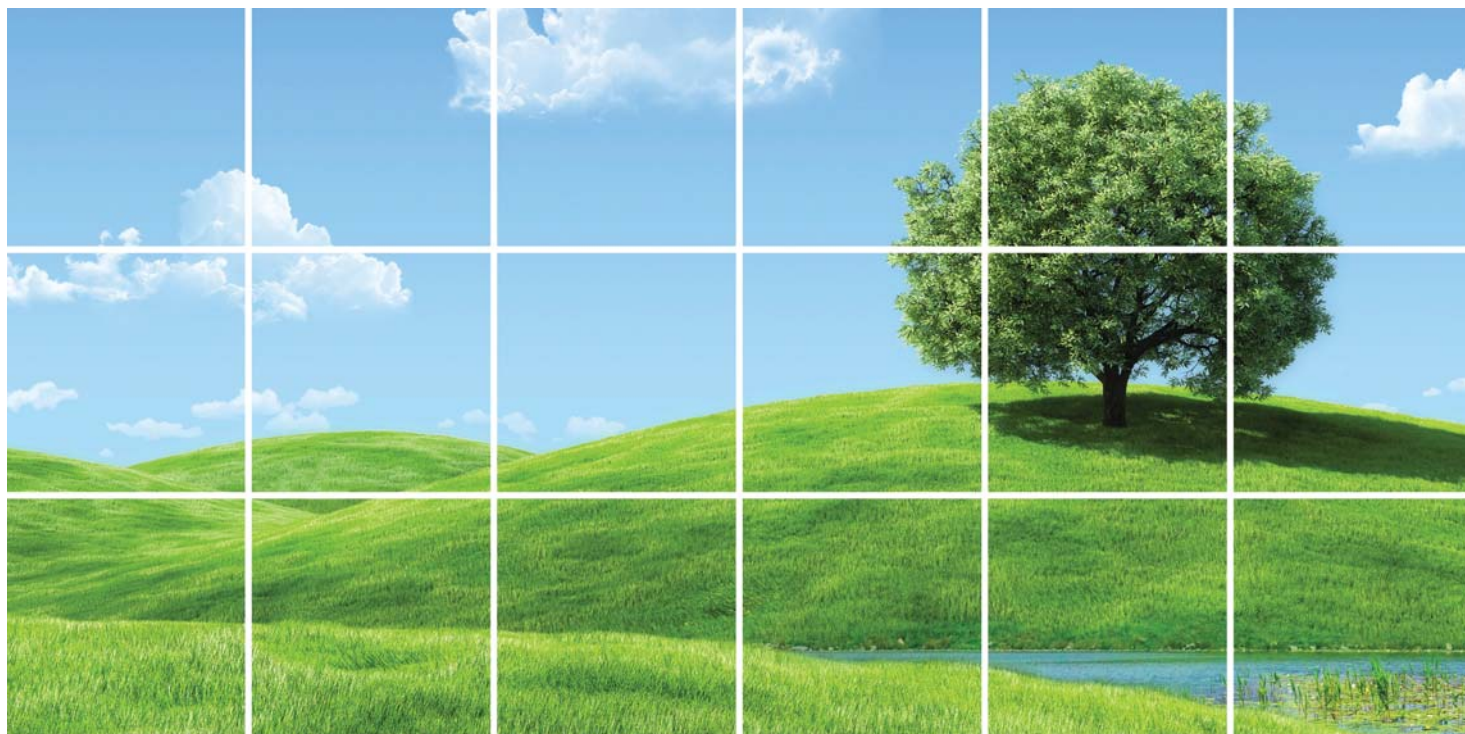




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ANNUAL COMPLIANCE REPORT

EAST PLANT AREA TSCA VAULT
CALENDAR YEAR 2012
EPA ID# IND006036099

Disclaimer – Please note, Conestoga-Rovers & Associates, Inc. (CRA) changed its name to GHD Services Inc. (GHD) on July 1, 2015. This document was originally submitted under the CRA name prior to this date. However, in the interest of continuity, the CRA name shall remain on this document after July 1, 2015.

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LIST OF TERMS AND ACRONYMS

AFOS	above the floor of sump
Approval(s)	U.S. EPA and IDEM PCB Risk-Based Disposal Approvals
CA	Corrective Action
CFR	Code of Federal Regulations
CRA	Conestoga-Rovers & Associates, Inc.
CET	Castings, Engines, and Transmissions
EI	Environmental Indicator
EQ tank	equalization tank
FA	financial assurance
Facility	GM CET Bedford Facility in Bedford, Indiana
ft	foot/ feet
GM	General Motors LLC
GUS	gravel underdrain system
HASP	Health and Safety Plan
IDEM	Indiana Department of Environmental Management
IM	Interim Measure
LCS	leachate collection system
LDS	leak detection system
MCL	Maximum Contaminant Level
mg/kg	milligram-per-kilogram
mg/L	milligram-per-liter
NAPL	non-aqueous phase liquid
NPDES	National Pollutant Discharge Elimination System
PCB	Polychlorinated biphenyl
PCP	Post-Closure Plan
ppm	part per million
QAPP	Quality Assurance Project Plan
RA	Removal Action
RCRA	Resource Conservation and Recovery Act
Report	East Plant Area Vault Annual Compliance Report Covering the Calendar Year of 2012
SSC	Site Source Control
TSCA	Toxic Substance Control Act
U.S. EPA	United States Environmental Protection Agency
Vault	East Plant Area TSCA landfill vault
VOCs	volatile organic compounds
WTP	water treatment plant
µg/L	microgram-per-liter

1.0 INTRODUCTION

This Annual Compliance Report (Report) summarizes data from the calendar year of 2012 for the Toxic Substances Control Act (TSCA) landfill vault (Vault), located in the East Plant Area (Figure 2.1) of the General Motors LLC (GM) Castings, Engines, and Transmissions (CET, formerly Powertrain) Bedford Plant (Facility), in Lawrence County, Bedford, Indiana. This Report has been prepared by Conestoga-Rovers and Associates, Inc. (CRA) on behalf of GM in accordance with Condition 27 of the Conditions of Approval, presented in both the Risk-Based Polychlorinated Biphenyl (PCB) Disposal Approval, and the TSCA Approval to Dispose PCBs (Approvals) issued by the Indiana Department of Environment Management (IDEM) and United States Protection Agency (U.S. EPA), respectively, on October 26, 2006, for the Vault. The Vault is a part of the cleanup activities being conducted at the Facility under the East Plant Area Interim Measure (IM) and concurrent with other IMs at the Facility. The Approvals were effective October 26, 2006, and were issued pursuant to 40 Code of Federal Regulations (CFR) § 761.61 (c) for the risk-based approval for disposal of PCB contaminated waste in the Vault.

Final closure of the Vault occurred on March 27, 2012. A Post-Closure Plan (PCP) was submitted to U.S. EPA on February 3, 2012, which stated that the quantity of liquid collected from the leachate collection system (LCS), leak detection system (LDS), and gravel underdrain system (GUS), the water elevations in these systems, analytical results from samples collected from these systems, and effluent quantity/quality from the water treatment plant (WTP) will continue to be recorded; however, the frequency would be reduced to monthly, or less as described in the PCP. Generally, recording of levels continues to be daily during periods where the automation has been disabled. Consistent with the recently submitted PCP, the next annual report covering post-closure monitoring data for the calendar year of 2013 will be submitted to U.S. EPA on or before July 15, 2014.

1.1 PURPOSE AND ORGANIZATION OF REPORT

This Report presents the requirements for current annual reporting in compliance with the conditions of the Approvals by U.S. EPA and IDEM for the Vault.

This Report is organized as follows:

Section 2.0 – Summary of Record Keeping Log

This section provides a summary of the daily waste/soil information, quantity of liquid collected from the LCS, LDS, and the GUS, water elevations in the GUS and over the primary liner, and the amount of water removed from the Vault, and the volume of water treated in the Site Source Control (SSC) WTP.

Section 3.0 – Analytical Results

This section provides all analytical results from the monitoring of the air, groundwater, LCS, LDS, GUS, and the water treatment facility.

Section 4.0 – Leachate and Leak Detection Water Disposal

This section provides details related to the volume, PCB concentration, and disposal for leachate and leak detection water with a PCB concentration equal to or greater than ($\geq$) 1 part per million (ppm).

Section 5.0 – Summary of Water Elevations

This section provides a summary of the water elevations over the primary liner and in the GUS.

Section 6.0 – Spill Cleanup Reports

This section identifies any PCB spill cleanups if they occurred outside of the Exclusion Zone established in accordance with the Site Health and Safety Plan (HASP).

Section 7.0 – Financial Assurance

This section discusses the future financial assurance for the Vault.

Section 8.0 – References

This section presents references cited in this Report.

2.0 SUMMARY OF RECORD KEEPING LOG

The following information was recorded as required by Condition 25 of the Approvals:

- a) Daily waste information:
 - i) Identification of the source of excavated material
 - ii) Estimated quantity of material excavated and placed in the Vault
- b) The quantity of liquid collected from the LCS
- c) The quantity of liquid collected from the LDS
- d) The quantity of liquid collected from the underdrain
- e) The water elevations in the underdrain and over the primary liner
- f) The amount of water (liquid) treated in the water treatment facility and the PCB concentration (if known)

2.1 DAILY WASTE INFORMATION SUMMARY

Placement of all the ≥ 50 milligram-per-kilogram (mg/kg) PCB impacted soil within the Vault was completed on September 27, 2008. A summary of the daily waste information for all PCB material placed in the Vault was presented in the Annual Compliance Report for the East Plant Area Vault Covering Calendar Years 2006, 2007, and 2008 (CRA, June 2009), which was submitted to U.S. EPA on June 24, 2009. No waste was generated for the Vault in 2012 and since it is closed, no waste will be generated in 2013. Following the closure of the Vault on March 27, 2012, daily waste summaries will not be reported in the 2013 Annual Monitoring Report as per the PCP reporting requirements.

2.2 SUMMARY OF LCS, LDS, AND UNDERDRAIN SYSTEM LOGS

The water levels in the LCS, LDS, and GUS have been monitored on a daily basis since the start of operation commencing on August 30, 2006; with the exception that water levels were not recorded on weekends (i.e., Saturday and/or Sunday) or holidays, and with additional exceptions due to weather, access limitations, equipment malfunctions, and for the period of March 7 to May 31, 2012 during which time the operation of the LCS and GUS was automated. The locations of the LCS, LDS, and GUS manholes can be found on Figure 2.1. Summaries of the daily water levels for the LCS, LDS, and GUS are presented in Tables 2.1, 2.2, and 2.3, respectively. This monitoring was done on a daily basis by Severson Environmental Services as part of their East Plant Area construction

activities and reported to CRA when pumping was being performed manually, or recorded by the automated systems located within the on-Facility SSC WTP when the pumping system was automated. A summary of the maximum water elevation in each of the systems for each month of 2012 is presented in Table 2.4. Further discussion regarding the water elevations can be found in Section 5 of this Report.

2.3 SUMMARY OF WATER TREATED IN THE WATER TREATMENT FACILITY

Water removed from the Vault sumps is directed via permanent forcemain to the equalization tank (EQ tank) located south of the on-Facility SSC WTP, where it is combined with water from three groundwater collection system wet wells prior to treatment in the WTP. The on-Facility WTP is sampled monthly under the National Pollutant Discharge Elimination System (NPDES) permit (NPDES Permit No. IN0003573) to discharge at Outfall 003 and data collected during the 2012 calendar year were reported according to the permit.

The amount of water treated in and discharged from the SSC WTP is recorded daily. A summary of the total monthly volume and daily average of treated water in the SSC WTP for 2012 is provided in Table 2.5.

3.0 ANALYTICAL RESULTS

All sampling and analysis was performed in accordance with the Quality Assurance Project Plan (QAPP) Addendum No. 2 (CRA, July 19, 2006) for the Resource Conservation and Recovery Act (RCRA) Corrective Action (CA) Work Plans and IMs, and the Removal Action (RA) Work Plans.

3.1 AIR MONITORING ANALYTICAL RESULTS

The air monitoring program was terminated on October 7, 2008, as approved by U.S. EPA (formal request was submitted October 29, 2008). No perimeter air monitoring was conducted for Vault activities performed in 2012.

3.2 GROUNDWATER MONITORING ANALYTICAL RESULTS

The East Plant Area Vault is located downgradient of Area of Interest 21 area 2 (AOI 21-2), a former fill area remediated as part of the West Plant Area IM (see Figure 2.1). Delineation of the fill in this area identified material that was impractical to remove due to proximity of the road (GM Drive) and 10-inch gas supply line (west of road) within the identified fill limits. As approved by U.S. EPA in the removal work plan for AOI 21-2, some ≥ 50 mg/kg PCBs fill material remains upgradient of the Vault GUS west of GM Drive. As a result, it is expected that water removed from the GUS sump is impacted. Water pumped from the GUS is therefore treated at the on-Site water treatment plant (WTP). Further, portions of the East Plant Area Cover System surrounding the Vault, contain fill materials impacted by PCBs. Therefore the groundwater in the GUS is already contaminated and monitoring it would not be a reliable way to check for changed conditions in the Vault.

As impacts were anticipated to already exist in the water from the GUS, groundwater sampling proximate to the TSCA Vault did not occur through 2012. Groundwater samples are collected at the perimeter of the Facility on a semi-annual basis under the Environmental Indicator (EI) CA750 monitoring program, which is part of the RCRA CA for the Facility. Groundwater sampling locations, under the EI CA750, in the vicinity of the Vault are presented on Figure 3.1. Sampling of the GUS and corehole 9-4 are completed during the EI CA750 monitoring as of 2015 and 2014, respectively.

The first semi-annual EI CA750 groundwater sampling in 2012 was completed July 11 through July 12, 2012, and the second semi-annual sampling event was completed December 17 through December 19, 2012.

The first semi-annual EI CA750 groundwater sampling event of 2012 resulted in the detection of PCBs at seven sampling locations (MW-X047Y236, MW-X060Y304, MW-X085Y070S-2, MW-X227Y054, MW-X277Y100, MW-X315Y150, and Tributary 3-3) at total PCB concentrations of 0.095 J, 0.22, 0.348 J, 9.8, 0.29, 0.061 J (0.065 J duplicate), and 0.13 J microgram-per-liter ($\mu\text{g/L}$), respectively. MW-X060Y304, MW-X277Y100, and Tributary 3-3 each had a previous detection noted during the December 2011 sampling event. MW-X047Y236 and MW-X315Y150 both had prior detections in October/November 2008. Non-aqueous phase liquid (NAPL) has historically been observed at MW-X227Y054. Detections at other wells with previous recent detections (CH-42, CH-42A, CH-43, CH-44, and MW-X315Y115) were not observed during this event. With the exception of the total PCBs result from MW-X227Y054, the concentrations of total PCBs during this sampling event were below the Maximum Contaminant Level (MCL) of $0.5 \mu\text{g/L}$. Analytical results for PCBs for the first semi-annual sampling event of 2012 is summarized in Table 3.1. Figure 3.2 presents databoxes which summarize the groundwater and surface water analytical results for the PCBs sampling locations in the EI CA750 monitoring program for the first semi-annual sampling event of 2012. No PCB detections were proximate to the Vault.

The second semi-annual EI CA750 groundwater sampling event of 2012 resulted in the detection of PCBs at two sampling locations, MW-X227Y054 ($3.5 \text{ J } \mu\text{g/L}$) and MW-X277Y100 ($0.066 \text{ J } \mu\text{g/L}$). MW-X227Y054 and MW-X277Y100 had a previous detection noted during the first semi-annual sampling event in July/August 2012. NAPL has historically been observed at MW-X227Y054. Detections at other wells with detections during the previous recent EI CA750 monitoring event (MW-X047Y236, MW-X060Y304, MW-X085Y070S-2, MW-X277Y100, MW-X315Y150, and Tributary 3-3) were not observed during this event. With the exception of the total PCBs result from MW-X227Y054 which has a historical NAPL detection, the concentrations of total PCBs during this sampling event were below the MCL of $0.5 \mu\text{g/L}$. Analytical results for PCBs for the second semi-annual sampling event of 2012 are summarized in Table 3.2. Figure 3.3 presents databoxes which summarize the groundwater and surface water analytical results for the PCB sampling locations in the EI CA750 monitoring program for the second semi-annual sampling event of 2012. No PCB detections were proximate to the Vault.

3.3 LEACHATE AND LEAK DETECTION WATER MONITORING ANALYTICAL RESULTS

Water from the LCS and LDS was sampled monthly for PCBs before being sent to the SSC WTP, as required by Condition 8 of the Approval. All analytical data for samples collected from the LCS and LDS in 2012 are presented in Tables 3.3 and 3.4, respectively. The LCS samples were analyzed for volatile organic compounds (VOCs) and PCBs, while LDS samples were only analyzed for PCBs. No samples collected from the LCS and LDS exhibited results with PCB concentrations ≥ 1 milligram per liter (mg/L), therefore there was no TSCA material to report, in compliance with the October 26, 2006, approval, and the PCP. All water pumped from the LCS and LDS was treated in the on-Facility SSC WTP during 2012.

3.4 UNDERDRAIN ANALYTICAL RESULTS

There were no samples collected from the GUS in 2012. Perforated drain pipes beneath the base of the Vault collect bedrock groundwater beneath the Vault and direct it to a sump located outside (i.e., north side) the Vault footprint, and connect into the sidewall of the vertical riser pipe approximately one foot above the base elevation of the GUS sump. Groundwater collected in the GUS sump was directed for treatment at the SSC WTP. Analytical results for samples collected from the SSC WTP are discussed in the following section.

The lack of sampling at the GUS is largely due to its location, downgradient of the ≥ 50 mg/kg PCBs fill material within AOI 21-2. As a result, it is expected that water removed from the GUS sump is already impacted and, consequently, water pumped from the GUS is treated at the SSC WTP.

On January 23, 2007, baseline water samples for initial characterization were obtained from the GUS by The Mannik and Smith Group, on behalf of Severson Environmental Services (SES); the results contained a concentration of 10.623 $\mu\text{g/L}$ for total PCBs. CRA sampled MW-X143Y193CG, located within AOI 21-2, in January 2008 with a result of 2.978 $\mu\text{g/L}$ for total PCBs, which is greater than the results observed in the LCS in 2013. As a result, chemical analysis of water sampled within the GUS cannot be utilized as an indicator of potential releases of leachate into the groundwater.

Groundwater beneath the impacted portions of the East Plant Area downgradient of the Vault is currently collected by seep and spring collection systems (specifically Wet Well 3) installed prior to the East Plant Area IM Final Cover System construction.

Shallow groundwater collected by these systems is treated at the SSC WTP. In the future, a bedrock groundwater collection trench will be constructed at the perimeter of the East Plant Area, to intercept potentially contaminated groundwater leaving the Site. Treated effluent from the SSC WTP is sampled monthly under the NPDES permit (NPDES Permit No. IN0003573) and discharged at Outfall 003.

Groundwater monitoring at the perimeter of the East Plant Area is currently conducted bi-annually through the EI CA750 monitoring program. A Facility-wide long-term groundwater monitoring program or Addendum to the Vault Post-Closure Plan will be submitted before the EI CA750 groundwater monitoring program is concluded.

As a result, CRA believes that with respect to potential environmental impacts, maintaining sampling at the perimeter of the Vault (currently completed under the EI CA750) is the best course of action for monitoring downgradient changes to groundwater quality, as groundwater concentrations in the immediate vicinity of the Vault are not anticipated to differ in chemical composition or concentrations from those found in the LCS and LDS; however, the GUS will be sampled as part of the EI CA750 monitoring program, per U.S. EPA request, to assess ongoing conditions. It should be noted, however, due to potential upgradient contamination, analytical detections of PCBs in the water from the GUS sump would not directly provide a suitable surrogate for leachate release. Corehole 9-4, CH-20, and CH0-23 have also been added to the CA750 monitoring program. For similar reasons to those given for the GUS sump, it is expected that data from corehole 9-4 (located downgradient of the Vault) will be difficult to relate sample results to the Vault. This corehole was installed in one of two delineated areas with ≥ 50 mg/kg PCBs in the East Plant Area deemed impractical to excavate due to potential structural impacts to the storm water pond during excavation. It is also located downgradient of AOI 21-2.

3.5 WATER TREATMENT FACILITY ANALYTICAL RESULTS

In 2012, water removed from the LCS, LDS, and GUS was directed via permanent forcemain to the SSC WTP for treatment. Monthly samples were collected from the SSC WTP, under the NPDES permit (NPDES Permit No. IN0003573) prior to discharge at Outfall 003, and the data have been reported according to the permit. The analytical results for monthly samples collected from the SSC WTP effluent in 2012 are presented in Table 3.5.

4.0 LEACHATE AND LEAK DETECTION WATER DISPOSAL

There were no analytical results with ≥ 1 mg/L PCBs for water samples collected from the LCS or LDS during the calendar year of 2012. All of the pumped leachate, leak detection, and groundwater were treated by the on-Facility WTP.

5.0 SUMMARY AND REVIEW OF WATER ELEVATIONS

The GUS sump operation levels are set to maintain a water level below the secondary (lower) liner, which is intended to prevent groundwater contact with the secondary liner, consistent with the requirement of the Approvals. The GUS was designed and installed below the liner system so that the water levels below the Vault could be controlled to ensure groundwater levels would not exert hydraulic head beneath the bottom liner and potentially uplift the system during bottom liner construction and initial filling of the Vault. Now that filling of the Vault is completed, uplift of the liner system is no longer possible (i.e., weight of fill material would offset hydraulic uplift pressure), and from this technical perspective, the GUS is no longer required. The LDS and LCS were constructed above the GUS within the depression formed from the underlying bedrock formation on the north edge of the Vault footprint.

Maximum water elevations in the sump systems were observed in the LCS and GUS at the end of 2011, which coincided with the removal of the temporary discharge lines in preparation for final grading and installation of the permanent discharge system. Water level monitoring continued during this time, but since pumping could not occur until the permanent discharge lines were installed, water elevations in the sumps increased above the normal operating levels. During this time, the greatest level increase was observed in the GUS. It should be noted that during this time, the water level elevations in the GUS, LCS, and/or LDS sumps did not correlate or reach an equilibrium, providing evidence that each of the collection systems are independent of one another and without a connection between any of the systems.

The water level above the primary liner (LCS), the secondary liner (LDS) and GUS continued to be monitored daily (holidays and weekends excepted) throughout most of 2012, with the exception of a period from March 6 to May 31, 2012, at the LCS and GUS when the automated controls at the SSC WTP for the LCS and GUS were operational (i.e., pumps were operated remotely, not manually). Water levels in the LCS and GUS were to be recorded remotely at the SSC WTP while the automated controls were in operation, however, a failure of the equipment occurred that prevented recording the data.

Accumulated water continues to be transported via forcemain and discharged for treatment to the on-Facility SSC WTP, as required in the October 26, 2006 Approval and subsequent PCP. In addition, the LDS is monitored and manually pumped into the LCS, when necessary, to maintain the levels below the base of the Vault. As previously described in Section 2.2, a summary of the water elevations above the primary liner (LCS), in the LDS, and in the GUS are presented in Tables 2.1, 2.2, and 2.3, respectively.

Summaries of the maximum monthly water elevations in each system are presented in Table 2.4. A summary of the average monthly volume of water removed from the LCS and the LDS since initial operation of the systems is presented on Figure 5.1.

5.1 LEACHATE COLLECTION SYSTEM

Pumping of water in the LCS did not occur during January and February 2012 due to removal of the temporary discharge lines during final grading activities, which also allowed water to accumulate within the LCS for calibration of the automated systems. Automated pumping systems were activated in the LCS in March 2012 and were designed to operate between 1 foot (ft) and 3 ft depths above the base of the sump (69.83 ft to bottom). The automated system was active starting March 6 to June 1, 2012, with additional manual operation completed on March 3, March 5, and June 22, 2012 based on water levels measured in the sump. The maximum depth above the floor of sump (AFOS) was 10.1 ft before turning the pumps on in March 2012, with a maximum depth AFOS of 2.7 ft after the initial pump down had been completed in May 2012. The minimum depth was approximately 0.2 ft AFOS and occurred following the pumping on June 22, 2012.

Active, automated pumping was completed over a limited range of dates due to hardware and radio communication problems between the SSC WTP and the Vault. The communication problems appear to have been related to lightning or other electro-static discharge. During this automated time period, the SSC WTP systems failed to record any meaningful flow data; however, changes in water levels and periodic observations of the pump operations are consistent with previous pump operations. Based on volumes calculated from level measurements, the total estimated volume evacuated from the LCS in 2012 is an estimated 2,200 gallons.

5.2 LEAK DETECTION SYSTEM

Pumping at the LDS, via a temporary pump discharging to the LCS, occurred on twelve occasions in 2012 (February 7, 8, 9, 16, 20, and 27; March 16; April 13, and 24; May 25; August 29; and December 8), with the first two occasions (Feb. 7 and 8) removing 2.5 ft (approximately 600 gallons) or more, with subsequent pumping generally removing approximately 1.6 ft (approximately 300 gallons). The total amount of water removed from the LDS during 2012 was approximately 3,800 gallons. During 2012, the depth of water in the LDS was typically maintained between 1.30 and 2.50 ft of water AFOS (bottom of sump 73.00 ft below the top of the riser), with the maximum depth measured

at 3.3 ft at the beginning of 2012 due to the inability to access the LDS for pumping until early in 2012, due to the final stages of construction.

Any potential leaks within the primary liner can be interpreted from a significant change in the recovery time of the static water level within the LDS, continuous pumping of the LDS at sustained rates, or a correlation of the static water levels in the LDS relative to either the GUS or LCS. The correlation of static water levels was evaluated during the period of infrequent pumping in 2011 and 2012 (coincident with removal of the temporary piping system and installation of the permanent system). During this period, water levels in the LCS and GUS varied, while the LDS level remained relatively static for most of the period. During this time period, water within the LDS continued to consolidate into the sump (e.g., continued discharge from the upgradient clay layer, condensation within the sump, etc.) and, when this volume was evacuated, it left an appearance of increased volume due to this accumulated storage. In addition, during 2012, the LDS was pumped more frequently than previous years (2010 and 2011), which led to an appearance of increased volume. Once the rate of water entering the sump decreased, volumetric water levels were observed to decrease.

