG16**



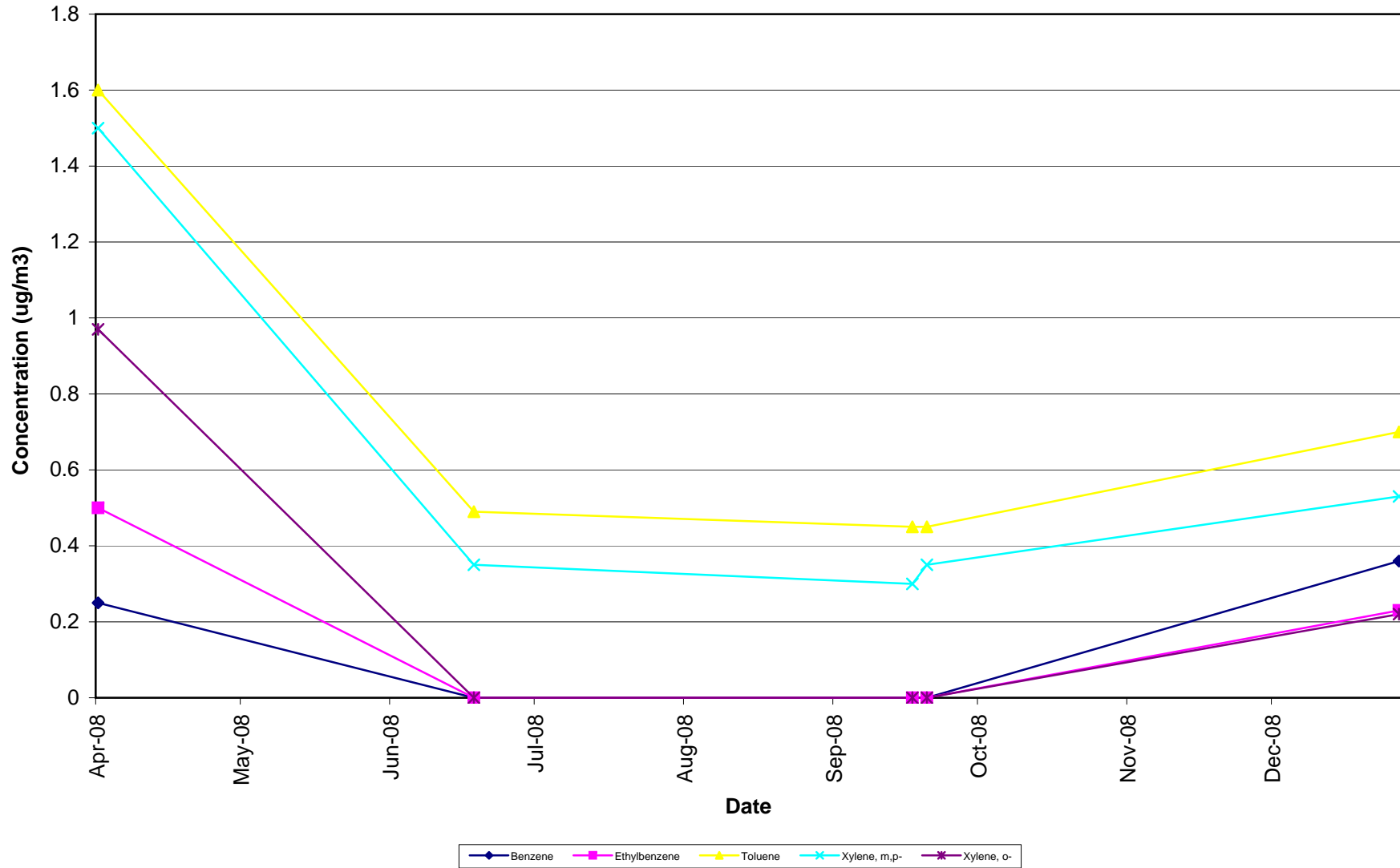
Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG16 BTEX**



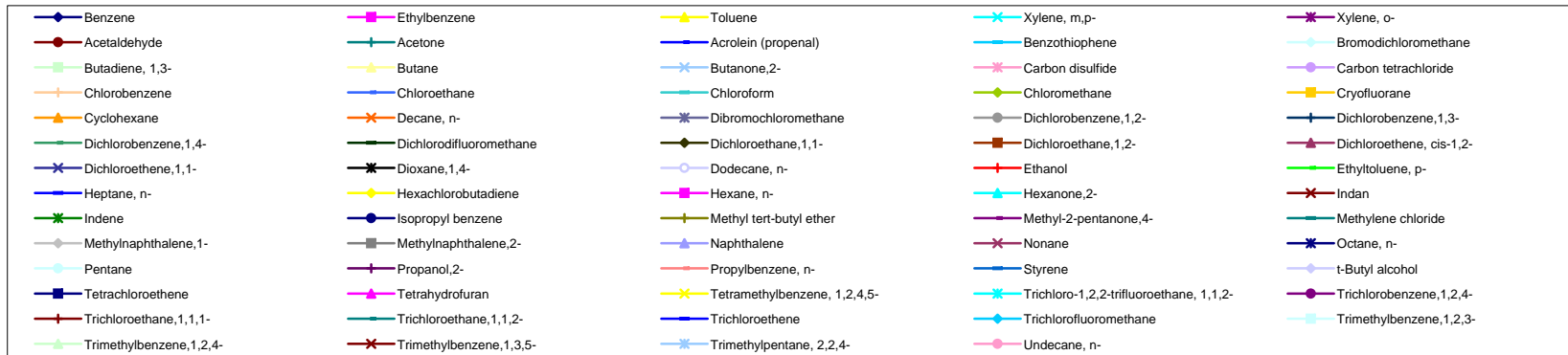
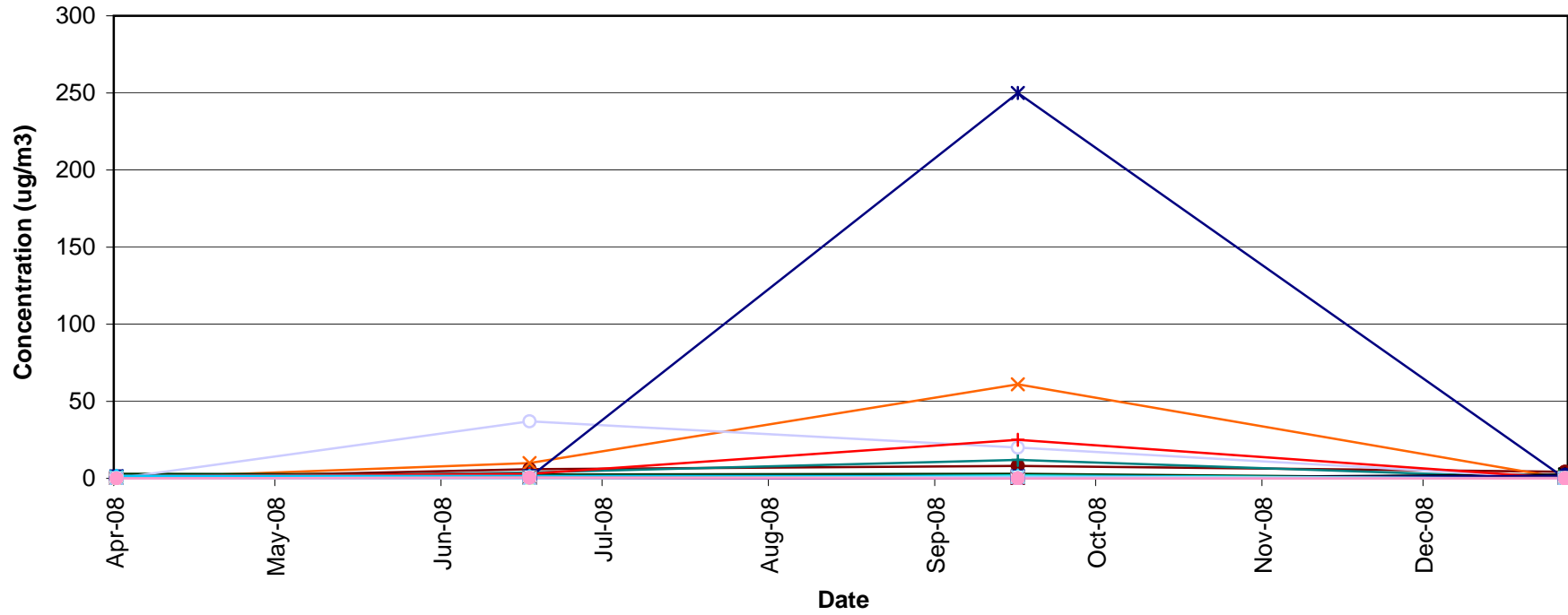
Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG17**



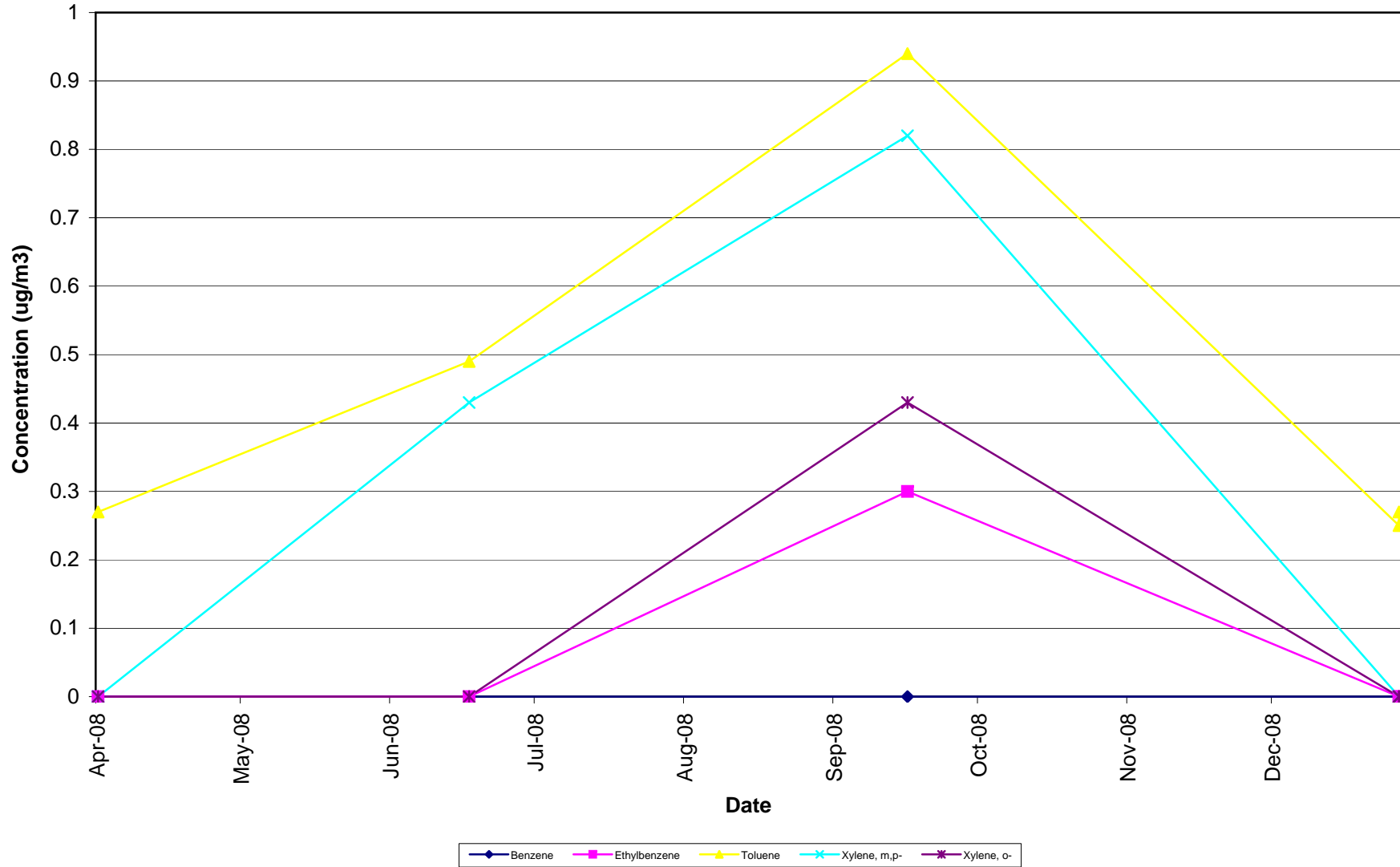
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG17 BTEX**



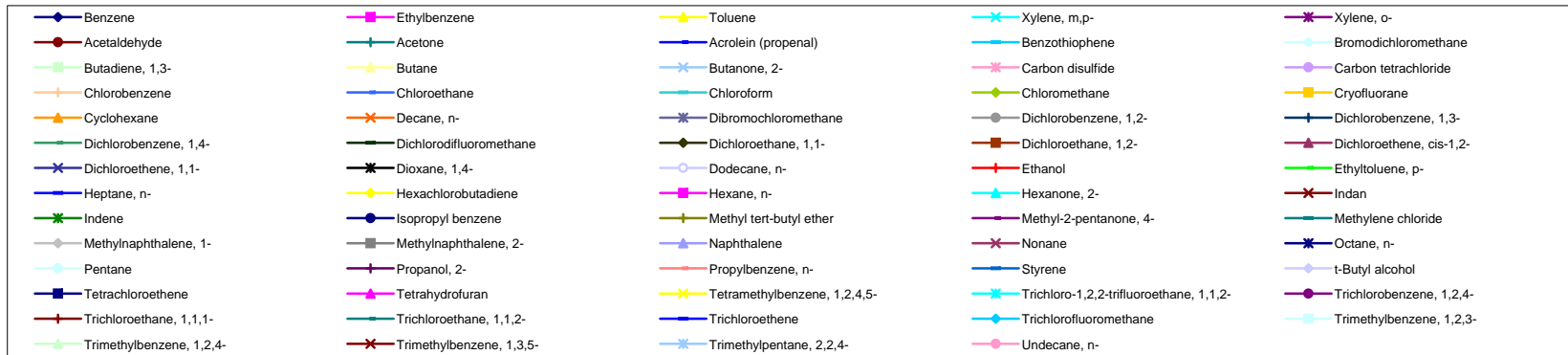
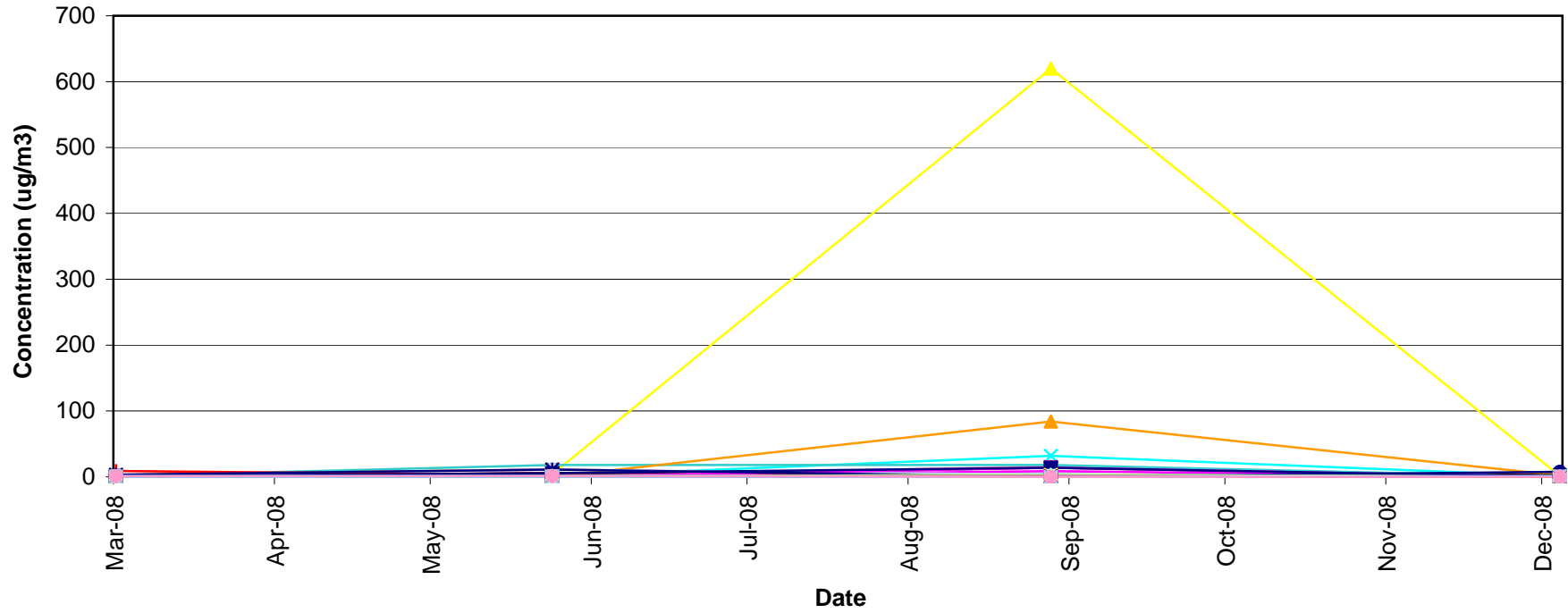
Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG18**



Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG18 BTEX**

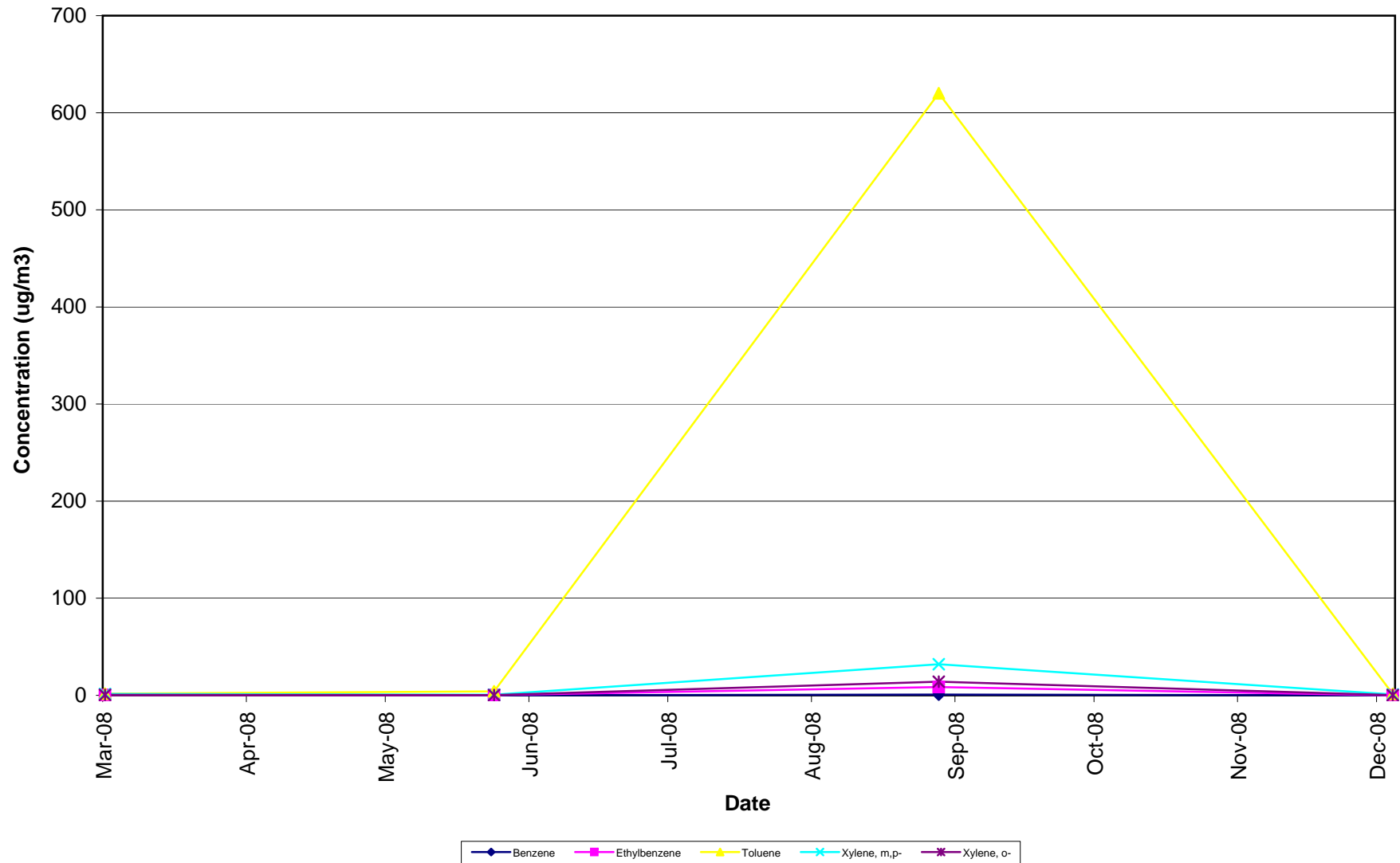


Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG22**

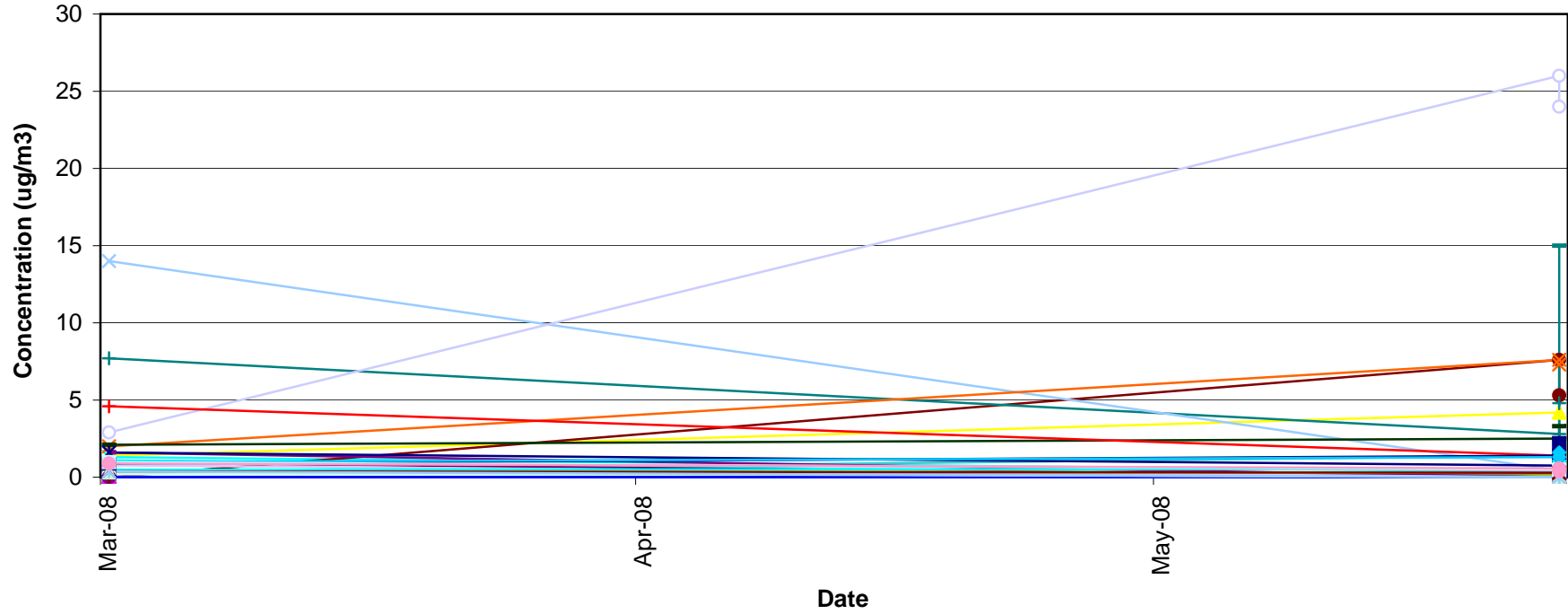




Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG22 BTEX**

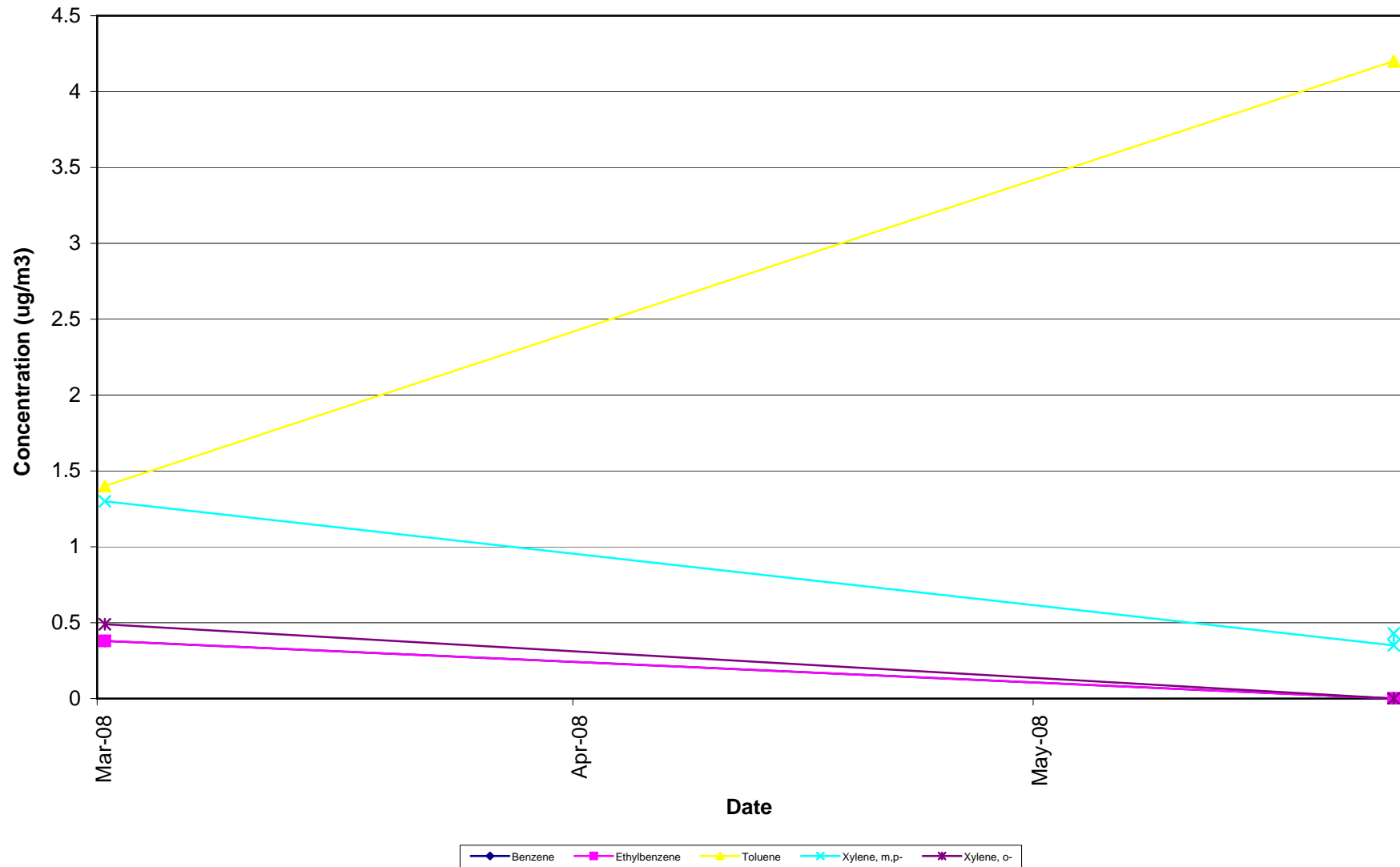


Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG23**

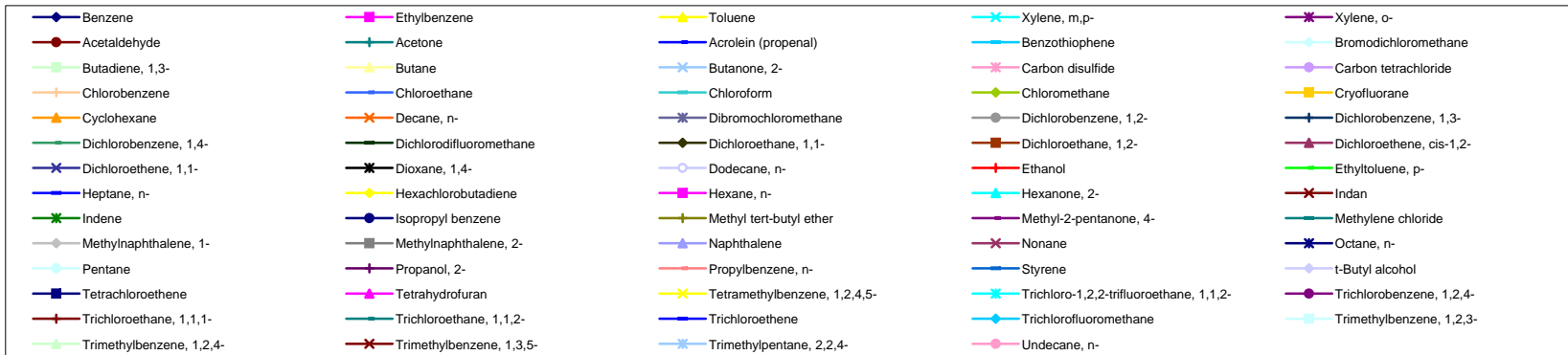
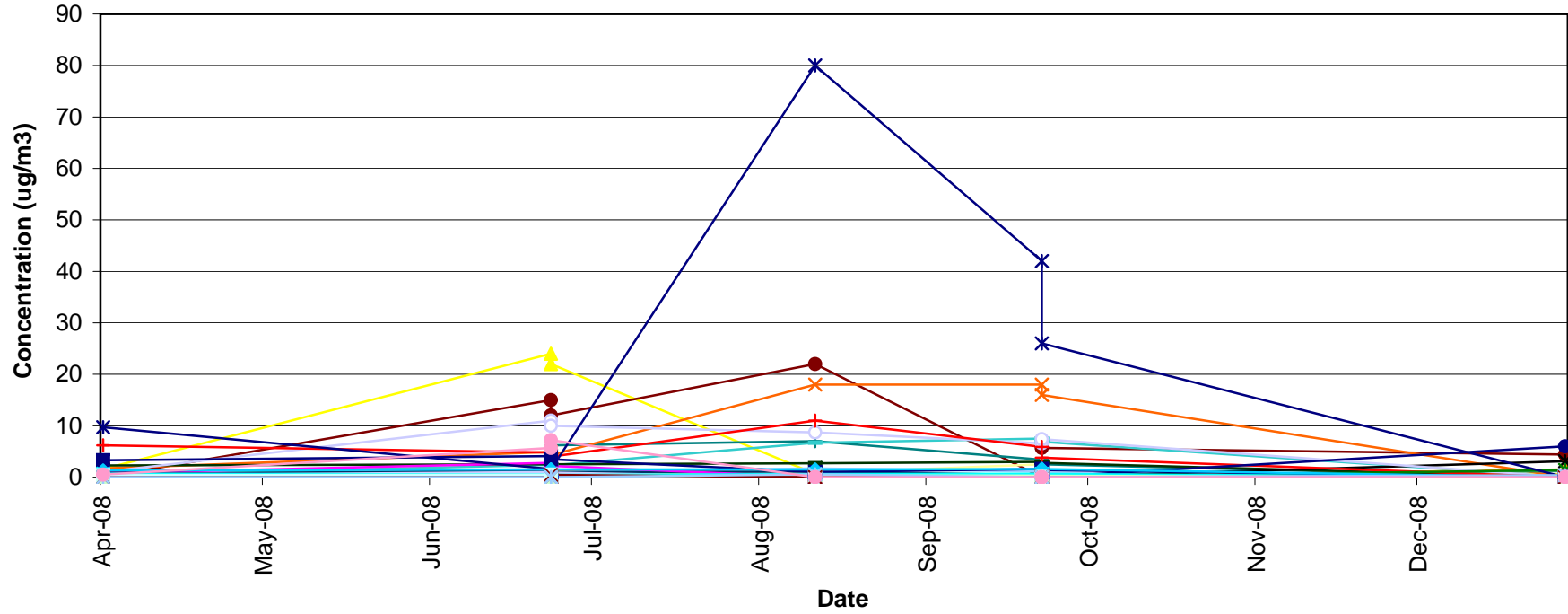


- |                          |                          |                              |   |                          |
|--------------------------|--------------------------|------------------------------|---|--------------------------|
| Benzene                  | Ethylbenzene             | Toluene                      | 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,- | Trichloroethane              | Trichlorofluoromethane                  | Trimethylbenzene, 1,2,3- |
| Trimethylbenzene, 1,2,4- | Trimethylbenzene, 1,3,5- | Trimethylpentane, 2,2,4-     | Undecane, n-                            |                          |