5.3 GRAVEL UNDERDRAIN SYSTEM

A permanent pump (3-foot long vertical pump) was installed in the underdrain sump in November 2008, which requires the pump to remain submerged by at least 2 ft of water at all times in order to prevent overheating of the pump motor. The water depth in the GUS was maintained between approximately 2 ft and 6 ft through 2012. A submersible pump was installed in the GUS within a 6-inch steel riser as part of the permanent discharge system. The submersible pump was initially programmed to operate such that an approximately 0.3 feet buffer would be maintained between the water level in the sump and the lowest point of the secondary liner and would pump the water level down when the water level reached 2 feet above the floor of the sump. With the exception of the beginning of 2012 when pumping could not occur, the water level in the GUS was maintained below the lowest point of the secondary liner throughout 2012. The water level rose slightly above the upper operating level of the automated system between August and October 2012 due to problems with the automated system described above. The automated system was active starting March 3 to May 7, and November 1 to 20, 2012.

The highest level was recorded in February prior to the activation of the pump at 7.1 ft. This water depth within the GUS sump did not result in a hydrostatic pressure great enough to lift the liner and does not appear to have resulted in infiltration to the LDS or

LCS as equilibrium of the water elevations between each of the sump systems did not occur during extended non-active pumping periods. Higher measurements during non-active pumping periods likely represent the typical groundwater level beneath the Vault. Active, automated pumping was completed over a limited range of dates due to hardware and radio communication problems between the on-Facility WTP and the Vault, which appears related to lightning or other electro-static discharge. The automated on-Facility WTP systems recorded a total flow of 786,878 gallons, however no flow was recorded by the system for November 17 through 20, even though the pump was visually observed to be operating on November 19 and 20. Based on the pumping rates observed during the earlier part of November, a conservative estimate of an additional 25,100 gallons may have been pumped during this time period for a total of approximately 812,000 gallons.

6.0 ISSUES ENCOUNTERED AND REMEDIAL ACTIONS

The following is a list of Vault related issues that were encountered during the 2012 calendar year and the corresponding actions taken to rectify these issues:

- The initial start-up of Vault radio-based communications occurred in Feb./Mar. 2012.
 - In June 2012, the radio within Wet Well #3 (WW3) was unresponsive and subsequently returned to Prosoft for repair.
 - Later in June 2012, the Vault's antenna was struck by an unidentified object (e.g., animal, wind) and consequently rotated away from the targeted area. In addition, the omni-directional antenna was found missing from the top of the antenna mast and was assumed to be struck by lightning, as no pieces were found.
 - Following electrician consultation, the antenna and surge protector were replaced in June/July 2012; however, Vault communication issues persisted into November 2012.
 - Alternative technologies were evaluated and a cellular-based system was ultimately selected and has since been installed on Site. It was observed that the cellular-based system was able to resolve and mitigate prior issues.
 - Manual water level sampling of the GUS, LCS and LDS, using a water level tape, was adopted while communication issues were ongoing.
- Maximum water elevations in the sump systems were observed in the LCS and GUS at the end of 2011. Final grading of the East Plant Area Cover System (Cover System) adjacent to the Vault was taking place at that time, which caused the removal of the temporary discharge lines for final grading and the subsequent installations of the permanent discharge system. Water level monitoring continued during this time, but since pumping could not occur until the permanent discharge lines were installed, water elevations in the sumps increased above the normal operating levels. The greatest level increase was observed in the GUS. It should be noted that during this time the GUS, LCS, and LDS water elevations never correlated or reached an equilibrium, providing evidence that each of the collection systems are independent of one another and there is no connection between these systems.
- The temporary bottom-feed pumps utilized in the GUS during construction of the Vault were capable of drawing water down to within a few inches of the bottom of the sump. However, the final design called for a pump that could overcome a vertical head of approximately 70 feet. The temporary pumps used during waste placement were not suited for permanent installation, since replacement would be

impractical without physically entering the 70-foot deep manhole. Therefore, a submersible pump with the ability to remove and replace the pump (if necessary) by mounting the pump on slide rails was specified. At the operating water levels presented in the PCP, a buffer of approximately 0.3 feet would exist between the lowest point in the secondary liner (estimated 667.5 ft AMSL) and the upper water elevation in the GUS sump. The set points for the GUS have now been lowered so the upper pump switch-on level operating level is now maintained at least 1 foot below the lower liner of the secondary system.

- As reported in the 2009 Annual Monitoring Report (CRA, 2010), the permanent pumps installed in the LCS sump in November 2008 necessitated a change in pumping procedures in order to keep the motors for the submersible pumps cool during operation. The pump initially installed in the LCS could not draw down the leachate elevation sufficiently. It was changed in 2009, to a pump which operated with water levels of 3 ft pump-on, to 1 ft pump-off. The submersible pumps in the LCS must allow at least 1 ft of water to remain in the sump at all times to maintain cooling of the pump motor during operation. Frequent operation of the pumps below this level would result in more maintenance of the pumps (i.e. the motors would frequently burn out), potentially resulting in frequent down-time where levels could rise unimpeded.

The concrete structure of the LCS sump is located in the low point of the primary liner, surrounded by a gravel layer, and pumping is operated at a depth of 1 ft to 3 ft above the base of the sump (approximated as 672 ft AMSL – 674 ft AMSL contour lines on Drawing C-04 in the Vault Construction Certification Result). The slope of the LCS contains an extended storage area of gravel within the base of the LCS, which is used as part of the sump volume within these operating levels. Of the seven acre Vault footprint, this extended sump volume (the concrete structure and gravel storage) represents 0.3 acres, or 4.3-percent of the footprint at a 3 ft depth in the sump. Based on the configuration of the primary Vault liner, this operating approach maintains the LCS at less than 1 ft of head outside of the area adjacent to the extended LCS sump basin, or effectively 0 ft of head over an estimated 96-percent of the Vault footprint. When applied to the footprint of the sump, a 2 ft depth of water in the sump corresponds to an average depth of less than 2-inches (the 674 ft AMSL contour line corresponding to a 2-ft depth in the sump represents a fill volume of approximately 31,000 cubic ft, averaged over the 7 acre footprint of the Vault or approximately 300,000 square ft, therefore the representative mean depth is $31,000 \text{ cubic ft} / 300,000 \text{ square feet} = \text{approximately } 0.1 \text{ ft} = \text{approximately } 1.2 \text{ inches}$).

7.0 SPILL CLEANUP REPORTS

As there was no PCB waste handling, there were no on-Facility PCB spills that occurred outside or inside the Exclusion Zone that was established in accordance with the project HASP (CRA, August 2008). Additionally, there were no spills on public roads.

8.0 FINANCIAL ASSURANCE

Remedial construction of the IMs for the East Plant Area, which includes the Vault, is continuing at the Facility. The Approvals from U.S. EPA TSCA and IDEM established that, "The financial assurance (FA) mechanism can be part of the financial assurance mechanism developed for the East Plant Area or the final Corrective Measures". Financial Assurance for the Facility, which includes the Vault, is currently being worked out as part of negotiations on a new RCRA Corrective Action Order for the Facility.

9.0 REFERENCES

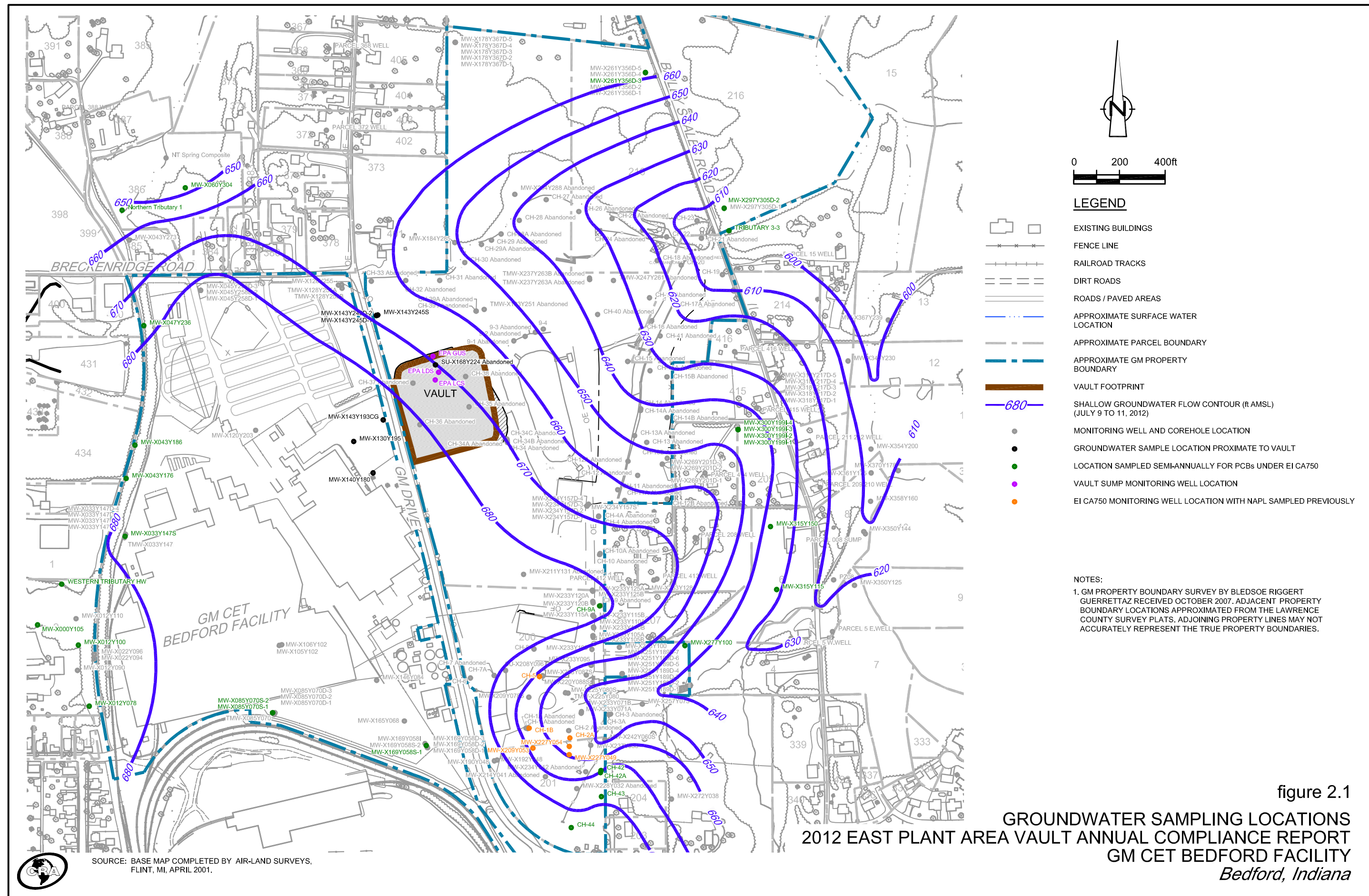
CRA, Annual Compliance Report, East Plant Area Vault, Calendar Years 2006, 2007, and 2008, June 24, 2009.

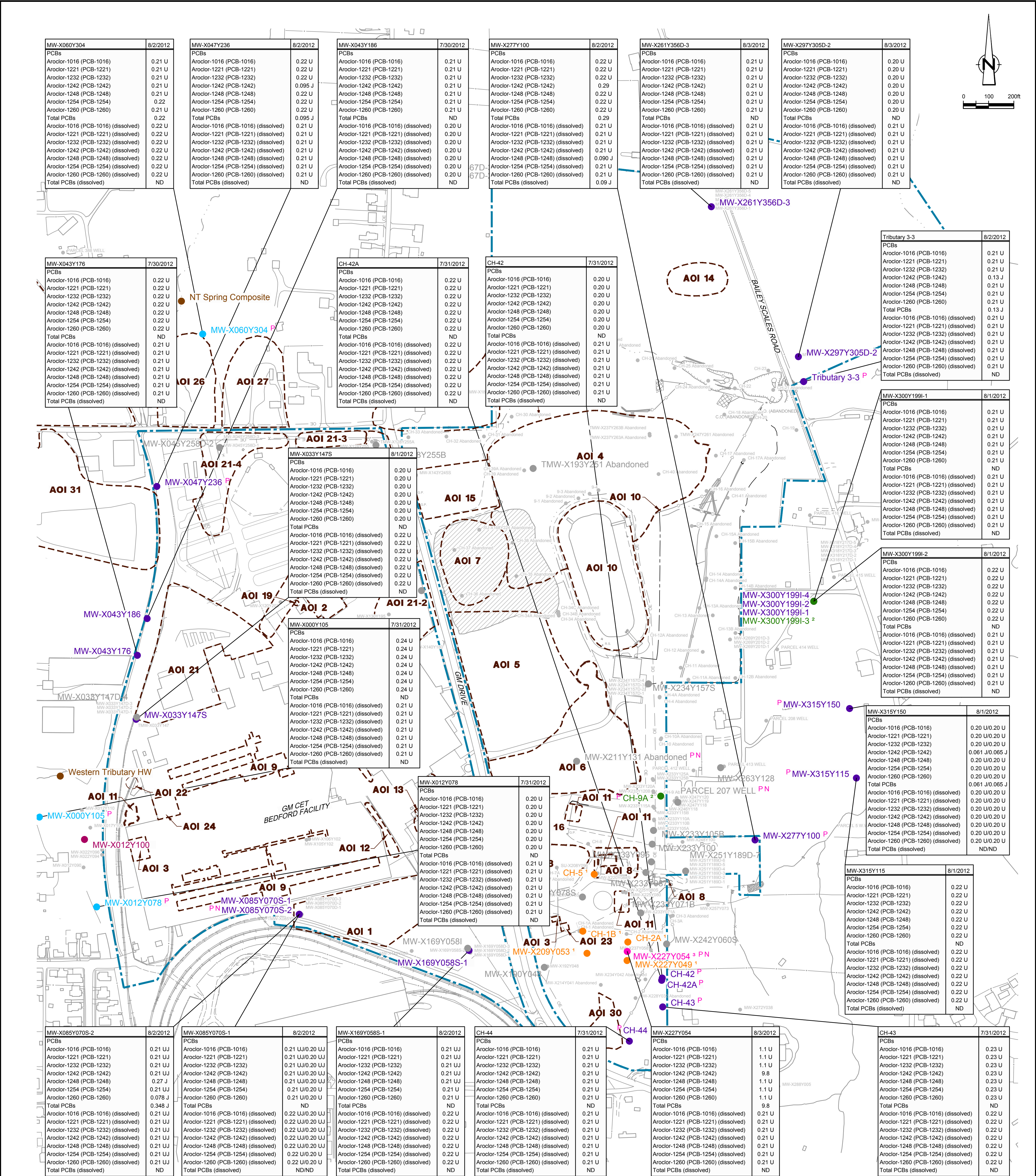
CRA, Consolidated GM Bedford Health and Safety Plan (HASP), August 2008.

CRA, Modification Request to the Ambient Air Quality Monitoring Plan (AAQMP), correspondence on October 29, 2008.

CRA, Quality Assurance Project Plan (QAPP) Resource Conservation and Recovery Act (RCRA) Facility Investigation and Removal Action Work Plan: Addendum No. 2, July 19, 2006.

CRA, Post-Closure Plan (PCP) Bedford Plant Vault, February 3, 2012.





LEGEND

- EXISTING BUILDINGS
- FENCE LINE
- RAILROAD TRACKS
- DIRT ROADS
- ROADS / PAVED AREAS
- APPROXIMATE SURFACE WATER LOCATION
- APPROXIMATE GM PROPERTY BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- AOI BOUNDARY
- VAULT FOOTPRINT
- GROUNDWATER SAMPLE LOCATION
- GROUNDWATER SAMPLE LOCATION - HISTORICAL PCB DETECTION
- JULY-AUGUST 2012 EI CA750 SAMPLING SUMMARY LOCATION
- RACER TRUST LOCATION
- RACER TRUST LOCATION SAMPLED
- RACER TRUST NAPL LOCATION PREVIOUSLY SAMPLED
- MONITORING WELL LOCATION WITH NAPL SAMPLED PREVIOUSLY
- MONITORING WELL LOCATION DRY
- MONITORING WELL DID NOT ACHIEVE PARAMETER STABILIZATION NAPL SAMPLED PREVIOUSLY

AOI SUMMARY

AOI ID	Description
AOI 1	Former Railroad Operations and Minerals Processing Facility
AOI 2	Waste Storage Area
AOI 3	PCB Storage Areas
AOI 4	Former North Disposal Area
AOI 5	Former East Sand Disposal Area
AOI 6	Former Sludge Disposal and Fire Training Area
AOI 7	Former North Lagoon and Outfall 001
AOI 8	Former South Lagoons and Outfall 002
AOI 9	Service Tunnels
AOI 10	Existing Stormwater Lagoon and Outfall 003
AOI 11	Aboveground Storage Tanks
AOI 12	Area Affected by the Reclaimed Hydraulic Fluid Release
AOI 13	Underground Storage Tanks
AOI 14	McBride Cows Disposal Area
AOI 15	Former Equipment Storage Area
AOI 16	Former East Electrical Substation
AOI 17	Piston Building Oil Accumulations
AOI 18	Area Affected by the Henry System Discharge

NOTE:

1) GM PROPERTY BOUNDARY SURVEY BY BLEDSOE RIGGERT GUERRETTAZ RECEIVED OCTOBER 2007. ADJACENT PROPERTY BOUNDARY LOCATIONS APPROXIMATED FROM THE LAWRENCE COUNTY SURVEY PLATS. ADJOINING PROPERTY LINES MAY NOT ACCURATELY REPRESENT THE TRUE PROPERTY BOUNDARIES

Revision: Date: Initial:

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved:

GM CET BEDFORD FACILITY
BEDFORD, INDIANA

2012 EAST PLANT AREA VAULT ANNUAL COMPLIANCE REPORT

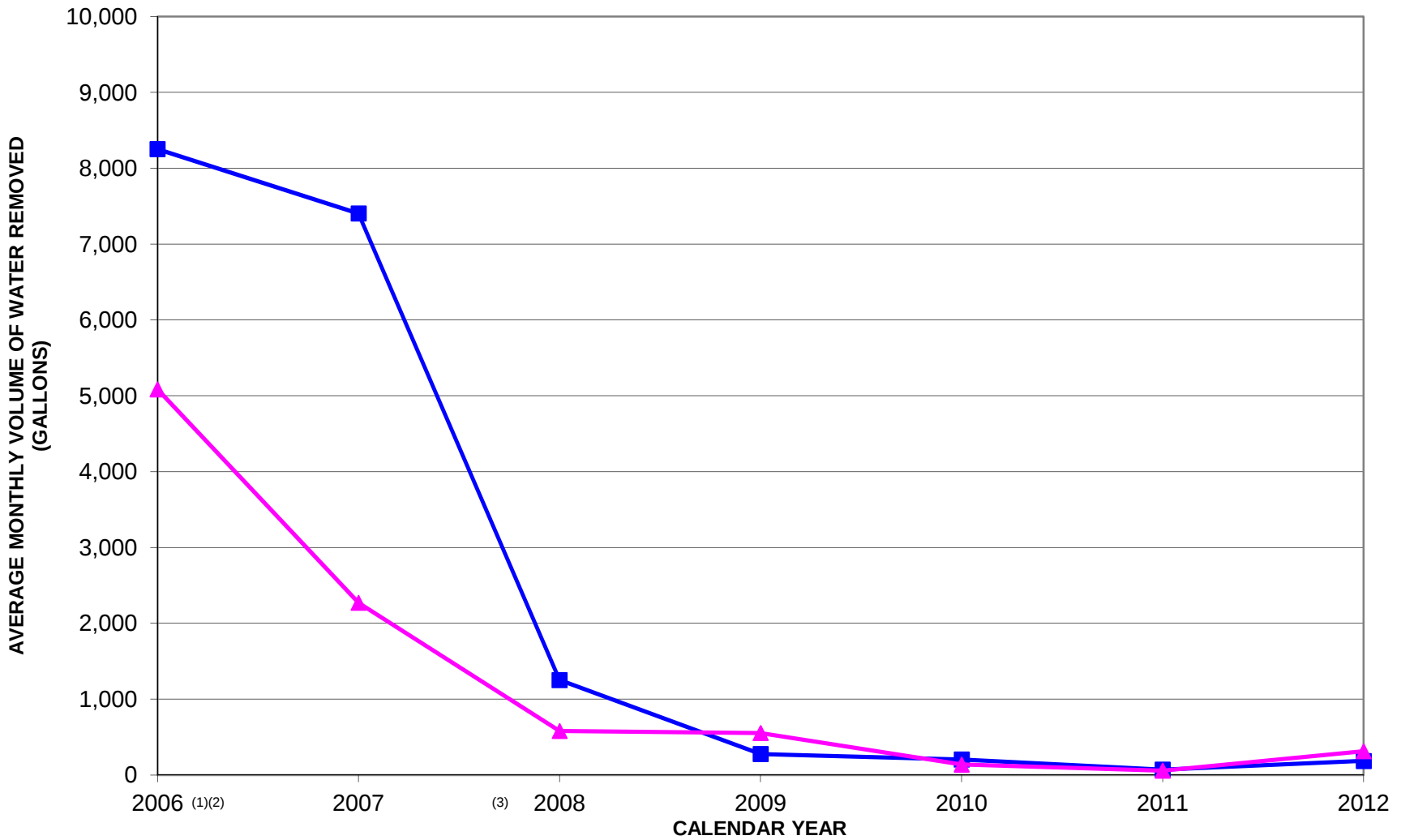
EI CA750 GROUNDWATER ANALYTICAL RESULTS
FOR PCBs FOR FIRST SEMI-ANNUAL
EVENT OF 2012

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

BASE MAP COMPLETED BY AIR-LAND SURVEYS, FLINT MI. APRIL 2001.

Project Manager:	Reviewed By:	Date:
J.M.	P.G.	OCTOBER 2006
Scale:	Project N°:	Report N°:
AS SHOWN	13968-00	364
		Drawing N°:
		figure 3.1



LEGEND

- Leachate Collection System
- ▲ Leak Detection System

NOTES

- (1) Operation of the LCS and LDS commenced on Aug. 30, 2006.
- (2) Water from the underdrain system entered the LDS Sept 8, 9, 10, 12, 2006.
- (3) Rehabilitation activities were conducted on the LDS (flushing) on Jan. 23 - June 5, 2007.

figure 5.1

SUMMARY OF AVERAGE MONTHLY VOLUME OF WATER REMOVED FROM LCS AND LDS
2012 EAST PLANT AREA VAULT ANNUAL COMPLIANCE REPORT
GM CET BEDFORD FACILITY
Bedford, Indiana



TABLE 2.1
2012 PUMPING DATA
LEACHATE COLLECTION SYSTEM (LCS)
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Date	Time of Measurement (hh:mm)	Water Level (feet BTOS)	Water Depth (feet AFOS)	Water Depth Removed (feet)	Volume Removed (gallons)	Comments
12/31/11	--	--	--	--	-478	Sump accumulation from 2011 that was not pumped prior to 1/1/12
1/1/12	--	--	--	--	--	
1/2/12	--	--	--	--	--	
1/3/12	12:20	61.3	8.5	--	--	
1/4/12	12:40	61.2	8.6	--	--	
1/5/12	9:55	61.2	8.6	--	--	
1/6/12	8:42	61.2	8.6	--	--	
1/7/12	9:34	61.2	8.6	--	--	
1/8/12	11:21	61.2	8.6	--	--	
1/9/12	8:37	61.2	8.6	--	--	
1/10/12	3:55	61.2	8.6	--	--	
1/11/12	1:43	61.2	8.6	--	--	
1/12/12	2:12	61.1	8.7	--	--	
1/13/12	1:25	61.1	8.7	--	--	
1/14/12	--	--	--	--	--	
1/15/12	--	--	--	--	--	
1/16/12	2:37	61.0	8.8	--	--	
1/17/12	1:43	61.0	8.8	--	--	
1/18/12	8:42	61.0	8.8	--	--	
1/19/12	2:35	61.0	8.8	--	--	
1/20/12	1:57	61.0	8.8	--	--	
1/21/12	--	--	--	--	--	
1/22/12	10:44	61.0	8.8	--	--	
1/23/12	1:23	61.0	8.8	--	--	
1/24/12	2:11	61.0	8.8	--	--	CRA sampled
1/25/12	3:07	61.0	8.8	--	--	
1/26/12	9:44	61.0	8.8	--	--	
1/27/12	1:31	61.0	8.8	--	--	
1/28/12	--	--	--	--	--	
1/29/12	--	--	--	--	--	
1/30/12	9:04	61.0	8.8	--	--	
1/31/12	--	--	--	--	--	
2/1/12	12:10	61.0	8.8	--	--	
2/2/12	12:24	61.0	8.8	--	--	
2/3/12	9:49	61.0	8.8	--	--	
2/4/12	--	--	--	--	--	
2/5/12	--	--	--	--	--	
2/6/12	11:06	61.0	8.8	--	--	Cannot get accurate reading due to work platforms into well catching on
2/7/12	1:45	61.0	8.8	--	-592 ^(a)	Received water from leak detection
2/8/12	11:24	61.0	8.8	--	-529 ^(a)	Received water from leak detection
2/9/12	2:14	61.0	8.8	--	-190 ^(a)	Received water from leak detection
2/10/12	11:41	61.0	8.8	--	--	
2/11/12	--	--	--	--	--	
2/12/12	--	--	--	--	--	
2/13/12	1:30	60.0	9.8	--	--	
2/14/12	1:30	60.0	9.8	--	--	
2/15/12	10:00	60.0	9.8	--	--	
2/16/12	10:45	60.0	9.8	--	-338 ^(a)	Received water from leak detection
2/17/12	10:30	60.0	9.8	--	--	
2/18/12	--	--	--	--	--	
2/19/12	--	--	--	--	--	
2/20/12	11:45	59.9	9.9	--	-338 ^(a)	Received water from leak detection
2/21/12	10:15	59.8	10.0	--	--	
2/22/12	9:35	59.8	10.0	--	--	CRA sampled
2/23/12	8:30	59.8	10.0	--	--	
2/24/12	7:30	59.8	10.0	--	--	
2/25/12	--	--	--	--	--	
2/26/12	--	--	--	--	--	
2/27/12	7:50	59.7	10.1	--	-402 ^(a)	Received water from leak detection
2/28/12	7:30	59.7	10.1	--	--	
2/29/12	7:50	59.7	10.1	--	--	
3/1/12	7:15	59.7	10.1	--	--	CRA setting up pumps
3/2/12	7:15	60.0	9.8	0.3 ^(b)	--	CRA setting up pumps
3/3/12	--	--	--	--	--	
3/4/12	--	--	--	--	--	
3/5/12	7:45	61.2	8.6	1.2 ^(b)	--	CRA setting up pumps
3/6/12	7:30	61.2	8.6	--	--	CRA has pump automated
3/7/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/8/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/9/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/10/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/11/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/12/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/13/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/14/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/15/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/16/12	--	--	--	--	-275 ^(a)	Automated pumping, no manual measurements taken, received water from leak detection
3/17/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/18/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/19/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/20/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/21/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/22/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/23/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/24/12	--	--	--	--	--	Automated pumping, no manual measurements taken

TABLE 2.1
2012 PUMPING DATA
LEACHATE COLLECTION SYSTEM (LCS)
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Date	Time of Measurement (hh:mm)	Water Level (feet BTOS)	Water Depth (feet AFOS)	Water Depth Removed (feet)	Volume Removed (gallons)	Comments
3/25/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/26/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/27/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/28/12	--	--	--	--	--	Automated pumping, no manual measurements taken; CRA sampled
3/29/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/30/12	--	--	--	--	--	Automated pumping, no manual measurements taken
3/31/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/1/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/2/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/3/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/4/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/5/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/6/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/7/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/8/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/9/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/10/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/11/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/12/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/13/12	--	--	--	--	-63 ^(a)	Automated pumping, no manual measurements taken, received water from leak detection
4/14/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/15/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/16/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/17/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/18/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/19/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/20/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/21/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/22/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/23/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/24/12	--	--	--	--	-349 ^(a)	Automated pumping, no manual measurements taken, received water from leak detection; CRA sampled
4/25/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/26/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/27/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/28/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/29/12	--	--	--	--	--	Automated pumping, no manual measurements taken
4/30/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/1/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/2/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/3/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/4/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/5/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/6/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/7/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/8/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/9/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/10/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/11/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/12/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/13/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/14/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/15/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/16/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/17/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/18/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/19/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/20/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/21/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/22/12	--	--	--	--	--	Automated pumping, no manual measurements taken; CRA sampled
5/23/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/24/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/25/12	--	--	--	--	-317 ^(a)	Automated pumping, no manual measurements taken, received water from leak detection
5/26/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/27/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/28/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/29/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/30/12	--	--	--	--	--	Automated pumping, no manual measurements taken
5/31/12	--	--	--	--	--	Automated pumping, no manual measurements taken
6/1/12	11:30	67.4	2.4	6 ^(c)	1354 ^(c)	Started checking levels manually (as per CRA request), while the automated system was inactivated for repairs.
6/2/12	--	--	--	--	--	
6/3/12	--	--	--	--	--	
6/4/12	7:30	67.3	2.5	--	--	
6/5/12	7:30	67.3	2.5	--	--	
6/6/12	10:30	67.3	2.5	--	--	
6/7/12	7:30	67.3	2.5	--	--	
6/8/12	7:30	67.3	2.5	--	--	
6/9/12	--	--	--	--	--	
6/10/12	--	--	--	--	--	
6/11/12	7:30	67.2	2.6	--	--	
6/12/12	7:30	67.2	2.6	--	--	
6/13/12	7:30	67.2	2.6	--	--	
6/14/12	7:30	67.2	2.6	--	--	
6/15/12	7:30	67.2	2.6	--	--	
6/16/12	--	--	--	--	--	
6/17/12	--	--	--	--	--	

TABLE 2.1
2012 PUMPING DATA
LEACHATE COLLECTION SYSTEM (LCS)
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Date	Time of Measurement (hh:mm)	Water Level (feet BTOS)	Water Depth (feet AFOS)	Water Depth Removed (feet)	Volume Removed (gallons)	Comments
6/18/12	7:30	67.1	2.7	--	--	
6/19/12	7:30	67.1	2.7	--	--	
6/20/12	7:30	67.1	2.7	--	--	
6/21/12	7:30	67.1	2.7	--	--	
6/22/12	7:30	69.6	0.2	2.5	529	Pumped manually
6/23/12	--	--	--	--	--	
6/24/12	--	--	--	--	--	
6/25/12	7:30	69.3	0.5	--	--	
6/26/12	7:30	69.35	0.5	--	--	CRA sampled
6/27/12	7:30	69.35	0.5	--	--	
6/28/12	6:30	69.3	0.5	--	--	
6/29/12	6:30	69.3	0.5	--	--	
6/30/12	--	--	--	--	--	
7/1/12	--	--	--	--	--	
7/2/12	6:45	69.25	0.6	--	--	
7/3/12	6:30	69.25	0.6	--	--	
7/4/12	--	--	--	--	--	
7/5/12	--	--	--	--	--	
7/6/12	--	--	--	--	--	
7/7/12	--	--	--	--	--	
7/8/12	--	--	--	--	--	
7/9/12	6:30	69.2	0.6	--	--	
7/10/12	7:30	69.2	0.6	--	--	CRA sampled
7/11/12	7:30	69.2	0.6	--	--	
7/12/12	7:30	69.15	0.7	--	--	
7/13/12	7:30	69.2	0.6	--	--	
7/14/12	--	--	--	--	--	
7/15/12	--	--	--	--	--	
7/16/12	7:30	69.1	0.7	--	--	
7/17/12	7:30	69.1	0.7	--	--	
7/18/12	10:15	69.1	0.7	--	--	
7/19/12	7:30	69.1	0.7	--	--	
7/20/12	6:30	69.1	0.7	--	--	
7/21/12	--	--	--	--	--	
7/22/12	--	--	--	--	--	
7/23/12	6:30	69.1	0.7	--	--	
7/24/12	7:00	69.1	0.7	--	--	
7/25/12	6:30	69.0	0.8	--	--	
7/26/12	6:30	69.0	0.8	--	--	
7/27/12	7:00	69.0	0.8	--	--	
7/28/12	--	--	--	--	--	
7/29/12	--	--	--	--	--	
7/30/12	6:30	69.0	0.8	--	--	
7/31/12	6:30	68.95	0.9	--	--	
8/1/12	6:30	68.95	0.9	--	--	
8/2/12	7:00	68.95	0.9	--	--	
8/3/12	7:00	68.90	0.9	--	--	
8/4/12	--	--	--	--	--	
8/5/12	--	--	--	--	--	
8/6/12	7:30	68.90	0.9	--	--	
8/7/12	9:00	68.90	0.9	--	--	
8/8/12	10:15	68.85	1.0	--	--	
8/9/12	8:15	68.85	1.0	--	--	
8/10/12	7:30	68.85	1.0	--	--	
8/11/12	--	--	--	--	--	
8/12/12	--	--	--	--	--	
8/13/12	1:45	68.8	1.0	--	--	
8/14/12	8:00	68.8	1.0	--	--	
8/15/12	8:00	68.8	1.0	--	--	
8/16/12	8:00	68.8	1.0	--	--	
8/17/12	1:30	68.8	1.0	--	--	
8/18/12	--	--	--	--	--	
8/19/12	--	--	--	--	--	
8/20/12	8:00	68.7	1.1	--	--	
8/21/12	12:00	68.7	1.1	--	--	CRA sampled
8/22/12	7:30	68.7	1.1	--	--	
8/23/12	7:30	68.7	1.1	--	--	
8/24/12	7:30	68.6	1.2	--	--	
8/25/12	--	--	--	--	--	
8/26/12	--	--	--	--	--	
8/27/12	1:30	68.6	1.2	--	--	
8/28/12	7:30	68.6	1.2	--	--	
8/29/12	1:00	68.6	1.2	--	-338 ^(a)	Received water from leak detection
8/30/12	11:00	68.6	1.2	--	--	
8/31/12	9:00	68.6	1.2	--	--	
9/1/12	--	--	--	--	--	
9/2/12	--	--	--	--	--	
9/3/12	9:30	68.5	1.3	--	--	
9/4/12	8:00	68.5	1.3	--	--	
9/5/12	7:30	68.5	1.3	--	--	
9/6/12	8:00	68.5	1.3	--	--	
9/7/12	7:30	68.5	1.3	--	--	
9/8/12	--	--	--	--	--	
9/9/12	--	--	--	--	--	
9/10/12	8:30	68.4	1.4	--	--	

TABLE 2.1
2012 PUMPING DATA
LEACHATE COLLECTION SYSTEM (LCS)
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Date	Time of Measurement (hh:mm)	Water Level (feet BTOS)	Water Depth (feet AFOS)	Water Depth Removed (feet)	Volume Removed (gallons)	Comments
9/11/12	7:45	68.45	1.4	--	--	
9/12/12	7:45	68.45	1.4	--	--	
9/13/12	8:00	68.4	1.4	--	--	
9/14/12	7:30	68.4	1.4	--	--	
9/15/12	--	--	--	--	--	
9/16/12	--	--	--	--	--	
9/17/12	8:00	68.35	1.5	--	--	
9/18/12	8:00	68.35	1.5	--	--	
9/19/12	7:45	68.35	1.5	--	--	
9/20/12	8:00	68.3	1.5	--	--	
9/21/12	7:45	68.35	1.5	--	--	
9/22/12	--	--	--	--	--	
9/23/12	--	--	--	--	--	
9/24/12	8:00	68.35	1.5	--	--	
9/25/12	1:00	68.3	1.5	--	--	
9/26/12	12:00	68.3	1.5	--	--	CRA sampled
9/27/12	8:30	68.25	1.6	--	--	
9/28/12	2:45	68.25	1.6	--	--	
9/29/12	--	--	--	--	--	
9/30/12	--	--	--	--	--	
10/1/12	9:00	68.25	1.6	--	--	
10/2/12	12:00	68.25	1.6	--	--	
10/3/12	8:00	68.2	1.6	--	--	
10/4/12	8:30	68.2	1.6	--	--	
10/5/12	8:15	68.15	1.7	--	--	
10/6/12	--	--	--	--	--	
10/7/12	--	--	--	--	--	
10/8/12	8:00	68.1	1.7	--	--	
10/9/12	8:30	68.1	1.7	--	--	
10/10/12	8:00	68.1	1.7	--	--	
10/11/12	3:00	68.1	1.7	--	--	
10/12/12	10:15	68.1	1.7	--	--	
10/13/12	--	--	--	--	--	
10/14/12	--	--	--	--	--	
10/15/12	8:00	68.1	1.7	--	--	
10/16/12	8:45	68.0	1.8	--	--	
10/17/12	8:00	68.0	1.8	--	--	
10/18/12	9:30	68.0	1.8	--	--	
10/19/12	8:30	68.0	1.8	--	--	
10/20/12	--	--	--	--	--	
10/21/12	--	--	--	--	--	
10/22/12	2:45	68.0	1.8	--	--	
10/23/12	8:15	68.0	1.8	--	--	
10/24/12	8:15	67.95	1.9	--	--	
10/25/12	8:00	67.95	1.9	--	--	
10/26/12	9:30	67.95	1.9	--	--	
10/27/12	--	--	--	--	--	
10/28/12	--	--	--	--	--	
10/29/12	9:00	67.95	1.9	--	--	CRA sampled
10/30/12	12:00	67.9	1.9	--	--	
10/31/12	8:15	67.9	1.9	--	--	
11/1/12	8:00	67.9	1.9	--	--	
11/2/12	8:00	67.9	1.9	--	--	
11/3/12	--	--	--	--	--	
11/4/12	--	--	--	--	--	
11/5/12	8:00	67.85	2.0	--	--	
11/6/12	8:00	67.8	2.0	--	--	
11/7/12	8:00	67.8	2.0	--	--	
11/8/12	8:00	67.8	2.0	--	--	
11/9/12	8:00	67.8	2.0	--	--	
11/10/12	--	--	--	--	--	
11/11/12	--	--	--	--	--	
11/12/12	2:30	67.8	2.0	--	--	
11/13/12	1:30	67.8	2.0	--	--	
11/14/12	12:00	67.7	2.1	--	--	
11/15/12	1:45	67.7	2.1	--	--	
11/16/12	10:43	67.4	2.4	--	--	
11/17/12	--	--	--	--	--	
11/18/12	--	--	--	--	--	
11/19/12	2:24	67.65	2.2	--	--	
11/20/12	9:36	67.65	2.2	--	--	CRA sampled
11/21/12	1:45	67.6	2.2	--	--	
11/22/12	1:27	67.6	2.2	--	--	
11/23/12	1:21	67.6	2.2	--	--	
11/24/12	--	--	--	--	--	
11/25/12	--	--	--	--	--	
11/26/12	1:30	67.65	2.2	--	--	
11/27/12	1:00	67.65	2.2	--	--	
11/28/12	1:10	67.65	2.2	--	--	
11/29/12	11:30	67.6	2.2	--	--	
11/30/12	1:00	67.6	2.2	--	--	
12/1/12	--	--	--	--	--	
12/2/12	--	--	--	--	--	
12/3/12	12:30	67.6	2.2	--	--	
12/4/12	1:00	67.6	2.2	--	--	

TABLE 2.1
2012 PUMPING DATA
LEACHATE COLLECTION SYSTEM (LCS)
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Date	Time of Measurement (hh:mm)	Water Level (feet BTOS)	Water Depth (feet AFOS)	Water Depth Removed (feet)	Volume Removed (gallons)	Comments
12/5/12	4:30	67.6	2.2	--	--	
12/6/12	4:30	67.6	2.2	--	--	
12/7/12	12:30	67.6	2.2	--	--	
12/8/12	10:00	67.5	2.3	--	-360 ^(a)	Received water from leak detection
12/9/12	--	--	--	--	--	
12/10/12	1:00	67.5	2.3	--	--	
12/11/12	2:30	67.45	2.4	--	--	CRA sampled
12/12/12	1:56	67.4	2.4	--	--	
12/13/12	11:24	67.4	2.4	--	--	
12/14/12	11:04	67.35	2.5	--	--	
12/15/12	--	--	--	--	--	
12/16/12	--	--	--	--	--	
12/17/12	10:04	67.3	2.5	--	--	
12/18/12	11:15	67.3	2.5	--	--	
12/19/12	8:48	67.3	2.5	--	--	
12/20/12	9:25	67.3	2.5	--	--	
12/21/12	12:56	67.3	2.5	--	--	
12/22/12	--	--	--	--	--	
12/23/12	--	--	--	--	--	
12/24/12	10:40	67.3	2.6	--	--	
12/25/12	9:30	67.3	2.6	--	--	
12/26/12	10:40	67.3	2.6	--	--	
12/27/12	9:30	67.3	2.6	--	--	
12/28/12	11:22	67.3	2.6	--	--	
12/29/12	1:05	67.2	2.6	--	--	
12/30/12	2:25	67.2	2.6	--	--	
12/31/12	11:20	67.2	2.6	2.4 ^(d)	508 ^(d)	Sump accumulation since last 2012 pumping event on 6/22/2012
Minimum		59.7	0.2			
Maximum		69.6	10.1			
Mean		66.4	3.5			
Pumping Events				4	Number of pumping events may not account for automated pumping	

Notes:

(1)	Total Volume Accumulation in LCS carried forward from 2011 (gallons)	-478
(2)	Total Volume Accumulation in LCS from last pumping event to end of 2012 (gallons)	508
(3)	Total Volume Pumped from the LCS in 2012 (gallons)	1,882
(1)+(2)+(3)	Total Volume Accumulation Originating in the LCS in 2012 (gallons)	1,912
(4)	Total Volume Pumped to LCS from LDS in 2012 (gallons)	4,093
(2)+(3)+(4)	Net Volume Removed from the LCS in 2012 including volume from LDS (gallons)	6,483

Data was compiled in accordance with prior annual reports.

No measurements were made most weekends or on holidays.

Manual level measurements were not taken in the LCS 3/6/2012 through 5/31/2012 after the initiation of the LCS and GUS automated pumping. Data were to be recorded at the SSC WTP however records were lost either due to electrical problems or system error.

^(a) Assumed that water pumped from LDS into LCS will be removed when LCS pump is started

^(b) Assumed that level reduction is accounted for by LDS pumping volumes added 2/7/2012 through 2/27/2012 that were later removed (pumped) on 6/1/2012.

^(c) Change in level and volume removed calculations compared to 8.8 ft depth observed prior to addition of LDS water starting on 2/7/2012

^(d) Assumed that water pumped from LDS into LCS on 8/29/2012 and 12/8/2012 did not appreciably change the water level in the sump.

TABLE 2.2

2012 PUMPING DATA
LEAK DETECTION SYSTEM
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Monitoring Location Information

Top of sump (datum reference) 741.14
Bottom of sump (feet BTOS) 72.64
Bottom of sump (ft AMSL) 668.50
Diameter of sump (feet) 6

Date	Time of Measurement (hh:mm)	Water Level feet (BTOS)	Water Depth feet (BTOS)	Water Depth After Pumping (feet)	Water Depth Removed (feet)	Volume Removed (gallons)	Average Daily Flow Rate ^(a) (gallons/day/acre)	Comments
12/31/11	--	--	--	--	--	-423	0.9	Sump accumulation from 2011 that was not pumped prior to 1/1/12
1/1/12	--	--	--	--	--	--	0.9	
1/2/12	--	--	--	--	--	--	0.9	
1/3/12	12:13	70.1	2.5	--	--	--	0.9	
1/4/12	12:34	70.1	2.5	--	--	--	0.9	
1/5/12	9:47	70.1	2.5	--	--	--	0.9	
1/6/12	8:34	70.0	2.6	--	--	--	0.9	
1/7/12	9:27	70.0	2.6	--	--	--	0.9	
1/8/12	11:16	70.0	2.6	--	--	--	0.9	
1/9/12	8:26	70.0	2.6	--	--	--	0.9	
1/10/12	3:47	70.0	2.6	--	--	--	0.9	
1/11/12	1:35	69.9	2.7	--	--	--	0.9	
1/12/12	2:07	69.9	2.7	--	--	--	0.9	
1/13/12	1:16	69.9	2.7	--	--	--	0.9	
1/14/12	--	--	--	--	--	--	0.9	-
1/15/12	--	--	--	--	--	--	0.9	-
1/16/12	2:24	69.9	2.7	--	--	--	0.9	
1/17/12	1:36	69.8	2.8	--	--	--	0.9	
1/18/12	8:37	69.8	2.8	--	--	--	0.9	
1/19/12	2:26	69.8	2.8	--	--	--	0.9	
1/20/12	1:49	69.8	2.8	--	--	--	0.9	
1/21/12	--	--	--	--	--	--	0.9	-
1/22/12	10:37	69.8	2.8	--	--	--	0.9	
1/23/12	1:15	69.8	2.8	--	--	--	0.9	
1/24/12	2:06	69.8	2.8	--	--	--	0.9	CRA sampled
1/25/12	2:58	69.8	2.8	--	--	--	0.9	
1/26/12	9:36	69.8	2.8	--	--	--	0.9	
1/27/12	1:24	69.7	2.9	--	--	--	0.9	
1/28/12	--	--	--	--	--	--	0.9	-
1/29/12	--	--	--	--	--	--	0.9	-
1/30/12	8:51	69.7	2.9	--	--	--	0.9	
1/31/12	12:11	69.7	2.9	--	--	--	0.9	
2/1/12	12:02	69.7	2.9	--	--	--	0.9	
2/2/12	12:17	69.7	2.9	--	--	--	0.9	
2/3/12	9:42	69.7	2.9	--	--	--	0.9	
2/4/12	--	--	--	--	--	--	0.9	-
2/5/12	--	--	--	--	--	--	0.9	-
2/6/12	10:48	69.7	2.9	--	--	--	0.9	
2/7/12	1:34	69.7	2.9	72.50	2.80	592	0.9	Pumped 30 mins; Pump size 2"; Pumped into LCS
2/8/12	11:17	70.0	2.6	72.50	2.50	529	0.9	Pumped 25 mins; Pump size 2"; Pumped into LCS
2/9/12	2:07	71.6	1.0	72.50	0.90	190	0.9	Pumped 10 mins; pump size 2"; Pumped into LCS
2/10/12	11:34	72.3	0.3	--	--	--	6.9	
2/11/12	--	--	--	--	--	--	6.9	-
2/12/12	--	--	--	--	--	--	6.9	-
2/13/12	1:30	71.6	1.0	--	--	--	6.9	
2/14/12	1:30	71.2	1.4	--	--	--	6.9	
2/15/12	10:00	71.0	1.6	--	--	--	6.9	
2/16/12	10:45	70.6	2.0	72.2	1.60	338	6.9	Pumped 12 mins; Pump size 2"; Pumped into LCS
2/17/12	10:30	71.7	0.9	--	--	--	12.1	
2/18/12	--	--	--	--	--	--	12.1	-
2/19/12	--	--	--	--	--	--	12.1	-
2/20/12	11:45	70.7	1.9	72.3	1.60	338	12.1	Pumped for 16 mins; Pump size 2"; Pumped into LCS
2/21/12	10:15	72.1	0.5	--	--	--	8.2	
2/22/12	9:30	71.9	0.7	--	--	--	8.2	CRA sampled
2/23/12	8:30	71.6	1.0	--	--	--	8.2	
2/24/12	7:30	71.4	1.2	--	--	--	8.2	
2/25/12	--	--	--	--	--	--	8.2	-
2/26/12	--	--	--	--	--	--	8.2	-
2/27/12	7:50	70.5	2.1	72.40	1.90	402	8.2	Pumped for 18 mins; Pump size 2"; Pumped into LCS
2/28/12	7:30	72.2	0.4	--	--	--	2.2	
2/29/12	7:50	71.9	0.7	--	--	--	2.2	
3/1/12	7:15	71.6	1.0	--	--	--	2.2	36 degrees, sunny
3/2/12	7:15	71.3	1.3	--	--	--	2.2	43 degrees, sunny
3/3/12	--	--	--	--	--	--	2.2	-
3/4/12	--	--	--	--	--	--	2.2	-
3/5/12	7:43	70.8	1.8	--	--	--	2.2	
3/6/12	7:30	70.7	1.9	--	--	--	2.2	30 degrees, sunny
3/7/12	7:30	70.7	1.9	--	--	--	2.2	55 degrees, sunny, windy
3/8/12	9:45	70.6	2.0	--	--	--	2.2	55 degrees, rain; no pumping at CRA's request
3/9/12	7:30	70.5	2.1	--	--	--	2.2	37 degrees, sunny; no pumping at CRA's request
3/10/12	--	--	--	--	--	--	2.2	-
3/11/12	--	--	--	--	--	--	2.2	-
3/12/12	8:15	70.4	2.2	--	--	--	2.2	57 degrees, rain; no pumping at CRA's request
3/13/12	8:00	70.3	2.3	--	--	--	2.2	59 degrees, sunny; no pumping at CRA's request
3/14/12	8:00	70.3	2.3	--	--	--	2.2	46 degrees, sunny; no pumping at CRA's request
3/15/12	9:30	70.3	2.3	--	--	--	2.2	64 degrees, cloudy; no pumping at CRA's request
3/16/12	8:14	70.2	2.4	71.50	1.30	275	2.2	54 degrees, cloudy; CRA requested level; Pumped into LCS
3/17/12	--	--	--	--	--	--	0.3	
3/18/12	--	--	--	--	--	--	0.3	

TABLE 2.2

2012 PUMPING DATA
LEAK DETECTION SYSTEM
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Monitoring Location Information

Top of sump (datum reference) 741.14
Bottom of sump (feet BTOS) 72.64
Bottom of sump (ft AMSL) 668.50
Diameter of sump (feet) 6