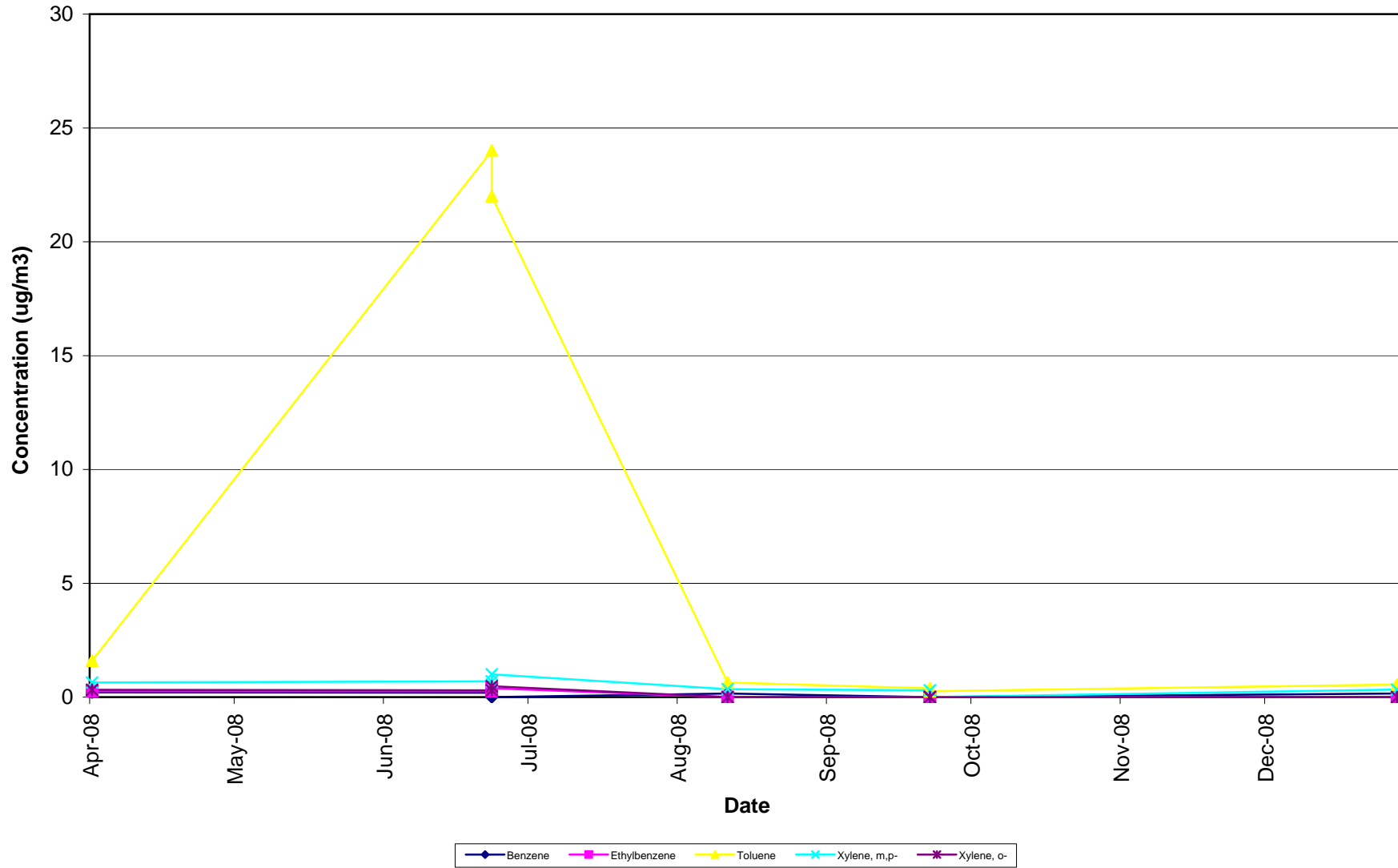
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG23 BTEX**



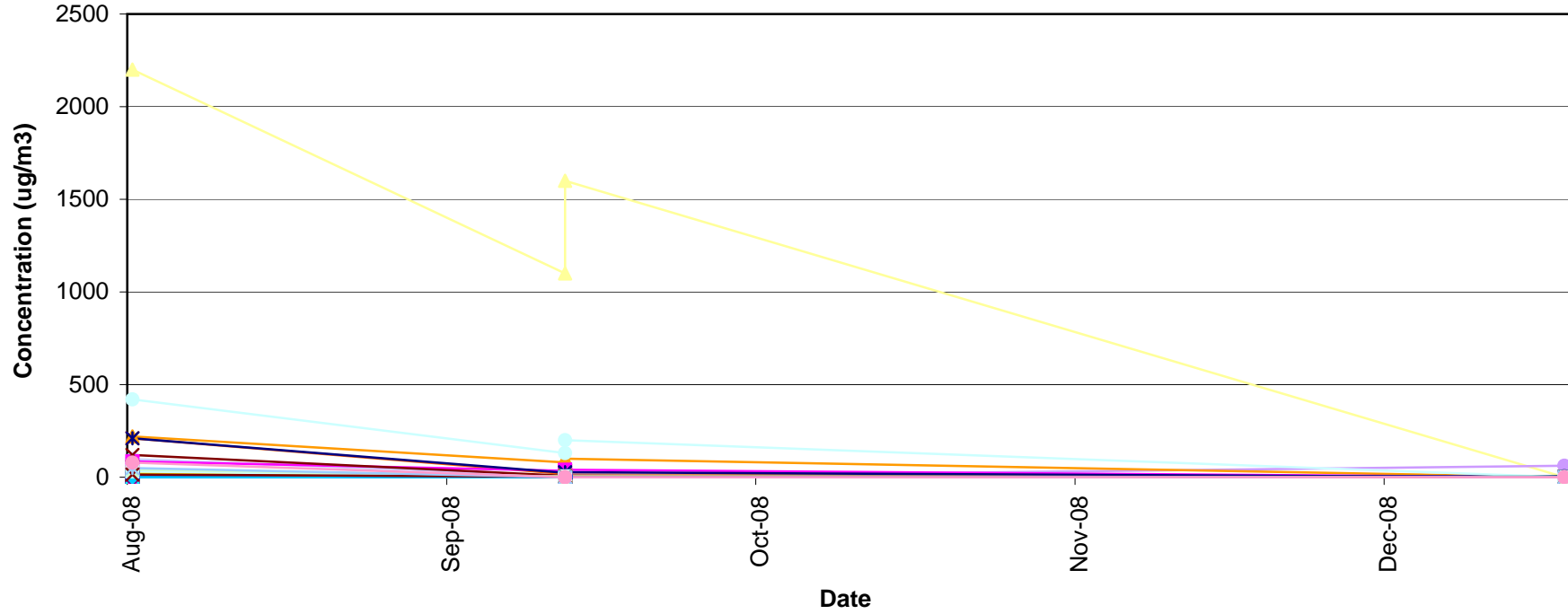
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG24**



Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG24 BTEX**

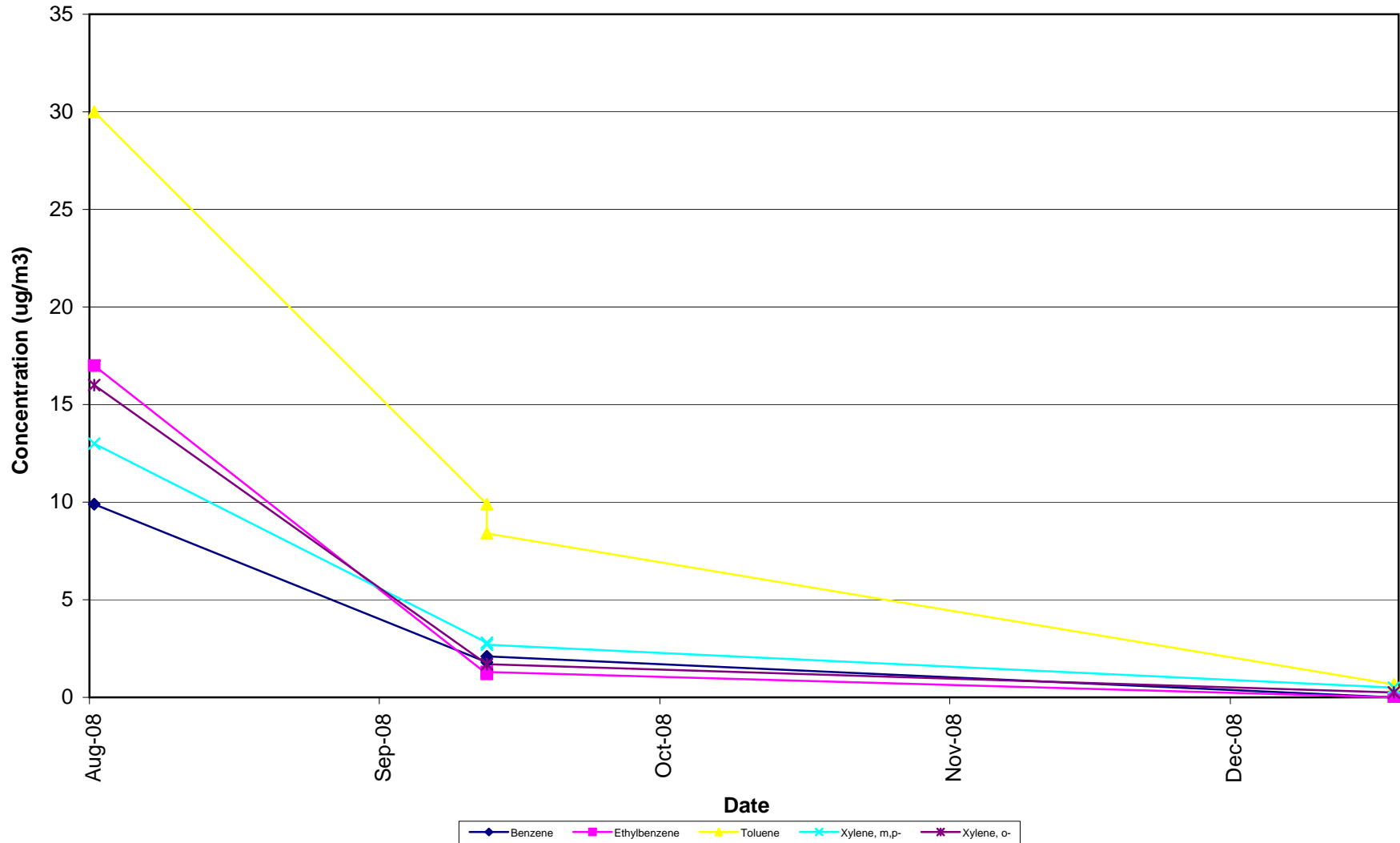


Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG25**

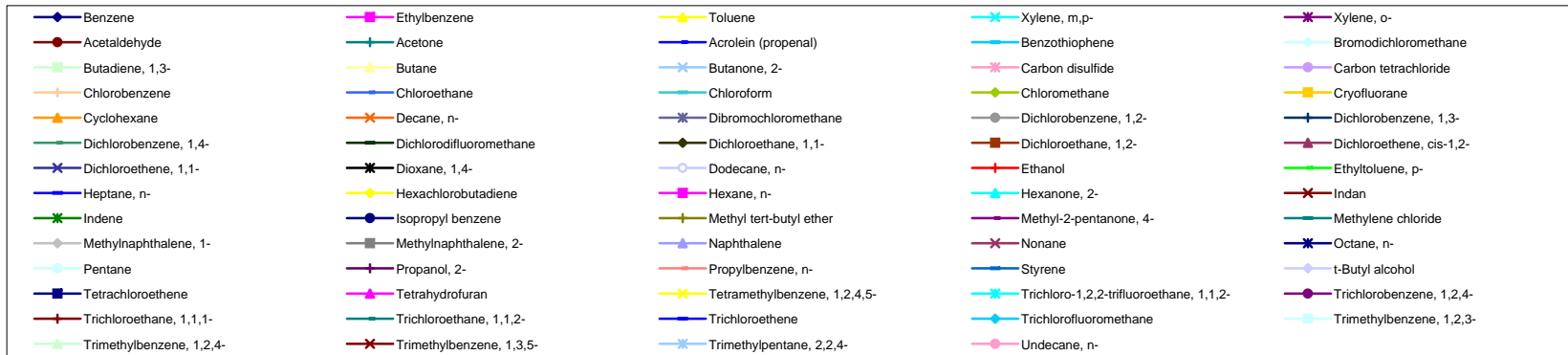
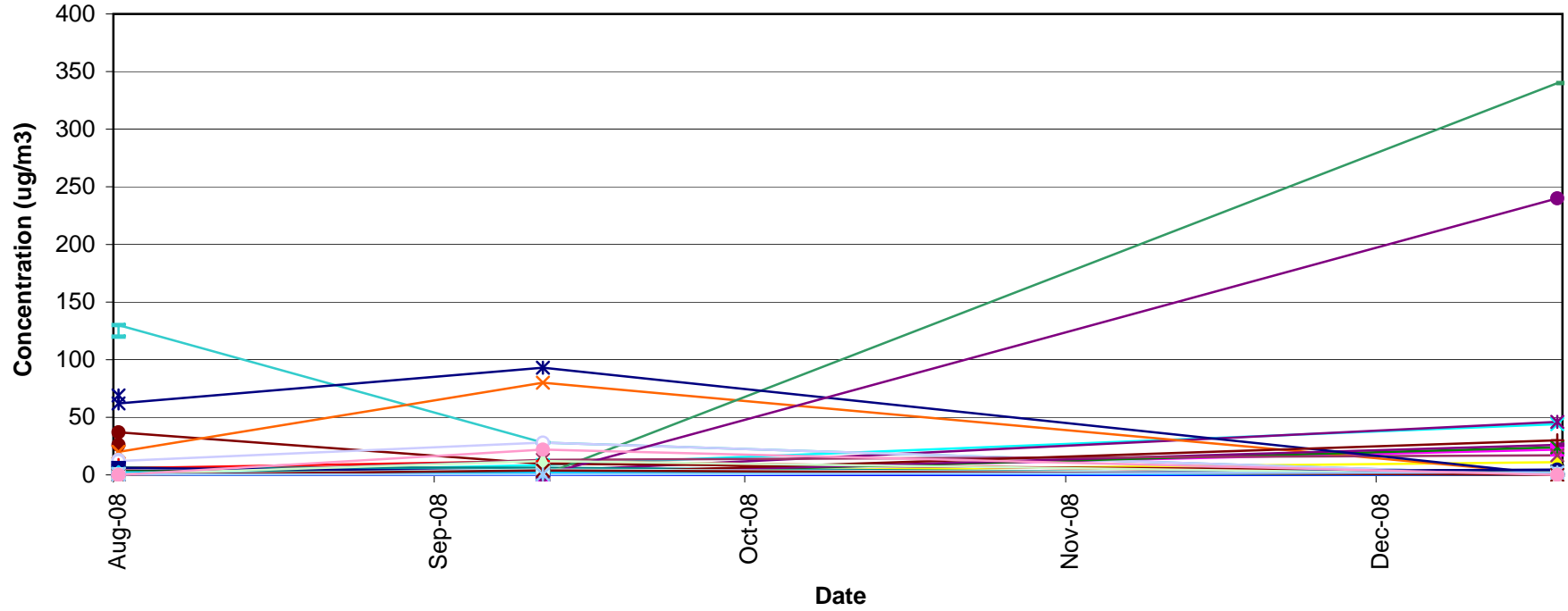


◆ Benzene	◆ Ethylbenzene	▲ Toluene	✕ Xylene, m,p-	✕ Xylene, o-
● Acetaldehyde	◆ Acetone	◆ Acrolein (propenal)	◆ Benzothiophene	◆ Bromodichloromethane
◆ Butadiene, 1,3-	▲ Butane	✕ Butanone, 2-	✕ Carbon disulfide	◆ Carbon tetrachloride
◆ Chlorobenzene	◆ Chloroethane	◆ Chloroform	◆ Chloromethane	◆ Cryofluorane
▲ 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  
**OU2SG25 BTEX**

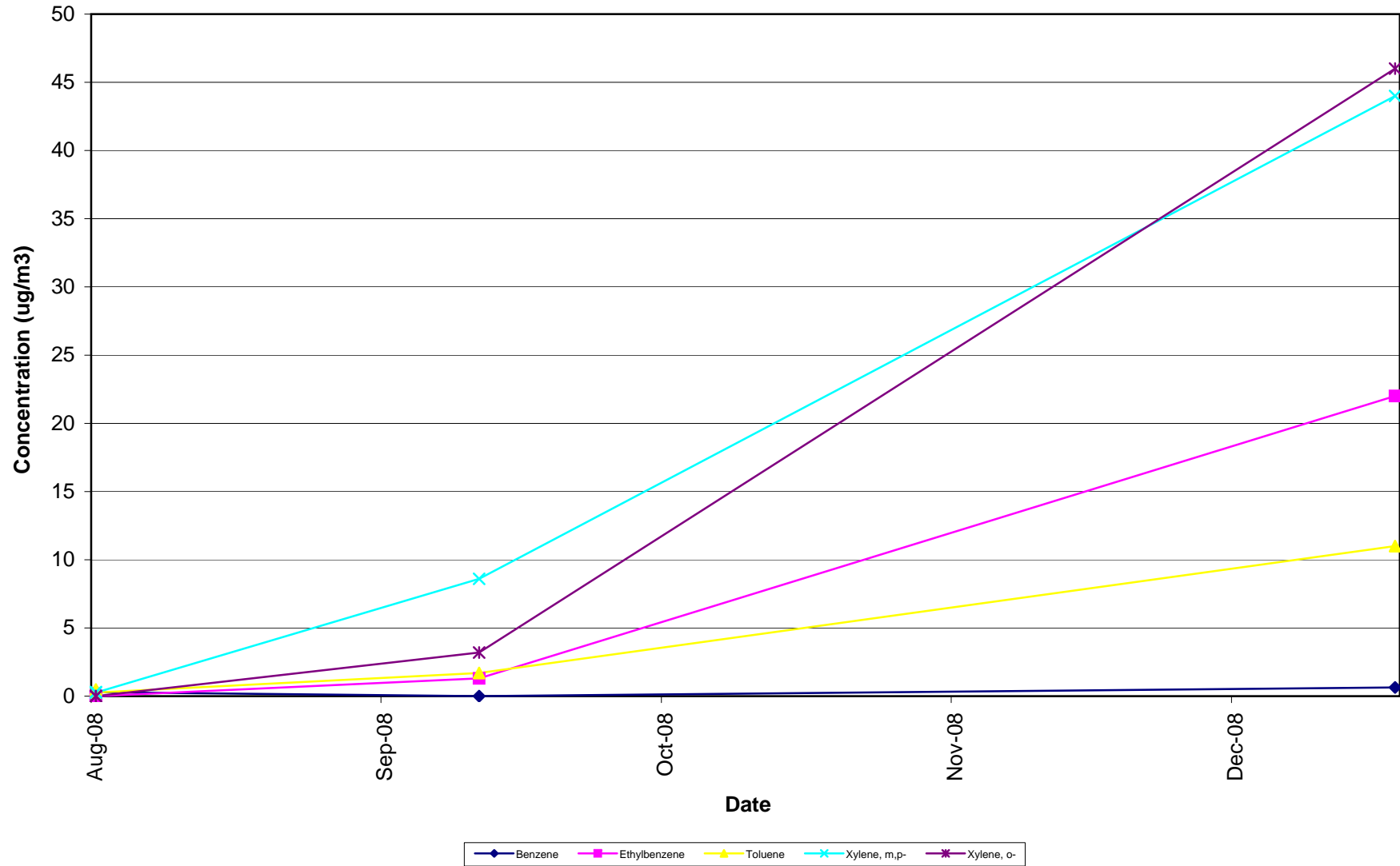


Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 2  
 Bay Shore/Brightwaters Former MGP Site  
**OU2SG26**

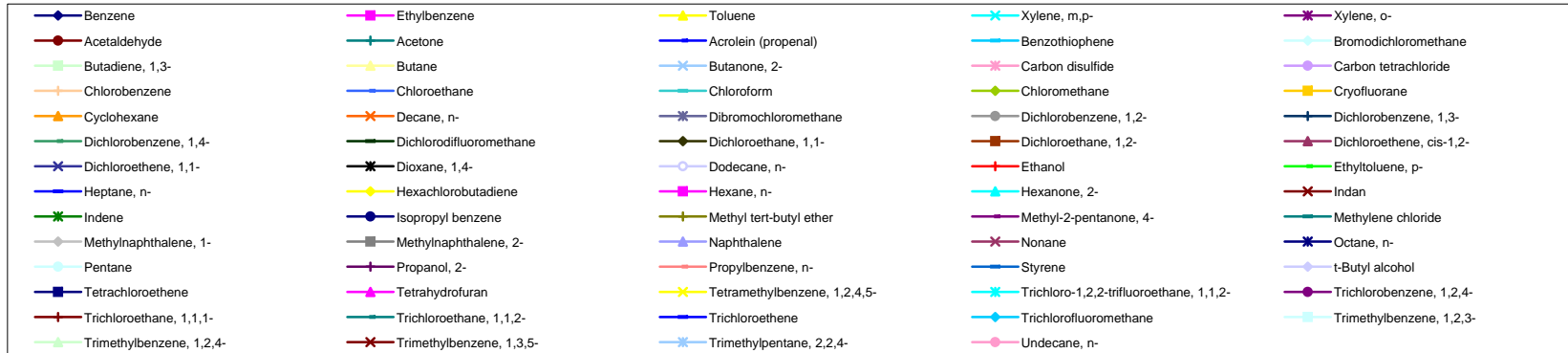
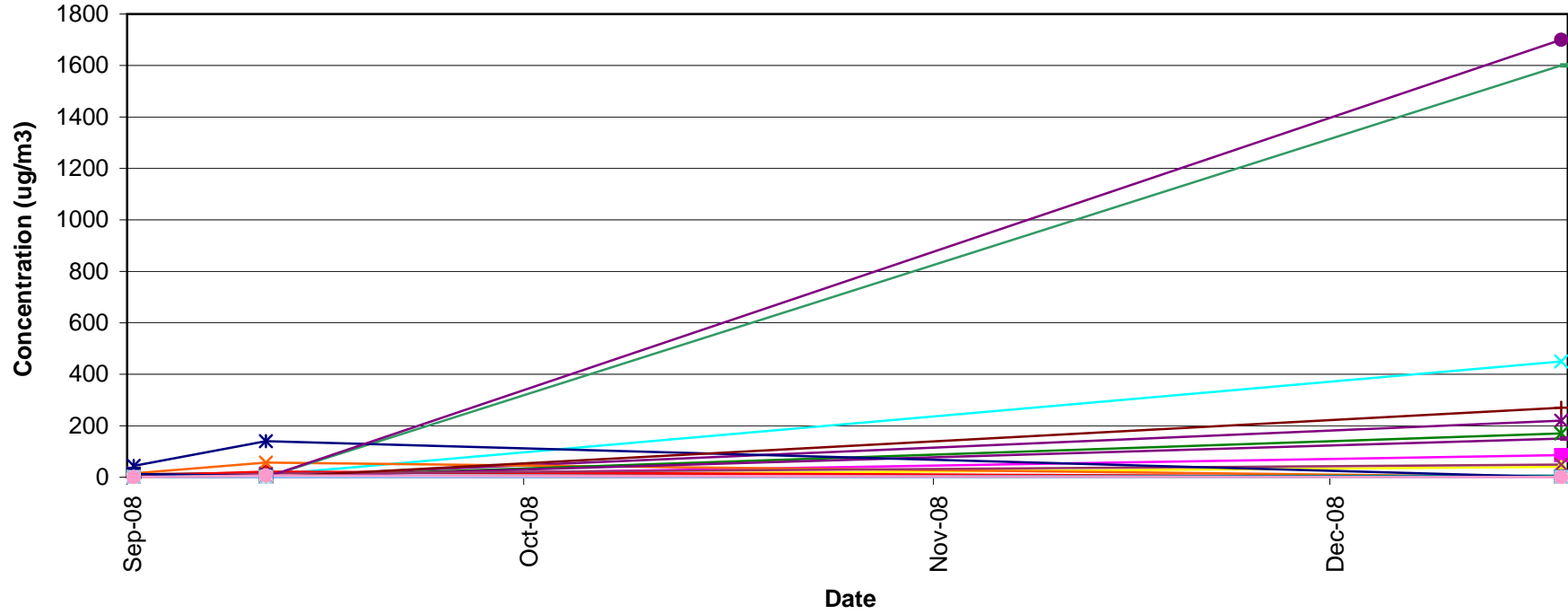




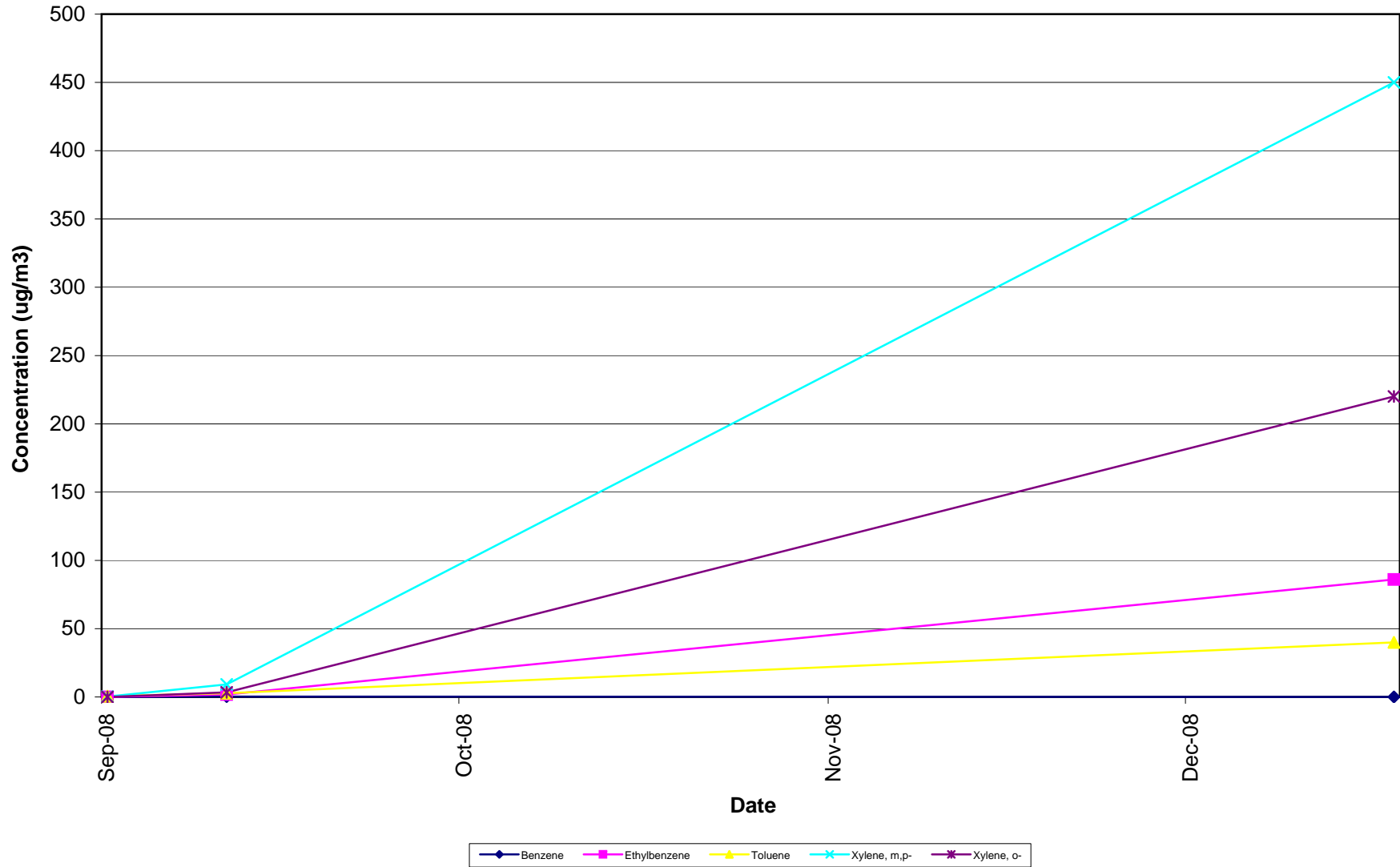
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG26 BTEX**



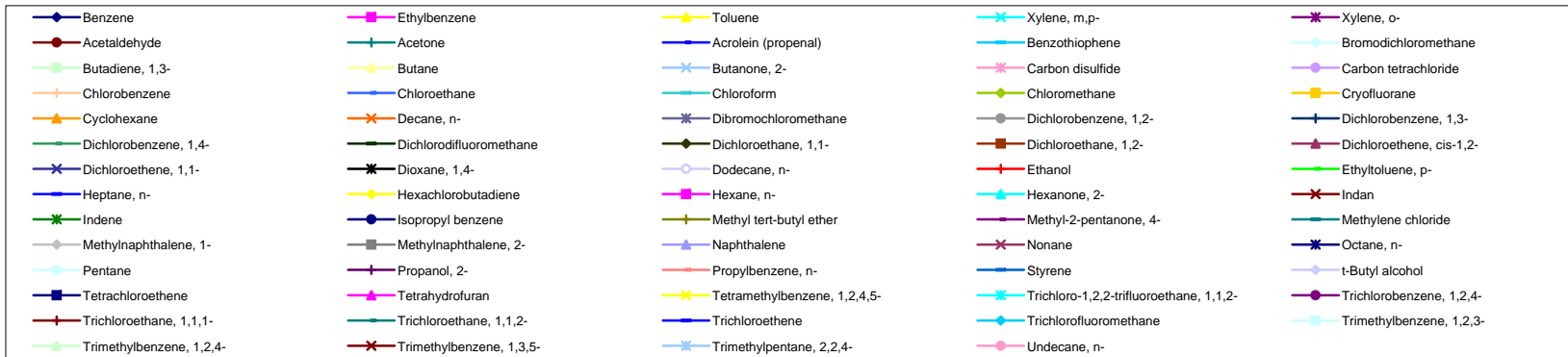
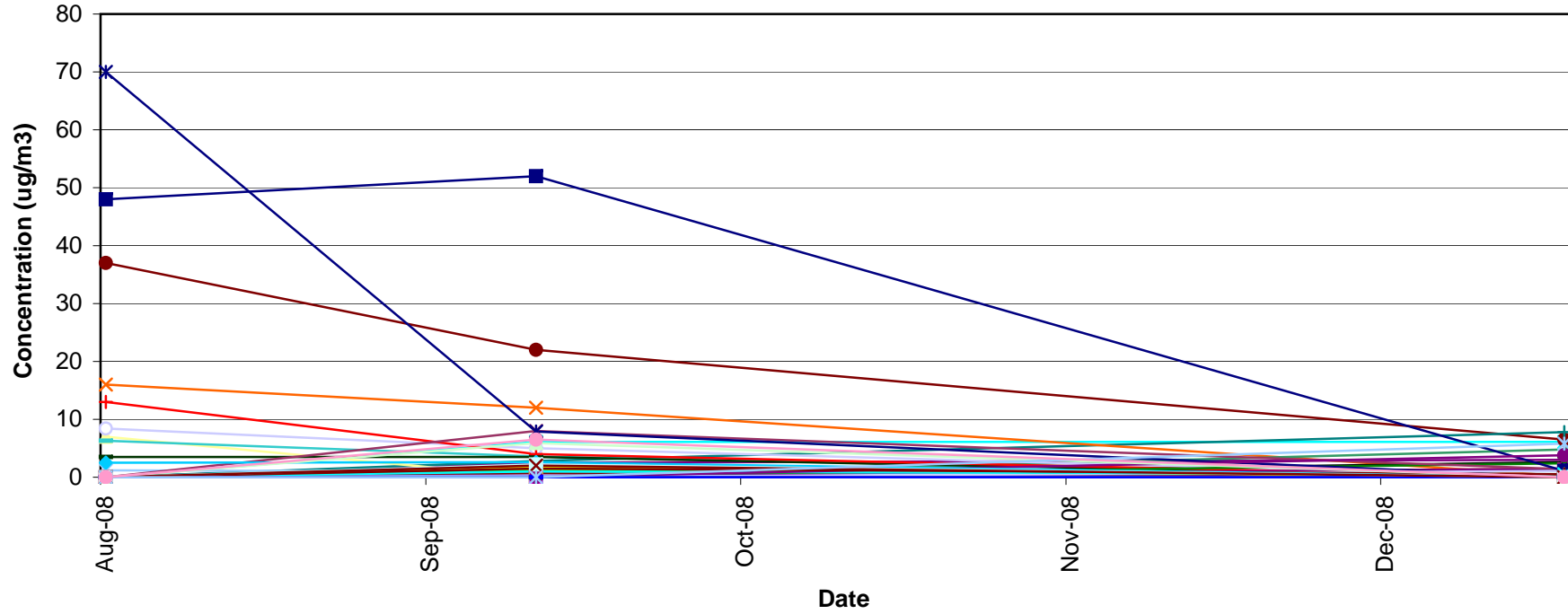
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG29**