Date	Time of Measurement (hh:mm)	Water Level feet (BTOS)	Water Depth feet (BTOS)	Water Depth After Pumping (feet)	Water Depth Removed (feet)	Volume Removed (gallons)	Average Daily Flow Rate ^(a) (gallons/day/acre)	Comments
3/19/12	7:45	71.0	1.6	--	--	--	0.3	61 degrees, cloudy
3/20/12	9:30	71.0	1.6	--	--	--	0.3	64 degrees, sunny
3/21/12	7:30	70.9	1.7	--	--	--	0.3	63 degrees, sunny
3/22/12	7:30	70.8	1.8	--	--	--	0.3	63 degrees, cloudy
3/23/12	8:30	70.8	1.8	--	--	--	0.3	63 degrees, rain
3/24/12	--	--	--	--	--	--	0.3	-
3/25/12	--	--	--	--	--	--	0.3	-
3/26/12	8:15	70.6	2.0	--	--	--	0.3	63 degrees, sunny
3/27/12	7:30	70.5	2.1	--	--	--	0.3	39 degrees, cloudy
3/28/12	9:30	70.5	2.1	--	--	--	0.3	64 degrees, sunny; CRA sampled
3/29/12	9:00	70.5	2.1	--	--	--	0.3	46 degrees, sunny
3/30/12	8:00	70.5	2.1	--	--	--	0.3	51 degrees, sunny
3/31/12	--	--	--	--	--	--	0.3	-
4/1/12	--	--	--	--	--	--	0.3	-
4/2/12	12:00	70.4	2.2	--	--	--	0.3	
4/3/12	12:00	70.3	2.3	--	--	--	0.3	
4/4/12	8:30	70.3	2.3	--	--	--	0.3	
4/5/12	9:00	70.3	2.3	--	--	--	0.3	
4/6/12	--	--	--	--	--	--	0.3	-
4/7/12	--	--	--	--	--	--	0.3	-
4/8/12	--	--	--	--	--	--	0.3	-
4/9/12	1:00	70.75	1.9	--	--	--	0.3	
4/10/12	10:00	70.75	1.9	--	--	--	0.3	
4/11/12	10:00	70.75	1.9	--	--	--	0.3	
4/12/12	10:00	70.75	1.9	--	--	--	0.3	
4/13/12	10:00	70.45	2.2	70.75	0.30	63	0.3	Pumped; Pump size 2"; Pumped into LCS
4/14/12	--	--	--	--	--	--	4.5	-
4/15/12	--	--	--	--	--	--	4.5	-
4/16/12	12:00	70.75	1.9	--	--	--	4.5	
4/17/12	10:00	70.6	2.0	--	--	--	4.5	
4/18/12	10:00	70.5	2.1	--	--	--	4.5	
4/19/12	9:30	70.4	2.2	--	--	--	4.5	
4/20/12	9:30	70.3	2.3	--	--	--	4.5	
4/21/12	--	--	--	--	--	--	4.5	-
4/22/12	--	--	--	--	--	--	4.5	-
4/23/12	8:00	70.3	2.3	--	--	--	4.5	
4/24/12	1:45	70.1	2.5	71.75	1.65	349	4.5	Pumped into LCS; CRA sampled
4/25/12	10:30	71.4	1.2	--	--	--	1.5	
4/26/12	10:00	71.3	1.3	--	--	--	1.5	
4/27/12	8:00	71.3	1.3	--	--	--	1.5	
4/28/12	--	--	--	--	--	--	1.5	-
4/29/12	--	--	--	--	--	--	1.5	-
4/30/12	7:30	71.2	1.4	--	--	--	1.5	
5/1/12	7:30	71.2	1.4	--	--	--	1.5	
5/2/12	8:00	71.2	1.4	--	--	--	1.5	
5/3/12	7:30	71.1	1.5	--	--	--	1.5	
5/4/12	7:30	71.1	1.5	--	--	--	1.5	
5/5/12	--	--	--	--	--	--	1.5	-
5/6/12	--	--	--	--	--	--	1.5	-
5/7/12	8:30	71.0	1.6	--	--	--	1.5	
5/8/12	9:00	71.0	1.6	--	--	--	1.5	
5/9/12	8:30	70.9	1.7	--	--	--	1.5	
5/10/12	8:00	70.9	1.7	--	--	--	1.5	
5/11/12	8:00	70.9	1.7	--	--	--	1.5	
5/12/12	--	--	--	--	--	--	1.5	
5/13/12	--	--	--	--	--	--	1.5	
5/14/12	10:00	70.8	1.8	--	--	--	1.5	
5/15/12	8:00	70.8	1.8	--	--	--	1.5	
5/16/12	7:30	70.75	1.9	--	--	--	1.5	
5/17/12	10:00	70.75	1.9	--	--	--	1.5	
5/18/12	7:30	70.7	1.9	--	--	--	1.5	
5/19/12	--	--	--	--	--	--	1.5	
5/20/12	--	--	--	--	--	--	1.5	
5/21/12	12:00	70.7	1.9	--	--	--	1.5	
5/22/12	7:30	70.6	2.0	--	--	--	1.5	CRA sampled
5/23/12	7:30	70.6	2.0	--	--	--	1.5	
5/24/12	7:30	70.6	2.0	--	--	--	1.5	
5/25/12	11:10	70.5	2.1	--	1.50	317	1.5	Pumped; Pump size 2"; Pumped into LCS
5/26/12	--	--	--	--	--	--	0.5	
5/27/12	--	--	--	--	--	--	0.5	
5/28/12	--	--	--	--	--	--	0.5	
5/29/12	8:00	72.0	0.6	--	--	--	0.5	
5/30/12	7:30	71.95	0.7	--	--	--	0.5	
5/31/12	7:30	71.9	0.7	--	--	--	0.5	
6/1/12	7:30	71.85	0.8	--	--	--	0.5	
6/2/12	--	--	--	--	--	--	0.5	
6/3/12	--	--	--	--	--	--	0.5	
6/4/12	7:30	71.8	0.8	--	--	--	0.5	
6/5/12	7:30	71.75	0.9	--	--	--	0.5	

TABLE 2.2

2012 PUMPING DATA
LEAK DETECTION SYSTEM
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Monitoring Location Information

Top of sump (datum reference) 741.14
Bottom of sump (feet BTOS) 72.64
Bottom of sump (ft AMSL) 668.50
Diameter of sump (feet) 6

Date	Time of Measurement (hh:mm)	Water Level feet (BTOS)	Water Depth feet (BTOS)	Water Depth After Pumping (feet)	Water Depth Removed (feet)	Volume Removed (gallons)	Average Daily Flow Rate ^(a) (gallons/day/acre)	Comments
6/6/12	10:30	71.75	0.9	--	--	--	0.5	
6/7/12	7:30	71.7	0.9	--	--	--	0.5	
6/8/12	7:30	71.7	0.9	--	--	--	0.5	
6/9/12	--	--	--	--	--	--	0.5	
6/10/12	--	--	--	--	--	--	0.5	
6/11/12	7:30	71.6	1.0	--	--	--	0.5	
6/12/12	7:30	71.6	1.0	--	--	--	0.5	
6/13/12	7:30	71.6	1.0	--	--	--	0.5	
6/14/12	7:30	71.55	1.1	--	--	--	0.5	
6/15/12	7:30	71.5	1.1	--	--	--	0.5	
6/16/12	--	--	--	--	--	--	0.5	
6/17/12	--	--	--	--	--	--	0.5	
6/18/12	7:30	71.45	1.2	--	--	--	0.5	
6/19/12	7:30	71.4	1.2	--	--	--	0.5	
6/20/12	7:30	71.4	1.2	--	--	--	0.5	
6/21/12	7:30	71.35	1.3	--	--	--	0.5	
6/22/12	7:30	71.35	1.3	--	--	--	0.5	
6/23/12	--	--	--	--	--	--	0.5	
6/24/12	--	--	--	--	--	--	0.5	
6/25/12	7:30	71.4	1.2	--	--	--	0.5	
6/26/12	7:30	71.35	1.3	--	--	--	0.5	CRA sampled
6/27/12	7:30	71.35	1.3	--	--	--	0.5	
6/28/12	6:30	71.35	1.3	--	--	--	0.5	
6/29/12	6:30	71.35	1.3	--	--	--	0.5	
6/30/12	--	--	--	--	--	--	0.5	
7/1/12	--	--	--	--	--	--	0.5	
7/2/12	6:45	71.35	1.3	--	--	--	0.5	
7/3/12	6:30	71.35	1.3	--	--	--	0.5	
7/4/12	--	--	--	--	--	--	0.5	
7/5/12	--	--	--	--	--	--	0.5	
7/6/12	--	--	--	--	--	--	0.5	
7/7/12	--	--	--	--	--	--	0.5	
7/8/12	--	--	--	--	--	--	0.5	
7/9/12	6:30	71.2	1.4	--	--	--	0.5	
7/10/12	7:30	71.2	1.4	--	--	--	0.5	CRA sampled
7/11/12	7:30	71.3	1.3	--	--	--	0.5	
7/12/12	7:30	71.3	1.3	--	--	--	0.5	
7/13/12	7:30	71.3	1.3	--	--	--	0.5	
7/14/12	--	--	--	--	--	--	0.5	
7/15/12	--	--	--	--	--	--	0.5	
7/16/12	7:30	71.3	1.3	--	--	--	0.5	
7/17/12	7:30	71.3	1.3	--	--	--	0.5	
7/18/12	10:15	71.3	1.3	--	--	--	0.5	
7/19/12	7:30	71.25	1.4	--	--	--	0.5	
7/20/12	6:30	71.2	1.4	--	--	--	0.5	
7/21/12	--	--	--	--	--	--	0.5	
7/22/12	--	--	--	--	--	--	0.5	
7/23/12	6:30	71.15	1.5	--	--	--	0.5	
7/24/12	7:00	71.15	1.5	--	--	--	0.5	
7/25/12	6:30	71.15	1.5	--	--	--	0.5	
7/26/12	6:30	71.15	1.5	--	--	--	0.5	
7/27/12	7:00	71.10	1.5	--	--	--	0.5	
7/28/12	--	--	--	--	--	--	0.5	
7/29/12	--	--	--	--	--	--	0.5	
7/30/12	6:30	71.05	1.6	--	--	--	0.5	
7/31/12	6:30	71.05	1.6	--	--	--	0.5	
8/1/12	6:30	71.05	1.6	--	--	--	0.5	
8/2/12	7:00	71.0	1.6	--	--	--	0.5	
8/3/12	7:00	71.0	1.6	--	--	--	0.5	
8/4/12	--	--	--	--	--	--	0.5	
8/5/12	--	--	--	--	--	--	0.5	
8/6/12	7:30	70.95	1.7	--	--	--	0.5	
8/7/12	9:00	70.95	1.7	--	--	--	0.5	
8/8/12	10:15	71.0	1.6	--	--	--	0.5	
8/9/12	8:15	70.9	1.7	--	--	--	0.5	
8/10/12	7:30	70.85	1.8	--	--	--	0.5	
8/11/12	--	--	--	--	--	--	0.5	
8/12/12	--	--	--	--	--	--	0.5	
8/13/12	1:45	70.8	1.8	--	--	--	0.5	
8/14/12	8:00	70.8	1.8	--	--	--	0.5	
8/15/12	8:00	70.8	1.8	--	--	--	0.5	
8/16/12	8:00	70.8	1.8	--	--	--	0.5	
8/17/12	1:30	70.75	1.9	--	--	--	0.5	
8/18/12	--	--	--	--	--	--	0.5	
8/19/12	--	--	--	--	--	--	0.5	
8/20/12	8:00	70.7	1.9	--	--	--	0.5	
8/21/12	12:00	70.7	1.9	--	--	--	0.5	CRA sampled
8/22/12	7:30	70.7	1.9	--	--	--	0.5	
8/23/12	7:30	70.7	1.9	--	--	--	0.5	

TABLE 2.2

2012 PUMPING DATA
LEAK DETECTION SYSTEM
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Monitoring Location Information

Top of sump (datum reference) 741.14
Bottom of sump (feet BTOS) 72.64
Bottom of sump (ft AMSL) 668.50
Diameter of sump (feet) 6

Date	Time of Measurement (hh:mm)	Water Level feet (BTOS)	Water Depth feet (BTOS)	Water Depth After Pumping (feet)	Water Depth Removed (feet)	Volume Removed (gallons)	Average Daily Flow Rate ^(a) (gallons/day/acre)	Comments
8/24/12	7:30	70.65	2.0	--	--	--	0.5	
8/25/12	--	--	--	--	--	--	0.5	
8/26/12	--	--	--	--	--	--	0.5	
8/27/12	1:30	70.6	2.0	--	--	--	0.5	
8/28/12	7:30	70.6	2.0	--	--	--	0.5	
8/29/12	1:20	70.6	2.0	72.20	1.60	338	0.5	Pumped into LCS
8/30/12	11:00	72.0	0.6	--	--	--	0.5	
8/31/12	9:00	71.8	0.8	--	--	--	0.5	
9/1/12	--	--	--	--	--	--	0.5	
9/2/12	--	--	--	--	--	--	0.5	
9/3/12	9:30	71.7	0.9	--	--	--	0.5	
9/4/12	8:00	71.7	0.9	--	--	--	0.5	
9/5/12	7:30	71.7	0.9	--	--	--	0.5	
9/6/12	8:00	71.6	1.0	--	--	--	0.5	
9/7/12	7:30	71.6	1.0	--	--	--	0.5	
9/8/12	--	--	--	--	--	--	0.5	
9/9/12	--	--	--	--	--	--	0.5	
9/10/12	8:30	71.55	1.1	--	--	--	0.5	
9/11/12	7:45	71.55	1.1	--	--	--	0.5	
9/12/12	7:45	71.55	1.1	--	--	--	0.5	
9/13/12	8:00	71.55	1.1	--	--	--	0.5	
9/14/12	7:30	71.55	1.1	--	--	--	0.5	
9/15/12	--	--	--	--	--	--	0.5	
9/16/12	--	--	--	--	--	--	0.5	
9/17/12	8:00	71.5	1.1	--	--	--	0.5	
9/18/12	8:00	71.5	1.1	--	--	--	0.5	
9/19/12	7:45	71.45	1.2	--	--	--	0.5	
9/20/12	8:00	71.4	1.2	--	--	--	0.5	
9/21/12	7:45	71.4	1.2	--	--	--	0.5	
9/22/12	--	--	--	--	--	--	0.5	
9/23/12	--	--	--	--	--	--	0.5	
9/24/12	8:00	71.4	1.2	--	--	--	0.5	
9/25/12	1:00	71.35	1.3	--	--	--	0.5	
9/26/12	12:00	71.35	1.3	--	--	--	0.5	CRA sampled
9/27/12	8:30	71.35	1.3	--	--	--	0.5	
9/28/12	2:45	71.3	1.3	--	--	--	0.5	
9/29/12	--	--	--	--	--	--	0.5	
9/30/12	--	--	--	--	--	--	0.5	
10/1/12	9:00	71.3	1.3	--	--	--	0.5	
10/2/12	12:00	71.25	1.4	--	--	--	0.5	
10/3/12	8:00	71.2	1.4	--	--	--	0.5	
10/4/12	8:30	71.2	1.4	--	--	--	0.5	
10/5/12	8:15	71.2	1.4	--	--	--	0.5	
10/6/12	--	--	--	--	--	--	0.5	
10/7/12	--	--	--	--	--	--	0.5	
10/8/12	8:00	71.15	1.5	--	--	--	0.5	
10/9/12	8:30	71.15	1.5	--	--	--	0.5	
10/10/12	8:00	71.15	1.5	--	--	--	0.5	
10/11/12	3:00	71.1	1.5	--	--	--	0.5	
10/12/12	10:15	71.1	1.5	--	--	--	0.5	
10/13/12	--	--	--	--	--	--	0.5	
10/14/12	--	--	--	--	--	--	0.5	
10/15/12	8:00	71.1	1.5	--	--	--	0.5	
10/16/12	8:45	71.05	1.6	--	--	--	0.5	
10/17/12	8:00	71.05	1.6	--	--	--	0.5	
10/18/12	9:30	71.0	1.6	--	--	--	0.5	
10/19/12	8:30	71.0	1.6	--	--	--	0.5	
10/20/12	--	--	--	--	--	--	0.5	
10/21/12	--	--	--	--	--	--	0.5	
10/22/12	2:45	71.0	1.6	--	--	--	0.5	
10/23/12	8:15	71.0	1.6	--	--	--	0.5	
10/24/12	8:15	70.95	1.7	--	--	--	0.5	
10/25/12	8:00	70.95	1.7	--	--	--	0.5	
10/26/12	9:30	70.95	1.7	--	--	--	0.5	
10/27/12	--	--	--	--	--	--	0.5	
10/28/12	--	--	--	--	--	--	0.5	
10/29/12	9:00	70.95	1.7	--	--	--	0.5	CRA sampled
10/30/12	12:00	70.9	1.7	--	--	--	0.5	
10/31/12	8:15	70.9	1.7	--	--	--	0.5	
11/1/12	8:00	70.9	1.7	--	--	--	0.5	
11/2/12	8:00	70.9	1.7	--	--	--	0.5	
11/3/12	--	--	--	--	--	--	0.5	
11/4/12	--	--	--	--	--	--	0.5	
11/5/12	8:00	70.85	1.8	--	--	--	0.5	
11/6/12	8:00	70.85	1.8	--	--	--	0.5	
11/7/12	8:00	70.85	1.8	--	--	--	0.5	
11/8/12	8:00	70.85	1.8	--	--	--	0.5	
11/9/12	8:00	70.8	1.8	--	--	--	0.5	
11/10/12	--	--	--	--	--	--	0.5	

TABLE 2.2

2012 PUMPING DATA
LEAK DETECTION SYSTEM
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Monitoring Location Information

Top of sump (datum reference) 741.14
Bottom of sump (feet BTOS) 72.64
Bottom of sump (ft AMSL) 668.50
Diameter of sump (feet) 6

Date	Time of Measurement (hh:mm)	Water Level feet (BTOS)	Water Depth feet (BTOS)	Water Depth After Pumping (feet)	Water Depth Removed (feet)	Volume Removed (gallons)	Average Daily Flow Rate ^(a) (gallons/day/acre)	Comments
11/11/12	--	--	--	--	--	--	0.5	
11/12/12	2:30	70.8	1.8	--	--	--	0.5	
11/13/12	1:30	70.8	1.8	--	--	--	0.5	
11/14/12	12:00	70.8	1.8	--	--	--	0.5	
11/15/12	1:45	70.8	1.8	--	--	--	0.5	
11/16/12	10:48	70.75	1.9	--	--	--	0.5	
11/17/12	--	--	--	--	--	--	0.5	
11/18/12	--	--	--	--	--	--	0.5	
11/19/12	2:28	70.7	1.9	--	--	--	0.5	
11/20/12	9:38	70.7	1.9	--	--	--	0.5	CRA sampled
11/21/12	1:51	70.7	1.9	--	--	--	0.5	
11/22/12	1:30	70.7	1.9	--	--	--	0.5	
11/23/12	1:23	70.7	1.9	--	--	--	0.5	
11/24/12	--	--	--	--	--	--	0.5	
11/25/12	--	--	--	--	--	--	0.5	
11/26/12	1:30	70.65	2.0	--	--	--	0.5	
11/27/12	1:00	70.65	2.0	--	--	--	0.5	
11/28/12	1:00	70.65	2.0	--	--	--	0.5	
11/29/12	11:30	70.65	2.0	--	--	--	0.5	
11/30/12	1:00	70.65	2.0	--	--	--	0.5	
12/1/12	--	--	--	--	--	--	0.5	
12/2/12	--	--	--	--	--	--	0.5	
12/3/12	12:30	70.65	2.0	--	--	--	0.5	
12/4/12	1:00	70.65	2.0	--	--	--	0.5	
12/5/12	4:30	70.65	2.0	--	--	--	0.5	
12/6/12	4:30	70.6	2.0	--	--	--	0.5	
12/7/12	12:30	70.55	2.1	--	--	--	0.5	
12/8/12	10:00	70.5	2.1	72.20	1.70	360	0.5	Pumped into LCS
12/9/12	--	--	--	--	--	--	0.7	
12/10/12	1:00	71.9	0.7	--	--	--	0.7	
12/11/12	2:30	71.8	0.8	--	--	--	0.7	CRA sampled
12/12/12	1:59	71.75	0.9	--	--	--	0.7	
12/13/12	11:26	71.7	0.9	--	--	--	0.7	
12/14/12	11:06	71.7	0.9	--	--	--	0.7	
12/15/12	--	--	--	--	--	--	0.7	
12/16/12	--	--	--	--	--	--	0.7	
12/17/12	10:06	71.65	1.0	--	--	--	0.7	
12/18/12	11:17	71.6	1.0	--	--	--	0.7	
12/19/12	8:50	71.6	1.0	--	--	--	0.7	
12/20/12	9:27	71.6	1.0	--	--	--	0.7	
12/21/12	12:58	71.6	1.0	--	--	--	0.7	
12/22/12	--	--	--	--	--	--	0.7	
12/23/12	--	--	--	--	--	--	0.7	
12/24/12	10:43	71.55	1.1	--	--	--	0.7	
12/25/12	9:43	71.55	1.1	--	--	--	0.7	
12/26/12	10:43	71.55	1.1	--	--	--	0.7	
12/27/12	9:34	71.5	1.1	--	--	--	0.7	
12/28/12	11:25	71.5	1.1	--	--	--	0.7	
12/29/12	1:10	71.5	1.1	--	--	--	0.7	
12/30/12	2:35	71.5	1.1	--	--	--	0.7	
12/31/12	11:23	71.4	1.2	--	0.5	106	0.7	Sump accumulation since last 2012 pumping event on 12/8/2012. This depth and volume remained in the sump going forward into 2013.
Minimum		69.7	0.3					
Maximum		72.3	2.9					
Mean		70.9	1.7					
Pumping Events		12						

Notes:

(1)	Total Volume Pumped to LCS in 2012 (gallons)	4,093
(2)	Total Volume Accumulation carried forward from 2011 (gallons)	-423
(3)	Total Volume Accumulation from last pumping event to end of 2012 (gallons)	106
(1)+(2)+(3)	Net 2012 LDS Accumulation Volume (gallons)	3,775

Data was compiled in accordance with prior annual reports.

No measurements were made most weekends or on holidays.

^(a) Average daily flow rate calculated by dividing removed volume by the elapsed time from the prior pumping event and the area of the Vault footprint (7 acres).

TABLE 2.3
2012 PUMPING DATA
GRAVEL UNDERDRAIN SUMP
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Monitoring Location Information

Top of sump (datum reference) 739.49
Bottom of sump (feet BTOS) 77.31
Bottom of sump (ft AMSL) 662.18
Diameter of sump (feet) 3

Date	Time of Water Level Measurement (hh:mm)	Water Level (feet BTOS)	Water Depth (feet AFOS)	Volume Pumped (gallons)	Comments
1/1/12	--	--	--	--	
1/2/12	--	--	--	--	
1/3/12	12:07	69.1	8.2	--	Sunny, cool
1/4/12	12:25	69.1	8.2	--	Sunny, windy
1/5/12	9:40	69.1	8.2	--	Sunny, cool
1/6/12	8:26	69.1	8.2	--	Sunny
1/7/12	9:20	69.1	8.2	--	Sunny
1/8/12	11:10	69.1	8.2	--	Sunny, windy
1/9/12	8:20	69.1	8.2	--	Sunny
1/10/12	3:40	69.1	8.2	--	Sunny
1/11/12	1:25	69.1	8.2	--	Rain
1/12/12	1:55	69.1	8.2	--	Snow, cold
1/13/12	1:10	69.1	8.2	--	Snow, very cold wind
1/14/12	--	--	--	--	-
1/15/12	--	--	--	--	-
1/16/12	2:17	69.1	8.2	--	Sprinkles
1/17/12	1:29	69.0	8.3	--	Windy, cool, cloudy
1/18/12	8:30	69.0	8.3	--	Cool, little wind
1/19/12	2:19	69.0	8.3	--	Cool, little breeze, cloud cover
1/20/12	1:43	69.0	8.3	--	Cold, little wind
1/21/12	--	--	--	--	-
1/22/12	10:25	69.0	8.3	--	Cold
1/23/12	1:10	69.0	8.3	--	Cold, windy
1/24/12	2:00	69.1	8.2	--	Cold, cloud cover
1/25/12	2:45	69.1	8.2	--	Cold, cloud cover
1/26/12	9:20	69.1	8.2	--	Cold, rain
1/27/12	1:17	69.1	8.2	--	Cold
1/28/12	--	--	--	--	-
1/29/12	--	--	--	--	-
1/30/12	8:40	69.1	8.2	--	Cold
1/31/12	12:05	69.1	8.2	--	Cloud, warm
2/1/12	11:55	69.1	8.2	--	Very warm, little wind
2/2/12	12:10	69.1	8.2	--	Warm, nice
2/3/12	9:30	69.1	8.2	--	Warm
2/4/12	--	--	--	--	-
2/5/12	--	--	--	--	-
2/6/12	10:40	69.1	8.2	--	Warm
2/7/12	1:20	69.1	8.2	--	Warm
2/8/12	11:10	69.1	8.2	--	Cool, snow
2/9/12	1:50	69.1	8.2	--	Cold
2/10/12	11:25	69.1	8.2	--	Cold, snow
2/11/12	--	--	--	--	-
2/12/12	--	--	--	--	-
2/13/12	1:30	N/A	--	--	Unable to get a reading
2/14/12	1:30	N/A	--	--	Unable to get a reading
2/15/12	10:00	N/A	--	--	Unable to get a reading
2/16/12	10:45	N/A	--	--	Unable to get a reading
2/17/12	10:30	N/A	--	--	Unable to get a reading
2/18/12	--	--	--	--	-
2/19/12	--	--	--	--	-
2/20/12	11:45	N/A	--	--	Unable to get a reading
2/21/12	10:15	N/A	--	--	Unable to get a reading
2/22/12	9:35	N/A	--	--	Unable to get a reading
2/23/12	8:30	N/A	--	--	Unable to get a reading
2/24/12	7:30	N/A	--	--	Unable to get a reading
2/25/12	--	--	--	--	-
2/26/12	--	--	--	--	-
2/27/12	7:50	N/A	--	--	Unable to get a reading
2/28/12	7:30	N/A	--	--	Unable to get a reading
2/29/12	7:50	N/A	--	--	Unable to get a reading
3/1/12	7:15	N/A	--	--	Unable to check water level
3/2/12	7:15	N/A	--	--	CRA setting up pumps
3/3/12	--	--	--	64,100	-
3/4/12	--	--	--	79,515	-
3/5/12	7:45	N/A	--	19,035	CRA setting up pumps
3/6/12	7:30	N/A	--	0	CRA has pump automated
3/7/12	--	--	--	0	

TABLE 2.3
2012 PUMPING DATA
GRAVEL UNDERDRAIN SUMP
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Monitoring Location Information

Top of sump (datum reference) 739.49
Bottom of sump (feet BTOS) 77.31
Bottom of sump (ft AMSL) 662.18
Diameter of sump (feet) 3