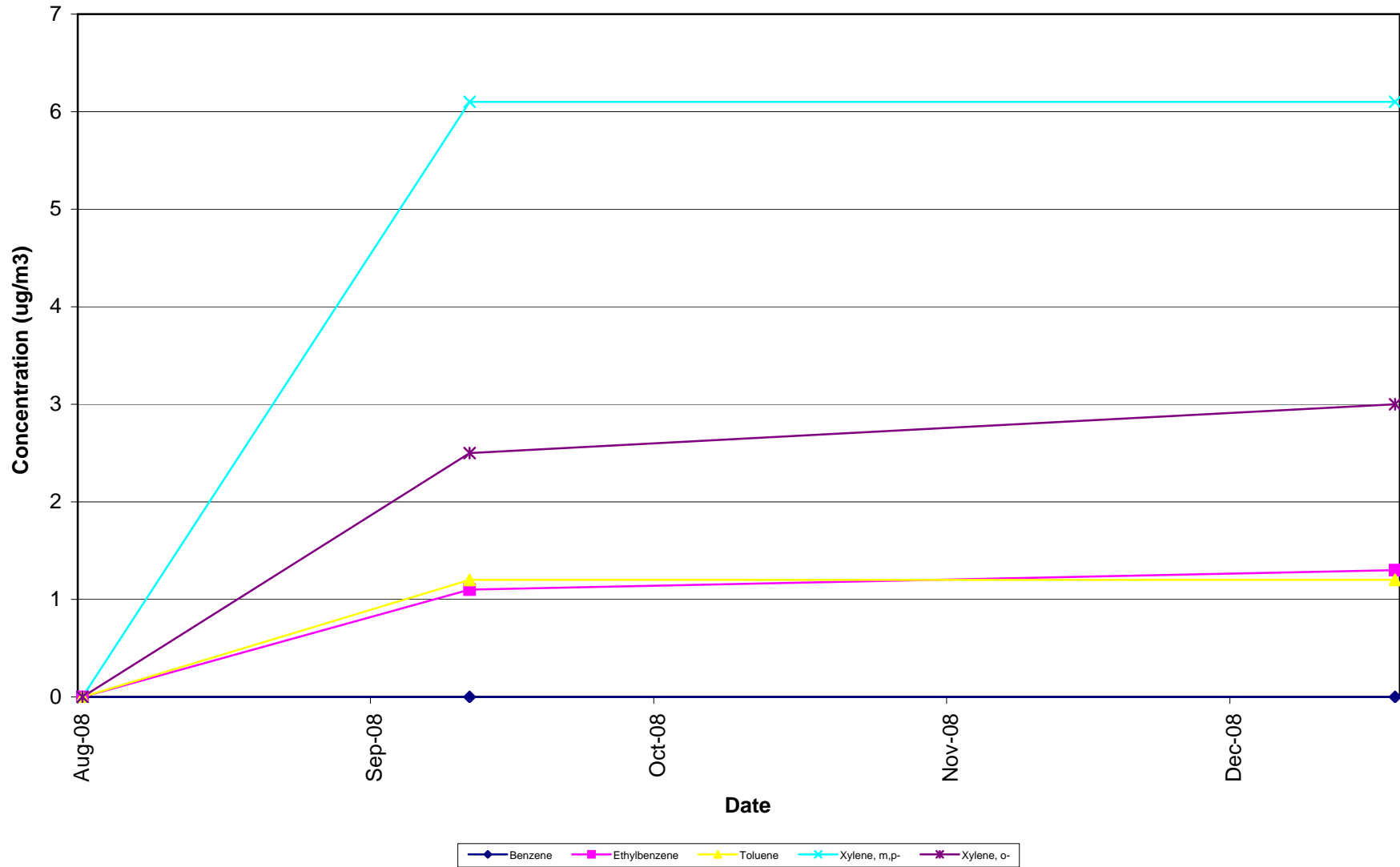
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG29 BTEX**



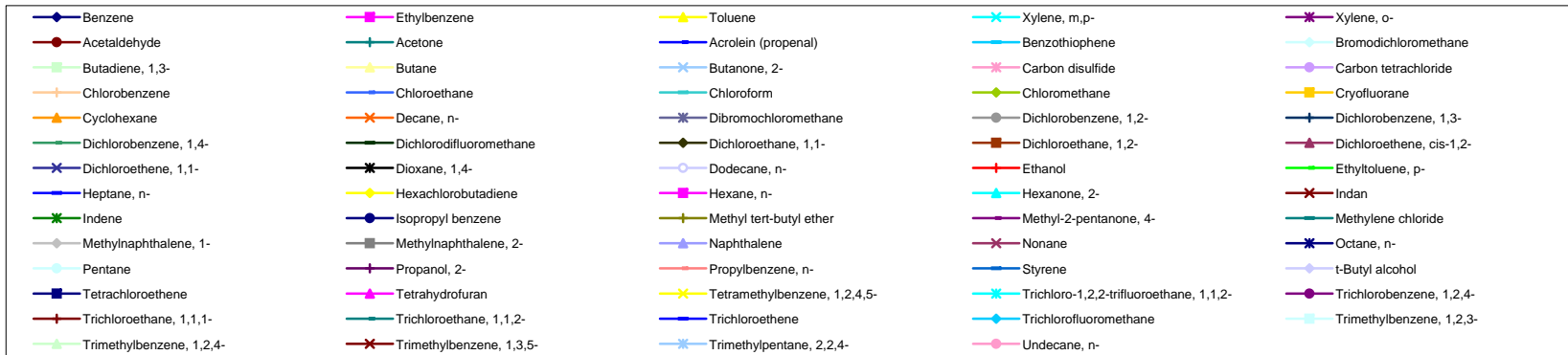
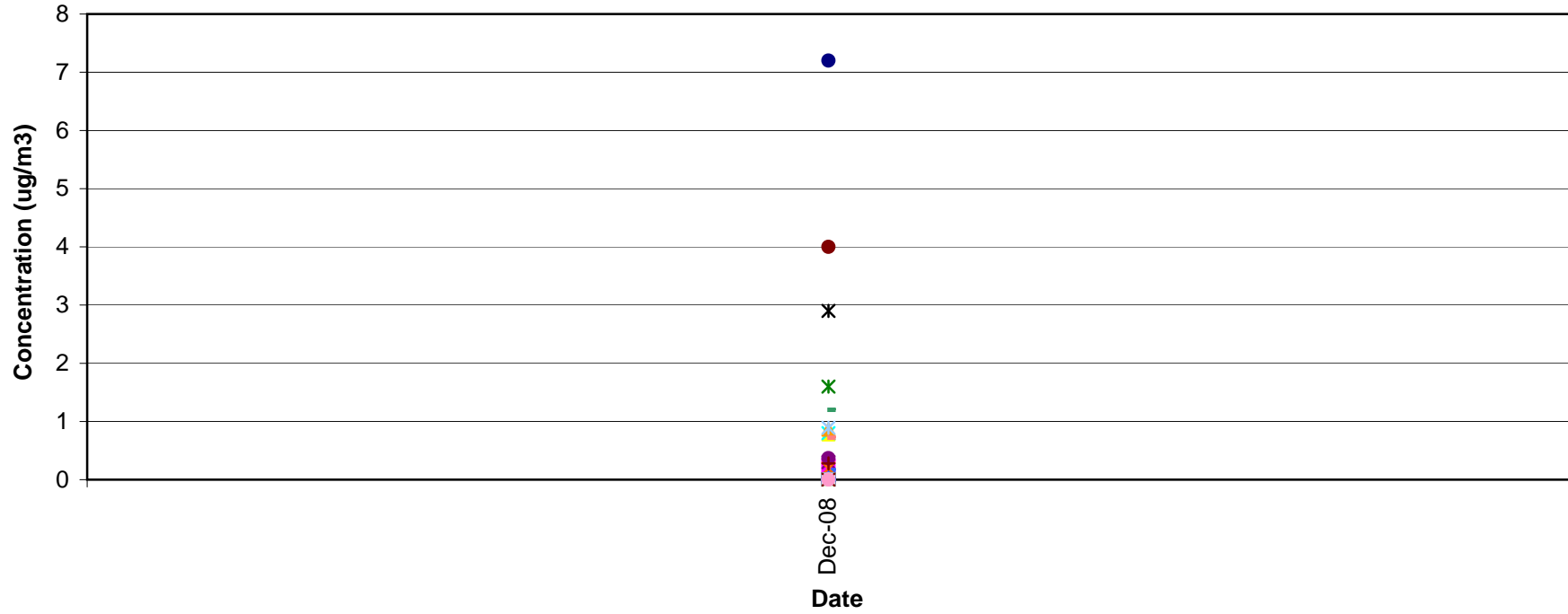
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG30**



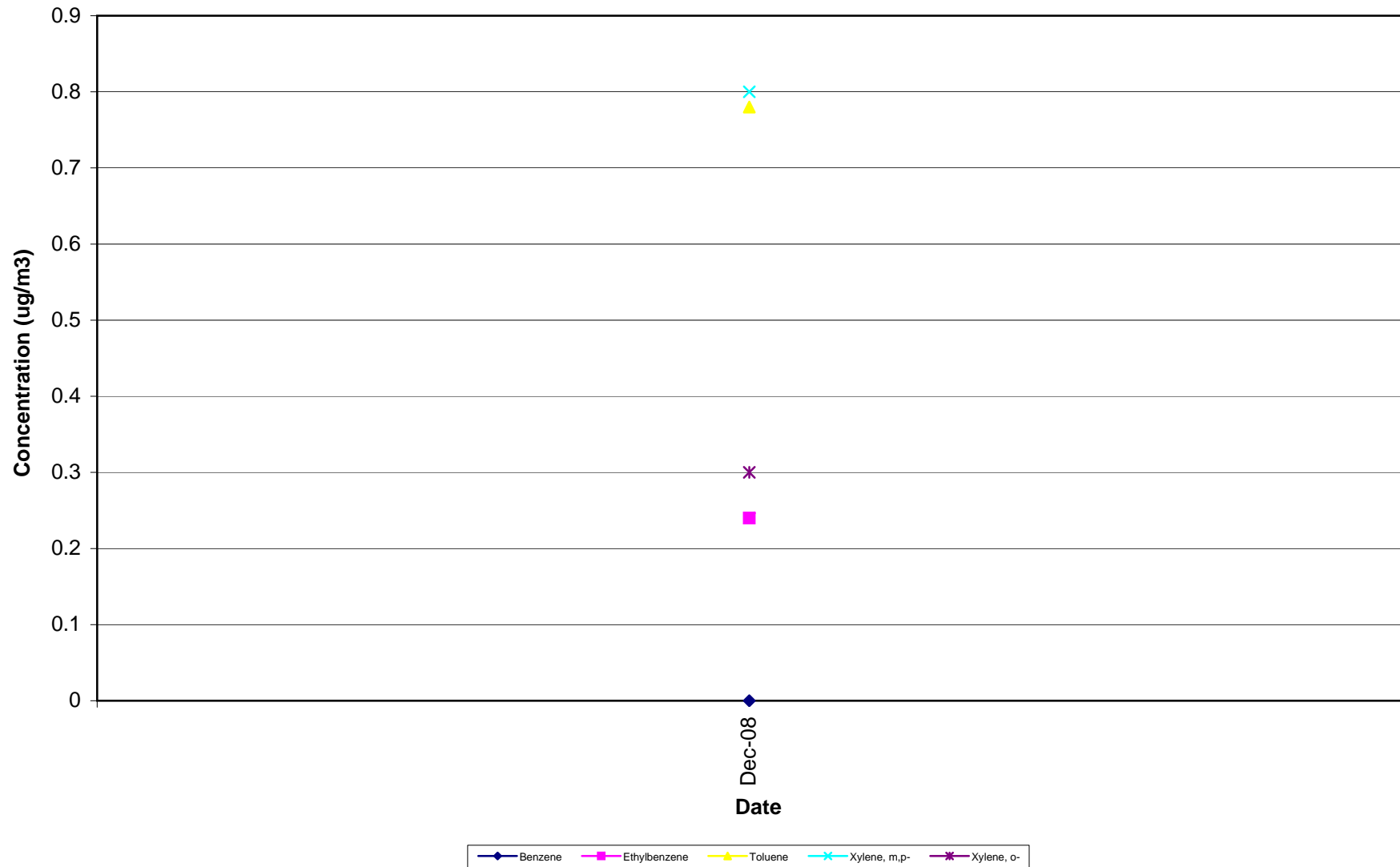
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG30 BTEX**



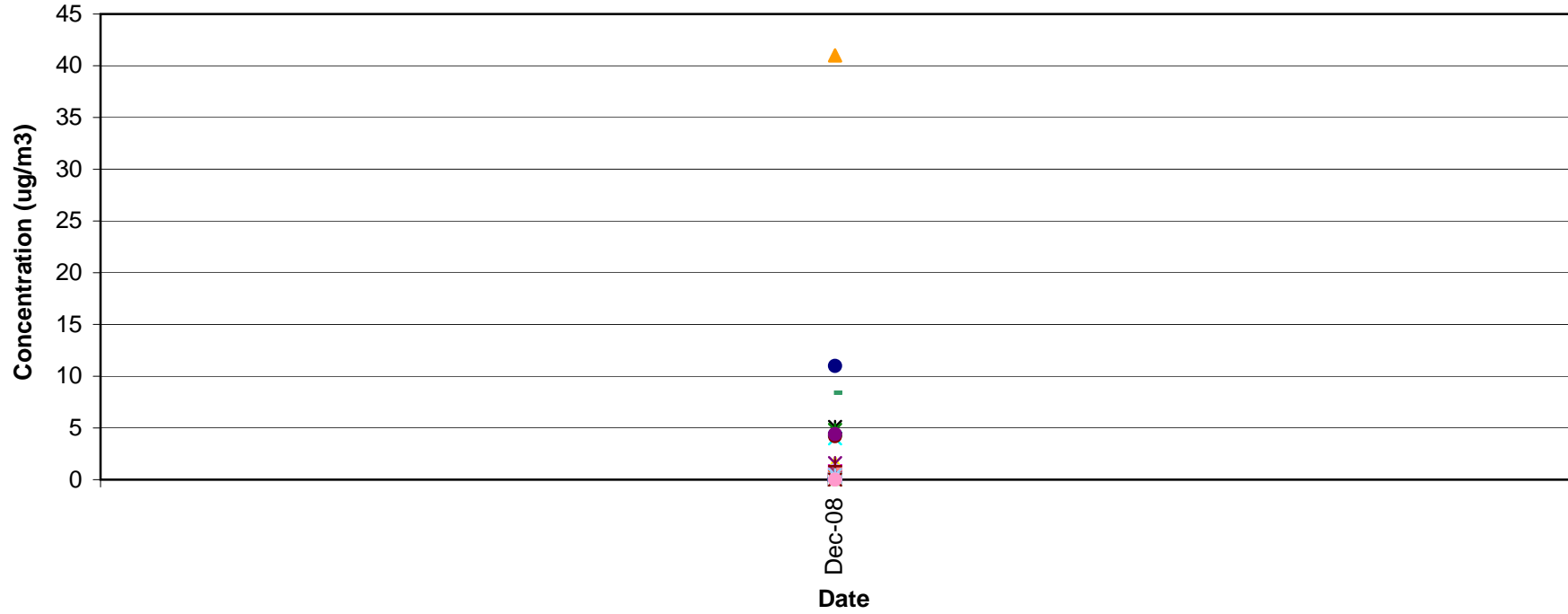
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG30**



Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG30 BTEX**



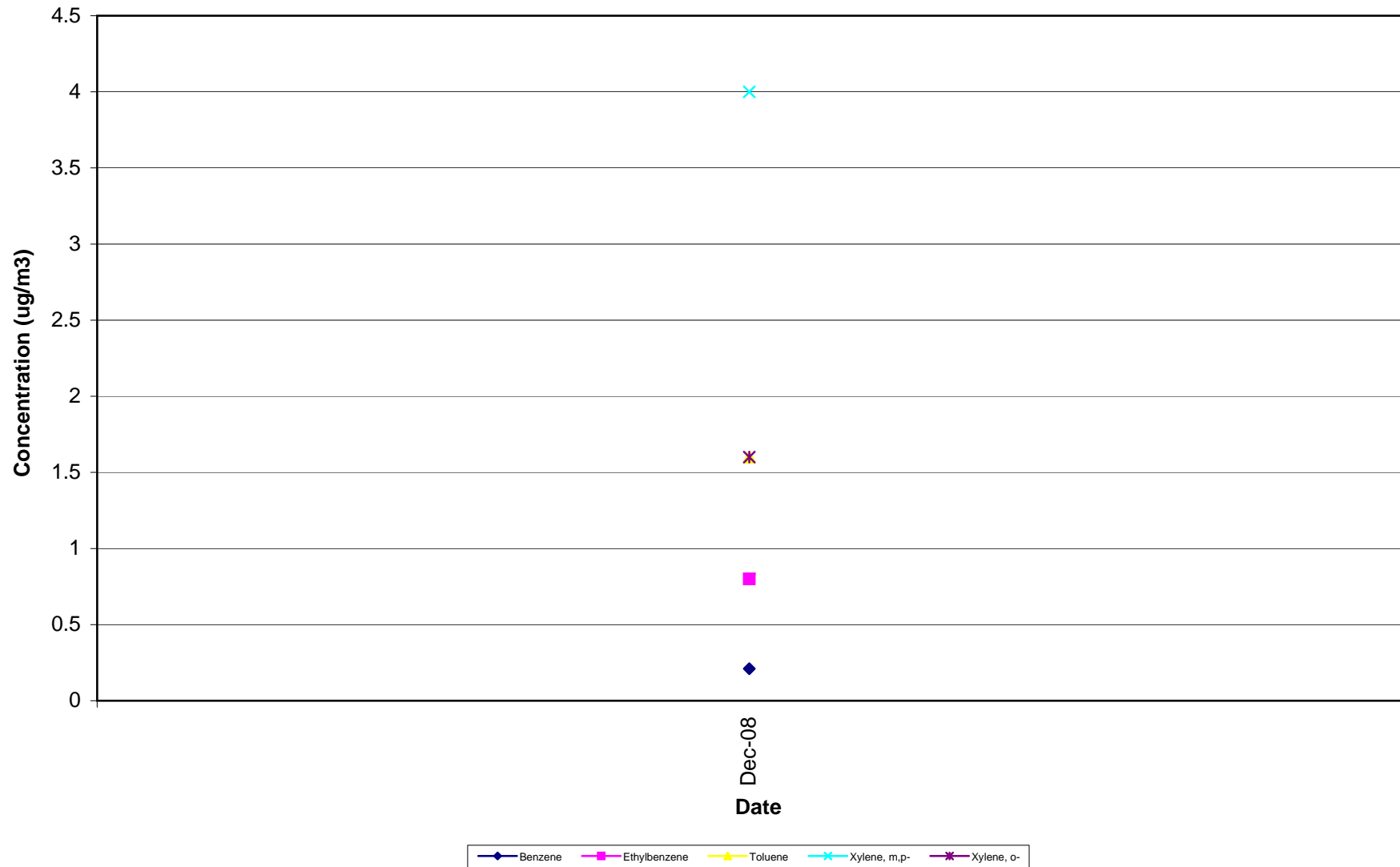
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG30**



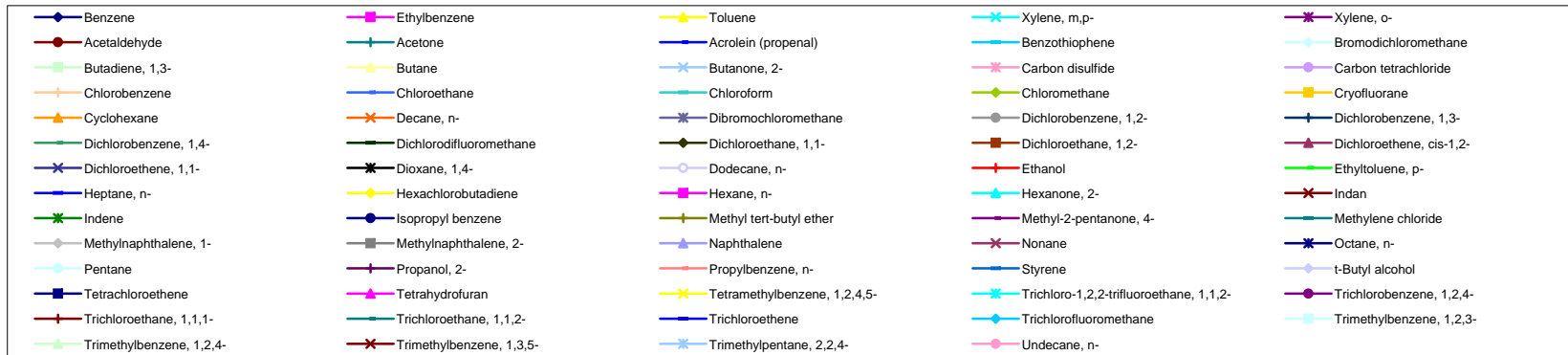
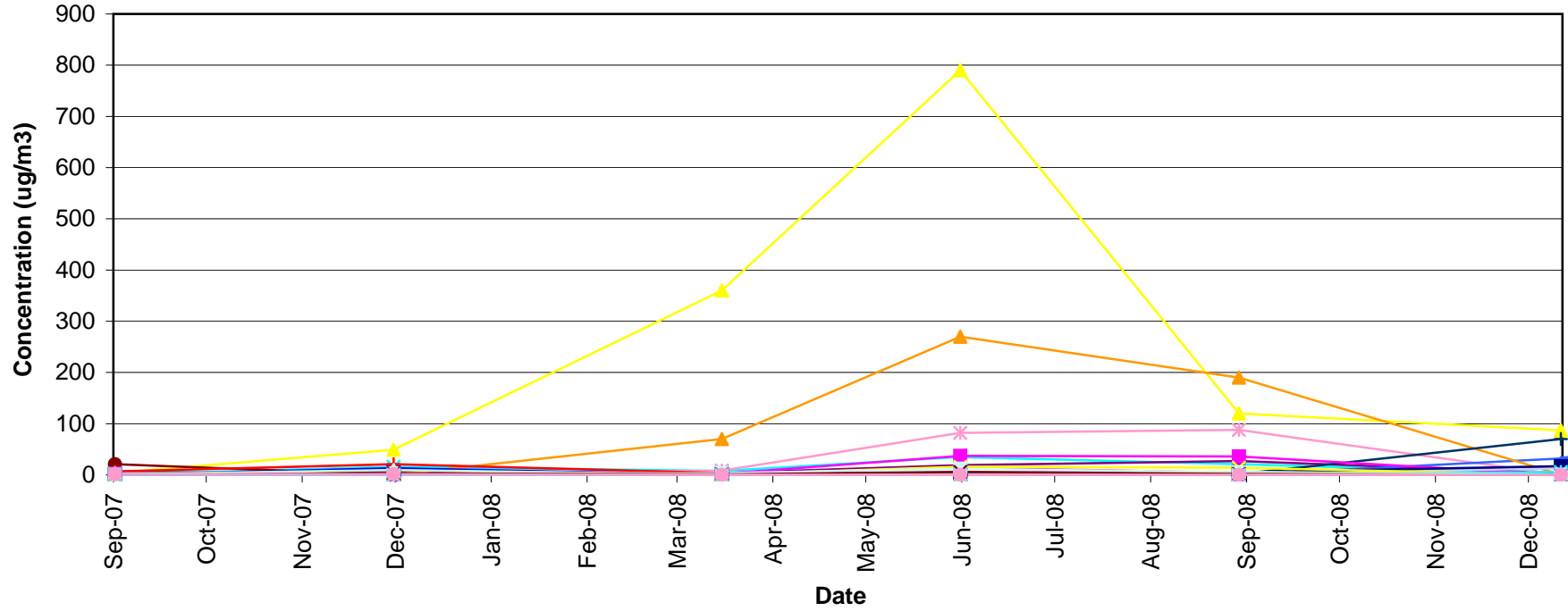
- |                            |                            |                                |   |                            |
|----------------------------|----------------------------|--------------------------------|---|----------------------------|
| ◆ Benzene                  | ◆ Ethylbenzene             | ▲ 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-                            |                            |



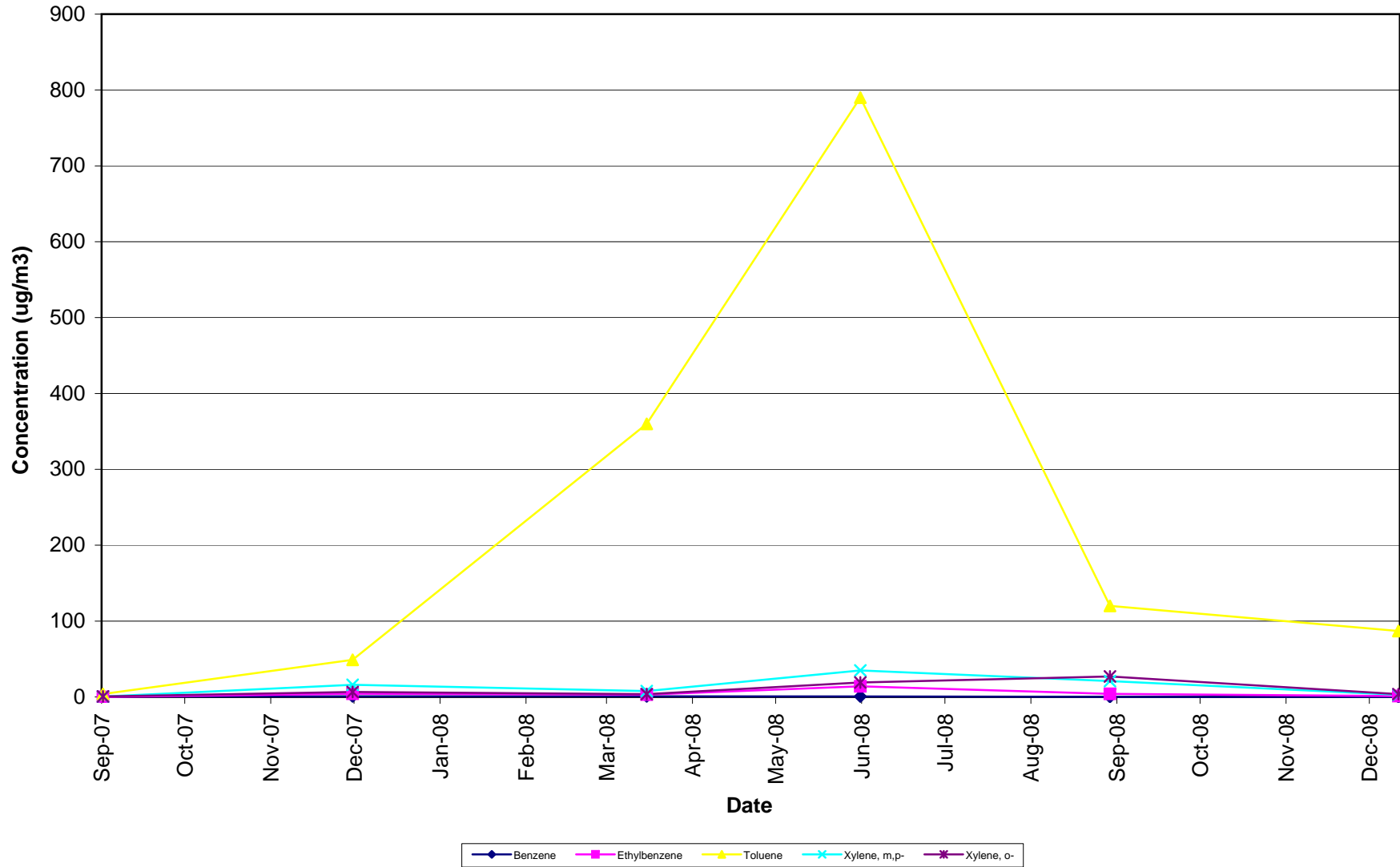
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 2  
Bay Shore/Brightwaters Former MGP Site  
**OU2SG30 BTEX**



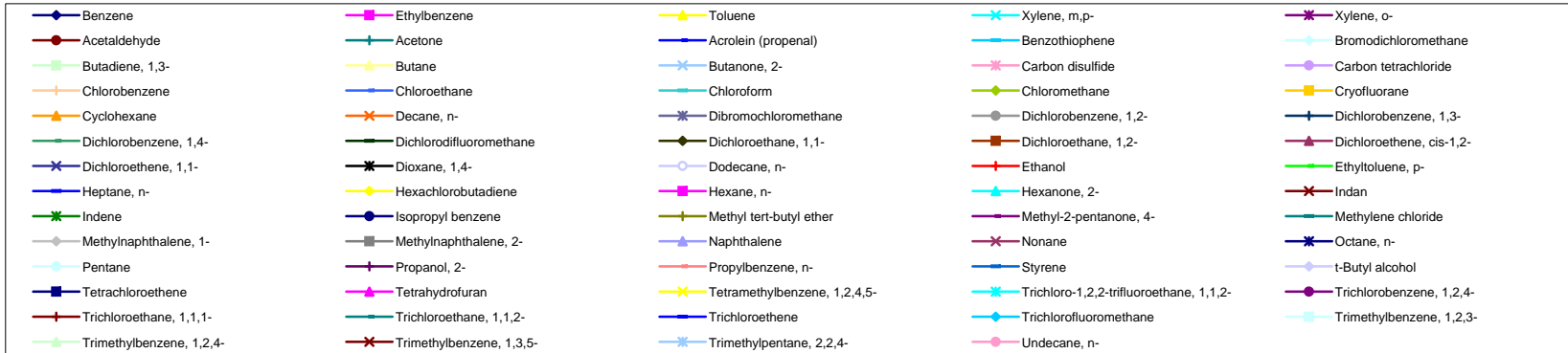
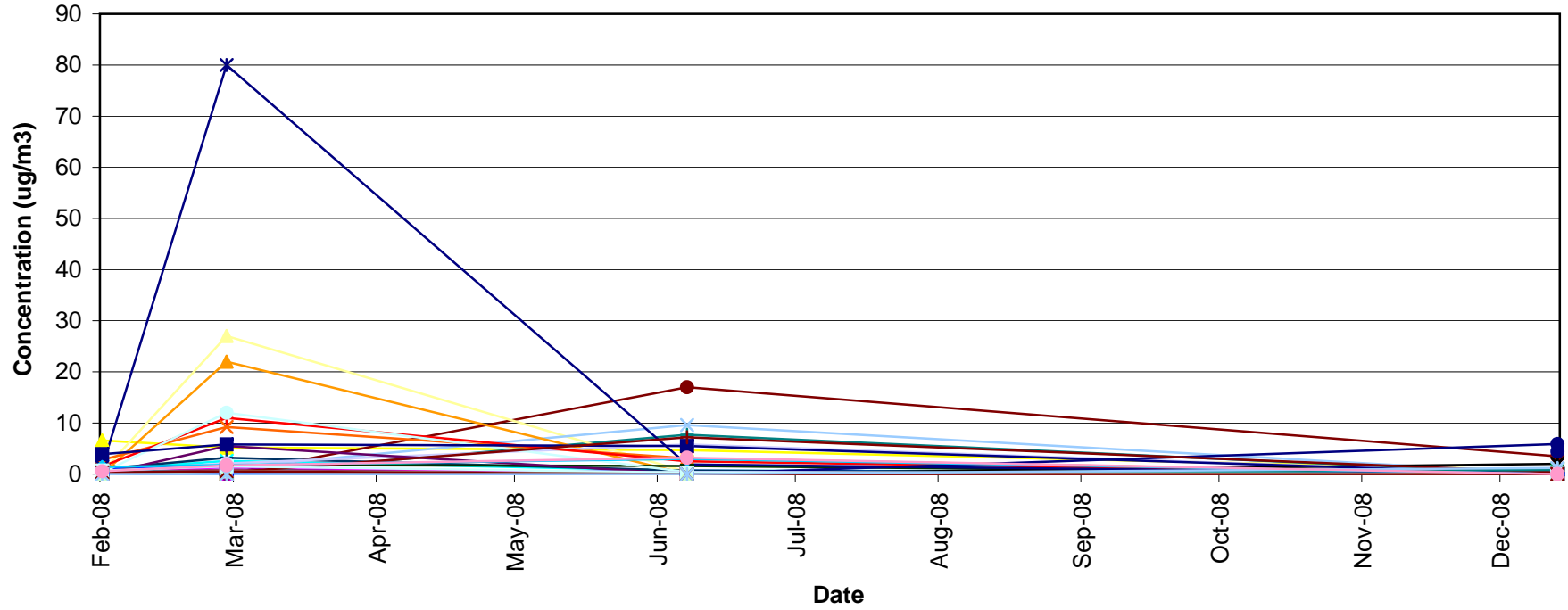
Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 1  
 Bay Shore/Brightwaters Former MGP Site  
**OZSG01**