Date	Time of Water Level Measurement (hh:mm)	Water Level (feet BTOS)	Water Depth (feet AFOS)	Volume Pumped (gallons)	Comments
3/8/12	--	--	--	24,305	
3/9/12	--	--	--	30,465	
3/10/12	--	--	--	9,350	
3/11/12	--	--	--	8,305	
3/12/12	--	--	--	2,885	
3/13/12	--	--	--	745	
3/14/12	--	--	--	20,445	
3/15/12	--	--	--	3,260	
3/16/12	--	--	--	0	
3/17/12	--	--	--	0	
3/18/12	--	--	--	0	
3/19/12	--	--	--	11,120	
3/20/12	--	--	--	9,565	
3/21/12	--	--	--	0	
3/22/12	--	--	--	0	
3/23/12	--	--	--	0	
3/24/12	--	--	--	0	
3/25/12	--	--	--	0	
3/26/12	--	--	--	0	
3/27/12	--	--	--	0	
3/28/12	--	--	--	21,350	
3/29/12	--	--	--	30,170	
3/30/12	--	--	--	25,120	
3/31/12	--	--	--	22,160	
4/1/12	--	--	--	10,365	
4/2/12	--	--	--	7,340	
4/3/12	--	--	--	7,175	
4/4/12	--	--	--	7,240	
4/5/12	--	--	--	6,990	
4/6/12	--	--	--	7,040	
4/7/12	--	--	--	6,915	
4/8/12	--	--	--	6,960	
4/9/12	--	--	--	6,750	
4/10/12	--	--	--	4,015	
4/11/12	--	--	--	3,075	
4/12/12	--	--	--	0	
4/13/12	--	--	--	0	
4/14/12	--	--	--	0	
4/15/12	--	--	--	0	
4/16/12	--	--	--	0	
4/17/12	--	--	--	0	
4/18/12	--	--	--	21,335	
4/19/12	--	--	--	16,930	
4/20/12	--	--	--	15,350	
4/21/12	--	--	--	13,790	
4/22/12	--	--	--	10,920	
4/23/12	--	--	--	9,215	
4/24/12	--	--	--	7,745	
4/25/12	--	--	--	7,295	
4/26/12	--	--	--	6,860	
4/27/12	--	--	--	6,385	
4/28/12	--	--	--	6,530	
4/29/12	--	--	--	6,355	
4/30/12	--	--	--	8,415	
5/1/12	--	--	--	2,370	
5/2/12	--	--	--	1,820	
5/3/12	--	--	--	2,830	
5/4/12	--	--	--	2,513	
5/5/12	--	--	--	2,115	
5/6/12	--	--	--	1,760	
5/7/12	--	--	--	995	
5/8/12	--	--	--	0	
5/9/12	--	--	--	0	
5/10/12	--	--	--	0	
5/11/12	--	--	--	0	
5/12/12	--	--	--	0	
5/13/12	--	--	--	0	

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2012 PUMPING DATA
GRAVEL UNDERDRAIN SUMP
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Monitoring Location Information

Top of sump (datum reference) 739.49
Bottom of sump (feet BTOS) 77.31
Bottom of sump (ft AMSL) 662.18
Diameter of sump (feet) 3

Date	Time of Water Level Measurement (hh:mm)	Water Level (feet BTOS)	Water Depth (feet AFOS)	Volume Pumped (gallons)	Comments
5/14/12	--	--	--	0	
5/15/12	--	--	--	0	
5/16/12	--	--	--	0	
5/17/12	--	--	--	0	
5/18/12	--	--	--	0	
5/19/12	--	--	--	0	
5/20/12	--	--	--	0	
5/21/12	--	--	--	0	
5/22/12	--	--	--	0	
5/23/12	--	--	--	0	
5/24/12	--	--	--	0	
5/25/12	--	--	--	0	
5/26/12	--	--	--	0	
5/27/12	--	--	--	0	
5/28/12	--	--	--	0	
5/29/12	--	--	--	--	
5/30/12	--	--	--	--	
5/31/12	14:00	71.4	5.9	--	
6/1/12	7:30	71.4	5.9	--	Started checking levels manually (as per CRA request), while the automated system was inactivated for repairs.
6/2/12	--	--	--	--	
6/3/12	--	--	--	--	
6/4/12	7:30	71.4	5.9	--	
6/5/12	7:30	71.4	5.9	--	
6/6/12	10:30	71.4	5.9	--	
6/7/12	7:30	71.4	5.9	--	
6/8/12	7:30	71.4	5.9	--	
6/9/12	--	--	--	--	
6/10/12	--	--	--	--	
6/11/12	7:30	71.3	6.0	--	
6/12/12	7:30	71.35	6.0	--	
6/13/12	7:30	71.3	6.0	--	
6/14/12	7:30	71.35	6.0	--	
6/15/12	7:30	71.3	6.0	--	
6/16/12	--	--	--	--	
6/17/12	--	--	--	--	
6/18/12	7:30	71.3	6.0	--	
6/19/12	7:30	71.3	6.0	--	
6/20/12	7:30	71.3	6.0	--	
6/21/12	7:30	71.3	6.0	--	
6/22/12	7:30	71.3	6.0	--	
6/23/12	--	--	--	--	
6/24/12	--	--	--	--	
6/25/12	7:30	71.3	6.0	--	
6/26/12	7:30	71.35	6.0	--	
6/27/12	7:30	71.3	6.0	--	
6/28/12	6:30	71.2	6.1	--	
6/29/12	6:30	71.2	6.1	--	
6/30/12	--	--	--	--	
7/1/12	--	--	--	--	
7/2/12	6:45	71.2	6.1	--	
7/3/12	6:30	71.3	6.0	--	
7/4/12	--	--	--	--	
7/5/12	--	--	--	--	
7/6/12	--	--	--	--	
7/7/12	--	--	--	--	
7/8/12	--	--	--	--	
7/9/12	6:30	71.2	6.1	--	
7/10/12	7:30	71.2	6.1	--	
7/11/12	7:30	71.2	6.1	--	
7/12/12	7:30	71.2	6.1	--	
7/13/12	7:30	71.2	6.1	--	
7/14/12	--	--	--	--	
7/15/12	--	--	--	--	
7/16/12	7:30	71.2	6.1	--	
7/17/12	7:30	71.2	6.1	--	
7/18/12	10:15	71.15	6.2	--	
7/19/12	7:30	71.15	6.2	--	

TABLE 2.3

2012 PUMPING DATA
GRAVEL UNDERDRAIN SUMP
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Monitoring Location Information

Top of sump (datum reference) 739.49
Bottom of sump (feet BTOS) 77.31
Bottom of sump (ft AMSL) 662.18
Diameter of sump (feet) 3

Date	Time of Water Level Measurement (hh:mm)	Water Level (feet BTOS)	Water Depth (feet AFOS)	Volume Pumped (gallons)	Comments
7/20/12	6:30	71.1	6.2	--	
7/21/12	--	--	--	--	
7/22/12	--	--	--	--	
7/23/12	6:30	71.15	6.2	--	
7/24/12	7:00	71.15	6.2	--	
7/25/12	6:30	71.15	6.2	--	
7/26/12	6:30	71.15	6.2	--	
7/27/12	7:00	71.15	6.2	--	
7/28/12	--	--	--	--	
7/29/12	--	--	--	--	
7/30/12	6:30	71.1	6.2	--	
7/31/12	6:30	71.1	6.2	--	
8/1/12	6:30	71.1	6.2	--	
8/2/12	7:00	71.1	6.2	--	
8/3/12	7:00	71.1	6.2	--	
8/4/12	--	--	--	--	
8/5/12	--	--	--	--	
8/6/12	7:30	71.1	6.2	--	
8/7/12	9:00	71.1	6.2	--	
8/8/12	10:15	71.0	6.3	--	
8/9/12	8:15	71.1	6.2	--	
8/10/12	7:30	71.1	6.2	--	
8/11/12	--	--	--	--	
8/12/12	--	--	--	--	
8/13/12	1:45	71.1	6.2	--	
8/14/12	8:00	71.1	6.2	--	
8/15/12	8:00	71.05	6.3	--	
8/16/12	8:00	71.05	6.3	--	
8/17/12	1:30	71.0	6.3	--	
8/18/12	--	--	--	--	
8/19/12	--	--	--	--	
8/20/12	8:00	71.0	6.3	--	
8/21/12	12:00	71.0	6.3	--	
8/22/12	7:30	71.0	6.3	--	
8/23/12	7:30	71.0	6.3	--	
8/24/12	7:30	71.0	6.3	--	
8/25/12	--	--	--	--	
8/26/12	--	--	--	--	
8/27/12	1:30	71.0	6.3	--	
8/28/12	7:30	71.0	6.3	--	
8/29/12	1:00	71.0	6.3	--	
8/30/12	11:00	71.0	6.3	--	
8/31/12	9:00	71.0	6.3	--	
9/1/12	--	--	--	--	
9/2/12	--	--	--	--	
9/3/12	9:30	71.0	6.3	--	
9/4/12	8:00	71.0	6.3	--	
9/5/12	7:30	71.0	6.3	--	
9/6/12	8:00	71.0	6.3	--	
9/7/12	7:30	71.0	6.3	--	
9/8/12	--	--	--	--	
9/9/12	--	--	--	--	
9/10/12	8:30	71.0	6.3	--	
9/11/12	7:45	71.0	6.3	--	
9/12/12	7:45	71.0	6.3	--	
9/13/12	8:00	71.0	6.3	--	
9/14/12	7:30	71.0	6.3	--	
9/15/12	--	--	--	--	
9/16/12	--	--	--	--	
9/17/12	8:00	71.0	6.3	--	
9/18/12	8:00	71.0	6.3	--	
9/19/12	7:45	71.0	6.3	--	
9/20/12	8:00	70.95	6.4	--	
9/21/12	7:45	71.0	6.3	--	
9/22/12	--	--	--	--	
9/23/12	--	--	--	--	
9/24/12	8:00	71.0	6.3	--	

TABLE 2.3
2012 PUMPING DATA
GRAVEL UNDERDRAIN SUMP
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Monitoring Location Information

Top of sump (datum reference) 739.49
Bottom of sump (feet BTOS) 77.31
Bottom of sump (ft AMSL) 662.18
Diameter of sump (feet) 3

Date	Time of Water Level Measurement (hh:mm)	Water Level (feet BTOS)	Water Depth (feet AFOS)	Volume Pumped (gallons)	Comments
9/25/12	8:00	71.0	6.3	--	
9/26/12	7:45	71.0	6.3	--	
9/27/12	8:00	70.95	6.4	--	
9/28/12	7:45	71.0	6.3	--	
9/29/12	--	--	--	--	
9/30/12	--	--	--	--	
10/1/12	9:00	70.9	6.4	--	
10/2/12	12:00	70.95	6.4	--	
10/3/12	8:00	70.95	6.4	--	
10/4/12	8:30	70.9	6.4	--	
10/5/12	8:15	70.9	6.4	--	
10/6/12	--	--	--	--	
10/7/12	--	--	--	--	
10/8/12	8:00	70.9	6.4	--	
10/9/12	8:30	70.9	6.4	--	
10/10/12	8:00	70.9	6.4	--	
10/11/12	3:00	70.9	6.4	--	
10/12/12	10:15	70.9	6.4	--	
10/13/12	--	--	--	--	
10/14/12	--	--	--	--	
10/15/12	8:00	70.9	6.4	--	
10/16/12	8:45	70.9	6.4	--	
10/17/12	8:00	70.9	6.4	--	
10/18/12	9:30	70.9	6.4	--	
10/19/12	8:30	70.9	6.4	--	
10/20/12	--	--	--	--	
10/21/12	--	--	--	--	
10/22/12	2:45	70.9	6.4	--	
10/23/12	8:15	70.9	6.4	--	
10/24/12	8:15	70.9	6.4	--	
10/25/12	8:00	70.85	6.5	--	
10/26/12	9:30	70.85	6.5	--	
10/27/12	--	--	--	--	
10/28/12	--	--	--	--	
10/29/12	9:00	70.85	6.5	--	
10/30/12	12:00	70.85	6.5	--	
10/31/12	8:15	70.85	6.5	--	
11/1/12	8:00	--	--	69,235	Unable to get level reading
11/2/12	8:00	--	--	29,100	Unable to get level reading
11/3/12	--	--	--	7,105	
11/4/12	--	--	--	6,545	
11/5/12	8:00	--	--	6,255	Unable to get level reading
11/6/12	8:00	75.1	2.2	6,060	Pump still running
11/7/12	8:00	75.1	2.2	5,780	Pump still running
11/8/12	8:00	75.1	2.2	5,805	Pump still running
11/9/12	8:00	75.1	2.2	5,655	Pump still running
11/10/12	--	--	--	5,575	
11/11/12	--	--	--	5,445	
11/12/12	2:30	75.1	2.2	5,415	Pump still running
11/13/12	1:30	75.1	2.2	5,595	Pump still running
11/14/12	12:00	75.1	2.2	3,345	Pump Off
11/15/12	1:45	74.3	3.0	0	
11/16/12	11:00	74.25	3.1	12,675	
11/17/12	--	--	--	5400 ^(a)	Estimated volume
11/18/12	--	--	--	5400 ^(a)	Estimated volume
11/19/12	2:33	75.1	2.2	5400 ^(a)	Pump Running; Estimated volume
11/20/12	9:43	75.1	2.2	5400 ^(a)	Pump Running; Estimated volume
11/21/12	1:55	75.1	2.2	3500 ^(a)	Pump Off; Estimated volume
11/22/12	1:33	74.3	3.0	--	Pump Off
11/23/12	1:27	74.25	3.1	--	Pump Off
11/24/12	--	--	--	--	
11/25/12	--	--	--	--	
11/26/12	1:30	73.3	4.0	--	Pump Off
11/27/12	1:00	73.1	4.2	--	
11/28/12	1:00	73.0	4.3	--	
11/29/12	11:30	72.9	4.4	--	
11/30/12	1:00	72.7	4.6	--	

TABLE 2.3
2012 PUMPING DATA
GRAVEL UNDERDRAIN SUMP
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Monitoring Location Information

Top of sump (datum reference)	739.49
Bottom of sump (feet BTOS)	77.31
Bottom of sump (ft AMSL)	662.18
Diameter of sump (feet)	3

Date	Time of Water Level Measurement (hh:mm)	Water Level (feet BTOS)	Water Depth (feet AFOS)	Volume Pumped (gallons)	Comments
12/1/12	--	--	--	--	
12/2/12	--	--	--	--	
12/3/12	12:30	72.4	4.9	--	
12/4/12	1:00	72.3	5.0	--	
12/5/12	4:30	72.2	5.1	--	
12/6/12	4:30	72.1	5.2	--	
12/7/12	12:30	72.0	5.3	--	
12/8/12	10:00	71.9	5.4	--	
12/9/12	--	--	--	--	
12/10/12	1:00	71.8	5.5	--	
12/11/12	2:30	71.7	5.7	--	
12/12/12	2:03	71.6	5.8	--	
12/13/12	11:30	71.5	5.8	--	
12/14/12	11:11	71.5	5.9	--	
12/15/12	--	--	--	--	
12/16/12	--	--	--	--	
12/17/12	10:10	71.4	5.9	--	
12/18/12	11:20	71.35	6.0	--	
12/19/12	8:52	71.35	6.0	--	
12/20/12	3:23	71.35	6.0	--	
12/21/12	12:54	71.35	6.0	--	
12/22/12	--	--	--	--	
12/23/12	--	--	--	--	
12/24/12	10:46	71.35	6.0	--	
12/25/12	9:36	71.35	6.0	--	
12/26/12	10:46	71.35	6.0	--	
12/27/12	9:37	71.35	6.0	--	
12/28/12	11:30	71.35	6.0	--	
12/29/12	1:15	71.3	6.0	--	
12/30/12	2:30	71.3	6.0	--	
12/31/12	11:26	71.2	6.1	--	
Minimum		69.0	2.2		
Maximum		75.1	8.3		
Mean		71.1	6.2		
Total Volume Pumped (gallons)				811,978	

Notes:

Data was compiled in accordance with prior annual reports.

No measurements were made most weekends or on holidays.

Manual level measurements were not taken in the GUS 3/6/2012 through 5/31/2012 after the initiation of the LCS and GUS automated pumping. Data were to be recorded at the SSC WTP however records were lost either due to electrical problems or system error.

^(a) Volume was not recorded at the SSC WTP so volume estimated based on prior November 2012 daily pumping volumes recorded at the SSC WTP

TABLE 2.4

**SUMMARY OF WATER ELEVATIONS
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

<i>Sump</i>	<u>LCS</u>	<u>LDS</u>	<u>GUS</u>
<i>Top of sump (feet AMSL)</i>	740.83	741.14	739.49
<i>Bottom of sump (feet below top of sump [BTOS])</i>	69.83	72.64	77.31
<i>Bottom of sump (ft AMSL)</i>	671.00	668.50	662.18
<i>Diameter of sump (feet)</i>	6	6	3

Date (mm/dd/yy)	LCS Water Elevation (feet AMSL)	LDS Water Elevation (feet AMSL)	GUS Water Elevation (feet AMSL)
1/1/12	--	--	--
1/2/12	--	--	--
1/3/12	679.5	671.0	670.4
1/4/12	679.6	671.0	670.4
1/5/12	679.6	671.0	670.4
1/6/12	679.6	671.1	670.4
1/7/12	679.6	671.1	670.4
1/8/12	679.6	671.1	670.4
1/9/12	679.6	671.1	670.4
1/10/12	679.6	671.1	670.4
1/11/12	679.6	671.2	670.4
1/12/12	679.7	671.2	670.4
1/13/12	679.7	671.2	670.4
1/14/12	--	--	--
1/15/12	--	--	--
1/16/12	679.8	671.2	670.4
1/17/12	679.8	671.3	670.5
1/18/12	679.8	671.3	670.5
1/19/12	679.8	671.3	670.5
1/20/12	679.8	671.3	670.5
1/21/12	--	--	--
1/22/12	679.8	671.3	670.5
1/23/12	679.8	671.3	670.5
1/24/12	679.8	671.3	670.4
1/25/12	679.8	671.3	670.4
1/26/12	679.8	671.3	670.4
1/27/12	679.8	671.4	670.4
1/28/12	--	--	--
1/29/12	--	--	--
1/30/12	679.8	671.4	670.4
1/31/12	--	671.4	670.4
2/1/12	679.8	671.4	670.4
2/2/12	679.8	671.4	670.4
2/3/12	679.8	671.4	670.4
2/4/12	--	--	--
2/5/12	--	--	--
2/6/12	679.8	671.4	670.4

TABLE 2.4

**SUMMARY OF WATER ELEVATIONS
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

<i>Sump</i>	<i><u>LCS</u></i>	<i><u>LDS</u></i>	<i><u>GUS</u></i>
<i>Top of sump (feet AMSL)</i>	740.83	741.14	739.49
<i>Bottom of sump (feet below top of sump [BTOS])</i>	69.83	72.64	77.31
<i>Bottom of sump (ft AMSL)</i>	671.00	668.50	662.18
<i>Diameter of sump (feet)</i>	6	6	3

<i>Date (mm/dd/yy)</i>	<i>LCS Water Elevation (feet AMSL)</i>	<i>LDS Water Elevation (feet AMSL)</i>	<i>GUS Water Elevation (feet AMSL)</i>
2/7/12	679.8	671.4	670.4
2/8/12	679.8	671.1	670.4
2/9/12	679.8	669.5	670.4
2/10/12	679.8	668.8	670.4
2/11/12	--	--	--
2/12/12	--	--	--
2/13/12	680.8	669.5	--
2/14/12	680.8	669.9	--
2/15/12	680.8	670.1	--
2/16/12	680.8	670.5	--
2/17/12	680.8	669.4	--
2/18/12	--	--	--
2/19/12	--	--	--
2/20/12	680.9	670.4	--
2/21/12	681.0	669.0	--
2/22/12	681.0	669.2	--
2/23/12	681.0	669.5	--
2/24/12	681.0	669.7	--
2/25/12	--	--	--
2/26/12	--	--	--
2/27/12	681.1	670.6	--
2/28/12	681.1	668.9	--
2/29/12	681.1	669.2	--
3/1/12	681.1	669.5	--
3/2/12	680.8	669.8	--
3/3/12	--	--	--
3/4/12	--	--	--
3/5/12	679.6	670.3	--
3/6/12	679.6	670.4	--
3/7/12	--	670.4	--
3/8/12	--	670.5	--
3/9/12	--	670.6	--
3/10/12	--	--	--
3/11/12	--	--	--
3/12/12	--	670.7	--
3/13/12	--	670.8	--
3/14/12	--	670.8	--

TABLE 2.4

SUMMARY OF WATER ELEVATIONS
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

<i>Sump</i>	<i><u>LCS</u></i>	<i><u>LDS</u></i>	<i><u>GUS</u></i>
<i>Top of sump (feet AMSL)</i>	740.83	741.14	739.49
<i>Bottom of sump (feet below top of sump [BTOS])</i>	69.83	72.64	77.31
<i>Bottom of sump (ft AMSL)</i>	671.00	668.50	662.18
<i>Diameter of sump (feet)</i>	6	6	3

<i>Date (mm/dd/yy)</i>	<i>LCS Water Elevation (feet AMSL)</i>	<i>LDS Water Elevation (feet AMSL)</i>	<i>GUS Water Elevation (feet AMSL)</i>
3/15/12	--	670.8	--
3/16/12	--	670.9	--
3/17/12	--	--	--
3/18/12	--	--	--
3/19/12	--	670.1	--
3/20/12	--	670.1	--
3/21/12	--	670.2	--
3/22/12	--	670.3	--
3/23/12	--	670.3	--
3/24/12	--	--	--
3/25/12	--	--	--
3/26/12	--	670.5	--
3/27/12	--	670.6	--
3/28/12	--	670.6	--
3/29/12	--	670.6	--
3/30/12	--	670.6	--
3/31/12	--	--	--
4/1/12	--	--	--
4/2/12	--	670.7	--
4/3/12	--	670.8	--
4/4/12	--	670.8	--
4/5/12	--	670.8	--
4/6/12	--	--	--
4/7/12	--	--	--
4/8/12	--	--	--
4/9/12	--	670.39	--
4/10/12	--	670.39	--
4/11/12	--	670.39	--
4/12/12	--	670.39	--
4/13/12	--	670.69	--
4/14/12	--	--	--
4/15/12	--	--	--
4/16/12	--	670.39	--
4/17/12	--	670.5	--
4/18/12	--	670.6	--
4/19/12	--	670.7	--
4/20/12	--	670.8	--

TABLE 2.4

SUMMARY OF WATER ELEVATIONS
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

	<u>Sump</u>	<u>LCS</u>	<u>LDS</u>	<u>GUS</u>
Top of sump (feet AMSL)		740.83	741.14	739.49
Bottom of sump (feet below top of sump [BTOS])		69.83	72.64	77.31
Bottom of sump (ft AMSL)		671.00	668.50	662.18
Diameter of sump (feet)		6	6	3

Date (mm/dd/yy)	LCS Water Elevation (feet AMSL)	LDS Water Elevation (feet AMSL)	GUS Water Elevation (feet AMSL)
4/21/12	--	--	--
4/22/12	--	--	--
4/23/12	--	670.8	--
4/24/12	--	671.0	--
4/25/12	--	669.7	--
4/26/12	--	669.8	--
4/27/12	--	669.8	--
4/28/12	--	--	--
4/29/12	--	--	--
4/30/12	--	669.9	--
5/1/12	--	669.9	--
5/2/12	--	669.9	--
5/3/12	--	670.0	--
5/4/12	--	670.0	--
5/5/12	--	--	--
5/6/12	--	--	--
5/7/12	--	670.1	--
5/8/12	--	670.1	--
5/9/12	--	670.2	--
5/10/12	--	670.2	--
5/11/12	--	670.2	--
5/12/12	--	--	--
5/13/12	--	--	--
5/14/12	--	670.3	--
5/15/12	--	670.3	--
5/16/12	--	670.39	--
5/17/12	--	670.39	--
5/18/12	--	670.4	--
5/19/12	--	--	--
5/20/12	--	--	--
5/21/12	--	670.4	--
5/22/12	--	670.5	--
5/23/12	--	670.5	--
5/24/12	--	670.5	--
5/25/12	--	670.6	--
5/26/12	--	--	--
5/27/12	--	--	--

TABLE 2.4

**SUMMARY OF WATER ELEVATIONS
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

<i>Sump</i>	<i><u>LCS</u></i>	<i><u>LDS</u></i>	<i><u>GUS</u></i>
<i>Top of sump (feet AMSL)</i>	740.83	741.14	739.49
<i>Bottom of sump (feet below top of sump [BTOS])</i>	69.83	72.64	77.31
<i>Bottom of sump (ft AMSL)</i>	671.00	668.50	662.18
<i>Diameter of sump (feet)</i>	6	6	3

<i>Date (mm/dd/yy)</i>	<i>LCS Water Elevation (feet AMSL)</i>	<i>LDS Water Elevation (feet AMSL)</i>	<i>GUS Water Elevation (feet AMSL)</i>
5/28/12	--	--	--
5/29/12	--	669.1	--
5/30/12	--	669.19	--
5/31/12	--	669.2	668.1
6/1/12	673.43	669.29	668.09
6/2/12	--	--	--
6/3/12	--	--	--
6/4/12	673.5	669.3	668.1
6/5/12	673.53	669.39	668.09
6/6/12	673.53	669.39	668.09
6/7/12	673.5	669.4	668.1
6/8/12	673.5	669.4	668.1
6/9/12	--	--	--
6/10/12	--	--	--
6/11/12	673.6	669.5	668.2
6/12/12	673.6	669.5	668.1
6/13/12	673.6	669.5	668.2
6/14/12	673.63	669.59	668.14
6/15/12	673.6	669.6	668.2
6/16/12	--	--	--
6/17/12	--	--	--
6/18/12	673.73	669.69	668.19
6/19/12	673.7	669.7	668.2
6/20/12	673.7	669.7	668.2
6/21/12	673.73	669.79	668.19
6/22/12	671.23	669.79	668.19
6/23/12	--	--	--
6/24/12	--	--	--
6/25/12	671.5	669.7	668.2
6/26/12	671.48	669.79	668.14
6/27/12	671.48	669.79	668.19
6/28/12	671.53	669.79	668.29
6/29/12	671.53	669.79	668.29
6/30/12	--	--	--
7/1/12	--	--	--
7/2/12	671.58	669.79	668.29
7/3/12	671.58	669.79	668.19

TABLE 2.4

SUMMARY OF WATER ELEVATIONS
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

<i>Sump</i>	<i>LCS</i>	<i>LDS</i>	<i>GUS</i>
<i>Top of sump (feet AMSL)</i>	740.83	741.14	739.49
<i>Bottom of sump (feet below top of sump [BTOS])</i>	69.83	72.64	77.31
<i>Bottom of sump (ft AMSL)</i>	671.00	668.50	662.18
<i>Diameter of sump (feet)</i>	6	6	3

<i>Date (mm/dd/yy)</i>	<i>LCS Water Elevation (feet AMSL)</i>	<i>LDS Water Elevation (feet AMSL)</i>	<i>GUS Water Elevation (feet AMSL)</i>
7/4/12	--	--	--
7/5/12	--	--	--
7/6/12	--	--	--
7/7/12	--	--	--
7/8/12	--	--	--
7/9/12	671.6	669.9	668.3
7/10/12	671.6	669.9	668.3
7/11/12	671.6	669.8	668.3
7/12/12	671.7	669.8	668.3
7/13/12	671.6	669.8	668.3
7/14/12	--	--	--
7/15/12	--	--	--
7/16/12	671.7	669.8	668.3
7/17/12	671.7	669.8	668.3
7/18/12	671.7	669.8	668.3
7/19/12	671.73	669.89	668.34
7/20/12	671.7	669.9	668.4
7/21/12	--	--	--
7/22/12	--	--	--
7/23/12	671.73	669.99	668.34
7/24/12	671.73	669.99	668.34
7/25/12	671.83	669.99	668.34
7/26/12	671.83	669.99	668.34
7/27/12	671.83	670.04	668.34
7/28/12	--	--	--
7/29/12	--	--	--
7/30/12	671.83	670.09	668.39
7/31/12	671.88	670.09	668.39
8/1/12	671.88	670.09	668.39
8/2/12	671.9	670.1	668.4
8/3/12	671.9	670.1	668.4
8/4/12	--	--	--
8/5/12	--	--	--
8/6/12	671.93	670.19	668.39
8/7/12	671.93	670.19	668.39
8/8/12	672.0	670.1	668.5
8/9/12	672.0	670.2	668.4

TABLE 2.4

**SUMMARY OF WATER ELEVATIONS
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

	<u>Sump</u>	<u>LCS</u>	<u>LDS</u>	<u>GUS</u>
Top of sump (feet AMSL)		740.83	741.14	739.49
Bottom of sump (feet below top of sump [BTOS])		69.83	72.64	77.31
Bottom of sump (ft AMSL)		671.00	668.50	662.18
Diameter of sump (feet)		6	6	3

Date (mm/dd/yy)	LCS Water Elevation (feet AMSL)	LDS Water Elevation (feet AMSL)	GUS Water Elevation (feet AMSL)
8/10/12	671.98	670.29	668.39
8/11/12	--	--	--
8/12/12	--	--	--
8/13/12	672.0	670.3	668.4
8/14/12	672.0	670.3	668.4
8/15/12	672.0	670.3	668.4
8/16/12	672.0	670.3	668.4
8/17/12	672.03	670.39	668.49
8/18/12	--	--	--
8/19/12	--	--	--
8/20/12	672.1	670.4	668.5
8/21/12	672.1	670.4	668.5
8/22/12	672.1	670.4	668.5
8/23/12	672.1	670.4	668.5
8/24/12	672.23	670.49	668.49
8/25/12	--	--	--
8/26/12	--	--	--
8/27/12	672.2	670.5	668.5
8/28/12	672.2	670.5	668.5
8/29/12	672.2	670.5	668.5
8/30/12	672.2	669.1	668.5
8/31/12	672.2	669.3	668.5
9/1/12	--	--	--
9/2/12	--	--	--
9/3/12	672.3	669.4	668.5
9/4/12	672.3	669.4	668.5
9/5/12	672.3	669.4	668.5
9/6/12	672.3	669.5	668.5
9/7/12	672.3	669.5	668.5
9/8/12	--	--	--
9/9/12	--	--	--
9/10/12	672.43	669.59	668.49
9/11/12	672.38	669.59	668.49
9/12/12	672.38	669.59	668.49
9/13/12	672.43	669.59	668.49
9/14/12	672.43	669.59	668.49
9/15/12	--	--	--

TABLE 2.4

**SUMMARY OF WATER ELEVATIONS
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA**

<i>Sump</i>	<u>LCS</u>	<u>LDS</u>	<u>GUS</u>
<i>Top of sump (feet AMSL)</i>	740.83	741.14	739.49
<i>Bottom of sump (feet below top of sump [BTOS])</i>	69.83	72.64	77.31
<i>Bottom of sump (ft AMSL)</i>	671.00	668.50	662.18
<i>Diameter of sump (feet)</i>	6	6	3

Date (mm/dd/yy)	LCS Water Elevation (feet AMSL)	LDS Water Elevation (feet AMSL)	GUS Water Elevation (feet AMSL)
9/16/12	--	--	--
9/17/12	672.5	669.6	668.5
9/18/12	672.5	669.6	668.5
9/19/12	672.48	669.69	668.49
9/20/12	672.5	669.7	668.5
9/21/12	672.5	669.7	668.5
9/22/12	--	--	--
9/23/12	--	--	--
9/24/12	672.5	669.7	668.5
9/25/12	672.53	669.79	668.49
9/26/12	672.53	669.79	668.49
9/27/12	672.58	669.79	668.54
9/28/12	672.6	669.8	668.5
9/29/12	--	--	--
9/30/12	--	--	--
10/1/12	672.6	669.8	668.6
10/2/12	672.58	669.89	668.54
10/3/12	672.6	669.9	668.5
10/4/12	672.6	669.9	668.6
10/5/12	672.7	669.9	668.6
10/6/12	--	--	--
10/7/12	--	--	--
10/8/12	672.73	669.99	668.59
10/9/12	672.73	669.99	668.59
10/10/12	672.73	669.99	668.59
10/11/12	672.7	670.0	668.6
10/12/12	672.7	670.0	668.6
10/13/12	--	--	--
10/14/12	--	--	--
10/15/12	672.7	670.0	668.6
10/16/12	672.83	670.09	668.59
10/17/12	672.83	670.09	668.59
10/18/12	672.8	670.1	668.6
10/19/12	672.8	670.1	668.6
10/20/12	--	--	--
10/21/12	--	--	--
10/22/12	672.8	670.1	668.6

TABLE 2.4

SUMMARY OF WATER ELEVATIONS
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

<i>Sump</i>	<i>LCS</i>	<i>LDS</i>	<i>GUS</i>
<i>Top of sump (feet AMSL)</i>	740.83	741.14	739.49
<i>Bottom of sump (feet below top of sump [BTOS])</i>	69.83	72.64	77.31
<i>Bottom of sump (ft AMSL)</i>	671.00	668.50	662.18
<i>Diameter of sump (feet)</i>	6	6	3

<i>Date (mm/dd/yy)</i>	<i>LCS Water Elevation (feet AMSL)</i>	<i>LDS Water Elevation (feet AMSL)</i>	<i>GUS Water Elevation (feet AMSL)</i>
10/23/12	672.8	670.1	668.6
10/24/12	672.88	670.19	668.59
10/25/12	672.88	670.19	668.64
10/26/12	672.88	670.19	668.64
10/27/12	--	--	--
10/28/12	--	--	--
10/29/12	672.88	670.19	668.64
10/30/12	672.9	670.2	668.6
10/31/12	672.9	670.2	668.6
11/1/12	672.9	670.2	--
11/2/12	672.9	670.2	--
11/3/12	--	--	--
11/4/12	--	--	--
11/5/12	672.98	670.29	--
11/6/12	673.03	670.29	664.39
11/7/12	673.03	670.29	664.39
11/8/12	673.03	670.29	664.39
11/9/12	673.0	670.3	664.4
11/10/12	--	--	--
11/11/12	--	--	--
11/12/12	673.0	670.3	664.4
11/13/12	673.0	670.3	664.4
11/14/12	673.1	670.3	664.4
11/15/12	673.1	670.3	665.2
11/16/12	673.43	670.39	665.24
11/17/12	--	--	--
11/18/12	--	--	--
11/19/12	673.2	670.4	664.4
11/20/12	673.2	670.4	664.4
11/21/12	673.2	670.4	664.4
11/22/12	673.2	670.4	665.2
11/23/12	673.2	670.4	665.2
11/24/12	--	--	--
11/25/12	--	--	--
11/26/12	673.18	670.49	666.19
11/27/12	673.18	670.49	666.39
11/28/12	673.18	670.49	666.49

TABLE 2.4

SUMMARY OF WATER ELEVATIONS
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

<i>Sump</i>	<i>LCS</i>	<i>LDS</i>	<i>GUS</i>
<i>Top of sump (feet AMSL)</i>	740.83	741.14	739.49
<i>Bottom of sump (feet below top of sump [BTOS])</i>	69.83	72.64	77.31
<i>Bottom of sump (ft AMSL)</i>	671.00	668.50	662.18
<i>Diameter of sump (feet)</i>	6	6	3

<i>Date (mm/dd/yy)</i>	<i>LCS Water Elevation (feet AMSL)</i>	<i>LDS Water Elevation (feet AMSL)</i>	<i>GUS Water Elevation (feet AMSL)</i>
11/29/12	673.23	670.49	666.59
11/30/12	673.23	670.49	666.79
12/1/12	--	--	--
12/2/12	--	--	--
12/3/12	673.23	670.49	667.09
12/4/12	673.23	670.49	667.19
12/5/12	673.23	670.49	667.29
12/6/12	673.2	670.5	667.4
12/7/12	673.23	670.59	667.49
12/8/12	673.3	670.6	667.6
12/9/12	--	--	--
12/10/12	673.3	669.2	667.7
12/11/12	673.4	669.3	667.8
12/12/12	673.43	669.39	667.94
12/13/12	673.4	669.4	668.0
12/14/12	673.5	669.4	668.0
12/15/12	--	--	--
12/16/12	--	--	--
12/17/12	673.53	669.49	668.09
12/18/12	673.5	669.5	668.1
12/19/12	673.5	669.5	668.1
12/20/12	673.5	669.5	668.1
12/21/12	673.5	669.5	668.1
12/22/12	--	--	--
12/23/12	--	--	--
12/24/12	673.58	669.59	668.14
12/25/12	673.58	669.59	668.14
12/26/12	673.58	669.59	668.14
12/27/12	673.6	669.6	668.1
12/28/12	673.6	669.6	668.1
12/29/12	673.6	669.6	668.2
12/30/12	673.6	669.6	668.2
12/31/12	673.6	669.7	668.3

Notes:

-- Water level measurements were not collected.

TABLE 2.5
MAXIMUM WATER ELEVATION SUMMARY
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

<i>Date</i>	<i>Maximum Water Level, measured in feet</i>								
	<i>LCS¹</i>			<i>LDS²</i>			<i>Underdrain System³</i>		
	<i>BTOS</i>	<i>AFOS</i>	<i>Water Surface Elev. (ft AMSL)</i>	<i>BTOS</i>	<i>AFOS</i>	<i>Water Surface Elev. (ft AMSL)</i>	<i>BTOS</i>	<i>AFOS</i>	<i>Water Surface Elev. (ft AMSL)</i>
<i>Jan-12</i>	61.0	8.8	679.8	69.7	2.94	671.4	69	8.31	670.5
<i>Feb-12</i>	59.7	10.13	681.1	69.7	2.94	671.4	69.1	8.21	670.4
<i>Mar-12</i>	59.7	10.13	681.1	70.2	2.44	670.9	N/M	N/M	N/M
<i>Apr-12</i>	N/M	N/M	N/M	70.1	2.54	671.0	N/M	N/M	N/M
<i>May-12</i>	N/M	N/M	N/M	70.5	2.14	670.6	71.4	5.91	668.1
<i>Jun-12</i>	67.10	2.73	673.7	71.35	1.29	669.8	71.2	6.11	668.3
<i>Jul-12</i>	69.0	0.9	671.9	71.05	1.59	670.1	71.1	6.21	668.4
<i>Aug-12</i>	68.60	1.23	672.2	70.6	2.04	670.5	71	6.31	668.5
<i>Sep-12</i>	68.3	1.6	672.6	71.3	1.34	669.8	70.95	6.36	668.5
<i>Oct-12</i>	67.9	1.93	672.9	70.9	1.74	670.2	70.85	6.46	668.6
<i>Nov-12</i>	67.4	2.43	673.4	70.65	1.99	670.5	72.7	4.61	666.8
<i>Dec-12</i>	67.2	2.6	673.6	70.5	2.14	670.6	71.2	6.11	668.3

Notes:

BTOS - Below top of sump

AFOS - Above floor of sump

N/M - No measurements taken during period

Top of sump (datum reference) = 0.0

Diameter of LCS and LDS sumps = 6.0 feet

Diameter of Underdrain sump = 3 feet

¹ LCS bottom of sump (BTOS) = 69.83 feet

² LDS bottom of sump (BTOS) = 72.64 feet

³ Underdrain System bottom of sump (feet BTOS) = 77.31 feet

TABLE 3.1

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 FIRST SEMI-ANNUAL (2011)GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		A001MonitoringWell_WestPlantA	A001MonitoringWell_WestPlantA	A001MonitoringWell_WestPlantA	l001MonitoringWell_WestPlantArea	EastPlantArea	EastPlantArea	EastPlantArea	EastPlantArea	EastPlantArea	toringWell_RFIBoundary_WestPlant
Sample Location		rea	rea	rea	rea	CH-42	CH-42A	CH-43	CH-44	MW-X227Y054	MW-X033Y1475
Sample Identification		GW-080212-SA-015	GW-080212-SA-017	GW-080212-SA-013	GW-080212-SA-019	GW-073112-SA-003	GW-073112-JL-004	GW-073112-JL-006	GW-073112-SA-005	GW-080312-JL-026	GW-080112-JL-016
Sample Date		8/2/2012	8/2/2012	8/2/2012	8/2/2012	7/31/2012	7/31/2012	7/31/2012	7/31/2012	8/3/2012	8/1/2012
Sample Type			Duplicate								
Units											
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	0.21 UJ	0.20 UJ	0.21 UJ	0.21 UJ	0.20 U	0.22 U	0.23 U	0.21 U	1.1 U	0.20 U
Aroclor-1221 (PCB-1221)	ug/L	0.21 UJ	0.20 UJ	0.21 UJ	0.21 UJ	0.20 U	0.22 U	0.23 U	0.21 U	1.1 U	0.20 U
Aroclor-1232 (PCB-1232)	ug/L	0.21 UJ	0.20 UJ	0.21 UJ	0.21 UJ	0.20 U	0.22 U	0.23 U	0.21 U	1.1 U	0.20 U
Aroclor-1242 (PCB-1242)	ug/L	0.21 UJ	0.20 UJ	0.21 UJ	0.21 UJ	0.20 U	0.22 U	0.23 U	0.21 U	9.8	0.20 U
Aroclor-1248 (PCB-1248)	ug/L	0.21 UJ	0.20 UJ	0.27 J	0.21 UJ	0.20 U	0.22 U	0.23 U	0.21 U	1.1 U	0.20 U
Aroclor-1254 (PCB-1254)	ug/L	0.21 U	0.20 U	0.21 UJ	0.21 U	0.20 U	0.22 U	0.23 U	0.21 U	1.1 U	0.20 U
Aroclor-1260 (PCB-1260)	ug/L	0.21 U	0.20 U	0.078 J	0.21 U	0.20 U	0.22 U	0.23 U	0.21 U	1.1 U	0.20 U
Total PCBs	ug/L	ND	ND	0.348 J	ND	ND	ND	ND	ND	9.8	ND
Aroclor-1016 (PCB-1016) (dissolved)	ug/L	0.22 UJ	0.20 UJ	0.21 UJ	0.22 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U	0.22 U
Aroclor-1221 (PCB-1221) (dissolved)	ug/L	0.22 UJ	0.20 UJ	0.21 UJ	0.22 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U	0.22 U
Aroclor-1232 (PCB-1232) (dissolved)	ug/L	0.22 UJ	0.20 UJ	0.21 UJ	0.22 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U	0.22 U
Aroclor-1242 (PCB-1242) (dissolved)	ug/L	0.22 UJ	0.20 UJ	0.21 UJ	0.22 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U	0.22 U
Aroclor-1248 (PCB-1248) (dissolved)	ug/L	0.22 UJ	0.20 UJ	0.21 UJ	0.22 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U	0.22 U
Aroclor-1254 (PCB-1254) (dissolved)	ug/L	0.22 U	0.20 U	0.21 UJ	0.22 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U	0.22 U
Aroclor-1260 (PCB-1260) (dissolved)	ug/L	0.22 U	0.20 U	0.21 UJ	0.22 U	0.21 U	0.22 U	0.22 U	0.21 U	0.21 U	0.22 U
Total PCBs (dissolved)	ug/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (SVOCs)											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-

TABLE 3.1

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 FIRST SEMI-ANNUAL (2011)GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		A001MonitoringWell_WestPlantA	A001MonitoringWell_WestPlantA	A001MonitoringWell_WestPlantA						
Sample Location		rea	rea	rea	l001MonitoringWell_WestPlantAre	EastPlantArea	EastPlantArea	EastPlantArea	EastPlantArea	toringWell_RFIBoundary_WestPlani
Sample Identification		MW-X085Y070S-1	MW-X085Y070S-1	MW-X085Y070S-2	MW-X169Y058S-1	CH-42	CH-42A	CH-43	CH-44	MW-X227Y054
Sample Date		8/2/2012	8/2/2012	8/2/2012	8/2/2012	7/31/2012	7/31/2012	7/31/2012	7/31/2012	8/3/2012
Sample Type			Duplicate							
	Units									
PCBs										
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds (VOCs)										
1,1,1-Trichloroethane	ug/L	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/L	-	-	-	-	-	-	-	-	-

TABLE 3.1

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 FIRST SEMI-ANNUAL (2011)GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		A001MonitoringWell_WestPlantA	A001MonitoringWell_WestPlantA	A001MonitoringWell_WestPlantA	l001MonitoringWell_WestPlantArea	EastPlantArea	EastPlantArea	EastPlantArea	EastPlantArea	EastPlantArea	toringWell_RFIboundary_WestPlant
Sample Location		rea	rea	rea	rea	CH-42	CH-42A	CH-43	CH-44	MW-X227Y054	MW-X033Y147S
Sample Identification		GW-080212-SA-015	GW-080212-SA-017	GW-080212-SA-013	GW-080212-SA-019	GW-073112-SA-003	GW-073112-JL-004	GW-073112-JL-006	GW-073112-SA-005	GW-080312-JL-026	GW-080112-JL-016
Sample Date		8/2/2012	8/2/2012	8/2/2012	8/2/2012	7/31/2012	7/31/2012	7/31/2012	7/31/2012	8/3/2012	8/1/2012
Sample Type			Duplicate								
Units											
PCBs											
1,2-Dichloropropane	ug/L	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	-	-	-	-	-	-	-	-	-
2-Hexanone	ug/L	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	-	-	-	-	-	-	-	-	-
Acetone	ug/L	-	-	-	-	-	-	-	-	-	-
Benzene	ug/L	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	-	-	-	-	-	-	-	-	-	-
Bromoform	ug/L	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	ug/L	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	ug/L	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/L	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	ug/L	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/L	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	-	-	-
Cyclohexane	ug/L	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	ug/L	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/L	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	-	-	-	-	-	-	-	-	-	-
Toluene	ug/L	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	-	-	-
Trichloroethene	ug/L	-	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/L	-	-	-	-	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	ug/L	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	-	-	-	3.2	-	-	-	-	-	-
Xylenes (total)	ug/L	-	-	-	-	-	-	-	-	-	-
Field Parameters											
Conductivity, field	mS/cm	11.86	11.86	7.3	4.765	1.046	0.621	1.25	1.442	1.204	2.196
Dissolved oxygen (DO), field	ug/L	990	990	320	2150	6310	2890	1650	2880	1500	820
Oxidation reduction potential (ORP), field	millivolts	-153.4	-153.4	-187.4	-96.4	227.9	-44.2	-86	-72.7	-117.8	-37.4
pH, field	s.u.	6.53	6.53	6.99	6.77	6.57	7.38	6.86	6.95	7.07	6.38
Temperature, field	Deg C	19.18	19.18	20.17	19.34	18.62	18.72	23.78	23.91	17.2	21.73
Turbidity, field	NTU	2.57	2.57	11.5	0.62	3.17	18.7	3.48	54.1	44.9	10.01

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

ND - Not detected at the associated reporting limit.

TABLE 3.1

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 FIRST SEMI-ANNUAL (2011)GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		NA	P002	P002	P002_MonitoringWell	P006	P006	P006	P015	P205	P209
Sample Location		Trip Blank	MW-X000Y105	MW-X000Y105	MW-X012Y078	MW-X315Y115	MW-X315Y150	MW-X315Y150	Tributary 3-3	MW-X277Y100	MW-X300Y199f-1
Sample Identification		TB-080212-JL-001	GW-073112-SA-007	TB-071312-SA-001	GW-073112-JL-008	GW-080112-JL-014	GW-080112-JL-010	GW-080112-JL-012	SW-080212-JL-024	GW-080212-JL-018	GW-080112-SA-009
Sample Date		8/2/2012	7/31/2012	7/31/2012	7/31/2012	8/1/2012	8/1/2012	8/1/2012	8/2/2012	8/2/2012	8/1/2012
Sample Type								Duplicate			
	Units										
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	0.24 U	-	0.20 U	0.22 U	0.20 U	0.20 U	0.21 U	0.22 U	0.21 U
Aroclor-1221 (PCB-1221)	ug/L	-	0.24 U	-	0.20 U	0.22 U	0.20 U	0.20 U	0.21 U	0.22 U	0.21 U
Aroclor-1232 (PCB-1232)	ug/L	-	0.24 U	-	0.20 U	0.22 U	0.20 U	0.20 U	0.21 U	0.22 U	0.21 U
Aroclor-1242 (PCB-1242)	ug/L	-	0.24 U	-	0.20 U	0.22 U	0.061 J	0.065 J	0.13 J	0.29	0.21 U
Aroclor-1248 (PCB-1248)	ug/L	-	0.24 U	-	0.20 U	0.22 U	0.20 U	0.20 U	0.21 U	0.22 U	0.21 U
Aroclor-1254 (PCB-1254)	ug/L	-	0.24 U	-	0.20 U	0.22 U	0.20 U	0.20 U	0.21 U	0.22 U	0.21 U
Aroclor-1260 (PCB-1260)	ug/L	-	0.24 U	-	0.20 U	0.22 U	0.20 U	0.20 U	0.21 U	0.22 U	0.21 U
Total PCBs	ug/L	-	ND	-	ND	ND	0.061 J	0.065 J	0.13 J	0.29	ND
Aroclor-1016 (PCB-1016) (dissolved)	ug/L	-	0.21 U	-	0.21 U	0.22 U	0.20 U	0.20 U	0.21 U	0.21 U	0.21 U
Aroclor-1221 (PCB-1221) (dissolved)	ug/L	-	0.21 U	-	0.21 U	0.22 U	0.20 U	0.20 U	0.21 U	0.21 U	0.21 U
Aroclor-1232 (PCB-1232) (dissolved)	ug/L	-	0.21 U	-	0.21 U	0.22 U	0.20 U	0.20 U	0.21 U	0.21 U	0.21 U
Aroclor-1242 (PCB-1242) (dissolved)	ug/L	-	0.21 U	-	0.21 U	0.22 U	0.20 U	0.20 U	0.21 U	0.21 U	0.21 U
Aroclor-1248 (PCB-1248) (dissolved)	ug/L	-	0.21 U	-	0.21 U	0.22 U	0.20 U	0.20 U	0.21 U	0.090 J	0.21 U
Aroclor-1254 (PCB-1254) (dissolved)	ug/L	-	0.21 U	-	0.21 U	0.22 U	0.20 U	0.20 U	0.21 U	0.20 U	0.21 U
Aroclor-1260 (PCB-1260) (dissolved)	ug/L	-	0.21 U	-	0.21 U	0.22 U	0.20 U	0.20 U	0.21 U	0.21 U	0.21 U
Total PCBs (dissolved)	ug/L	-	ND	-	ND	ND	ND	ND	ND	0.09 J	ND
Semi-Volatile Organic Compounds (SVOCs)											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
2,4,5-Trichlorophenol	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
2,4,6-Trichlorophenol	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
2,4-Dichlorophenol	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
2,4-Dimethylphenol	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
2,4-Dinitrophenol	ug/L	-	50 U	-	-	-	-	-	-	54 U	-
2,4-Dinitrotoluene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
2,6-Dinitrotoluene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
2-Chloronaphthalene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
2-Chlorophenol	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
2-Methylnaphthalene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
2-Methylphenol	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
2-Nitroaniline	ug/L	-	50 U	-	-	-	-	-	-	54 U	-
2-Nitrophenol	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
3&4-Methylphenol	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
3,3'-Dichlorobenzidine	ug/L	-	50 U	-	-	-	-	-	-	54 U	-
3-Nitroaniline	ug/L	-	50 U	-	-	-	-	-	-	54 U	-
4,6-Dinitro-2-methylphenol	ug/L	-	50 U	-	-	-	-	-	-	54 U	-
4-Bromophenyl phenyl ether	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
4-Chloro-3-methylphenol	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
4-Chloroaniline	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
4-Chlorophenyl phenyl ether	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
4-Nitroaniline	ug/L	-	50 U	-	-	-	-	-	-	54 U	-
4-Nitrophenol	ug/L	-	50 U	-	-	-	-	-	-	54 U	-
Acenaphthene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Acenaphthylene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Acetophenone	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Anthracene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Atrazine	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Benzaldehyde	ug/L	-	10 U	-	-	-	-	-	-	11 UJ	-
Benzo(a)anthracene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Benzo(a)pyrene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Benzo(b)fluoranthene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Benzo(g,h,i)perylene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Benzo(k)fluoranthene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Biphenyl (1,1-Biphenyl)	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
bis(2-Chloroethoxy)methane	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
bis(2-Chloroethyl)ether	ug/L	-	10 U	-	-	-	-	-	-	11 U	-

TABLE 3.1

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 FIRST SEMI-ANNUAL (2011)GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		NA	P002	P002	P002_MonitoringWell	P006	P006	P006	P015	P205	P209
Sample Location		Trip Blank	MW-X000Y105	MW-X000Y105	MW-X012Y078	MW-X315Y115	MW-X315Y150	MW-X315Y150	Tributary 3-3	MW-X277Y100	MW-X300Y199I-1
Sample Identification		TB-080212-JL-001	GW-073112-SA-007	TB-071312-SA-001	GW-073112-JL-008	GW-080112-JL-014	GW-080112-JL-010	GW-080112-JL-012	SW-080212-JL-024	GW-080212-JL-018	GW-080112-SA-009
Sample Date		8/2/2012	7/31/2012	7/31/2012	7/31/2012	8/1/2012	8/1/2012	8/1/2012	8/2/2012	8/2/2012	8/1/2012
Sample Type								Duplicate			
Units											
PCBs											
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	1.6 J	-	-	-	-	-	-	11 U	-
Butyl benzylphthalate (BBP)	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Caprolactam	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Carbazole	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Chrysene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Dibenz(a,h)anthracene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Dibenzofuran	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Diethyl phthalate	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Dimethyl phthalate	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Di-n-butylphthalate (DBP)	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Di-n-octyl phthalate (DnOP)	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Fluoranthene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Fluorene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Hexachlorobenzene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Hexachlorobutadiene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Hexachlorocyclopentadiene	ug/L	-	50 U	-	-	-	-	-	-	54 U	-
Hexachloroethane	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Indeno(1,2,3-cd)pyrene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Isophorone	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Naphthalene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Nitrobenzene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
N-Nitrosodi-n-propylamine	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
N-Nitrosodiphenylamine	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Pentachlorophenol	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Phenanthrene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Phenol	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Pyrene	ug/L	-	10 U	-	-	-	-	-	-	11 U	-
Volatile Organic Compounds (VOCs)											
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	-	-	-	-	-	2.0 U	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-

TABLE 3.1

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 FIRST SEMI-ANNUAL (2011)GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		NA	P002	P002	P002_MonitoringWell	P006	P006	P006	P015	P205	P209
Sample Location		Trip Blank	MW-X000Y105	MW-X000Y105	MW-X012Y078	MW-X315Y115	MW-X315Y150	MW-X315Y150	Tributary 3-3	MW-X277Y100	MW-X300Y199f-1
Sample Identification		TB-080212-JL-001	GW-073112-SA-007	TB-071312-SA-001	GW-073112-JL-008	GW-080112-JL-014	GW-080112-JL-010	GW-080112-JL-012	SW-080212-JL-024	GW-080212-JL-018	GW-080112-SA-009
Sample Date		8/2/2012	7/31/2012	7/31/2012	7/31/2012	8/1/2012	8/1/2012	8/1/2012	8/2/2012	8/2/2012	8/1/2012
Sample Type								Duplicate			
	Units										
PCBs											
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	-	-	-	-	-	10 U	-
2-Hexanone	ug/L	10 U	10 U	10 U	-	-	-	-	-	10 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	-	-	-	-	-	10 U	-
Acetone	ug/L	10 U	10 U	1.4 J	-	-	-	-	-	10 U	-
Benzene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	0.22 J	-
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Methyl acetate	ug/L	10 U	10 U	10 U	-	-	-	-	-	10 U	-
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U	-	-	-	-	-	5.0 U	-
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Toluene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	0.25 J	-
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 U	1.0 U	-	-	-	-	-	1.0 UJ	-
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	1.0 U	-
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	-	-	-	-	-	2.0 U	-
Field Parameters											
Conductivity, field	mS/cm	-	0.892	-	0.902	0.489	0.346	0.346	1.003	0.766	0.536
Dissolved oxygen (DO), field	ug/L	-	2610	-	3170	1590	3600	3600	5540	1190	4940
Oxidation reduction potential (ORP), field	millivolts	-	144.7	-	85.7	-130.3	-51.9	-51.9	16	-52.8	-20
pH, field	s.u.	-	6.17	-	7.07	7.13	7.26	7.26	7.79	6.81	5.81
Temperature, field	Deg C	-	19.81	-	18.37	19.9	18.68	18.68	27.36	15.33	18.91
Turbidity, field	NTU	-	16.3	-	1.26	22.3	3.32	3.32	77.6	2.58	0.72

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

ND - Not detected at the associated reporting limit.