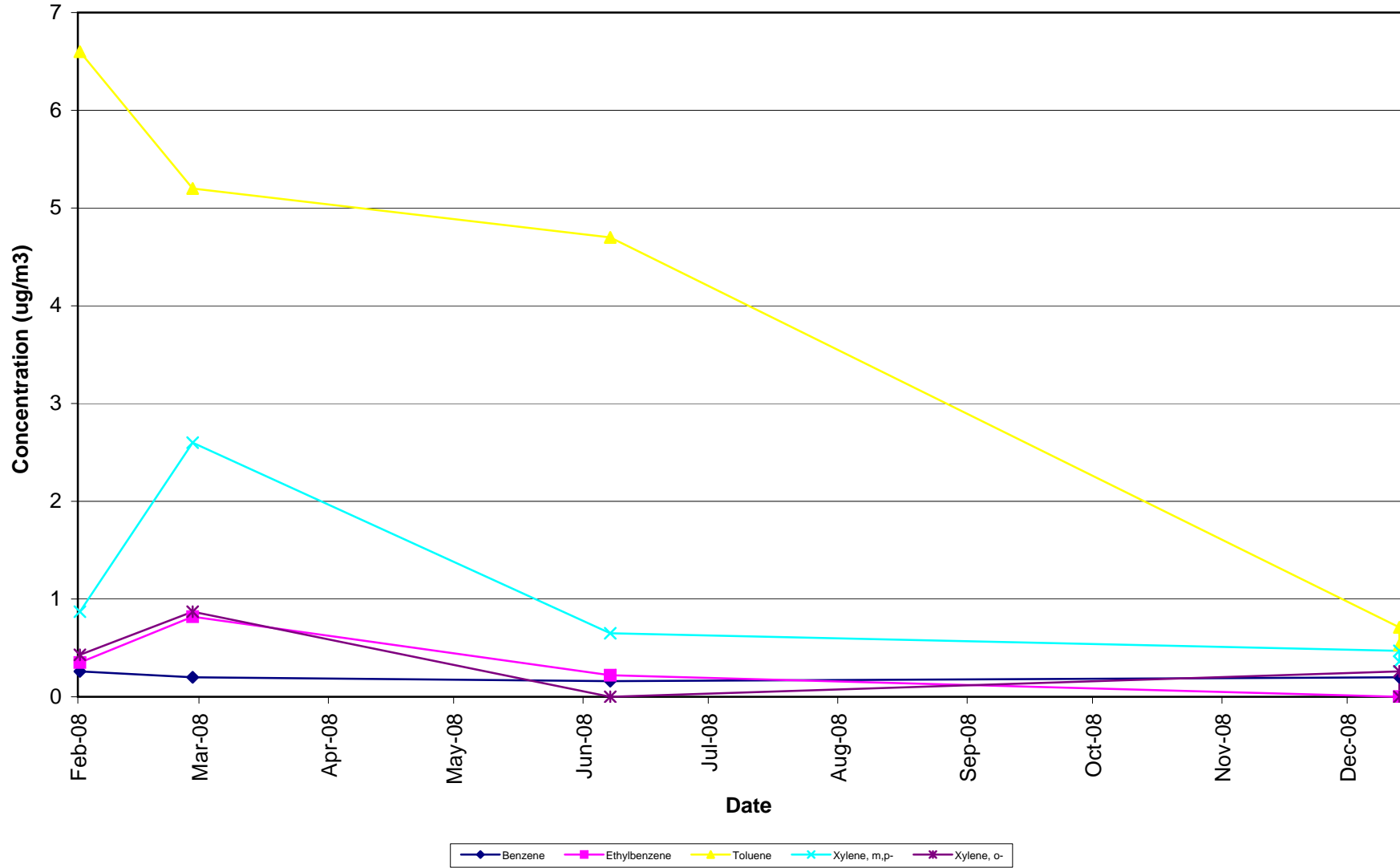
Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 1  
 Bay Shore/Brightwaters Former MGP Site  
**OZSG01 BTEX**



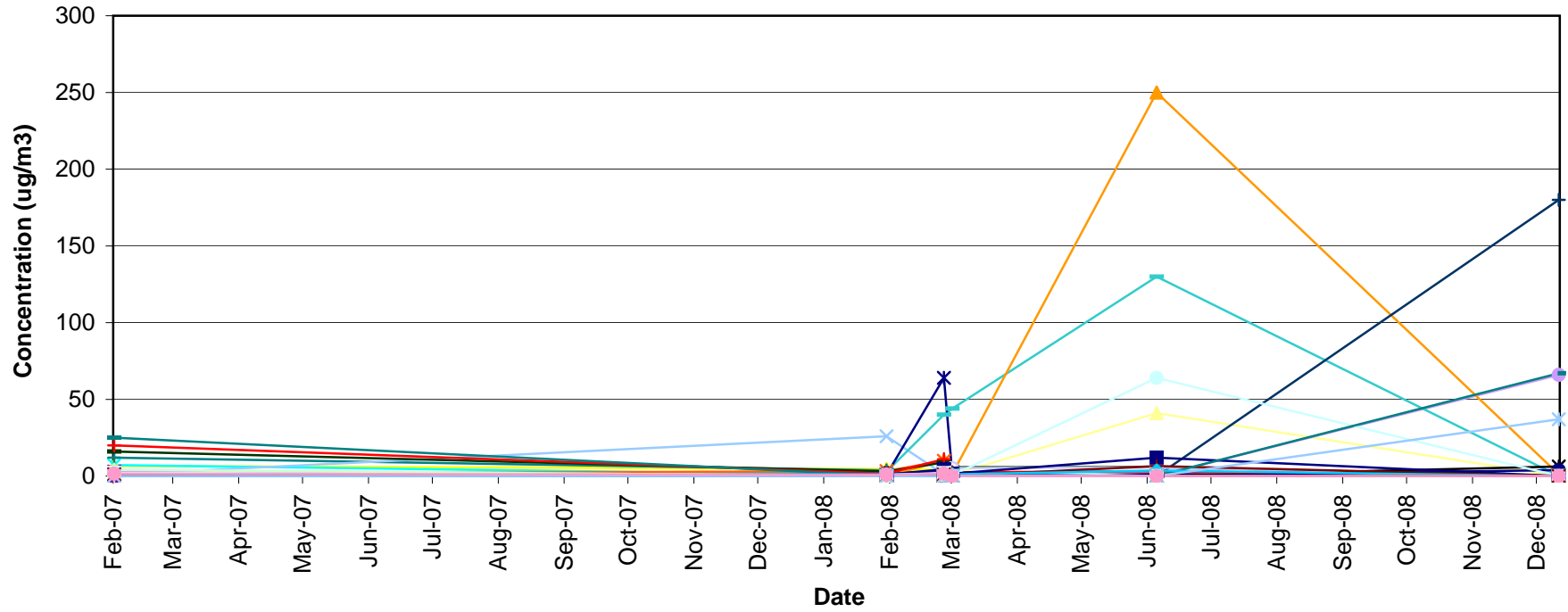
Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 1  
Bay Shore/Brightwaters Former MGP Site  
**OZSG02**



Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 1  
 Bay Shore/Brightwaters Former MGP Site  
**OZSG02 BTEX**

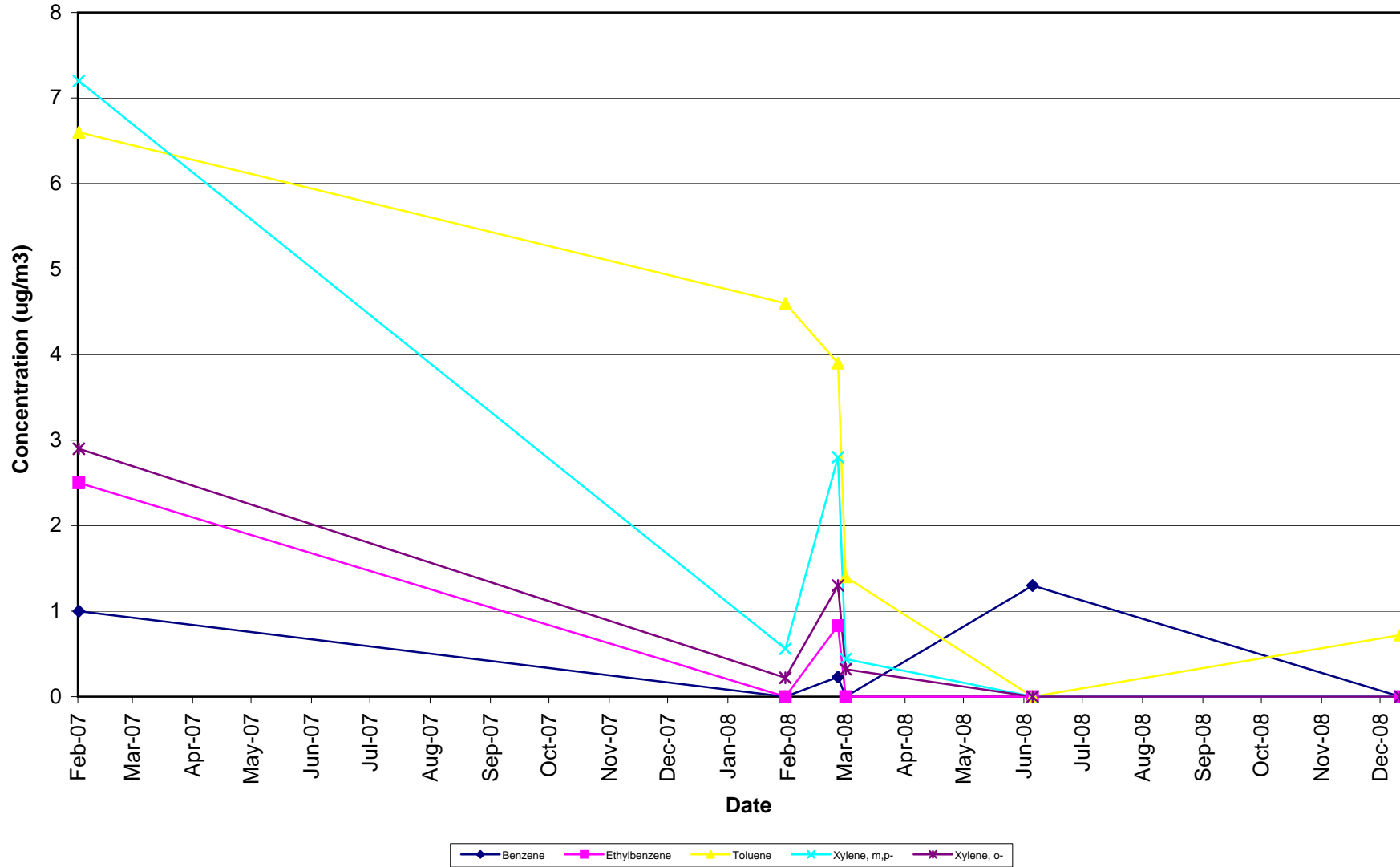


Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 1  
 Bay Shore/Brightwaters Former MGP Site  
**OZSG03**

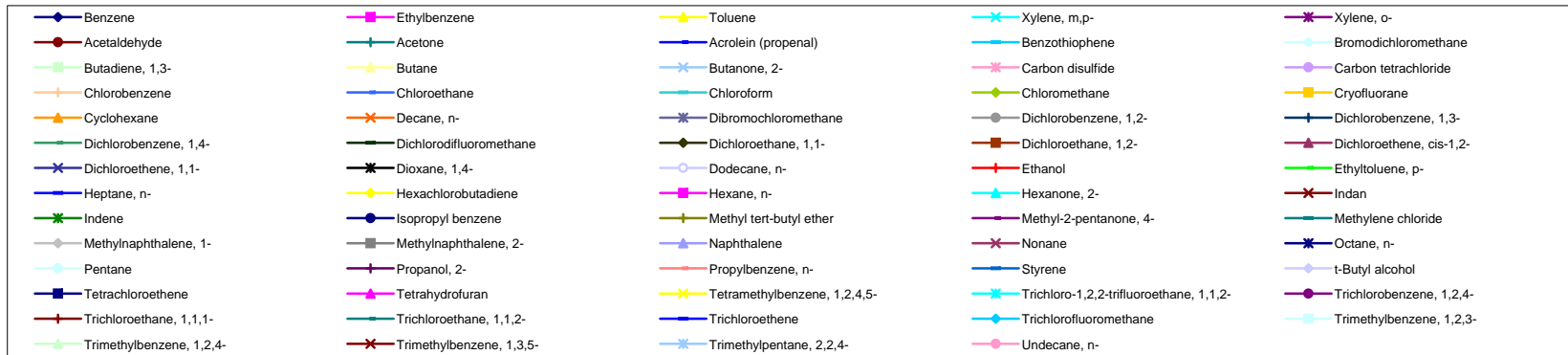
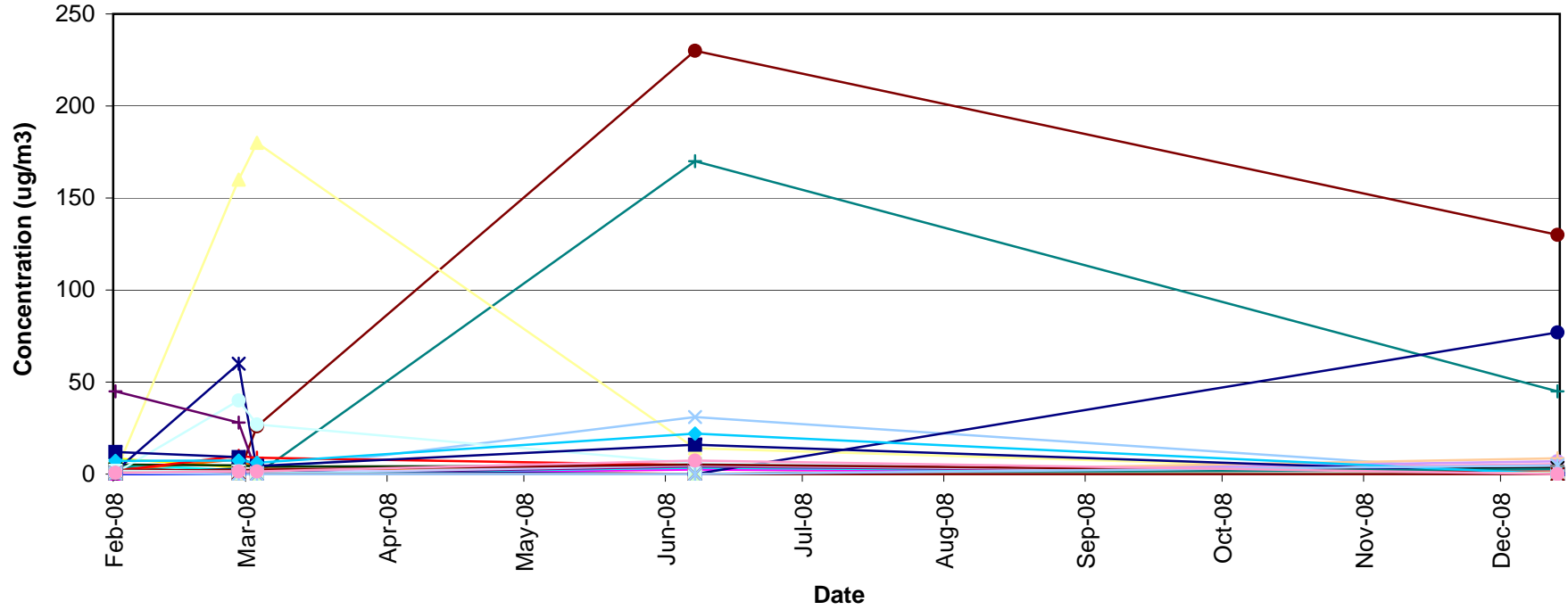


◆ Benzene	◆ Ethylbenzene	▲ Toluene	✕ Xylene, m,p-	✕ Xylene, o-
● Acetaldehyde	◆ Acetone	◆ Acrolein (propenal)	◆ Benzothiophene	◆ Bromodichloromethane
◆ Butadiene, 1,3-	▲ Butane	✕ Butanone, 2-	✕ Carbon disulfide	◆ Carbon tetrachloride
◆ Chlorobenzene	◆ Chloroethane	◆ Chloroform	◆ Chloromethane	◆ Cryofluorane
▲ 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. 1  
 Bay Shore/Brightwaters Former MGP Site  
**OZSG03 BTEX**