TABLE 3.1

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 FIRST SEMI-ANNUAL (2011)GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		P209	P216GM_P216_east	P386_MonitoringWell	Plant_property	Plant_Property	Plant_property	RFIBoundary_P216West
Sample Location		MW-X300Y199I-2	MW-X297Y305D-2	MW-X060Y304	MW-X043Y176	MW-X043Y186	MW-X047Y236	MW-X261Y356D-3
Sample Identification		GW-080112-SA-011	GW-080312-SA-023	GW-080212-JL-022	GW-073012-SA-001	GW-073012-SA-002	GW-080212-JL-020	GW-080312-SA-021
Sample Date		8/1/2012	8/3/2012	8/2/2012	7/30/2012	7/30/2012	8/2/2012	8/3/2012
Sample Type								
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	0.22 U	0.20 U	0.21 U	0.22 U	0.21 U	0.22 U	0.21 U
Aroclor-1221 (PCB-1221)	ug/L	0.22 U	0.20 U	0.21 U	0.22 U	0.21 U	0.22 U	0.21 U
Aroclor-1232 (PCB-1232)	ug/L	0.22 U	0.20 U	0.21 U	0.22 U	0.21 U	0.22 U	0.21 U
Aroclor-1242 (PCB-1242)	ug/L	0.22 U	0.20 U	0.21 U	0.22 U	0.21 U	0.095 J	0.21 U
Aroclor-1248 (PCB-1248)	ug/L	0.22 U	0.20 U	0.21 U	0.22 U	0.21 U	0.22 U	0.21 U
Aroclor-1254 (PCB-1254)	ug/L	0.22 U	0.20 U	0.22	0.22 U	0.21 U	0.22 U	0.21 U
Aroclor-1260 (PCB-1260)	ug/L	0.22 U	0.20 U	0.21 U	0.22 U	0.21 U	0.22 U	0.21 U
Total PCBs	ug/L	ND	ND	0.22	ND	ND	0.095 J	ND
Aroclor-1016 (PCB-1016) (dissolved)	ug/L	0.21 U	0.21 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
Aroclor-1221 (PCB-1221) (dissolved)	ug/L	0.21 U	0.21 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
Aroclor-1232 (PCB-1232) (dissolved)	ug/L	0.21 U	0.21 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
Aroclor-1242 (PCB-1242) (dissolved)	ug/L	0.21 U	0.21 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
Aroclor-1248 (PCB-1248) (dissolved)	ug/L	0.21 U	0.21 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
Aroclor-1254 (PCB-1254) (dissolved)	ug/L	0.21 U	0.21 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
Aroclor-1260 (PCB-1260) (dissolved)	ug/L	0.21 U	0.21 U	0.22 U	0.21 U	0.20 U	0.21 U	0.21 U
Total PCBs (dissolved)	ug/L	ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (SVOCs)								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-
Biphenyl (1,1'-Biphenyl)	ug/L	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-

TABLE 3.1

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 FIRST SEMI-ANNUAL (2011)GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		P209	P216GM_P216_east	P386_MonitoringWell	Plant_property	Plant_Property	Plant_property	RFIBoundary_P216West
Sample Location		MW-X300Y199I-2	MW-X297Y305D-2	MW-X060Y304	MW-X043Y176	MW-X043Y186	MW-X047Y236	MW-X261Y356D-3
Sample Identification		GW-080112-SA-011	GW-080312-SA-023	GW-080212-JL-022	GW-073012-SA-001	GW-073012-SA-002	GW-080212-JL-020	GW-080312-SA-021
Sample Date		8/1/2012	8/3/2012	8/2/2012	7/30/2012	7/30/2012	8/2/2012	8/3/2012
Sample Type								
	Units							
PCBs								
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-
Naphthalene	ug/L	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	-	-
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	ug/L	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/L	-	-	-	-	-	-	-

TABLE 3.1

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 FIRST SEMI-ANNUAL (2011)GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		P209	P216GM_P216_east	P386_MonitoringWell	Plant_property	Plant_Property	Plant_property	RFIBoundary_P216West
Sample Location		MW-X300Y199I-2	MW-X297Y305D-2	MW-X060Y304	MW-X043Y176	MW-X043Y186	MW-X047Y236	MW-X261Y356D-3
Sample Identification		GW-080112-SA-011	GW-080312-SA-023	GW-080212-JL-022	GW-073012-SA-001	GW-073012-SA-002	GW-080212-JL-020	GW-080312-SA-021
Sample Date		8/1/2012	8/3/2012	8/2/2012	7/30/2012	7/30/2012	8/2/2012	8/3/2012
Sample Type								
	Units							
PCBs								
1,2-Dichloropropane	ug/L	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	-	-	-	-	-	-
2-Hexanone	ug/L	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	-	-	-	-	-	-
Acetone	ug/L	-	-	-	-	-	-	-
Benzene	ug/L	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	-	-	-	-	-	-	-
Bromoform	ug/L	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	ug/L	-	-	-	-	-	-	-
Carbon disulfide	ug/L	-	-	-	-	-	-	-
Carbon tetrachloride	ug/L	-	-	-	-	-	-	-
Chlorobenzene	ug/L	-	-	-	-	-	-	-
Chloroethane	ug/L	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	ug/L	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/L	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-
Cyclohexane	ug/L	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	-	-	-
Ethylbenzene	ug/L	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	-	-	-	-	-	-	-
Methyl acetate	ug/L	-	-	-	-	-	-	-
Methyl cyclohexane	ug/L	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/L	-	-	-	-	-	-	-
Methylene chloride	ug/L	-	-	-	-	-	-	-
Styrene	ug/L	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	-	-	-	-	-	-	-
Toluene	ug/L	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-
Trichloroethene	ug/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/L	-	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	ug/L	-	-	-	-	-	-	-
Vinyl chloride	ug/L	-	-	-	-	-	-	-
Xylenes (total)	ug/L	-	-	-	-	-	-	-
Field Parameters								
Conductivity, field	mS/cm	0.619	0.654	0.124	2.06	2.661	0.613	0.572
Dissolved oxygen (DO), field	ug/L	1720	1090	90	1020	820	1670	5520
Oxidation reduction potential (ORP), field	millivolts	-39.1	-101.1	-53.7	-92	-153.1	-84.2	206.9
pH, field	s.u.	5.63	6.36	8.49	6.31	6.24	7.29	6.52
Temperature, field	Deg C	22.72	15.37	16.8	18.73	20.06	17.3	16.68
Turbidity, field	NTU	1.57	1.77	144	8.11	20.9	4.12	3.71

Notes:

U - Not detected at the associated reporting limit.

J - Estimated concentration.

UJ - Not detected; associated reporting limit is estimated.

ND - Not detected at the associated reporting limit.

TABLE 3.2

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 SECOND SEMI-ANNUAL (2011) GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area	A001MonitoringWell_ WestPlantArea		A001MonitoringWell_ WestPlantArea		A001MonitoringWell_ WestPlantArea		A001MonitoringWell_ WestPlantArea		A001MonitoringWell_ WestPlantArea		EastPlantArea		EastPlantArea	
Sample Location	MW-X085Y070S-1		MW-X085Y070S-1		MW-X085Y070S-2		MW-X169Y058S-1		MW-X169Y058S-1		CH-42		CH-42A	
Sample Identification	GW-121912-SA-015		GW-121912-SA-017		GW-121912-SA-013		GW-121912-SA-019		TB-121912-SA-001		GW-121712-SA-001		GW-121712-JH-002	
Sample Date	12/19/2012		12/19/2012		12/19/2012		12/19/2012		12/19/2012		12/17/2012		12/17/2012	
Sample Type			Duplicate											
Units														
PCBs														
Aroclor-1016 (PCB-1016)	ug/L	0.19 U		0.19 U		0.98 UJ		0.20 U		-		0.19 U		0.19 U
Aroclor-1221 (PCB-1221)	ug/L	0.19 U		0.19 U		0.98 UJ		0.20 U		-		0.19 U		0.19 U
Aroclor-1232 (PCB-1232)	ug/L	0.19 U		0.19 U		0.98 UJ		0.20 U		-		0.19 U		0.19 U
Aroclor-1242 (PCB-1242)	ug/L	0.19 U		0.19 U		0.98 UJ		0.20 U		-		0.19 U		0.19 U
Aroclor-1248 (PCB-1248)	ug/L	0.19 U		0.19 U		0.98 UJ		0.20 U		-		0.19 U		0.19 U
Aroclor-1254 (PCB-1254)	ug/L	0.19 U		0.19 U		0.98 UJ		0.20 U		-		0.19 U		0.19 U
Aroclor-1260 (PCB-1260)	ug/L	0.19 U		0.19 U		0.98 UJ		0.20 U		-		0.19 U		0.19 U
Total PCBs	ug/L	ND		ND		ND		ND		-		ND		ND
Aroclor-1016 (PCB-1016) (dissolved)	ug/L	0.19 U		0.19 U		0.19 UJ		0.19 U		-		0.19 U		0.19 U
Aroclor-1221 (PCB-1221) (dissolved)	ug/L	0.19 U		0.19 U		0.19 UJ		0.19 U		-		0.19 U		0.19 U
Aroclor-1232 (PCB-1232) (dissolved)	ug/L	0.19 U		0.19 U		0.19 UJ		0.19 U		-		0.19 U		0.19 U
Aroclor-1242 (PCB-1242) (dissolved)	ug/L	0.19 U		0.19 U		0.19 UJ		0.19 U		-		0.19 U		0.19 U
Aroclor-1248 (PCB-1248) (dissolved)	ug/L	0.19 U		0.19 U		0.19 UJ		0.19 U		-		0.19 U		0.19 U
Aroclor-1254 (PCB-1254) (dissolved)	ug/L	0.19 U		0.19 U		0.19 UJ		0.19 U		-		0.19 U		0.19 U
Aroclor-1260 (PCB-1260) (dissolved)	ug/L	0.19 U		0.19 U		0.19 UJ		0.19 U		-		0.19 U		0.19 U
Total PCBs (dissolved)	ug/L	ND		ND		ND		ND		-		ND		ND
Semi-Volatile Organic Compounds (SVOCs)														
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-		-		-		-		-		-		-
2,4,5-Trichlorophenol	ug/L	-		-		-		-		-		-		-
2,4,6-Trichlorophenol	ug/L	-		-		-		-		-		-		-
2,4-Dichlorophenol	ug/L	-		-		-		-		-		-		-
2,4-Dimethylphenol	ug/L	-		-		-		-		-		-		-
2,4-Dinitrophenol	ug/L	-		-		-		-		-		-		-
2,4-Dinitrotoluene	ug/L	-		-		-		-		-		-		-
2,6-Dinitrotoluene	ug/L	-		-		-		-		-		-		-
2-Chloronaphthalene	ug/L	-		-		-		-		-		-		-
2-Chlorophenol	ug/L	-		-		-		-		-		-		-
2-Methylnaphthalene	ug/L	-		-		-		-		-		-		-
2-Methylphenol	ug/L	-		-		-		-		-		-		-
2-Nitroaniline	ug/L	-		-		-		-		-		-		-
2-Nitrophenol	ug/L	-		-		-		-		-		-		-
3&4-Methylphenol	ug/L	-		-		-		-		-		-		-
3,3'-Dichlorobenzidine	ug/L	-		-		-		-		-		-		-
3-Nitroaniline	ug/L	-		-		-		-		-		-		-
4,6-Dinitro-2-methylphenol	ug/L	-		-		-		-		-		-		-
4-Bromophenyl phenyl ether	ug/L	-		-		-		-		-		-		-
4-Chloro-3-methylphenol	ug/L	-		-		-		-		-		-		-
4-Chloroaniline	ug/L	-		-		-		-		-		-		-
4-Chlorophenyl phenyl ether	ug/L	-		-		-		-		-		-		-
4-Nitroaniline	ug/L	-		-		-		-		-		-		-
4-Nitrophenol	ug/L	-		-		-		-		-		-		-

TABLE 3.2

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 SECOND SEMI-ANNUAL (2011) GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area	A001MonitoringWell_ WestPlantArea		A001MonitoringWell_ WestPlantArea		A001MonitoringWell_ WestPlantArea		A001MonitoringWell_ WestPlantArea		A001MonitoringWell_ WestPlantArea		EastPlantArea		EastPlantArea	
Sample Location	MW-X085Y070S-1		MW-X085Y070S-1		MW-X085Y070S-2		MW-X169Y058S-1		MW-X169Y058S-1		CH-42		CH-42A	
Sample Identification	GW-121912-SA-015		GW-121912-SA-017		GW-121912-SA-013		GW-121912-SA-019		TB-121912-SA-001		GW-121712-SA-001		GW-121712-JH-002	
Sample Date	12/19/2012		12/19/2012		12/19/2012		12/19/2012		12/19/2012		12/17/2012		12/17/2012	
Sample Type			Duplicate											
Units														
PCBs														
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 3.2

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 SECOND SEMI-ANNUAL (2011) GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area	A001MonitoringWell_ WestPlantArea		A001MonitoringWell_ WestPlantArea		A001MonitoringWell_ WestPlantArea		A001MonitoringWell_ WestPlantArea		A001MonitoringWell_ WestPlantArea		EastPlantArea		EastPlantArea	
Sample Location	MW-X085Y070S-1		MW-X085Y070S-1		MW-X085Y070S-2		MW-X169Y058S-1		MW-X169Y058S-1		CH-42		CH-42A	
Sample Identification	GW-121912-SA-015		GW-121912-SA-017		GW-121912-SA-013		GW-121912-SA-019		TB-121912-SA-001		GW-121712-SA-001		GW-121712-JH-002	
Sample Date	12/19/2012		12/19/2012		12/19/2012		12/19/2012		12/19/2012		12/17/2012		12/17/2012	
Sample Type			Duplicate											
Units														
PCBs														
Volatile Organic Compounds (VOCs)														
1,1,1-Trichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2-Hexanone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromoform	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon disulfide	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Toluene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 3.2

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 SECOND SEMI-ANNUAL (2011) GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		A001MonitoringWell_ WestPlantArea	A001MonitoringWell_ WestPlantArea	A001MonitoringWell_ WestPlantArea	A001MonitoringWell_ WestPlantArea	A001MonitoringWell_ WestPlantArea	EastPlantArea	EastPlantArea
Sample Location		MW-X085Y070S-1	MW-X085Y070S-1	MW-X085Y070S-2	MW-X169Y058S-1	MW-X169Y058S-1	CH-42	CH-42A
Sample Identification		GW-121912-SA-015	GW-121912-SA-017	GW-121912-SA-013	GW-121912-SA-019	TB-121912-SA-001	GW-121712-SA-001	GW-121712-JH-002
Sample Date		12/19/2012	12/19/2012	12/19/2012	12/19/2012	12/19/2012	12/17/2012	12/17/2012
Sample Type		Duplicate						
Units								
PCBs								
trans-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-
Trichloroethene	ug/L	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/L	-	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	ug/L	-	-	-	-	-	-	-
Vinyl chloride	ug/L	-	-	-	2.4	1.0 U	-	-
Xylenes (total)	ug/L	-	-	-	-	-	-	-
Fparam								
Conductivity, field	mS/cm	10.45	10.45	6.898	3.906	-	0.891	0.568
Dissolved oxygen (DO), field	ug/L	280	280	790	2670	-	1790	2560
Oxidation reduction potential (ORP), field	millivolt	162.3	162.3	200.3	237.4	-	171.4	-47.2
pH, field	s.u.	6.69	6.69	7.17	6.99	-	5.72	7.4
Temperature, field	Deg C	14.33	14.33	13.46	13.36	-	13.89	12.8
Turbidity, field	NTU	2.32	2.32	11.4	2.29	-	0.59	0.58

Notes:

ND - Not detected at the associated reporting limit.

TABLE 3.2

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 SECOND SEMI-ANNUAL (2011) GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		EastPlantArea	EastPlantArea	EastPlantArea	MonitoringWell_RFIBoundary_ WestPlantArea	P002	P002_MonitoringWell	P006	P006	P015	P205
Sample Location		CH-43	CH-44	MW-X227Y054	MW-X033Y147S	MW-X000Y105	MW-X012Y078	MW-X315Y115	MW-X315Y150	Tributary 3-3	MW-X277Y100
Sample Identification		GW-121712-JH-004	GW-121712-SA-003	GW-121812-JH-016	GW-121912-JH-018	EB-122012-JH-001	EB-122012-JH-002	GW-121912-JH-022	GW-121912-JH-020	SW-121912-SA-021	GW-121712-JH-006
Sample Date		12/17/2012	12/17/2012	12/18/2012	12/19/2012	12/20/2012	12/20/2012	12/19/2012	12/19/2012	12/19/2012	12/17/2012
Sample Type											
Units											
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1221 (PCB-1221)	ug/L	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1232 (PCB-1232)	ug/L	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1242 (PCB-1242)	ug/L	0.19 U	0.19 U	3.5 J	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.066 J
Aroclor-1248 (PCB-1248)	ug/L	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1254 (PCB-1254)	ug/L	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1260 (PCB-1260)	ug/L	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Total PCBs	ug/L	ND	ND	3.5 J	ND	ND	ND	ND	ND	ND	0.066 J
Aroclor-1016 (PCB-1016) (dissolved)	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	-	-	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1221 (PCB-1221) (dissolved)	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	-	-	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1232 (PCB-1232) (dissolved)	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	-	-	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1242 (PCB-1242) (dissolved)	ug/L	0.19 U	0.19 U	0.064 J	0.19 U	-	-	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1248 (PCB-1248) (dissolved)	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	-	-	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1254 (PCB-1254) (dissolved)	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	-	-	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1260 (PCB-1260) (dissolved)	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	-	-	0.19 U	0.19 U	0.19 U	0.19 U
Total PCBs (dissolved)	ug/L	ND	ND	0.064 J	ND	-	-	ND	ND	ND	ND
Semi-Volatile Organic Compounds (SVOCs)											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	48 U
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	48 U
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	48 U
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	48 U
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	48 U
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	9.5 U
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	48 U
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	48 U

TABLE 3.2

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 SECOND SEMI-ANNUAL (2011) GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area	EastPlantArea	EastPlantArea	EastPlantArea	MonitoringWell_RFIBoundary_WestPlantArea	P002	P002_MonitoringWell	P006	P006	P015	P205
Sample Location	CH-43	CH-44	MW-X227Y054	MW-X033Y147S	MW-X000Y105	MW-X012Y078	MW-X315Y115	MW-X315Y150	Tributary 3-3	MW-X277Y100
Sample Identification	GW-121712-JH-004	GW-121712-SA-003	GW-121812-JH-016	GW-121912-JH-018	EB-122012-JH-001	EB-122012-JH-002	GW-121912-JH-022	GW-121912-JH-020	SW-121912-SA-021	GW-121712-JH-006
Sample Date	12/17/2012	12/17/2012	12/18/2012	12/19/2012	12/20/2012	12/20/2012	12/19/2012	12/19/2012	12/19/2012	12/17/2012
Sample Type										
	Units									
PCBs										
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Acetophenone	ug/L	-	-	-	-	-	-	-	-	9.5 U
Anthracene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Atrazine	ug/L	-	-	-	-	-	-	-	-	9.5 U
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	9.5 U
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	9.5 U
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	9.5 U
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	9.5 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	9.5 U
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	9.5 U
Caprolactam	ug/L	-	-	-	-	-	-	-	-	9.5 U
Carbazole	ug/L	-	-	-	-	-	-	-	-	9.5 U
Chrysene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	9.5 U
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	9.5 U
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	9.5 U
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	9.5 U
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	9.5 U
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Fluorene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	48 U
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	9.5 U
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Isophorone	ug/L	-	-	-	-	-	-	-	-	9.5 U
Naphthalene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	9.5 U
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	9.5 U
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	9.5 U
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	9.5 U
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	9.5 U
Phenol	ug/L	-	-	-	-	-	-	-	-	9.5 U
Pyrene	ug/L	-	-	-	-	-	-	-	-	9.5 U

TABLE 3.2

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 SECOND SEMI-ANNUAL (2011) GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		EastPlantArea	EastPlantArea	EastPlantArea	MonitoringWell_RFIBoundary_ WestPlantArea	P002	P002_MonitoringWell	P006	P006	P015	P205
Sample Location		CH-43	CH-44	MW-X227Y054	MW-X033Y147S	MW-X000Y105	MW-X012Y078	MW-X315Y115	MW-X315Y150	Tributary 3-3	MW-X277Y100
Sample Identification		GW-121712-JH-004	GW-121712-SA-003	GW-121812-JH-016	GW-121912-JH-018	EB-122012-JH-001	EB-122012-JH-002	GW-121912-JH-022	GW-121912-JH-020	SW-121912-SA-021	GW-121712-JH-006
Sample Date		12/17/2012	12/17/2012	12/18/2012	12/19/2012	12/20/2012	12/20/2012	12/19/2012	12/19/2012	12/19/2012	12/17/2012
Sample Type		Units									
PCBs											
Volatile Organic Compounds (VOCs)											
1,1,1-Trichloroethane	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
1,1,2-Trichloroethane	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
1,1-Dichloroethane	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
1,1-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	-	-	-	-	-	-	-	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
1,2-Dichloroethane	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
1,2-Dichloropropane	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	-	-	-	-	-	-	-	-	10 U
2-Hexanone	ug/L	-	-	-	-	-	-	-	-	-	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	-	-	-	-	-	-	-	-	10 U
Acetone	ug/L	-	-	-	-	-	-	-	-	-	10 U
Benzene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Bromodichloromethane	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Bromoform	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Bromomethane (Methyl bromide)	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Carbon disulfide	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Carbon tetrachloride	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Chlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Chloroethane	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Chloroform (Trichloromethane)	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Chloromethane (Methyl chloride)	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
cis-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
cis-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Cyclohexane	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Dibromochloromethane	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Ethylbenzene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Isopropyl benzene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Methyl acetate	ug/L	-	-	-	-	-	-	-	-	-	10 U
Methyl cyclohexane	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	-	-	-	-	-	-	-	-	-	5.0 U
Methylene chloride	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Styrene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Tetrachloroethene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Toluene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
trans-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U

TABLE 3.2

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 SECOND SEMI-ANNUAL (2011) GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		EastPlantArea	EastPlantArea	EastPlantArea	MonitoringWell_RFIBoundary_ WestPlantArea	P002	P002_MonitoringWell	P006	P006	P015	P205
Sample Location		CH-43	CH-44	MW-X227Y054	MW-X033Y147S	MW-X000Y105	MW-X012Y078	MW-X315Y115	MW-X315Y150	Tributary 3-3	MW-X277Y100
Sample Identification		GW-121712-JH-004	GW-121712-SA-003	GW-121812-JH-016	GW-121912-JH-018	EB-122012-JH-001	EB-122012-JH-002	GW-121912-JH-022	GW-121912-JH-020	SW-121912-SA-021	GW-121712-JH-006
Sample Date		12/17/2012	12/17/2012	12/18/2012	12/19/2012	12/20/2012	12/20/2012	12/19/2012	12/19/2012	12/19/2012	12/17/2012
Sample Type											
Units											
PCBs											
trans-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Trichloroethene	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Vinyl chloride	ug/L	-	-	-	-	-	-	-	-	-	1.0 U
Xylenes (total)	ug/L	-	-	-	-	-	-	-	-	-	2.0 U
Fparam											
Conductivity, field	mS/cm	1.016	0.995	1.2	1.923	-	-	0.429	0.365	0.339	0.785
Dissolved oxygen (DO), field	ug/L	1890	1800	750	810	-	-	1360	830	10920	1580
Oxidation reduction potential (ORP), field	millivolt	-84.9	23.4	-108.1	-51.4	-	-	-97.6	-42.9	263.1	-34.3
pH, field	s.u.	6.94	6.78	7.4	6.6	-	-	7.3	7.31	6.85	6.98
Temperature, field	Deg C	12.61	12.59	14.19	13.72	-	-	13.13	14.5	7.22	14.07
Turbidity, field	NTU	2.56	2.97	5.81	2.72	-	-	5.86	13.39	6.71	0.46

Notes:

ND - Not detected at the associated reporting limit.

TABLE 3.2

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 SECOND SEMI-ANNUAL (2011) GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		P205	P209	P209	P216GM_P216_east	P386_MonitoringWell	Plant_property	Plant_property	Plant_Property	Plant_property	RFIBoundary_P216West
Sample Location		MW-X277Y100	MW-X300Y199I-1	MW-X300Y199I-2	MW-X297Y305D-2	MW-X060Y304	MW-X043Y176	MW-X043Y176	MW-X043Y186	MW-X047Y236	MW-X261Y356D-3
Sample Identification		TB-121712-JH-001	GW-121812-SA-007	GW-121712-SA-005	GW-121812-SA-011	EB-122012-JH-003	GW-121812-JH-008	GW-121812-JH-010	GW-121812-JH-012	GW-121812-JH-014	GW-121812-SA-009
Sample Date		12/17/2012	12/18/2012	12/17/2012	12/18/2012	12/20/2012	12/18/2012	12/18/2012	12/18/2012	12/18/2012	12/18/2012
Sample Type		Duplicate									
Units											
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	0.22 U	0.19 U	0.19 U	0.19 U
Aroclor-1221 (PCB-1221)	ug/L	-	0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	0.22 U	0.19 U	0.19 U	0.19 U
Aroclor-1232 (PCB-1232)	ug/L	-	0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	0.22 U	0.19 U	0.19 U	0.19 U
Aroclor-1242 (PCB-1242)	ug/L	-	0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	0.22 U	0.19 U	0.19 U	0.19 U
Aroclor-1248 (PCB-1248)	ug/L	-	0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	0.22 U	0.19 U	0.19 U	0.19 U
Aroclor-1254 (PCB-1254)	ug/L	-	0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	0.22 U	0.19 U	0.19 U	0.19 U
Aroclor-1260 (PCB-1260)	ug/L	-	0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	0.22 U	0.19 U	0.19 U	0.19 U
Total PCBs	ug/L	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor-1016 (PCB-1016) (dissolved)	ug/L	-	0.19 U	0.19 U	0.19 U	-	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1221 (PCB-1221) (dissolved)	ug/L	-	0.19 U	0.19 U	0.19 U	-	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1232 (PCB-1232) (dissolved)	ug/L	-	0.19 U	0.19 U	0.19 U	-	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1242 (PCB-1242) (dissolved)	ug/L	-	0.19 U	0.19 U	0.19 U	-	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1248 (PCB-1248) (dissolved)	ug/L	-	0.19 U	0.19 U	0.19 U	-	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1254 (PCB-1254) (dissolved)	ug/L	-	0.19 U	0.19 U	0.19 U	-	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Aroclor-1260 (PCB-1260) (dissolved)	ug/L	-	0.19 U	0.19 U	0.19 U	-	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Total PCBs (dissolved)	ug/L	-	ND	ND	ND	-	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (SVOCs)											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-

TABLE 3.2

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 SECOND SEMI-ANNUAL (2011) GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area	P205	P209	P209	P216GM_P216_east	P386_MonitoringWell	Plant_property	Plant_property	Plant_Property	Plant_property	RFIBoundary_P216West
Sample Location	MW-X277Y100	MW-X300Y199I-1	MW-X300Y199I-2	MW-X297Y305D-2	MW-X060Y304	MW-X043Y176	MW-X043Y176	MW-X043Y186	MW-X047Y236	MW-X261Y356D-3
Sample Identification	TB-121712-JH-001	GW-121812-SA-007	GW-121712-SA-005	GW-121812-SA-011	EB-122012-JH-003	GW-121812-JH-008	GW-121812-JH-010	GW-121812-JH-012	GW-121812-JH-014	GW-121812-SA-009
Sample Date	12/17/2012	12/18/2012	12/17/2012	12/18/2012	12/20/2012	12/18/2012	12/18/2012	12/18/2012	12/18/2012	12/18/2012
Sample Type							Duplicate			

Units

PCBs

Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	-	-	-	-

TABLE 3.2

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 SECOND SEMI-ANNUAL (2011) GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area	P205	P209	P209	P216GM_P216_east	P386_MonitoringWell	Plant_property	Plant_property	Plant_Property	Plant_property	RFIBoundary_P216West
Sample Location	MW-X277Y100	MW-X300Y199I-1	MW-X300Y199I-2	MW-X297Y305D-2	MW-X060Y304	MW-X043Y176	MW-X043Y176	MW-X043Y186	MW-X047Y236	MW-X261Y356D-3
Sample Identification	TB-121712-JH-001	GW-121812-SA-007	GW-121712-SA-005	GW-121812-SA-011	EB-122012-JH-003	GW-121812-JH-008	GW-121812-JH-010	GW-121812-JH-012	GW-121812-JH-014	GW-121812-SA-009
Sample Date	12/17/2012	12/18/2012	12/17/2012	12/18/2012	12/20/2012	12/18/2012	12/18/2012	12/18/2012	12/18/2012	12/18/2012
Sample Type	Duplicate									
	Units									

PCBs

Volatile Organic Compounds (VOCs)

1,1,1-Trichloroethane	ug/L	1.0 U	-	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	1.0 U	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	1.0 U	-	-	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	1.0 U	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	1.0 U	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	1.0 U	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/L	1.0 U	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	1.0 U	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	1.0 U	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	-	-	-	-	-	-	-	-
2-Hexanone	ug/L	10 U	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	-	-	-	-	-	-	-	-
Acetone	ug/L	11	-	-	-	-	-	-	-	-
Benzene	ug/L	1.0 U	-	-	-	-	-	-	-	-
Bromodichloromethane	ug/L	1.0 U	-	-	-	-	-	-	-	-
Bromoform	ug/L	1.0 U	-	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	ug/L	1.0 U	-	-	-	-	-	-	-	-
Carbon disulfide	ug/L	1.0 U	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/L	1.0 U	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	1.0 U	-	-	-	-	-	-	-	-
Chloroethane	ug/L	1.0 U	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	ug/L	1.0 U	-	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/L	1.0 U	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	1.0 U	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	1.0 U	-	-	-	-	-	-	-	-
Cyclohexane	ug/L	1.0 U	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	1.0 U	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	1.0 U	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	1.0 U	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	-	-	-	-	-	-	-	-
Methyl cyclohexane	ug/L	1.0 U	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	1.0 U	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	-	-	-	-	-	-	-	-
Tetrachloroethene	ug/L	1.0 U	-	-	-	-	-	-	-	-
Toluene	ug/L	1.0 U	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	1.0 U	-	-	-	-	-	-	-	-

TABLE 3.2

2012 SUMMARY OF PCBs ANALYTICAL RESULTS FOR EI CA750 SECOND SEMI-ANNUAL (2011) GROUNDWATER SAMPLES
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		P205	P209	P209	P216GM_P216_east	P386_MonitoringWell	Plant_property	Plant_property	Plant_Property	Plant_property	RFIBoundary_P216West
Sample Location		MW-X277Y100	MW-X300Y199I-1	MW-X300Y199I-2	MW-X297Y305D-2	MW-X060Y304	MW-X043Y176	MW-X043Y176	MW-X043Y186	MW-X047Y236	MW-X261Y356D-3
Sample Identification		TB-121712-JH-001	GW-121812-SA-007	GW-121712-SA-005	GW-121812-SA-011	EB-122012-JH-003	GW-121812-JH-008	GW-121812-JH-010	GW-121812-JH-012	GW-121812-JH-014	GW-121812-SA-009
Sample Date		12/17/2012	12/18/2012	12/17/2012	12/18/2012	12/20/2012	12/18/2012	12/18/2012	12/18/2012	12/18/2012	12/18/2012
Sample Type								Duplicate			
Units											
PCBs											
trans-1,3-Dichloropropene	ug/L	1.0 U	-	-	-	-	-	-	-	-	-
Trichloroethene	ug/L	1.0 U	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	-	-	-	-	-	-	-	-	-
Trifluorotrichloroethane (Freon 113)	ug/L	1.0 U	-	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	1.0 U	-	-	-	-	-	-	-	-	-
Xylenes (total)	ug/L	2.0 U	-	-	-	-	-	-	-	-	-
Fparam											
Conductivity, field	mS/cm	-	0.445	0.496	0.636	-	2.057	2.057	2.583	0.632	0.485
Dissolved oxygen (DO), field	ug/L	-	3020	1590	2080	-	850	850	490	1070	3830
Oxidation reduction potential (ORP), field	millivolt	-	170.2	68	125.8	-	-86.2	-86.2	-147.2	-69.7	210.3
pH, field	s.u.	-	8.91	7.14	6.94	-	6.72	6.72	6.6	7.18	9.36
Temperature, field	Deg C	-	12.74	13.56	13.4	-	12.06	12.06	11.71	11.79	11.77
Turbidity, field	NTU	-	0.55	1.03	1.71	-	5.18	5.18	1.9	2.07	7.31

Notes:

ND - Not detected at the associated reporting limit.

TABLE 3.3

2012 LEACHATE COLLECTION SYSTEM MONITORING ANALYTICAL RESULTS
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		A007	A007	A007	A007	A007	A007	A007	A007	A007	A007	A007	A007
Sample Location		EPA LCS	EPA LCS	EPA LCS	EPA LCS	EPA LCS	EPA LCS	EPA LCS	EPA LCS	EPA LCS	EPA LCS	EPA LCS	EPA LCS
Sample Identification		WL-AO17-012412-GS-39796	WL-AO17-022212-GS-39816	WL-AO17-032812-GS-39835	WL-AO17-042412-GS-39845	WL-AO17-052212-GS-39853	WL-AO17-062612-GS-39864	WL-AO17-071012-GS-39867	WL-AO17-082112-GS-39878	WL-AO17-092612-GS-39888	WL-AO17-102912-GS-39909	WL-AO17-112012-GS-39913	WL-AO17-121112-GS-39922
Sample Date		1/24/2012	2/22/2012	3/28/2012	4/24/2012	5/22/2012	6/26/2012	7/10/2012	8/21/2012	9/26/2012	10/29/2012	11/20/2012	12/11/2012
Sample Type													
Validation Status		Unvalidated	Unvalidated	Unvalidated	Unvalidated	Unvalidated	Unvalidated	Unvalidated	Unvalidated	Validated	Validated	Validated	Validated
	Units												
PCBs													
Aroclor-1016 (PCB-1016)	ug/L	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.98 U	0.95 U	3.8 U	0.97 U	1.9 U	0.20 U	0.20 U
Aroclor-1221 (PCB-1221)	ug/L	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.98 U	0.95 U	3.8 U	0.97 U	1.9 U	0.20 U	0.20 U
Aroclor-1232 (PCB-1232)	ug/L	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.98 U	0.95 U	3.8 U	0.97 U	1.9 U	0.20 U	0.20 U
Aroclor-1242 (PCB-1242)	ug/L	0.19 U	0.20 U	1.4	2.5	0.19 U	6.3	4.2	12	5.5	11	0.89	1.2
Aroclor-1248 (PCB-1248)	ug/L	0.19 U	0.20 U	0.19 U	0.19 U	2.3	0.98 U	0.95 U	3.8 U	0.97 U	1.9 U	0.20 U	0.20 U
Aroclor-1254 (PCB-1254)	ug/L	0.19 U	0.20 U	0.19 U	0.19 U	0.19 U	0.98 U	0.95 U	3.3 J	0.97 U	1.9 U	0.10 J	0.16 J
Aroclor-1260 (PCB-1260)	ug/L	0.19 U	0.20 U	0.19 U	0.27	0.19 U	0.98 U	0.95 U	3.8 U	0.40 J	1.0 J	0.20 U	0.20 U
Total PCBs	ug/L	ND	ND	1.4	2.77	2.42 J	6.3	4.2	15.3 J	5.9 J	12 J	0.99 J	1.36 J
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	0.14 J	1.0 U
2-Chloroethyl vinyl ether	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	-	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	0.15 J	0.13 J
Bromodichloromethane	ug/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	0.34 J	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	-
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Field Parameters													
Conductivity, field	mS/cm	-	-	-	-	-	-	-	-	-	2.638	2.205	2.901
pH, field	s.u.	-	-	-	-	-	-	-	-	-	6.87	6.47	6.88
Notes:													
U - Not present at or above the associated value.													
J - Estimated concentration.													
UJ - Not detected; associated reporting limit is estimated.													

TABLE 3.4

2012 LEAK DETECTION SYSTEM MONITORING ANALYTICAL RESULTS
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		A007	A007	A007	A007	A007	A007	A007
Sample Location		EPA LDS	EPA LDS	EPA LDS	EPA LDS	EPA LDS	EPA LDS	EPA LDS
Sample Identification		WL-AOI7-012412-GS-39797	WL-AOI7-022212-GS-39817	WL-AOI7-032812-GS-39836	WL-AOI7-042412-GS-39846	WL-AOI7-052212-GS-39854	WL-AOI7-062612-GS-39865	WL-AOI7-071012-GS-39866
Sample Date		1/24/2012	2/22/2012	3/28/2012	4/24/2012	5/22/2012	6/26/2012	7/10/2012
Sample Type								
Validation Status	Units	Unvalidated	Unvalidated	Unvalidated	Unvalidated	Unvalidated	Unvalidated	Unvalidated
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	0.20 U	3.8 U	9.5 U	0.21 U	0.19 U	1.0 U	1.1 U
Aroclor-1221 (PCB-1221)	ug/L	0.20 U	3.8 U	9.5 U	0.21 U	0.19 U	1.0 U	1.1 U
Aroclor-1232 (PCB-1232)	ug/L	0.20 U	3.8 U	9.5 U	0.21 U	0.19 U	1.0 U	1.1 U
Aroclor-1242 (PCB-1242)	ug/L	0.20 U	30	54	1.5	0.19 U	5.1	4.1
Aroclor-1248 (PCB-1248)	ug/L	0.20 U	3.8 U	9.5 U	0.21 U	3.0	1.0 U	1.1 U
Aroclor-1254 (PCB-1254)	ug/L	0.20 U	7.4	4.8 J	0.21 U	0.19 U	1.0 U	1.1 U
Aroclor-1260 (PCB-1260)	ug/L	0.20 U	3.8 U	9.5 U	0.063 J	0.21	1.0 U	0.28 J
Total PCBs	ug/L	ND	37.4	58.8 J	1.563 J	3.21	5.1	4.38 J
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	ug/L	-	-	-	-	-	-	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	-	-	-	-	-	-	1.0 U
1,1,2-Trichloroethane	ug/L	-	-	-	-	-	-	1.0 U
1,1-Dichloroethane	ug/L	-	-	-	-	-	-	1.0 U
1,1-Dichloroethene	ug/L	-	-	-	-	-	-	1.0 U
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	1.0 U
1,2-Dichloroethane	ug/L	-	-	-	-	-	-	1.0 U
1,2-Dichloropropane	ug/L	-	-	-	-	-	-	1.0 U
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	1.0 U
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	1.0 U
2-Chloroethyl vinyl ether	ug/L	-	-	-	-	-	-	10 U
Benzene	ug/L	-	-	-	-	-	-	1.0 U
Bromodichloromethane	ug/L	-	-	-	-	-	-	1.0 U
Bromoform	ug/L	-	-	-	-	-	-	1.0 U
Bromomethane (Methyl bromide)	ug/L	-	-	-	-	-	-	1.0 U
Carbon tetrachloride	ug/L	-	-	-	-	-	-	1.0 U
Chlorobenzene	ug/L	-	-	-	-	-	-	1.0 U
Chloroethane	ug/L	-	-	-	-	-	-	1.0 U
Chloroform (Trichloromethane)	ug/L	-	-	-	-	-	-	1.0 U
Chloromethane (Methyl chloride)	ug/L	-	-	-	-	-	-	1.0 U
cis-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	1.0 U
Dibromochloromethane	ug/L	-	-	-	-	-	-	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	-	-	1.0 U
Ethylbenzene	ug/L	-	-	-	-	-	-	1.0 U
Methylene chloride	ug/L	-	-	-	-	-	-	1.0 U
Styrene	ug/L	-	-	-	-	-	-	1.0 U
Tetrachloroethene	ug/L	-	-	-	-	-	-	1.0 U
Toluene	ug/L	-	-	-	-	-	-	1.0 U
trans-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	1.0 U
trans-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	-	-	-	-	-	-	1.0 U
Vinyl chloride	ug/L	-	-	-	-	-	-	1.0 U

Notes:

- U - Not present at or above the associated value.
- J - Estimated concentration.
- R - Rejected

TABLE 3.4
2012 LEAK DETECTION SYSTEM MONITORING ANALYTICAL RESULTS
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		A007	A007	A007	A007	A007	A007
Sample Location		EPA LDS	EPA LDS	EPA LDS	EPA LDS	EPA LDS	EPA LDS
Sample Identification		WL-AOI7-082112-GS-39879	WL-AOI7-092612-GS-39889	WL-AOI7-102912-GS-39910	WL-AOI7-102912-GS-39911	WL-AOI7-112012-GS-39914	WL-AOI7-121112-GS-39923
Sample Date		8/21/2012	9/26/2012	10/29/2012	10/29/2012	11/20/2012	12/11/2012
Sample Type					Duplicate		
Validation Status	Units	Unvalidated	Validated	Validated	Validated	Validated	Validated
PCBs							
Aroclor-1016 (PCB-1016)	ug/L	9.5 U	0.95 U	0.19 U	0.19 U	0.20 U	0.20 U
Aroclor-1221 (PCB-1221)	ug/L	9.5 U	0.95 U	0.19 U	0.19 U	0.20 U	0.20 U
Aroclor-1232 (PCB-1232)	ug/L	9.5 U	0.95 U	0.19 U	0.19 U	0.20 U	0.20 U
Aroclor-1242 (PCB-1242)	ug/L	45	5.2	1.7	3.1	0.55 J	1.7
Aroclor-1248 (PCB-1248)	ug/L	9.5 U	0.95 U	0.19 U	0.19 U	0.20 U	0.20 U
Aroclor-1254 (PCB-1254)	ug/L	14	0.95 U	0.19 U	0.19 U	0.057 J	0.20 U
Aroclor-1260 (PCB-1260)	ug/L	9.5 U	0.23 J	0.12 J	0.22	R	0.060 J
Total PCBs	ug/L	59	5.43 J	1.82 J	3.32	0.607 J	1.76 J
Volatile Organic Compounds (VOCs)							
1,1,1-Trichloroethane	ug/L	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	ug/L	-	-	-	-	-	-
1,1,2-Trichloroethane	ug/L	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	-	-	-	-	-	-
1,1-Dichloroethene	ug/L	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-
1,2-Dichloroethane	ug/L	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-
2-Chloroethyl vinyl ether	ug/L	-	-	-	-	-	-
Benzene	ug/L	-	-	-	-	-	-
Bromodichloromethane	ug/L	-	-	-	-	-	-
Bromoform	ug/L	-	-	-	-	-	-
Bromomethane (Methyl bromide)	ug/L	-	-	-	-	-	-
Carbon tetrachloride	ug/L	-	-	-	-	-	-
Chlorobenzene	ug/L	-	-	-	-	-	-
Chloroethane	ug/L	-	-	-	-	-	-
Chloroform (Trichloromethane)	ug/L	-	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/L	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	-	-	-	-	-	-
Dibromochloromethane	ug/L	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	-	-
Ethylbenzene	ug/L	-	-	-	-	-	-
Methylene chloride	ug/L	-	-	-	-	-	-
Styrene	ug/L	-	-	-	-	-	-
Tetrachloroethene	ug/L	-	-	-	-	-	-
Toluene	ug/L	-	-	-	-	-	-
trans-1,2-Dichloroethene	ug/L	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	ug/L	-	-	-	-	-	-
Vinyl chloride	ug/L	-	-	-	-	-	-

Notes:

- U - Not present at or above the associated value
- J - Estimated concentration.
- R - Rejected

TABLE 3.5

2012 SSC WTP (CRA WWTP TAG 66) EFFLUENT ANALYTICAL RESULTS
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		A010 East Plant	A010 East Plant	A010 East Plant	A010 East Plant	A010 East Plant	A010 East Plant	A010 East Plant
Sample Location		CRA WWTP Tag 66	CRA WWTP Tag 66	CRA WWTP Tag 66	CRA WWTP Tag 66	CRA WWTP Tag 66	CRA WWTP Tag 66	CRA WWTP Tag 66
Sample Identification		WW-AOI10-010612-GS-35475	WW-AOI10-010612-GS-35476	WW-AOI10-020212-GS-35477	WW-AOI10-030712-GS-35491	WW-AOI10-041012-GS-35501	WW-AOI10-050112-GS-35517	WW-AOI10-060512-GS-35527
Sample Date		1/6/2012	1/6/2012	2/2/2012	3/7/2012	4/10/2012	5/1/2012	6/5/2012
Sample Type								
Validation Status		Unvalidated	Unvalidated	Unvalidated	Unvalidated	Unvalidated	Unvalidated	Unvalidated
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	-	0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U
Aroclor-1221 (PCB-1221)	ug/L	-	0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U
Aroclor-1232 (PCB-1232)	ug/L	-	0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U
Aroclor-1242 (PCB-1242)	ug/L	-	0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U
Aroclor-1248 (PCB-1248)	ug/L	-	0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U
Aroclor-1254 (PCB-1254)	ug/L	-	0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U
Aroclor-1260 (PCB-1260)	ug/L	-	0.19 U	0.19 U	0.19 U	0.20 U	0.19 U	0.20 U
Total PCBs	ug/L	-	ND	ND	ND	ND	ND	ND
General Chemistry								
Biochemical oxygen demand (carbonaceous)	ug/L	2000 U	-	-	-	-	-	-
Chemical oxygen demand (COD)	ug/L	25000	-	-	-	-	-	-
Nitrite/Nitrate	ug/L	270	-	-	-	-	-	-
Oil and grease (HEM), polar	ug/L	4900 U	-	-	-	-	-	-
pH, lab	s.u.	7.86	-	-	-	-	-	-
Phosphorus	ug/L	100 U	-	-	-	-	-	-
Total kjeldahl nitrogen (TKN)	ug/L	5000 U	-	-	-	-	-	-
Total suspended solids (TSS)	ug/L	3000 J	-	-	-	-	-	-

Notes:

U - Not present at or above the associated value.

TestAmerica - Lab Qualifiers:

J - Laboratory qualified as an estimated value.

TABLE 3.5

2012 SSC WTP (CRA WWTP TAG 66) EFFLUENT ANALYTICAL RESULTS
EAST PLANT AREA VAULT
GM CET BEDFORD FACILITY
BEDFORD, INDIANA

Sample Area		A010 East Plant	A010 East Plant	A010 East Plant	A010 East Plant	A010 East Plant	A010 East Plant
Sample Location		CRA WWTP Tag 66	CRA WWTP Tag 66	CRA WWTP Tag 66	CRA WWTP Tag 66	CRA WWTP Tag 66	CRA WWTP Tag 66
Sample Identification		WW-AOI10-070512-GS-35535	WW-AOI10-080112-GS-35542	WW-AOI10-091112-GS-35552	WW-AOI10-101012-GS-35559	WW-AOI10-110712-GS-35567	WW-AOI10-121212-GS-35574
Sample Date		7/5/2012	8/1/2012	9/11/2012	10/10/2012	11/7/2012	12/12/2012
Sample Type							
Validation Status		Unvalidated	Unvalidated	Unvalidated	Unvalidated	Unvalidated	Unvalidated
	Units						
PCBs							
Aroclor-1016 (PCB-1016)	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.21 U	0.19 U
Aroclor-1221 (PCB-1221)	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.21 U	0.19 U
Aroclor-1232 (PCB-1232)	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.21 U	0.19 U
Aroclor-1242 (PCB-1242)	ug/L	0.19 U	0.19 U	0.19 U	0.076 J	0.21 U	0.19 U
Aroclor-1248 (PCB-1248)	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.21 U	0.19 U
Aroclor-1254 (PCB-1254)	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.21 U	0.19 U
Aroclor-1260 (PCB-1260)	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.21 U	0.19 U
Total PCBs	ug/L	ND	ND	ND	0.076 J	ND	ND
General Chemistry							
Biochemical oxygen demand (carbonaceous)	ug/L	-	-	-	-	-	-
Chemical oxygen demand (COD)	ug/L	-	-	-	-	-	-
Nitrite/Nitrate	ug/L	-	-	-	-	-	-
Oil and grease (HEM), polar	ug/L	-	-	-	-	-	-
pH, lab	s.u.	-	-	-	-	-	-
Phosphorus	ug/L	-	-	-	-	-	-
Total kjeldahl nitrogen (TKN)	ug/L	-	-	-	-	-	-
Total suspended solids (TSS)	ug/L	-	-	-	-	-	-

Notes:

U - Not present at or above the associated value.

TestAmerica - Lab Qualifiers:

J - Laboratory qualified as an estimated value.