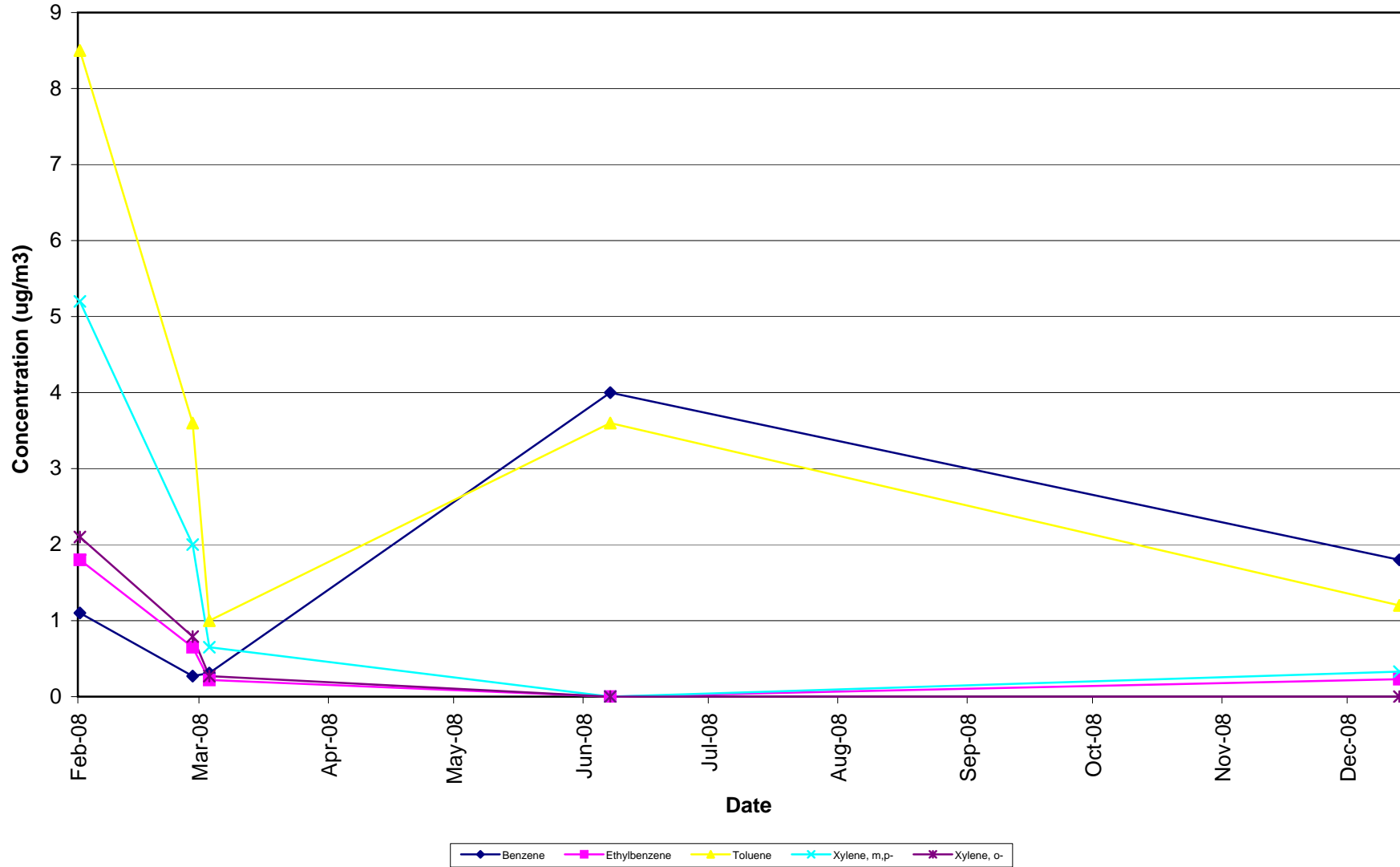


Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 1  
Bay Shore/Brightwaters Former MGP Site  
**OZSG04**

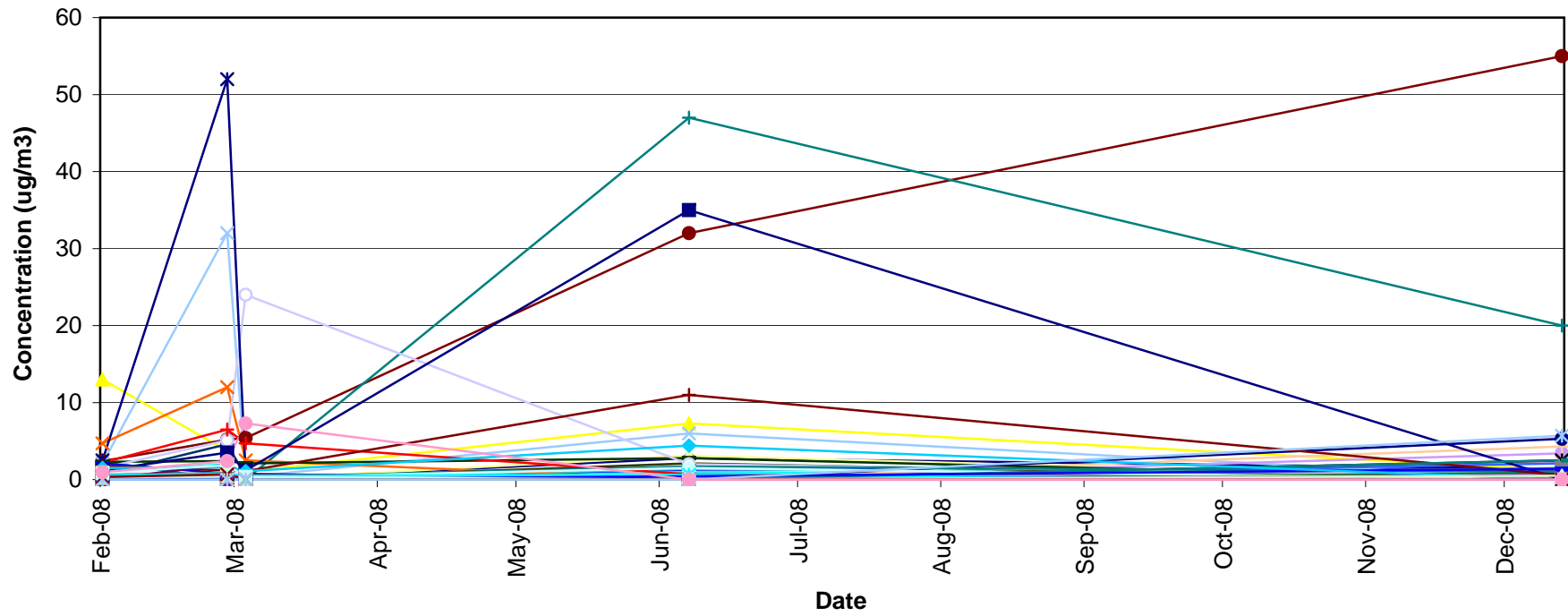




Appendix D  
 Soil Vapor Analytical Results  
 Operable Unit No. 1  
 Bay Shore/Brightwaters Former MGP Site  
**OZSG04 BTEX**

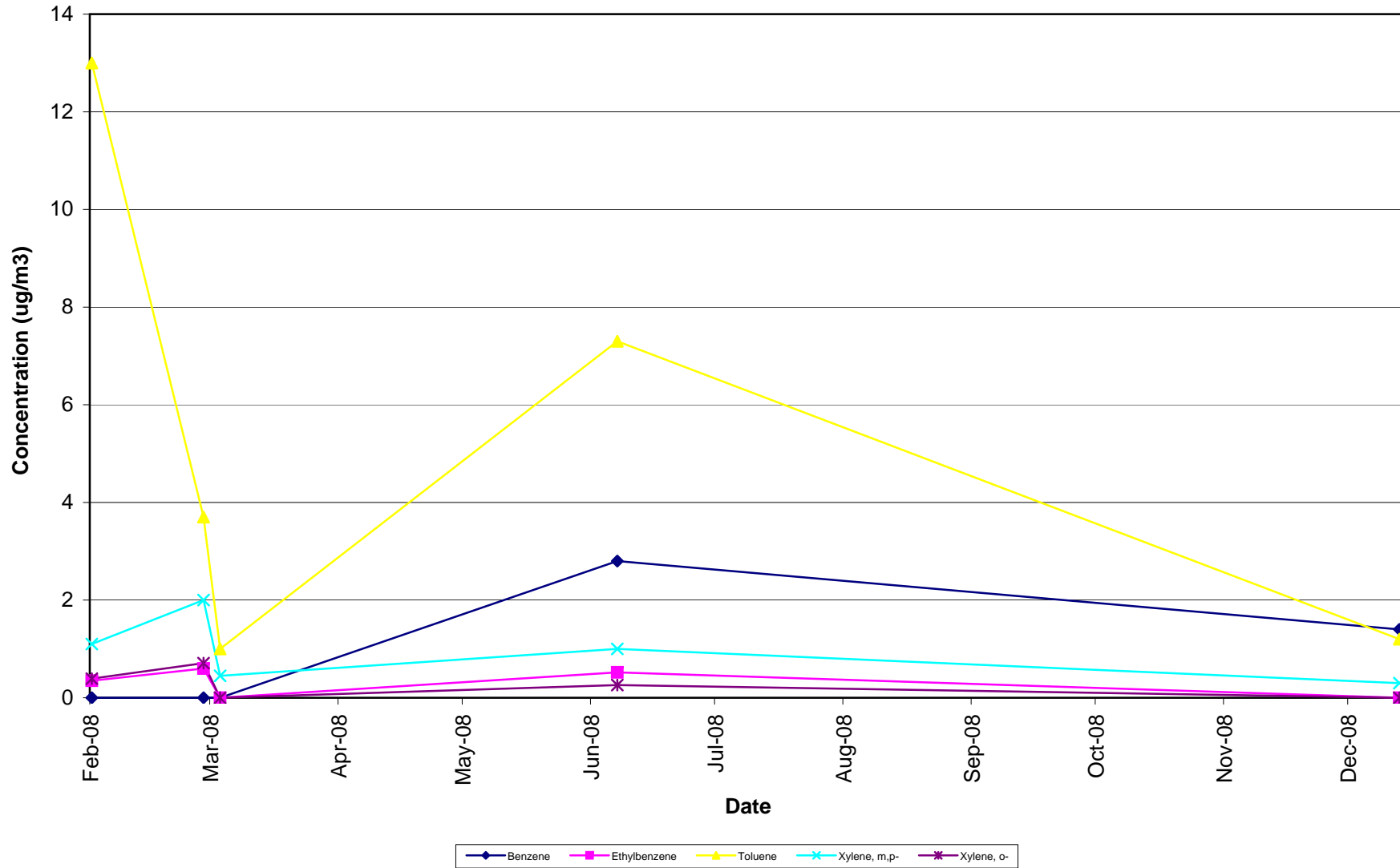


Appendix D  
Soil Vapor Analytical Results  
Operable Unit No. 1  
Bay Shore/Brightwaters Former MGP Site  
**OZSG05**

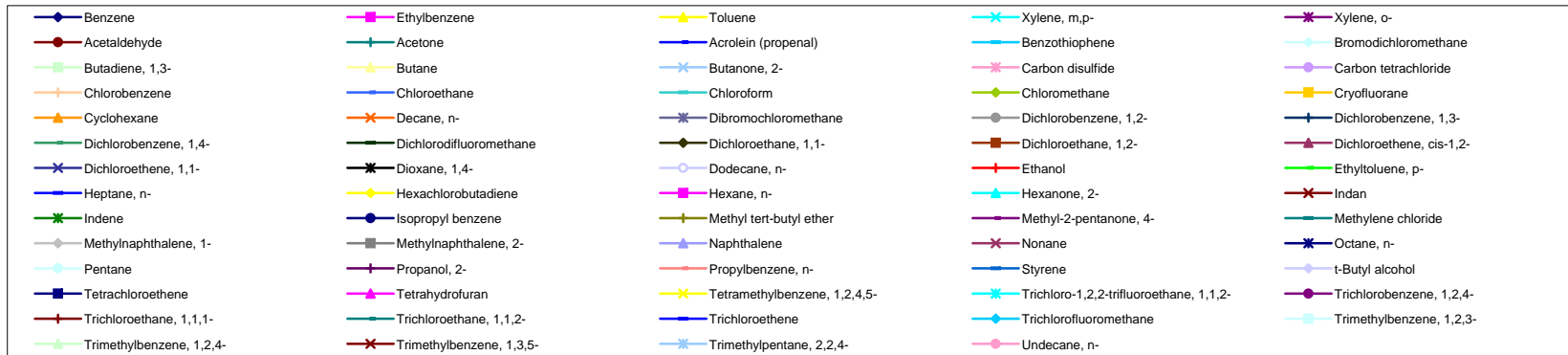
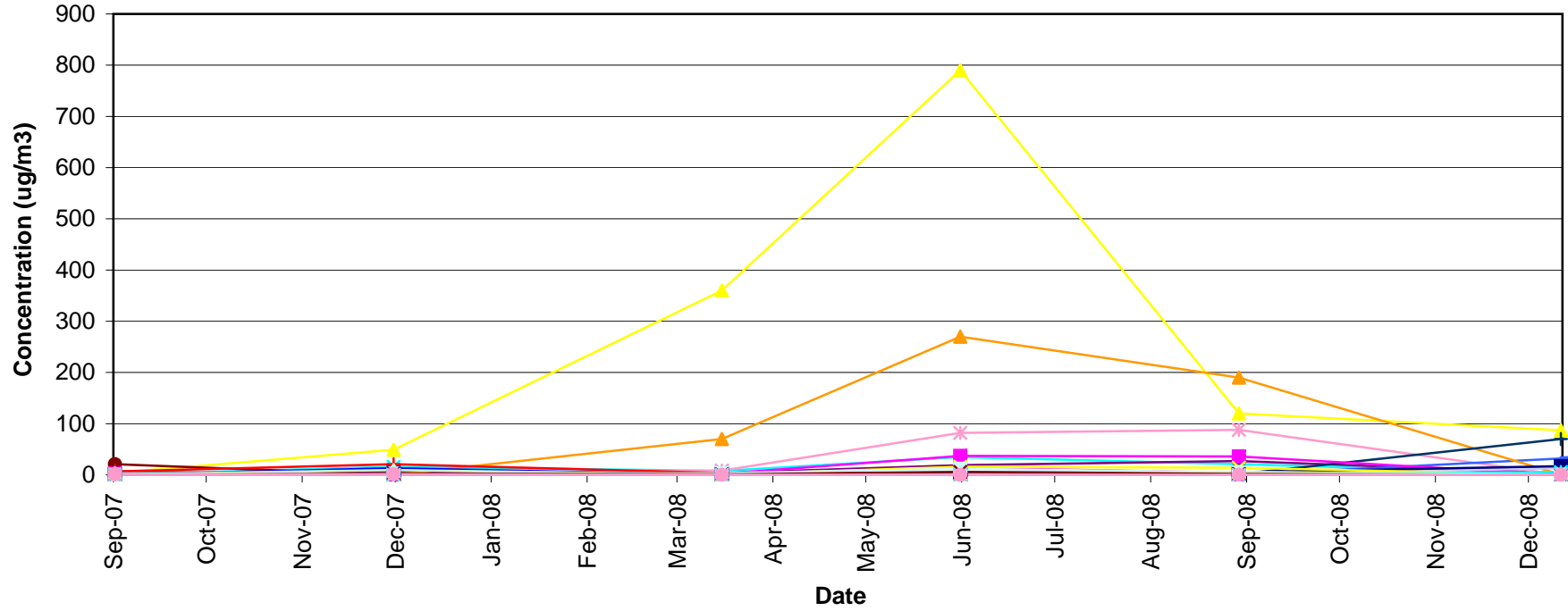


◆ Benzene	◆ Ethylbenzene	◆ Toluene	◆ Xylene, m,p-	◆ Xylene, o-
◆ Acetaldehyde	◆ Acetone	◆ Acrolein (propenal)	◆ Benzothiophene	◆ Bromodichloromethane
◆ Butadiene, 1,3-	◆ Butane	◆ Butanone, 2-	◆ Carbon disulfide	◆ Carbon tetrachloride
◆ Chlorobenzene	◆ Chloroethane	◆ Chloroform	◆ Chloromethane	◆ Cryofluorane
◆ 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. 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. 3  
 Bay Shore/Brightwaters Former MGP Site  
**OU3SG01 BTEX**

